# THE AM MANUFACTURING MODEL: R900C OPERATIONS & SAFETY MANUAL

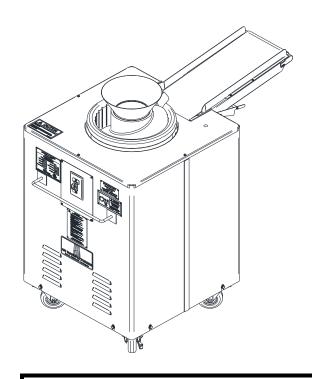
INCLUDING PARTS CATALOG AND MAINTENANCE INSTRUCTIONS

PROJECT NUMBER: 365
AM Assembly #: R900C-CURRENT
SERIAL #: \_\_\_\_\_



#### **CAUTION:**

DO NOT OPERATE, CLEAN, OR SERVICE THIS MACHINE BEFORE YOU READ THIS MANUAL AND ARE FAMILIAR WITH THE SAFETY INSTRUCTIONS IN THIS MANUAL AND THOSE ON THE LABELS ON THE MACHINE. KEEP THIS MANUAL AND OTHER MATERIALS DELIVERED WITH THE MACHINE, ACCESSIBLE TO THE OPERATORS FOR EASY REFERENCE DURING USE.



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IF YOU SHOULD HAVE ANY (?) QUESTIONS ABOUT GUARDS OR PLACEMENT CALL (800) 342-6744.

## **MANUFACTURING COMPANY**

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## OWNERS RESPONSIBILITY

#### **NOTE:**

THE PARTS AND EQUIPMENT DESCRIBED IN THIS MANUAL MAY BE COVERED BY ONE OR MORE U.S. AND FOREIGN PENDING PATENTS.



TO MAINTAIN MACHINE AND USER SAFETY, THE RESPONSIBILITY OF THE OWNER IS TO READ AND FOLLOW THESE INSTRUCTIONS AND TO ENSURE THAT ALL OPERATORS UNDERSTAND AND FOLLOW THESE AND OTHER SAFETY INSTRUCTIONS IN THIS MANUAL.

- FOLLOW ALL INSTALLATION INSTRUCTIONS.
- MAKE SURE INSTALLATION CONFORMS TO ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES, RULES AND REGULATIONS SUCH AS STATE AND FEDERAL OSHA REGULATIONS AND ELECTRICAL CODES.
- CAREFULLY CHECK THE UNIT FOR CORRECT INITIAL FUNCTION.
- READ AND FOLLOW THE SAFETY INSTRUCTIONS. KEEP THEM READILY AVAILABLE FOR MACHINE OPERATORS.
- MAKE CERTAIN ALL OPERATORS ARE PROPERLY TRAINED, AND THAT THEY KNOW HOW TO SAFELY AND CORRECTLY OPERATE THE UNIT AND ARE PROPERLY SUPERVISED.
- ALLOW UNIT OPERATION ONLY WITH ALL PARTS INCLUDING SAFETY EQUIPMENT, IN PLACE AND OPERATING SAFELY.
- CAREFULLY INSPECT THE UNIT ON A REGULAR BASIS AND PERFORM ALL MAINTENANCE AS REQUIRED.
- SERVICE AND MAINTAIN THE UNIT ONLY WITH AUTHORIZED OR APPROVED REPLACEMENT PARTS.
- KEEP ALL INSTRUCTIONS PERMANENTLY WITH THE UNIT ALONG WITH ALL DECALS AND WARNING LABELS ON THE UNIT CLEAN AND VISIBLE.

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#### **IMPORTANT:**

AM MANUFACTURING Co. RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN, SPECIFICATIONS OR MANUFACTURING. TO IMPROVE THEIR PRODUCTS WITHOUT NOTICE AND WITHOUT OBLIGATION TO CHANGE OR IMPROVE PREVIOUSLY BUILT PRODUCTS, INCLUDING MANUALS AND CATALOGS.

ONLY USE FACTORY SUPPLIED REPLACEMENT PARTS TO MAINTAIN MACHINE SAFETY, PERFORMANCE AND SANITARY CONDITIONS. USE OF NON-APPROVED PARTS MAY VOID MANUFACTURERS WARRANTY.

