

Customer \_\_\_\_\_

Ser. No. \_\_\_\_\_

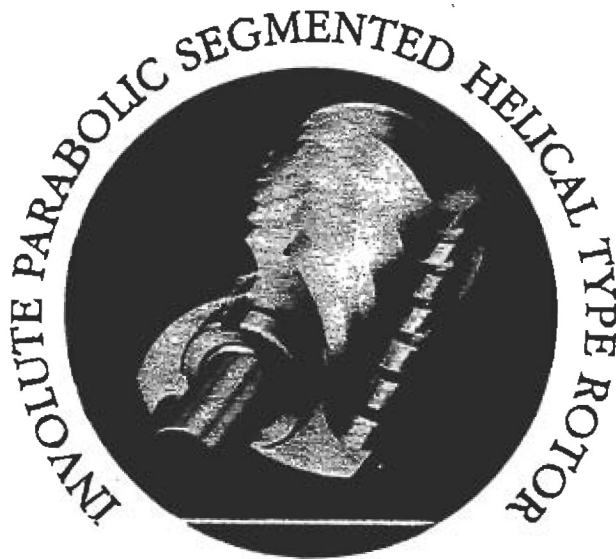
Date \_\_\_\_\_

Model \_\_\_\_\_

# **CONAIR WORTEX**

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**Part Of The Conair Group**



## **OWNERS MANUAL**

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**JC + XL 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This manual is out-of-date and is provided only for its technical information, data and capacities.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containing warnings, information, precautions, and procedures that may be more adequate than those contained in this out-of-date manual.

## FOREWORD

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**CONAIR WORTEX** sincerely appreciates your choice of equipment, and assures performance to meet your needs and, indeed, it will surpass your expectations if normal recommended maintenance methods are observed.

As an owner, you can be proud of **CONAIR WORTEX's** 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 WORTEX** equipment, along with a 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 thoroughly.

### **ASSISTANCE**

When maintenance is required, if 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 WORTEX***  

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**Part Of The Conair Group**

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# MANUFACTURER'S GENERAL WARRANTY

**CONAIR 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 complete manufacturer's 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 discovery of defect, properly identified and transportation charges prepaid, and not more than (6) months after the purchase by the original user, provided that, in our judgement, the part is defective.

Manufacturer will furnish without charge, FBO our plant, 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.

***CONAIR WORTEX***  
**Part Of The Conair Group**

## **IMPORTANT NOTICE**

THESE GRANULATORS ARE VERY DIFFERENT COMPARED TO CONVENTIONAL GRANULATORS. TO PREVENT INJURY READ AND UNDERSTAND THIS MANUAL BEFORE INSTALLING THIS EQUIPMENT.

AFTER READING MANUAL, IF THERE ARE ANY QUESTIONS; PLEASE CALL:

# SAFE OPERATING PROCEDURES

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Equipment manufactured by **CONAIR 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 anytime.
- 6). **Remember - safety of the operation depends on the owner and his operators.**

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

# SAFE OPERATING PROCEDURES

**DANGER**



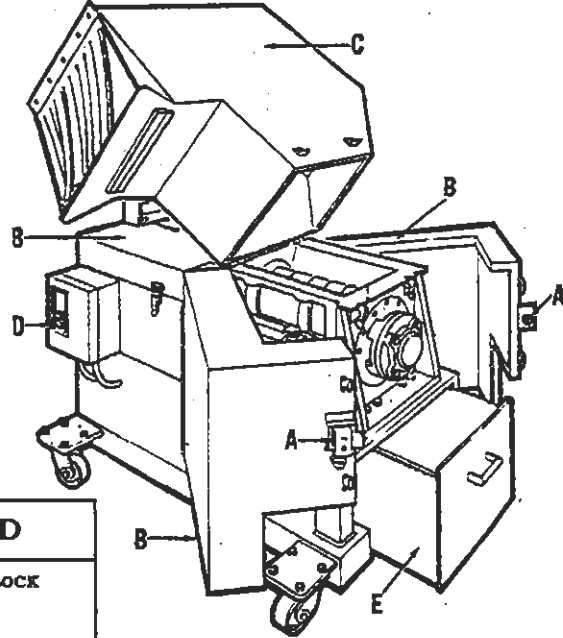
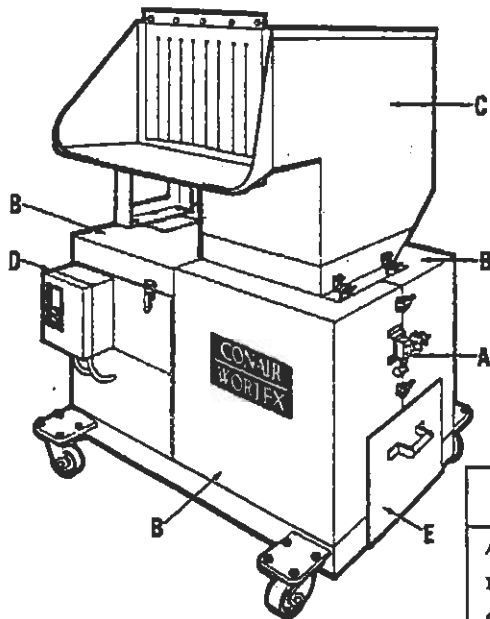
**TO AVOID AMPUTATION:**

1. DO NOT OPERATE WITHOUT COVERS
2. DO NOT OVERRIDE INTERLOCKING SWITCH

GRANULATOR SHOWN IN "SAFE" OPERATING CONDITION

GRANULATOR SHOWN WITH SAFETY INTERLOCK DISCONNECTED

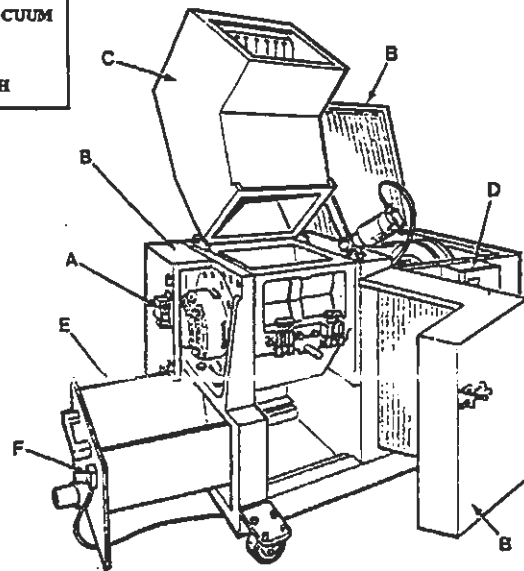
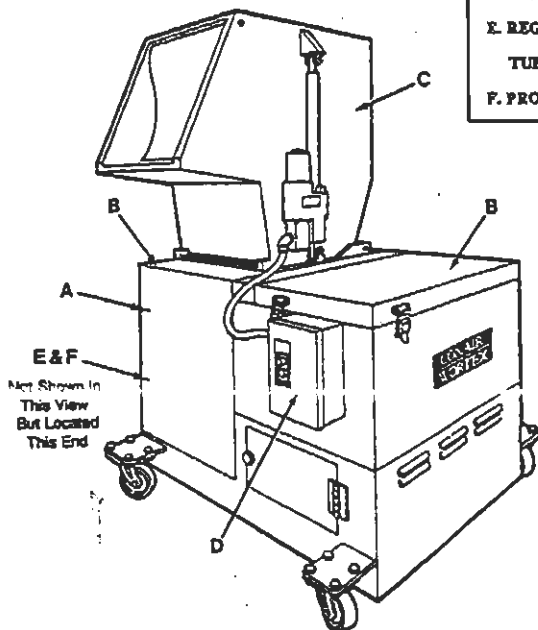
## JC SERIES



### LEGEND

- A. SAFETY INTERLOCK
- B. GUARDS
- C. HOPPER
- D. ELECTRICAL CONTROL PANEL NEMA 12
- E. REGRIND BIN w/ VACUUM TUBE
- F. PROXIMITY SWITCH