KNOW YOUR UNIT. COMPARE DIAGRAMS IN THIS MANUAL WITH THE UNIT BEFORE STARTING SERVICE, TO OBTAIN MAXIMUM SAFETY AND PERFORMANCE.

TO ORDER REPLACEMENT PARTS: TURN TO PAGE **27** OF THIS MANUAL.



#### **WARNING:**

THIS MANUAL CONTAINS CRITICAL SAFETY INSTRUCTIONS. READ AND FOLLOW THEM CAREFULLY. FAILURE TO FOLLOW WARNING AND INSTRUCTIONS MAY LEAD TO SERIOUS PERSONAL INJURY. THE OWNER IS RESPONSIBLE FOR MAINTAINING THE UNIT, ITS

MODEL: R900C

INSTRUCTIONS AND DECALS FOR OPERATION REFERENCE. FOR ADDITIONAL COPIES CONTACT AM MANUFACTURING: (800) 342-6744

## OPERATIONS AND SAFETY MANUAL

**INCLUDING PARTS CATALOG** 

READ AND FAMILIARIZE YOURSELF WITH THIS MANUAL BEFORE OPERATING THIS MACHINE FOLLOW INSTRUCTIONS DURING USE

#### INTRODUCTION

YOUR R900C DOUGH ROUNDER HAS BEEN BUILT WITH THE BUSY BAKER IN MIND. IT'S VERSATILITY AND SIMPLICITY IS UNMATCHED IN THE INDUSTRY. PRODUCTION DEPENDS ON THE DESIRED DOUGH BALL SIZE AND HOW FAST THE DIVIDED DOUGH PIECES ARE DROPPED INTO THE FUNNEL. SMALL PIECES CAN BE FED APPROXIMATELY TWO PER SECOND, WHEREAS LARGER DOUGH PIECES (UP TO 2 lbs.) MUST BE FED AT A LESSER RATE. GETTING THE FEEL OF THE MACHINE WILL BEST DETERMINE JUST WHAT THE FEED RATE SHOULD BE FOR ANY CERTAIN DOUGH BALL SIZE. NO ADJUSTMENTS ARE NECESSARY WHEN SING THE SIZE OF YOUR DOUGH PIECE, IT WILL AUTOMATICALLY BE ROUNDED INTO A TIGHT, IT BALL, WITH NO MORE EFFORT THAN IT TAKES TO DROP THEM INTO THE FUNNEL.

#### **CAUTION:**

ALL OPERATORS MUST BE FULLY TRAINED AND INSTRUCTED IN SAFETY PROCEDURES BEFORE BEGINNING PRODUCTION.

### **SPECIFICATIONS**

CABINET HEIGHT OVERALL HEIGHT MACHINE WIDTH VOLTAGE (STANDARD) VOLTAGE (OPTIONAL) AMPERAGE (STANDARD) PRODUCTION RANGE

PRODUCTION RATE SHIPPING WEIGHT

35-7/8" 43-3/16" 24-1/8" SQUARE 115 VOLT SINGLE PHASE 208 - 480Vac / 3Phase 10.4 AMPS. 1 oz. (28.35 GRAMS) TO 32 oz. (907.2 GRAMS) UP TO 7200 PIECES PER HOUR 350 lbs.

### Installation instructions location:

SELECT LOCATION CAREFULLY. THE AREA SHOULD PROVIDE THE OPERATOR WITH ENOUGH SPACE TO USE THE EQUIPMENT IN A SAFE MANNER. THE FLOOR AREA SELECTED SHOULD BE A FLAT SURFACE, EASY TO CLEAN AND SHOULD BE FREE OF OIL, GREASE, ECT. AVOID AREAS WHERE BYSTANDERS AND CUSTOMERS MAY BE PRESENT.



PROPER UNIT INSTALLATION IS NECESSARY FOR SAFE AND EFFICIENT OPERATION. PROPER INSTALLATION ALSO HELPS PROTECT THE UNIT FROM DAMAGE AND MAKES SERVICE EASIER.

### SAFETY SIGNAL WORDS

THIS MACHINE IS DESIGNED TO PROVIDE FOR SAFE OPERATION IF NORMAL OPERATING PROCEDURES AND SAFETY MESSAGES LOCATED ON THE MACHINE AND IN THIS MANUAL ARE FOLLOWED.



THIS IS A SAFETY ALERT SYMBOL. YOU WILL FIND IT ON VARIOUS SAFETY LABELS ON THE MACHINE AND IT WILL ALSO APPEAR IN THIS MANUAL WHEREVER SAFETY MESSAGES ARE GIVEN.

#### **GET FAMILIAR WITH SIGNAL WORDS:**

## CAUTION, WARNING & DANGER

### CAUTION:

INDICATES A POTENTIALLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, MAY RESULT IN MINOR OR MODERATE INJURY. IT MAY ALSO BE USED TO ALERT AGAINST UNSAFE PRACTICES.

### WARNING:

INDICATES A POTENTIALLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.

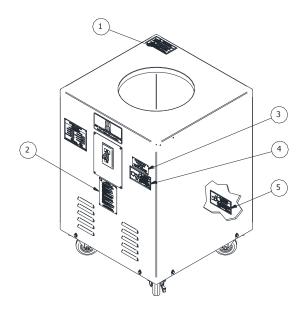
## DANGER:

INDICATES AN IMMINENTLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, WILL RESULT IN DEATH OR SERIOUS INJURY. THIS SIGNAL WORD IS TO BE LIMITED TO THE MOST EXTREME SITUATIONS.

### NOTE:

A NOTE PROVIDES KEY INFORMATION TO MAKE PROCEDURES EASIER AND CLEARER.

## <u>Warning Labels Typically</u> Found on the R900C



(1) AMTAG160SF: TOP OF CABINET



(2) TAG21M: BELOW ELECTRICAL SWITCH PLATE



3 TAG5M: UPPER RIGHT CORNER CABINET



4 AMTAG10AMF: UPPER RIGHT CORNER CABINET

AMTAG10ASF: INSIDE CABINET ON ELECTRICAL BOX



(5) AMTAG24SF: INSIDE CABINET NEAR CHAIN



#### **NOTE:**

MACHINE DESIGN AND SPECIFICATIONS MAY VARY. ACTUAL LABEL DESIGN AND PLACEMENT SUBJECT TO CHANGE WITHOUT NOTICE AND MAY VARY FROM THIS ILLUSTRATION.



#### **CAUTION:**

IF ANY SAFETY LABELS ARE MISSING THEY **MUST BE** REPLACED! CONTACT YOUR DEALER OR AM MFG. FOR REPLACEMENT.

### SAFETY RULES



#### **IMPORTANT:**

READ AND FOLLOW THESE SAFETY RULES. THEY ARE FOR YOUR PROTECTION AND THE PROTECTION OF THOSE WORKING WITH YOU.

- DO NOT OPERATE THIS MACHINE BEFORE YOU HAVE READ AND UNDERSTOOD THE OPERATIONS AND SAFETY MANUAL.
- FOLLOW ALL INSTRUCTIONS DURING USE OF THIS MACHINE.
- LEAVE ALL GUARDS IN PLACE. INSTALL ALL GUARDS IF THEY WERE REMOVED FOR CLEANING, MAINTENANCE, REPAIR OR OTHER REASONS.
- NEVER OPERATE THE MACHINE IF YOU HAVE NOT BEEN TRAINED TO OPERATE THE MACHINE PROPERLY.
- **NEVER** OPERATE THE MACHINE IF YOU ARE TIRED, ILL, ON MEDICATION, OR UNDER THE INFLUENCE OF ALCOHOL OR DRUGS.
- WEAR TIGHT FITTING CLOTHES. MAKE SURE THAT LONG HAIR, JEWELRY, OR LOOSE PERSONAL ITEMS ARE SECURED SO THEY CANNOT GET CAUGHT IN THE MACHINE. THIS CAN LEAD TO SERIOUS INJURIES.
- MAKE SURE YOU CAN EASILY REACH ALL CONTROLS. IF NOT, A STABLE AND SAFE ELEVATED PLATFORM OR OTHER WORK-AID MUST BE PROVIDED.
- ALWAYS DISCONNECT THE MAIN ELECTRICAL POWER SOURCE AND TURN MACHINE SWITCH TO THE OFF POSITION BEFORE CLEANING, IF MAINTENANCE OR SERVICE IS PERFORMED, OR IF THE MACHINE IS OUT OF SERVICE.
- NEVER LEAVE THIS MACHINE RUNNING UNATTENDED.