## XL SERIES



**NOTE: DISCONNECT ELECTRICAL POWER TO JC AND XL GRANULATORS BEFORE PERFORMING MAINTENANCE**



# JC SERIES PARTS LIST

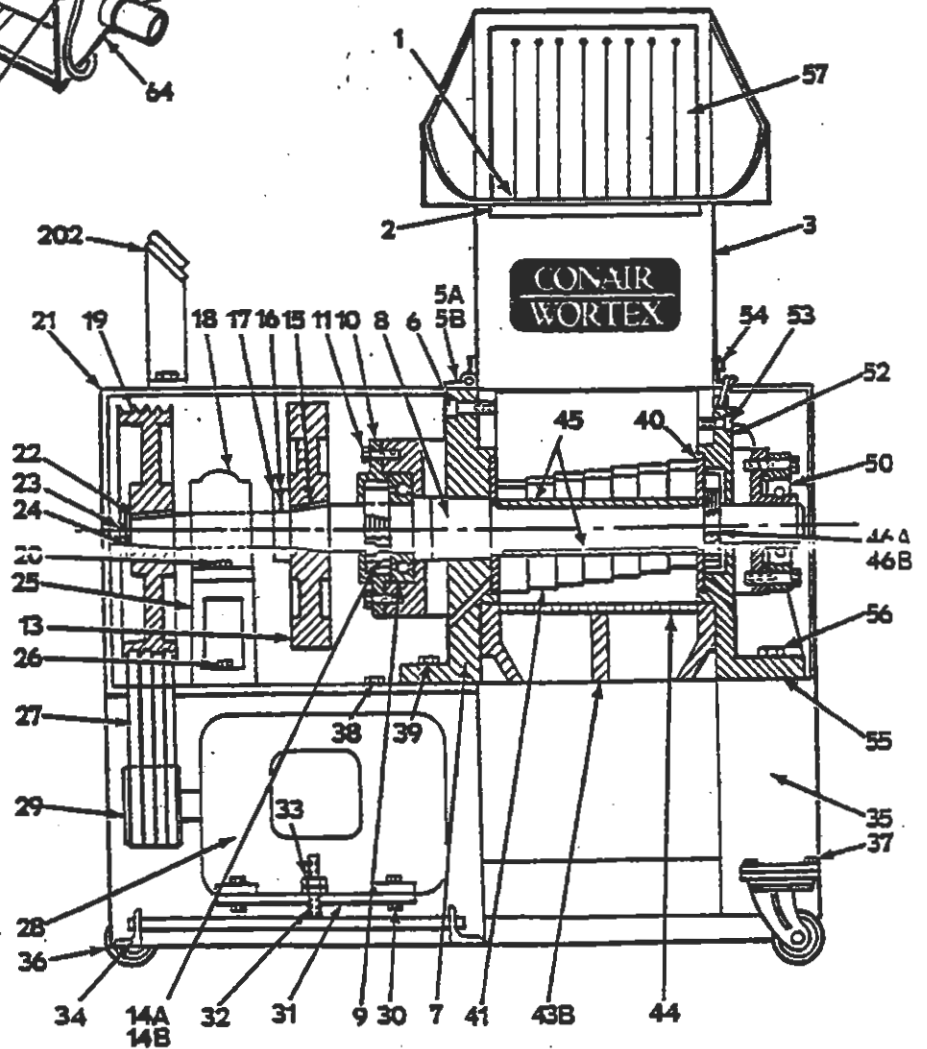
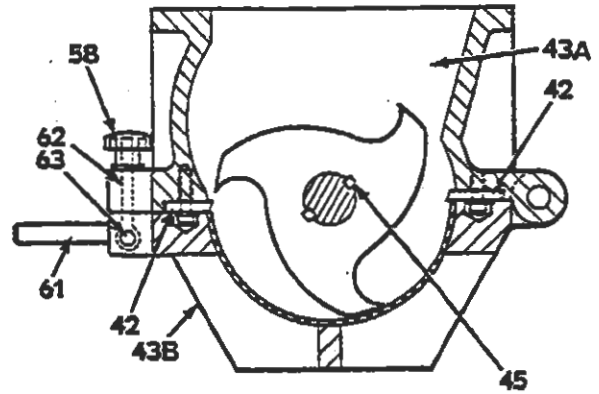
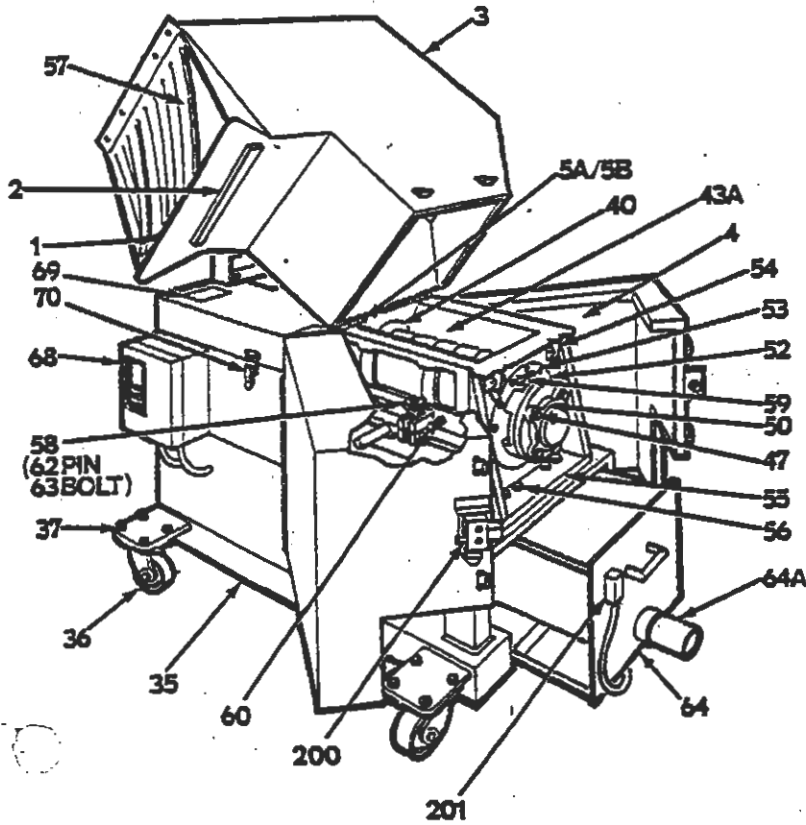
Ref.No.	Description	Q'ty/Unit	Ref.No.	Description	Q'ty/Unit
1	Feed Tray	1	39	Flange Bolts	4
2	Tray Magnet	1	40	Rotating Disc	2
3	Hopper	1	41	Rotor Blade Ass'y	1 Set
4	Soundproofing	1	42	Stationary Blade	1 Set
5A	Hinge <i>Old Style</i>	2 Sets	43A	Cutting Chamber	1
5B	Hinge <i>New Style</i>	1	43B	Screen Cradle	1
6	Flange Bolt	7	44	Screen	1
7	Flange (Inboard)	1	45	Rotor Shaft Keys	2
8	Rotor Shaft	1	46A	Spanner Nut- <i>Old Style</i>	1
9	Bearing (Inboard)	1	46B	Spanner Nut- <i>New Style</i>	1
10	Bearing Cover	1	47	Bearing Bolt	4
11	Cover Bolt	4	48	Bearing Set Screws	2
12	Set Screw W/Pin**	1	49	Bearing Cover(See Note)	1
13	Fly Wheel	1	50	Bearing Outboard (See Note)	1
14A	Spanner Nut - <i>Old Style</i>	1	51	Set Screw W/Pin**	1
14B	Spanner Nut - <i>New Style</i>	1	52	Round Flange	1
15	Key- Flywheel	1	53	Round Flange Bolts	5
16	Set Screw W/Pin	1	54	Hopper Latches	2 Sets
17	Spanner Nut	1	55	Flange (Outboard)	1
18	Pillow Block Bearing	1	56	Flange (Outboard) Bolts	4
19	Rotor Drive Pulley	1	57	Hopper Curtain	1 Set
20	Bearing Bolt	2	58	Hand Knob	2
21	Guard (Inboard)	1	59	Rotation Label	1
22	Drive Pulley Key	1	60	Adjsmt Bolts-Stationary Blade	4
23	Bolt	1	61	Screen Cradle Handle	1
24	Pulley Cover Plate	1	62	Toggle Bolt Pin	2
25	Bearing Riser	1	63	Toggle Bolt	2
26	Riser Bolt	2	64	Bin	1
27	"V" Belts	4	64A	Transition Tube- Vacuum	1
28	Rotor Motor	1	65	Guard Bolts*	4
29	Motor Pulley	1	66	Electric Cord**	5M
30	Motor Base Bolt	4	67	Plug**	1
31	Adjsmt. Motor Base	1	68	Control Box-On/Off NEMA 12	1
32	Adjsmt. Bolt	1 Set	69	Name Plate	1
33	Adjsmt. Lock Nut	2	70	Guard Latches	2 Sets
34	Angle	4	71	Guard Hand Knob*	1
35	Base	1	200	Safety Interlock	1
36	Casters	4	201	Proximity Switch	1
37	Caster Bolt	16, 16	202	Hopper Rest Bracket	1
38	Guard Bolt	4			

\* Not Shown

\*\* Not Applicable

Note: No. 49 and 50 constitute one unit of bearing (Outboard).