#### **IMPORTANT:**

IF YOU HAVE ANY QUESTIONS ABOUT THESE SAFETY RULES, SEE YOUR SUPERVISOR OR CALL AM MANUFACTURING Co. TOLL FREE: (800) 342-6744

## OPERATING INSTRUCTIONS



UNIT MUST BE PROPERLY OPERATED AND MAINTAINED TO PREVENT MACHINE DAMAGE OR PERSONAL INJURY. REVIEW INSTRUCTIONS WITH ALL EMPLOYEES BEFORE USE.

#### I. PRELIMINARY START - UP PROCEDURE

- A. BE SURE DRUM, TABLE AND CONVEYOR ARE CLEAR OF PACKING, ROUNDER DRUM / FUNNEL AREA ARE CLEAR OF PACKING MATERIAL, PACKING SLIPS, DOCUMENTS AND OTHER OBSTRUCTIONS.
- B. MAKE SURE THE MACHINE SWITCH IS IN THE IS IN THE OFF POSITION.
- C. PLUG POWER CORD INTO PROPER RECEPTACLE.
- D. SWITCH MACHINE TO THE "ON" POSITION.
- E. THE ROUNDING DRUM SHOULD BE TURNING IN A COUNTER CLOCK-WISE ROTATION.

#### **NOTE:**

IF THE MACHINE YOU HAVE PURCHASED IS A (3) PHASE MACHINE AND THE ROTATION OF THE ROUNDING DRUM IS NOT CORRECT, CONSULT A PROPERLY TRAINED ELECTRICIAN

#### II. OPERATING THE R900C

#### THE R900C IS READY TO ROUND AFTER:

- A. POSITION R900C IN THE DESIRED LOCATION AND SET THE TWO (2) LOCKING CASTERS.
- B. PLUG THE POWER CORD INTO PROPER RECEPTACLE.
- C. CHECK FOR PROPER ROTATION OF ROUNDING DRUM, REFER TO PRELIMINARY START UP PROCEDURE.
- D. TO ROUND SIMPLY DROP DOUGH PIECES (1oz. TO 2 lbs.) INTO FUNNEL. THE DOUGH WILL AUTOMATICALLY BE ROUNDED AND THEN DEPOSITED ON THE TOP OF THE CABINET OR THE OPTIONAL TRAY.

#### **CAUTION:**

DO NOT ATTEMPT TO OPERATE THIS MACHINE WITHOUT READING THE MANUAL.

### CLEANING INSTRUCTIONS

ALL AM MANUFACTURING MACHINES ARE TESTED WITH DOUGH DURING THE IN - HOUSE, RUN - IN AND QUALITY AUDIT PROCEDURE. ALTHOUGH THE MACHINE HAS BEEN CLEANED, SOME EVIDENCE OF DOUGH ON AND IN THE MACHINE MAY BE DETECTED, THIS IS NORMAL.

ALL PARTS IN CONTACT WITH DOUGH SHOULD BE WASHED THOROUGHLY AFTER USE, USING A MILD SOAP AND WATER SOLUTION. DISASSEMBLY OF THIS MACHINE FOR CLEANING IS OUTLINED AND ILLUSTRATED FOR YOUR CONVENIENCE.

INSTRUCTIONS IN THIS MANUAL INDICATE THE NEED FOR REGULAR INSPECTION AND CLEANING TO PREVENT INFESTATION.

- A. CAUTION: SHUT OFF ALL ELECTRICAL POWER, AND UNPLUG POWER CORD.
- B. REMOVE FUNNEL. (PART NO. R116RA).
- C. REMOVE ROUNDER SCREW, USING TWO PEOPLE TO LIFT ROUNDER SCREW (PART NO. R122RA).
- D. REMOVE DRUM (PART NO. 19900).
- E. REMOVE PLASTIC SEAL RING (PART NO. R141RA).
- F. REMOVE EXCESS DOUGH FROM ROUNDER BASE.
- G. REASSEMBLE IS IN REVERSE OF DISASSEMBLY (STEPS E THRU A)
- H. MAKE SURE TO REPLACE PLASTIC SEAL RING.
- I. SLIP THE DRUM OVER THE ROUNDER BASE SO THAT THE DRIVE SLOTS ARE LOCKED OVER THE DRIVE PINS IN THE ROUNDER BASE.
- J. CARE SHOULD BE TAKEN TO SEE THAT THE EXIT RAMP ON THE SCREW IS FACING THE ON / OFF SWITCH AFTER THE SCREW HAS DROPPED INTO PLACE.