# JC SERIES COMPONENTS



# XL SERIES PARTS LIST

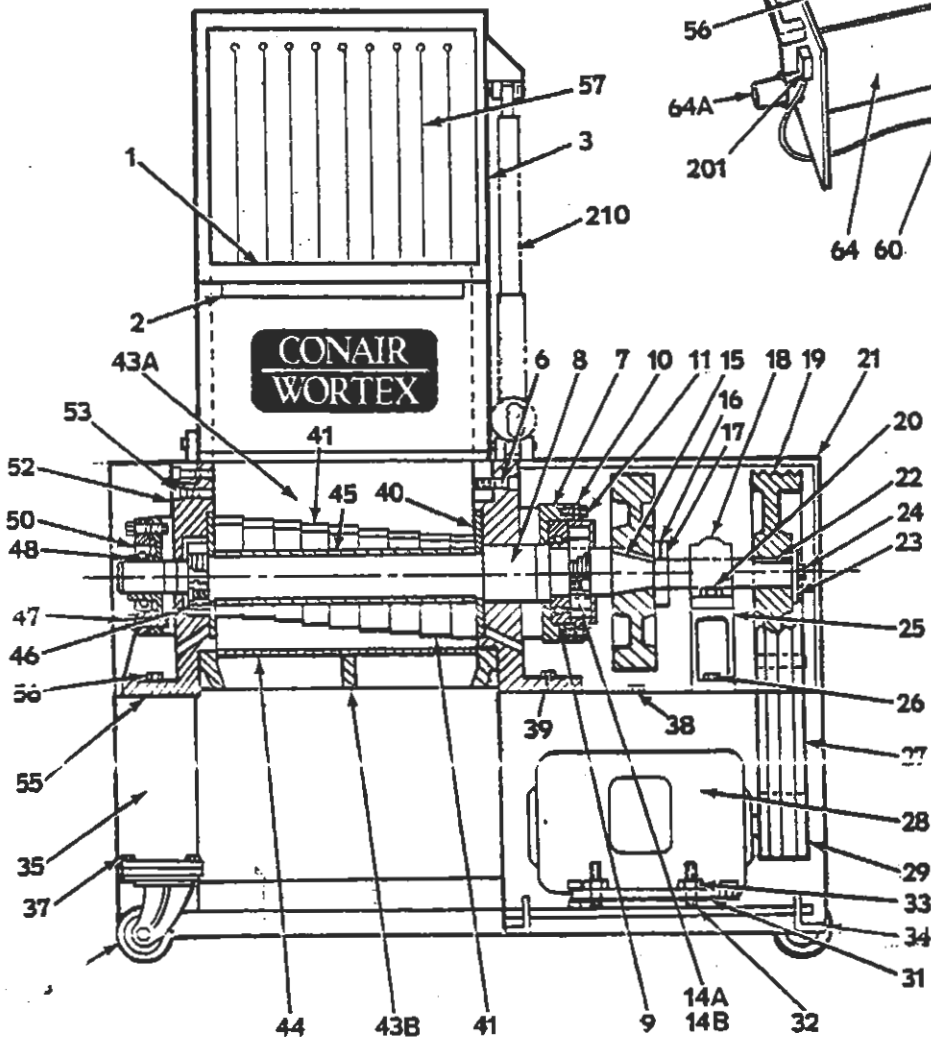
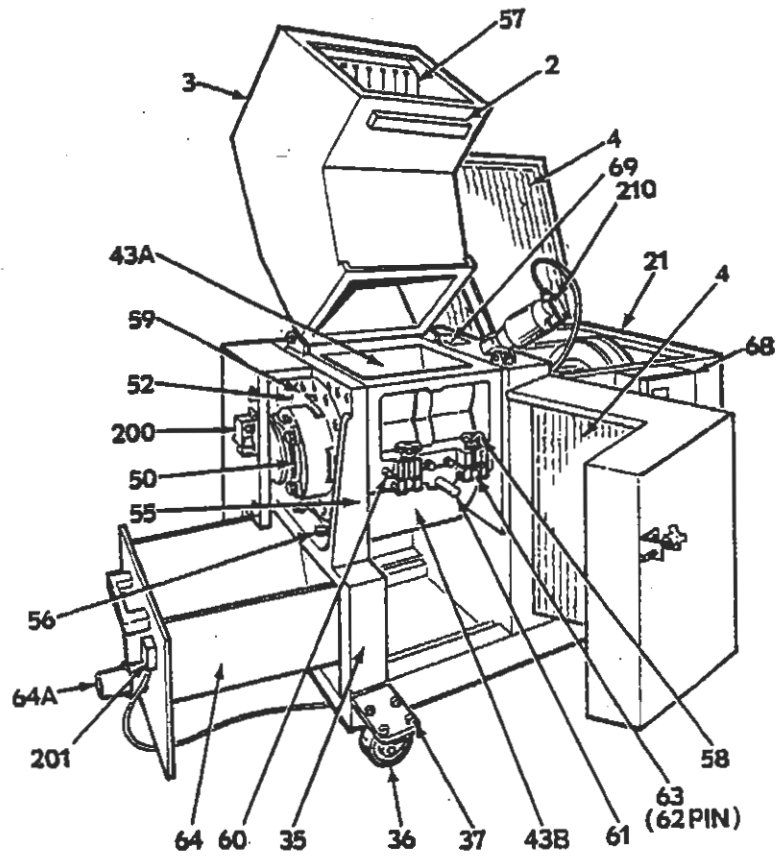
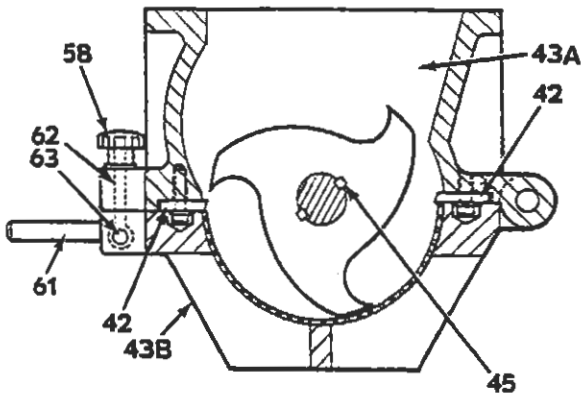
Ref.No.	Description	Qty/Unit	Ref.No.	Description	Qty/Unit
1	Feed Tray	1	39	Flange Bolts	4
2	Tray Magnet	1	40	Rotating Disc	2
3	Hopper	1	41	Rotor Blade Ass'y	1 Set
4	Soundproofing	1	42	Stationary Blade	1 Set
5A	Hinge Old Style **	2 Sets	43A	Cutting Chamber	1
5B	Hinge New Style**	1	43B	Screen Cradle	1
6	Flange Bolt (Inboard)	7	44	Screen	1
7	Flange (Inboard)	1	45	Rotor Shaft Keys	2
8	Rotor Shaft*	1	46A	Spanner Nut	1
9	Bearing (Inboard)	1	46B	Spanner Nut	1
10	Bearing Cover	1	47	Bearing Bolt	4
11	Cover Bolt	4	48	Bearing Set Screws	2
12	Set Screw W/Pin	1	49	Bearing Cover (see note)	1
13	Fly Wheel	1	50	Bearing Outboard (see note)	1
14A	Spanner Nut <i>Old Style</i>	1	51	Set Screw W/Pin**	1
14B	Spanner Nut <i>New Style</i>	1	52	Round Flange	1
15	Key	1	53	Round Flange Bolts	5
16	Set Screw W/Pin	1	54	Hopper Latches**	2 Sets
17	Spanner Nut	1	55	Flange (Outboard)	1
18	Pillow Block Bearing	1	56	Flange (Outboard) Bolts	4
19	Rotor Drive Pulley	1	57	Hopper Curtain	1 Set
20	Bearing Bolt	2	58	Hand Knob	2
21	Guard (Inboard)	1	59	Rotation Label	1
22	Drive Pulley Key	1	60	Stationary Blade-Adj.Bolts	4
23	Bolt	1	61	Screen Cradle Handle	1
24	Pulley Cover Plate	1	62	Toggle Bolt Pin	2
25	Bearing Riser	1	63	Toggle Bolt	2
26	Riser Bolt	2	64	Bin	1
27	"V" Belts	4	64A	Transition Tube - Vacuum	1
28	Rotor Motor	1	65	Guard Bolts*	4
29	Motor Pulley	1	66	Electric Cord**	5M
30	Motor Base Bolt	4	67	Plug **	1
31	Adjst. Motor Base	1	68	Control Box -On/Off NENA 12	1
32	Adjsmt. Bolt	1 Set	69	Name Plate	1
33	Adjsmt. Lock Nut	2	70	Guard Latches	2 Sets
34	Angle	4	71	Guard Hand Knob*	1
35	Base	1	200	Safety Interlock	1
36	Casters	4	201	Proximity Switch	1
37	Caster Bolt	16-16	210	Power Actuator	1
38	Guard Bolt	4			

\*Not Shown

\*\* Not Applicable

Note: No. 49 and 50 constitute one unit of bearing (Outboard).