#### NOTE:

PARTS SUCH AS THE ROUNDER SCREW AND DRUM SHOULD BE HANDLED WITH EXTREME CARE; WHEN CLEANING THE ROUNDER DRUM THE WATER TEMPERATURE MUST NOT EXCEED 190°. IF UNABLE TO REMOVE ROUNDER SCREW: **NEVER** PUT HANDS OR ARMS INTO ROUNDER SCREW.

- A. PLUG MACHINE IN. TURN MACHINE ON.
- B. ADD A SMALL AMOUNT OF WARM WATER TO CONTACT AREA BETWEEN SCREW AND DRUM.
- C. AFTER DOUGH SOFTENS, TURN OFF ROUNDER
- D. UNPLUG MACHINE.
- E. REMOVE ROUNDER SCREW. USING TWO PEOPLE TO LIFT ROUNDER SCREW.



ALWAYS DISCONNECT ELECTRICAL SERVICE AND TURN MACHINE SWITCH TO THE OFF POSITION BEFORE CLEANING OR MAINTAINING THIS MACHINE, THUS AVOIDING CHANCE OF SERIOUS INJURIES. MACHINES ARE NOT DANGEROUS IF COMMON SENSE IS APPLIED AND THE INSTRUCTIONS ARE FOLLOWED. THINK AND PRACTICE SAFETY FIRST.

### GENERAL MAINTENANCE GUIDE

**READ AND FOLLOW MAINTENANCE INSTRUCTIONS** BELOW TO HELP KEEP THE UNIT IN GOOD OPERATING CONDITION. REFER TO OTHER MATERIALS RECEIVED WITH THE UNIT AND TO SERVICE BULLETINS FROM THE MANUFACTURER FOR ADDITIONAL INSTRUCTIONS FOR PROPER MAINTENANCE AND SERVICE. REGULAR INSPECTIONS AND PROPER MAINTENANCE ARE ESSENTIAL TO HELP PREVENT ACCIDENTS AND INJURIES.



#### PRACTICE SAFETY FIRST:

ALWAYS DISCONNECT ELECTRICAL SERVICE AND TURN MACHINE SWITCH TO THE OFF POSITION BEFORE CLEANING OR MAINTAINING THIS MACHINE, THUS AVOIDING CHANCE OF SERIOUS INJURIES. MACHINES ARE NOT DANGEROUS IF COMMON SENSE IS APPLIED AND THE INSTRUCTIONS ARE CAREFULLY FOLLOWED. THINK AND PRACTICE SAFETY FIRST...



#### **WARNING:**

BEFORE MAKING ANY INSPECTION, ADJUSTMENT OR REPAIR, BE CERTAIN POWER SOURCE IS DISCONNECTED AND THE MACHINE SWITCH IS IN THE OFF POSITION WITH ALL MOVING PARTS BEING BLOCKED OUT TO PREVENT INJURY. WEAR PROTECTIVE CLOTHING.

- A. MAKE SURE THAT ALL FASTENERS ARE TIGHTENED SECURELY.
- B. MAKE CERTAIN THAT ALL GUARDS AND COVERS ARE IN PLACE.
- C. CHECK FOR WORN, DAMAGED OR MISSING PARTS INCLUDING BELTS, SAFETY GUARDS AND PROTECTIVE COVERS.
- D. ON A DAILY BASIS, INSPECT THE UNIT AND CHECK TO BE CERTAIN THAT ALL SYSTEMS ARE OPERATING NORMALLY. DETAILED INSPECTION AND TESTING PROCEDURES ARE SPECIFIED FOR VARIOUS COMPONENTS AT REGULAR INTERVALS. SET UP A CHART AND ASSIGN RESPONSIBILITY FOR THESE ITEMS.