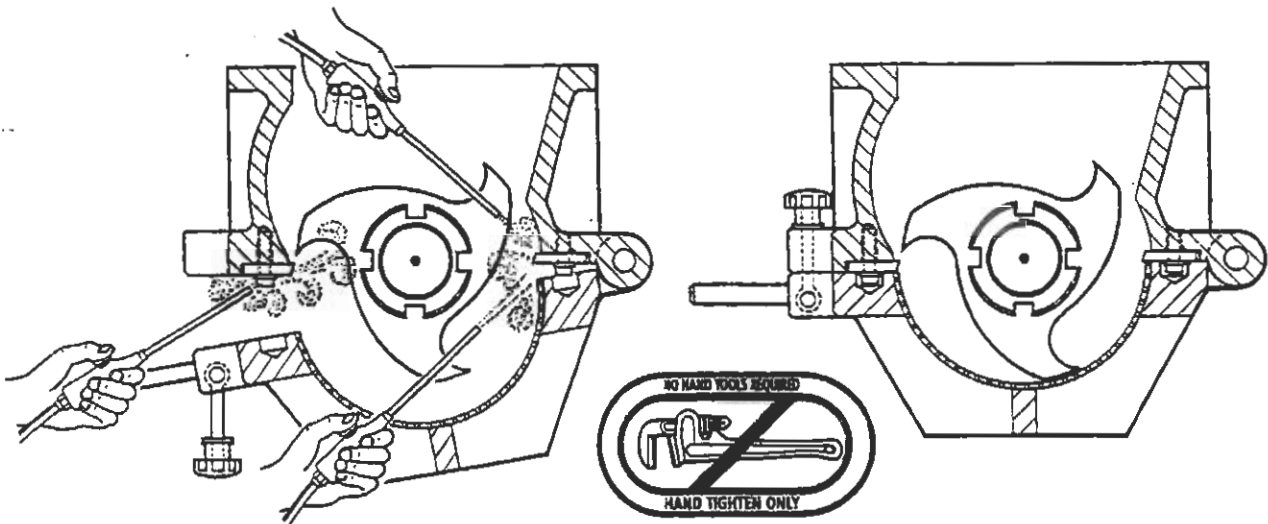
# XL SERIES COMPONENTS



1. Insure the proper Electrical Voltage Supply is provided.
2. **With power off and Lock-Out of Power Supply**, open machine completely - Hopper, Screen, Cradle and Cutting Chamber, visually inspect for any Foreign Objects.
3. Close Machine Completely.

**NOTE:**

WHEN OPENING SCREEN CRADLE FOR WHATEVER REASON, YOU MUST CLEAN THOROUGHLY BEFORE CLOSING.. THE SCREEN CRADLE MUST CLOSE TIGHTLY TO THE CUTTING CHAMBER. (HAND TIGHTEN ONLY) FAILURE TO CLEAN COULD RESULT IN CRADLE DAMAGE.



4. Remove any Foreign Objects on and around the Unit.
5. **With power on Polarize Motor** for proper rotation of Rotor (see Rotation Arrow above bearing).

**NOTE:**

ROTOR SHAFT MAY BE VIEWED BY LOOKING UNDER OUTBOARD BEARING OPENING (REF.#50 ON PARTS LIST)

If your Maintenance People have any questions, please feel free to call:

# OPERATION INSTRUCTIONS

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1. Do not operate with Foreign Articles around Granulators.
2. Do not attempt to bypass Safety Interlocks.
3. Do not throw in large lumps or purgings.
4. Throw in the proper volume that the Granulator is *sized* for and is capable of granulating.
5. If the Machine jams, disconnect and lock-out Electric Power Supply. Remove Front Panel with Safety Interlock Hand Knob, open Hopper and remove Plastic, no need to open Screen Cradle. If Screen Cradle is open, clean thoroughly before closing.

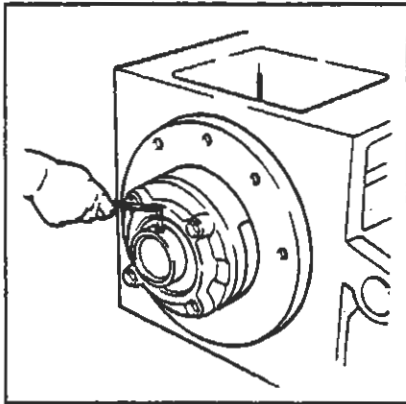
**NOTE:**

WHEN OPENING SCREEN CRADLE FOR WHATEVER REASON YOU MUST CLEAN THOROUGHLY BEFORE CLOSING. THE SCREEN CRADLE MUST CLOSE TIGHTLY TO THE CUTTING CHAMBER. (HAND TIGHTEN ONLY) FAILURE TO CLEAN WILL RESULT IN CRADLE DAMAGE.

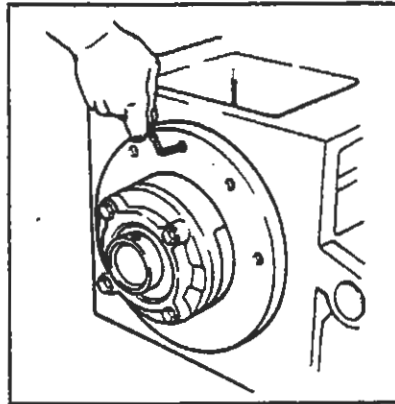
6. Grease Bearings every three months or as required. (Have your Maintenance Department set up a schedule.)
7. Allow Machine to *Purge* before switching off. Failure to do this could prevent machine from restarting.
8. Never allow the bin to overflow. This will cause excessive wear on moving parts and shorten the life of your screens. We recommend a high level proximity switch to turn off granulator if overflow is a problem.
9. If granulating *Engineered Materials*, rotate screen once a month to extend screen life.
10. If a Blower is used to evacuate, it is required to check rotation of Blower Motor.

# SEQUENCE FOR REMOVAL OF ROTOR BLADES FROM ROTOR SHAFT AND REMOVING BED KNIVES (Page 1 of 2)

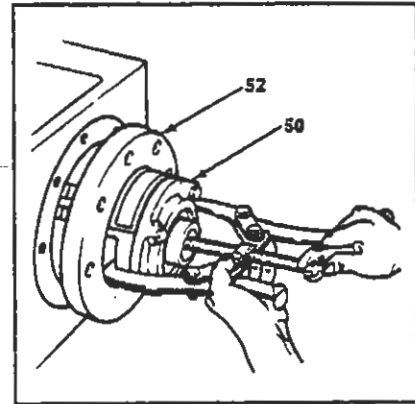
REFER TO PARTS DRAWING



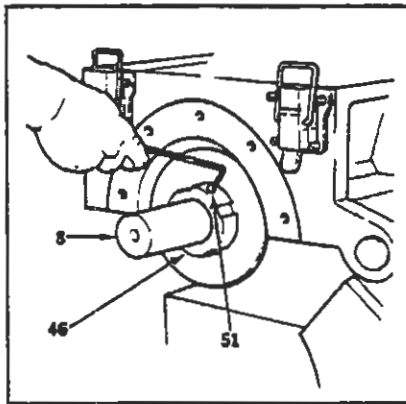
1. LOOSEN NO. 48 BEARING SET SCREWS



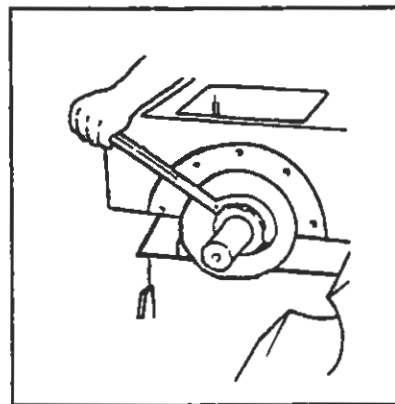
2. REMOVE NO. 53 FLANGE BOLTS FROM 52 ROUND FLANGE



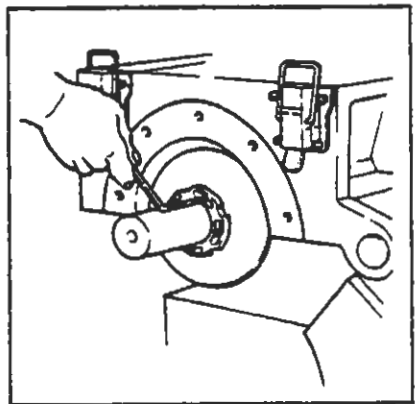
3. USE WHEEL PULLER TO REMOVE NO. 52 ROUND FLANGE AND BEARING FROM NO. 8 ROTOR SHAFT



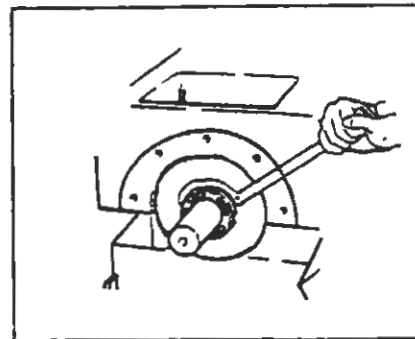
4. COMPLETELY REMOVE NO. 51 SET SCREW FROM NO. 46 SPANNER NUT. MARK THE LOCATION OF NUT TO SHAFT, IN ORDER TO LOCATE IN SAME LOCATION WHEN INSTALLING BLADES.\*\*\*



5. OLD STYLE = LH THREAD REMOVE SPANNER NUT, FOR ROTATION SEE ARROW "L" FOR LOOSEN AND "T" TO TIGHTEN.



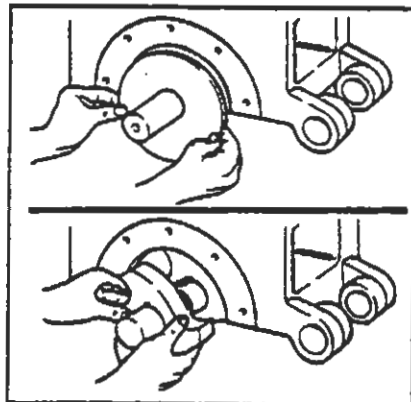
5.A NEW STYLE = RH THREAD UNLOCK SPANNER NUT BY LOOSING (4) SET SCREWS



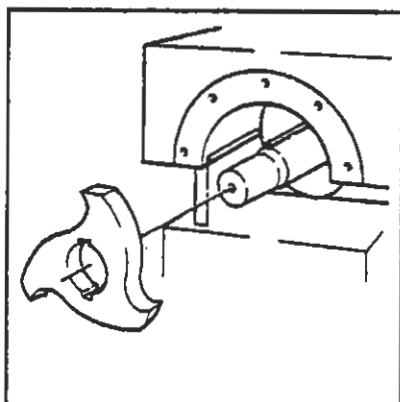
5.B REMOVE SPANNER NUT

\*\*\* NOTE:  
SET SCREW MUST BE MARKED FOR LOCATION, THEN TAKE ALLEN WRENCH AND REMOVE SET SCREW FROM SPANNER NUT. IF SET SCREW IS NOT REMOVED COMPLETELY DAMAGE WILL OCCUR TO ROTOR SHAFT.

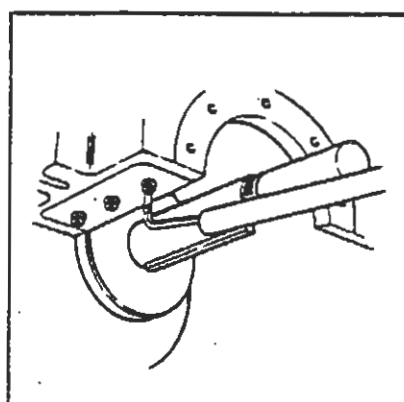
# SEQUENCE FOR REMOVAL OF ROTOR BLADES FROM ROTOR SHAFT AND REMOVING BED KNIVES (Page 2 of 2)



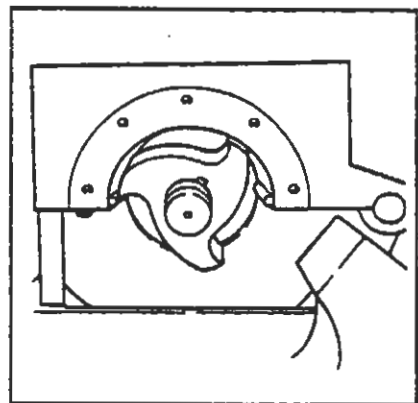
6. REMOVE NO. 40 ROTOR DISK.



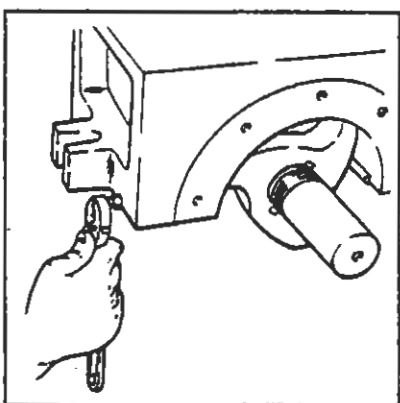
7. THEN REMOVE NO.41 ROTOR BLADE SEGMENTS FROM NO. 8 SHAFT (NOTE: BLADE SEGMENTS ARE NUMBERED; REPLACE IN SAME ORDER IN WHICH YOU REMOVE).



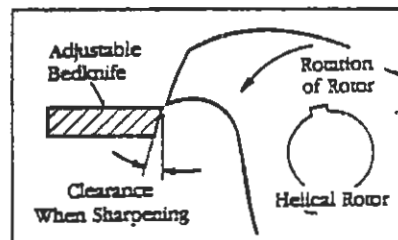
8. REMOVE NO. 42 STATIONARY KNIVES. NOTE THE RELIEF ANGLE ON CUTTING EDGE FOR PROPER REINSTALLATION. (SEE DIAGRAM FOR SHARPENING)



9. END VIEW OF CUTTING CHAMBER.



10. BED KNIFE ADJUSTING NO. 60 BOLTS.



- \*\*\*11. REASSEMBLE AND GAP STATIONARY KNIVES TO ROTOR KNIVES AT .005 TO .007 THOUSANDTHS (FOR GENERAL PURPOSE APPLICATIONS). ON FILM APPLICATIONS; .003 TO .005 THOUSANDTHS.
12. RECOMMEND KNIFE SHARPENING WHEN GRANULATING GLASS OR MINERAL FILLED MATERIAL EVERY 1440 HOURS, OR EVERY TWO MONTHS; WHICHEVER COMES FIRST.
13. WHEN TAKING ROTOR KNIVES NO. 41 OUT FOR SHARPENING REVERSE DISC NO. 40 180 DEGREES FOR EVEN WEAR
14. REVERSE SCREEN NO. 44 PERIODICALLY TO OBTAIN EVEN WEAR. WHEN GRANULATING GLASS FILLED MATERIAL REVERSE ONCE A MONTH OR AS REQUIRED.

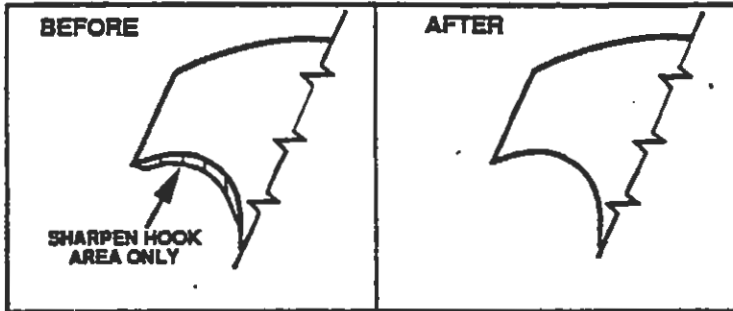
### CAUTION!

DUE TO SETTLING OF ROTOR KNIVES DURING INITIAL OPERATION, THE SPANNER NUT MAY LOOSEN. CHECK SPANNER NUT (2) WEEKS AFTER OPERATING YOUR NEW GRANULATOR AND (2) WEEKS AFTER ANY MAINTENANCE REQUIRING THE REMOVAL OF THE SPANNER NUT TO ENSURE KNIVES ARE LOCKED SECURELY IN PLACE.