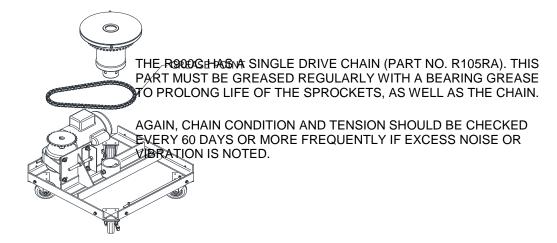


#### **CAUTION:**

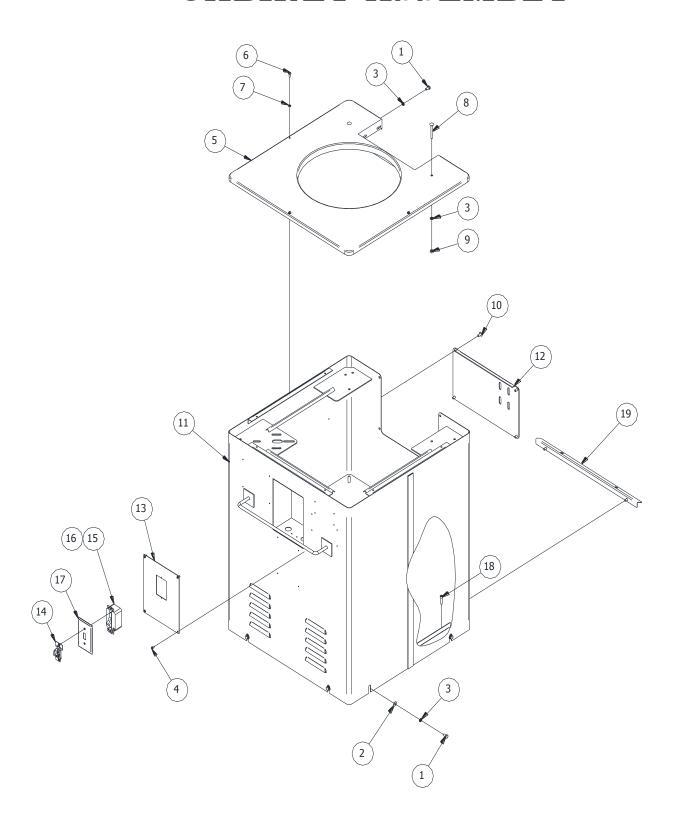
REPLACE ANY DAMAGED OR MISSING SAFETY LABELS. THEY ARE AVAILABLE FROM THE MANUFACTURER.

MAINTENANCE FOR THE R900C ALWAYS BEGINS WITH KEEPING THE MACHINE CLEAN. PROPER CLEANING PROCEDURES CAN BE FOUND ON PAGE (9) OF THIS MANUAL. STANDARD LONG TERM MAINTENANCE CONSISTS OF LUBRICATING MAIN WEAR POINTS.

ALL RECOMMENDATIONS FOR MAINTENANCE ARE BASED ON A 7 DAY, 8 HOUR PER DAY WORK SCHEDULE.