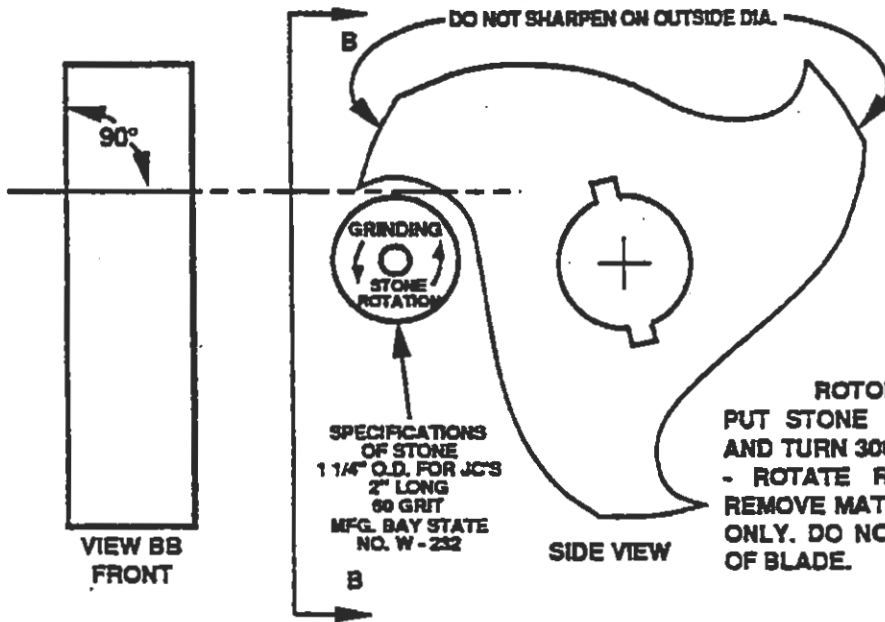
# IN HOUSE SHARPENING OF THE INVOLUTE PARABOLIC SEGMENTED HELICAL ROTOR BLADE

**NOTE: DO NOT SHARPEN THE O.D. OF ROTOR  
(ALWAYS SHARPEN BLADE ON INSIDE OF HOOK)**



**PATENTED**

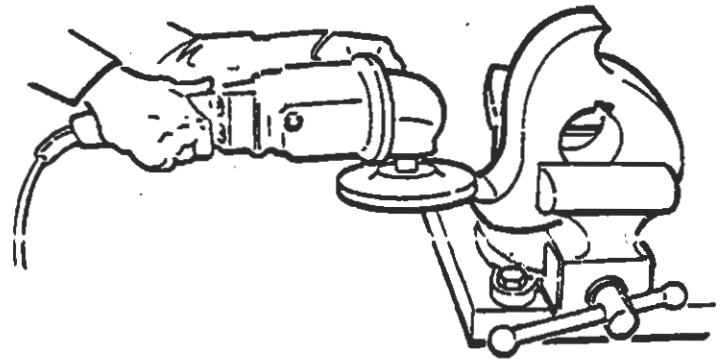
**NOTE: NEVER ATTEMPT TO  
WELD ON THESE KNIVES**



**JC Series**

**ROTOR BLADE  
PUT STONE IN DRILL PRESS  
AND TURN 3000 RPM OR MORE  
- ROTATE ROTOR BLADE -  
REMOVE MAT'L IN HOOK AREA  
ONLY. DO NOT SHARPEN O.D.  
OF BLADE.**

**REFERENCE: FOR XL'S USE FLAT WHEEL HAND GRINDER  
OR PUT ON SURFACE GRINDER.**



**XL Series  
ONLY**

**If your Maintenance People have any questions, please feel free to call:**

# TROUBLE SHOOTING GRANULATORS

PROBLEM	POSSIBLE CAUSE	SUGGESTED SOLUTIONS
Stalled Machine	<ol style="list-style-type: none"> <li>1. Overloading.</li> <li>2. Worn, Damaged improperly set Knives.</li> <li>3. Screen and /or Blower Vacuum Chute Blockage.</li> <li>5. Loss of Power.</li> <li>6. Motor Running in Reverse.</li> </ol>	<ol style="list-style-type: none"> <li>1. Feed Material Slower.</li> <li>2. Re-adjust or sharpen as required.</li> <li>3. Check to see if Line is clogged and Check rotation of blower.</li> <li>4. Check Power Supply Electrical hook-up and Safety Interlock.</li> <li>5. Polarize Motor.</li> </ol>
Material Overheating	<ol style="list-style-type: none"> <li>1. See Item 1, 2, 3, &amp; 6. Same As Above</li> <li>2. Screen too Small.</li> </ol>	<ol style="list-style-type: none"> <li>1. Same as Above.</li> <li>2. Install large Hole Dia. Screen.</li> </ol>
Too many Fines in Material	<ol style="list-style-type: none"> <li>1. Worn damaged or improperly set Knives.</li> </ol>	<ol style="list-style-type: none"> <li>1. Re-adjust or replace as required.</li> </ol>
Knife Breakage	<ol style="list-style-type: none"> <li>1. Foreign material in Scrap.</li> <li>2. Uneven Knife seats.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check Scrap Material for Foreign matter.</li> <li>2. Inspect and Clean Seat Surface.</li> </ol>
Screen Breakage	<ol style="list-style-type: none"> <li>1. Improperly Seated.</li> <li>2. Foreign Material.</li> <li>3. Screen Cradle not closed</li> </ol>	<ol style="list-style-type: none"> <li>1. Check that Screen is fitted Properly.</li> <li>2. Check Scrap Material for Foreign Matter.</li> <li>3. Clean Screen area, Cradle must close tight to upper Chamber.</li> </ol>
Motor will not Start	<ol style="list-style-type: none"> <li>1. Main Power.</li> <li>2 Overheated Motor.</li> <li>3. Starter Failure.</li> <li>4. Safety Interlocks.</li> <li>5. Cutting Chamber full of Material.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check Fuses and/or Circuit Breakers.</li> <li>2. Allow Motor to Cool and Reset Overloads.</li> <li>3. Repair / Replace Starter.</li> <li>4. Check Safety Switches for Operation mechanically and Electrically.</li> <li>5. Clean Cutting Chamber, Remove Parts</li> </ol>

C O N A I R W O R T E X      D A T E

M O D E L      XL-10      GRANULATOR REFERENCE NO. FOR ORDERING SPARE PARTS      S H E E T 1 O F 13

REF. #	PARTS NO.	DESCRIPTION	QTY	CURRENT COST
1	XL10-001-000	FEED TRAY	1	
2		TRAY MAGNET	1	
3	XL10-003	HOPPER 13 3/4 X 13 3/4" OPENING	1	IMPORT
4		INSULATION	SET	
5		HOPPER HINGE MIHARA	2	S
6	213-466-08	L FLANGE BOLT - ALLEN CAP 16MM X 50MM LONG	9	(2")
7	1210-007	XL-10 INBOARD FLANGE	1	
8	1210-008-0070S 1210-008-001	XL-10 ROTOR SHAFT OLD STYLE XL-10 ROTOR SHAFT NEW STYLE	1	
9	1000-009-500 1200-009-075	(NSK) 6317ZZ INBOARD BEARING OLD STYLE (NSK) 6318ZZ 3.540 I.D. 7.480 O.D. NEW STYLE	1 OR 1	#1513 INBOARD BEARING
10		BEARING COVER	1	
11	212-508-08	COVER BOLTS - HEX HEAD 12MM X 40MM LONG	4	(1 1/2")
12		SET SCREW	1	

MODEL XL-10 GRANULATOR REFERENCE NO. FOR ORDERING SPARE PARTS

SHEET 2 OF 13

CONAIR WORTEX

DATE

REF. #	PARTS NO.	DESCRIPTION	QTY	CURRENT COST
13	XL10-13-1000S 1215L-13-100	FLYWHEEL LATER STYLE	1	
14	1210-014-000 1210-014-05	SPANNER NUT LEFT HAND THREAD OLD STYLE RY THREADS 3" Ø	1	MIDDLE NUT
15	1215L-15-200	FLY WHEEL KEY	1	
16		SET SCREW	1	
17	1210-017-000	SPANNER NUT <del>RIGHT</del> LEFT HAND THREAD	1	
18	1200-018-080 XL20-18A-070 1200-018-085 1200-18A-075	UKP-216 PILLWICK BEARING HOUSING (P216) 2316 ADAPTER CARTRIDGE (UK216) UKP-217 PILLWICK BEARING HOUSING (P217) 2317 ADAPTER, CARTRIDGE (UK217)	1 1 1	80MM ASAHI BEFORE #1513 85MM ASAHI
19	XL10-19-1000S 1215L-19-100	ROTOR SHEAVE XL-10 OLD STYLE ROTOR SHEAVE XL-10, XL-15, XL15L NEW STYLE	1	
20	212-566-08	BEARING BOLT - HEX HEAD 16MM X 70MM LONG	2	(2 3/4")
21		FLY WHEEL COVER	1	
22		DRIVE PULLEY KEY	1	
23		BOLT	1	
24		WASHER	1	