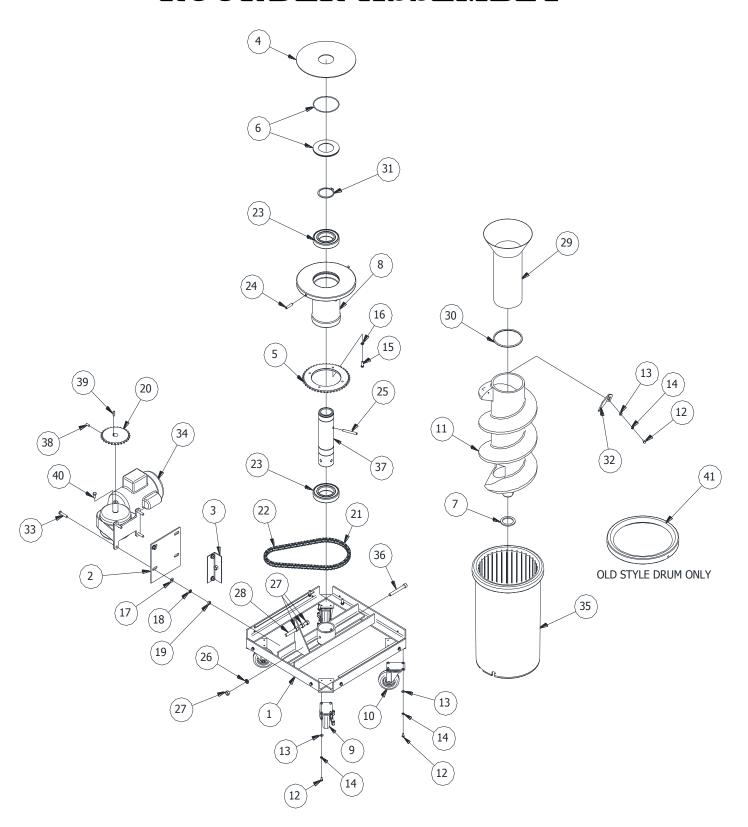
## CABINET ASSEMBLY



## CABINET ASSEMBLY BILL OF MATERIAL

ITEM	PART NO	DESCRIPTION	QTY	
1	F0402HHCS	HEX HEAD CAP SCREW, 1/4-20 X 1/2" L	27	
2	F0400FW	FLAT WASHER, 1/4"	28	
3	F0400LW	LOCK WASHER, 1/4"	33	
4	F9725PHS	PAN HEAD, SLOTTED, 8-32 UNC x 0.375	4	
5	R411CA	TOP COVER	1	
6	F9902PHS	PAN HEAD, SLOTTED, 10-32 UNF X 1/2" LG	3	
7	F9900LW	LOCK WASHER, #10	3	
8	F0408CB	CARRIAGE BOLT, 1/4-20 X 2" LONG	2	
9	F0400NC	NUT COURSE, 1/4-20	6	
10	F0402BH	BUTTON HEAD 1/4-20 X 1/2" LG.	4	
11	R416CA	CABINET	1	
12	650CA	MOTOR MOUNTING PLATE	1	
12	R422CA	SWITCH PLATE (SINGLE PHASE MACHNINE)	1	
13	17799	SWITCH PLATE (220Vac THREE PHASE MACHINES ONLY)		
14	R406CA	LOCKING ATTACHMENT, SWITCH (SINGLE PHASE MACHINES ONLY - SEE	1	
14	N400CA	ELECTRICAL PORTION OF MANUAL FOR 3PHASE MACHINES)	1	
15	SS212	MANUAL MOTOR STARTER SINGLE SWITCH (STANDARD 120/220Vac MACHINE	1	
		ONLY - SEE ELECTRICAL PORTION OF MANUAL FOR 3PHASE MACHINES)		
16	SS210	OVERLOAD (USED WITH 110-120Vac MACHINES)	1	
	EL-1189	OVERLOAD (USED WITH 208-240Vac MACHINES)		
17	SS115	SINGLE SWITCH COVER PLATE, S.S. (SINGLE PHASE MACHINES ONLY - SEE	1	
		ELECTRICAL PORTION OF MANUAL FOR 3PHASE MACHINES)		
18	F0404SH	SCREW, SOCKET HEAD 1/4-20 X 1"LG	4	
19	15243	EXTENDED CONVEYOR CABINET MOUNT BRACE	1	