MODEL XL-10

CONAIR WORTEX GRANULATOR REFERENCE NO. FOR ORDERING SPARE PARTS

DATE SHEET 4 OF 13

REF. #	PARTS NO.	DESCRIPTION	QTY	CURRENT COST
37	212-480-08	BOLT NUT - HEX HEAD 10MM X 35MM LONG	(1 3/8") 16, 16	
38	212-475-08	BOLT - HEX HEAD 10MM X 20MM LONG	(3/4") 6	
39	212-561-08	L FLANGE BOLT - HEX HEAD 16MM X 45MM LONG	(1 3/4") 4	
40	1200-040-470	ROTATING DISC XL-15 .470 THK, 12.986 OD, 3.546 ID	2	
41	ASY-00283	HELICAL ROTOR BLADES WD-3705 SET OF 5, 3 HOOK 2 HOOK	SET	
42A	1210-042-137	BED KNIFE BOLTS - ALLEN CAP 18MM X 50MM LONG	(2") 8 ②	
43A 43B	1210-431-001 1210-432-001	CUTTING CHAMBER HEAD #43A SCREEN CRADLE #43B	1 1	
44A 44	1210-044-375	SCREEN CRADLE PIN 1.262 O.D. X 3.072 LONG SCREEN 3/8" HOLES, 5/16" THK, 3/8 RD, 9/16 CTRS	2 1	
45		ROTOR SHAFT KEYS	2	
46	1210-046-001 WITH SET SCR	OUTBOARD SPANNER NUT LEFT HAND THREAD FROM 1210-046-000 SCR-00814 OUTBOARD	1 1210-046-05 - 3" BORE 3.410 BORE	
47	212-566-08	BEARING BOLT - HEX HEAD 16MM X 70MM LONG	(1 3/4") 4	
48		BEARING SET SCREW	2	

MODEL

XL-10

CONAIR WORTEX  
GRANULATOR REFERENCE NO. FOR ORDERING SPARE PARTS

DATE

SHEET 3 OF 13

REF. #	PARTS NO.	DESCRIPTION	QTY	CURRENT COST
25	XL15-025	BEARING RISER	1	
26	212-561-08	RISER BOLT - HEX HEAD 16MM X 45MM LONG (1 3/4")	2	
27	1000-027-068 1000-027-073	V BELT B-68 OLD SET OF 4 V BELT B-73 NEW SET OF 4	SET SET	
28	1010L-28-015	15HP-254T-1760RPM 2-60-230/460/575 BALDOR #M2513T KIL&CAR	1	
29	1210-029-100 1210-029-436	MOTOR PULLEY	1	
30		MOTOR BASE BOLT	4	
31	2000-031-254	MOTOR BASE	1	
32		ADJUSTING BOLT - THREADED ROD 16MM X 100MM LONG (5 1/2")	2	
33		NUT 16MM	4	
34		ANGLE-SECTION	4	
35		FRAME BASE	1	
36	1210-036 1215-036-005	CASTERS MIHARA FCD-125 5" SWIVEL CASTER, XL-15, PAYSON #290-5UM, PLEXITTE, ALLIED	4	

C O N A I R W O R T E X

M O D E L XL-10

GRANULATOR REFERENCE NO. FOR ORDERING SPARE PARTS

S H E E T 5 O F 13

REF. #	PARTS NO.	DESCRIPTION	QTY	CURRENT COST
49		BEARING COVER	1	
50	1000-050-055 1200-050-085	UCFC-211 OUTBOARD BEARING HOUSING (FC-211) JAPANESE CARTRIDGE (UC211) ID BORE OLD STYLE BEFORE #1513 UCFCX-17 OUTBOARD BEARING, 85MM, HOUSING FCX-17, CARTRIDGE X-17, NEW STYLE	1 OR 1	
51		SET SCREW FOR SPANNER NUT 8MM X 15MM ALLEN CAP WITH 7MM THREADS FILED OFF	1	
52A 52	213-466-08 1215-052	BEARING FLANGE BOLTS - ALLEN CAP 16MM X 50MM LONG FLANGE - ROUND	7	
53	213-466-08	L-FLANGE BOLT - ALLEN CAP 16MM X 50MM LONG	10	
54		LATCH HOOK JAPANESE ONE OF EACH FOR A SET	2 SET	
55	1210-055	OUTBOARD FLANGE	1	
56	212-561-08	L FLANGE BOLT - HEX HEAD 16MM X 45MM LONG	4	(1 3/4")
57		CURTAIN	SET	
58	1215-058	HAND KNOB	SET	
59		ROTATION ARROW	1	
60	212-459-08	ADJUSTING BOLT STATIONARY BLADE-HEX HEAD 10MM X 40MM LONG	8	(1 1/2)

→ SER 1513 AND OVER

MODEL

XL-10

GRANULATOR REFERENCE NO. FOR ORDERING SPARE PARTS

CONAIR WORTEX

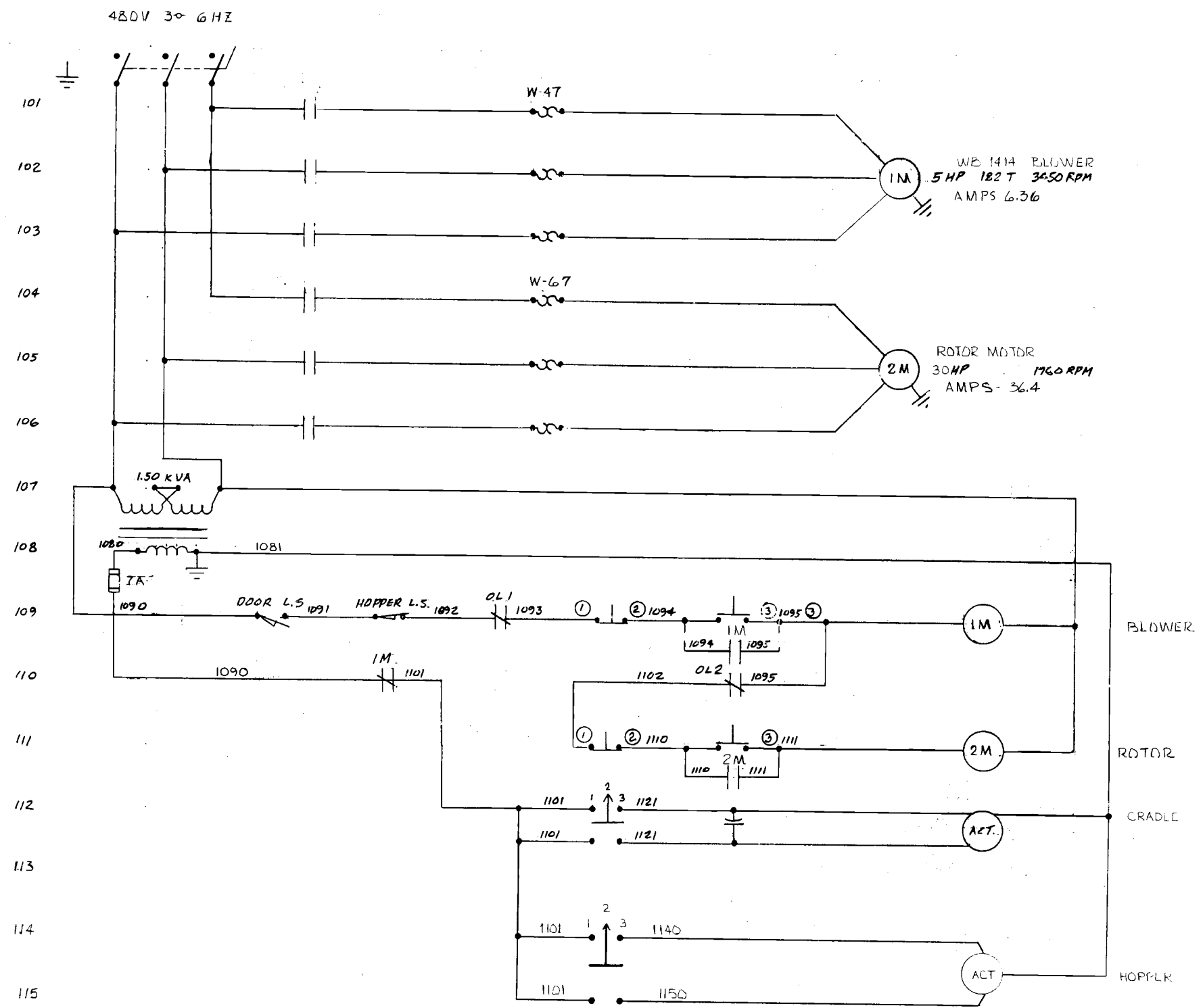
DATE

SHEET 6 OF 13

REF. #	PARTS NO.	DESCRIPTION	QTY	CURRENT COST
61		SCREEN CRADLE HANDLE	1	
62	1215-062 1215-062-6125	PIN 3/4-10 EYE BOLT 1.875 THREAD X 6.125 OVERALL LENGTH	2	
63	1215-063	PIVIT BOLT	2	
64	XL10-064-000	MATERIAL BIN	1	
65		GUARD COVER BOLT	4	
66		POWER CORD	1	
67		PLUG	1	
68		NEMA 1 ELECTRIC BOX AIB-NEMA 1-SIZE-O-509-AAB SIZE-1 509-BAB	1	3-60-460V 3-60-230V
69		LABEL	1	
70		LATCH JAPANESE MANUFACTURED AT WORTEX	SET	
71		COVER KNOB	1	
72		SAFETY SWITCH - MICRO# BZ-2RD-AW-HOUSING #3PA1	1_1	



REV.	DESCRIPTION	DATE	BY	APP.
A	ADDED DISCONNECT			



QTY	ITEM	PART NUMBER	DESCRIPTION
1	NF-352		DISCONNECT
1	1.2 1.3011-S		TRANSFORMER
1	7A F		AUX. CONTACT
1	HPF-FR		FUSE HOLDER
3	W-47		HEATER
3	W-67		HEATER
1	509 CAB-1		STARTER
1	509 AAB-1		STARTER
2	800T-ITZ		ENCLOSURE
2	800TJ91KC7B		3 POS. SCL. SW.
3	* BZE62RN 80		LIMIT SWITCH

**WORTEX CORPORATION**  
 Old Brandon Road / Hillshire, Texas 76645  
 Phone 817/582-5354

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**MATERIAL \* STOCK ITEM**

FINISH (MIN.) TYPE	TOLERANCES	ANGLES	DESIGNED BY	DATE
1/8" - 0.0005	UNLESS OTHERWISE SPECIFIED	30°	BY	
1/16" - 0.0010	0.0005	45°	DRAWN BY	6/8/88
1/32" - 0.0020	0.0010	60°	CHECKED BY	
1/64" - 0.0040	0.0020	75°	APPROVED BY	
1/128" - 0.0080	0.0040	90°		
1/256" - 0.0160	0.0080	120°		
1/512" - 0.0320	0.0160	150°		
1/1024" - 0.0640	0.0320	180°		

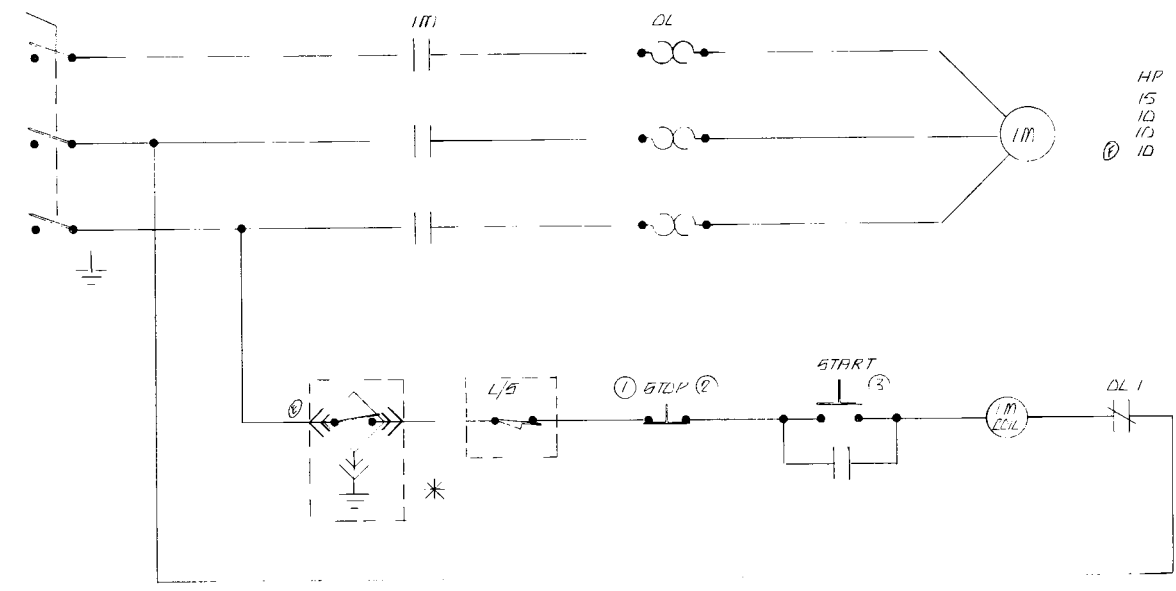
MACHINE: NO. 4800 SCALE: 1/4"  
 MFG. ASSY: DRAWING NO.  
 TITLE: XL15L ELEC. 30HP WD 4103 A

REV	DESCRIPTION	REV NO	DATE	BY
1	ADDED TRANSFORMER			
2	ADDED 480V			
3	ADDED 230V SWITCH			
4	ADD 208V 60A 3Ø			
5	ADD << >>			
6	ADD HP RPM AMPS VOLTS FRNME			
7	ADD J1 100A 3Ø			
8	ADD J2 100A 3Ø			
9	ADD 100A 3Ø DIS -1-7			
10	ADD 100A 3Ø DIS -1-7			

208 V  
60 ~  
3 Ø

230 V  
60 ~  
3 Ø

480 V  
60 ~  
3 Ø



HP	RPM	AMPS	VOLTS	FRNME
15	1750	19.1	480 V	215 T
10	1800	25.2	230 V	215 T
10	1800	13.2	480 V	215 T

QTY	ITEM	PART NUMBER	DESCRIPTION	ASSEMBLY
1		100A74AB3-XXX-1-7	STARTER	AB
1		193752-74	OVERLOAD	AB
208 VOLTS				
1		100A58A3-E-321-7	STARTER	AB
1		193752-74	OVERLOAD	AB
1		SEK-60N3	DISCONNECT	ASEA
1		SEK-2213	HANDLE	ASEA
1		100A58A3-E-321-7	STARTER	AB
1		JU-371	DISCONNECT	ITE
1	*	7484	CONNECTOR BODY	HUBBELL
1	*	7485	PLUG	"
1	*	35671350NR42	RETRY SWITCH	SIEMENS
1		193752-74	OVERLOAD	AB
480 VOLTS				
1		100A18B3-XX-1-7	STARTER	AB
1	X	NE 351	DISCONNECT	ITE
1	X	B226-2RN50	LIMIT SWITCH	MICRO-SWITCH
1	X		1/2" WAKE ELL	
3	X	LT 3845	FITTING	
1	X	LT 3550	FITTING	
1	X		1/2" X 1/2" NIPPLE	
2	X		1/2" LHMSE NIPPLE	
1	X		1/2" COUPLING	
2	X		1/2" X 1" ELD WABHERS	
1	X		L'LOPPK-4 KNIFE	

\* OPTIONAL BINDER FOR 208-230 VOLTS ONLY

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FINISH	MINI	TYPE	TOLERANCES	BASED ON ALL DIMENSIONS NOT SHOWN	NO SHALL BE SHOWN
10	1000	1000	0.0015	0.0015	0.0015
20	2000	2000	0.0025	0.0025	0.0025
30	3000	3000	0.0050	0.0050	0.0050
40	4000	4000	0.0100	0.0100	0.0100
50	5000	5000	0.0200	0.0200	0.0200
60	6000	6000	0.0500	0.0500	0.0500
70	7000	7000	0.1000	0.1000	0.1000
80	8000	8000	0.2000	0.2000	0.2000
90	9000	9000	0.5000	0.5000	0.5000
100	10000	10000	1.0000	1.0000	1.0000

MACHINE: JC 10 L  
BEST ASSY: ES 1012  
TITLE: JC 10 STANDARD (ELEC)  
DRAWING NO: 111D 3450