## ROUNDER ASSEMBLY

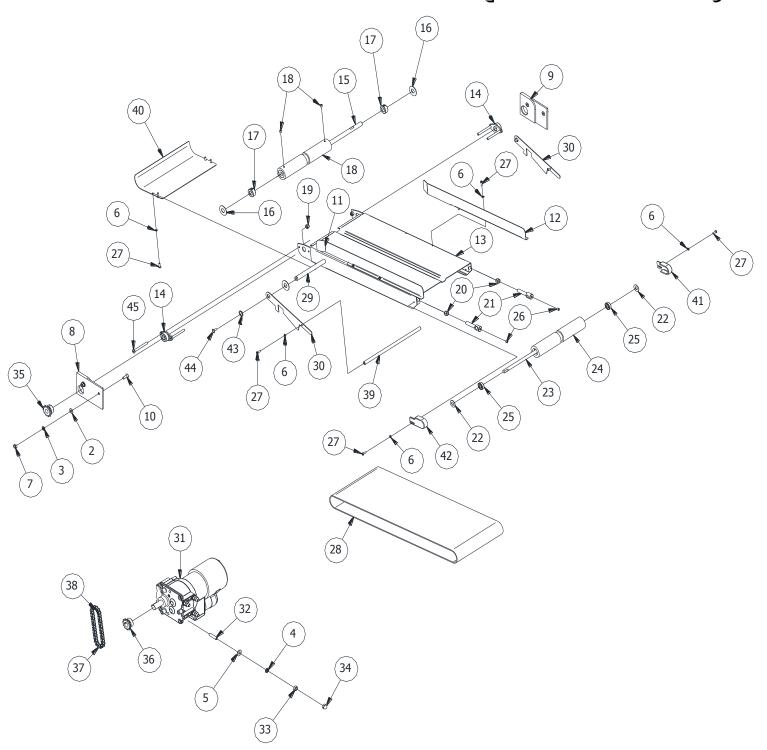


## ROUNDER ASSEMBLY BILL OF MATERIAL

ITEM	PART NO	DESCRIPTION	QTY
1	R130RA2	OUTSIDE FRAME	4
2	N/A	WELDED TO ITEM #1 SHOWN APART FOR CLEARTY	1
3	R144RA	MOTOR ADJUSTING BRACKET	1
4	R141RA	PLASTIC SEAL RING	1
5	R109RA	ROUNDER BASE SPROCKET	1
6	R134RA	PLASTIC WASHER w/ O'RING	1
7	R142RA	WASHER	1
8	❖ R108RA-B	ROUNDER BASE (FOR ASSEMBLY, SEE NOTE BELOW)	1
9	621CA1	CASTER, SWIVEL (LOCKING)	2
10	621CA2	CASTER, SWIVEL (NON-LOCKING)	2
11	AR122RA	ROUNDING SCREW (INCLUDES ITEM #'S 7, 12, 13, 14 & 32)	1
12	F0402HHCS	HEX HEAD CAP SCREW, 1/4-20 X 1/2" L	17
13	F0400FW	FLAT WASHER, 1/4"	17
14	F0400LW	LOCK WASHER, 1/4"	17
15	F0504HHCS	HEX HEAD CAP SCREW 5/16-18 X 1" LG.	4
16	F0500LW	LOCK WASHER, 5/16"	4
17	F0600FW	FLAT WASHER 3/8"	4
18	F0600LW	LOCK WASHER 3/8"	4
19	F0600NC	NUT COURSE, 3/8	4
20	R103RA	SPROCKET,(MOTOR) (INCLUDES ITEM #'S 38 & 39)	1
21	R105RA	DRIVE CHAIN - 31 LINKS	1
22	R106RA	MASTER CHAIN LINK	1
23	R135RA	BEARING, (ROUNDER BASE)	2
24	F0607RP	ROLL PIN, 3/8" DIA X 1-3/4" LONG	2
25	F0612RP	ROLL PIN - 3/8" DIA X 3" LONG	1
26	F0800LW	LOCK WASHER 1/2"	1
27	F0800NC	NUT COURSE, 1/2-13 NORMAL	4
28	F0824SD	STUD, 1/2-13 X 6" LG (S.S.)	1
29	R116RA	ROUNDER FUNNEL	1
30	R143RA	"O" RING	1
31	R145RA	SNAP RING	1
32	R121RA	EXIT RAMP (INCLUDES ITEM #'S 12, 13, & 14)	1
33	F0607HHCS	HEX HEAD CAP SCREW 3/8-16 X 1-3/4"	4
	SS255	GEARMOTOR (3/4 H.P. / 120/230VAC / SINGLE PHASE)	
34	SS256	GEARMOTOR (1H.P. / 230/460VAC / THREE PHASE /60Hz)	1
	EL-1448	GEARMOTOR (2H.P. / 230/460VAC / THREE PHASE / 60Hz)	
35	19900	PLASTIC ROUNDER DRUM	1
36	F0816SH	1/2-13 SOCKET HEAD BOLT 4" LONG	1
37	R108RA-S	ROUNDER SPINDLE (INCLUDES ITEM #'S 25 & 31)	1
38	F0503SS	SET SCREW, 5/16-18 X 3/4" LG, S.S.	1
39	F0404KY	1/4" KEY X 1" LONG, S.S.	1
40	R133RA	BREATHER	1
41	R115RA	ROUNDER DRUM RING (OLD STYLE DRUM ONLY)	1

**<sup>❖</sup>** PART # R108RA ROUNDER BASE ASSEMBLY INCLUDES ITEM #'S 5, 6, 8, 15, 16, 23, 24, 25, 31 & 37.

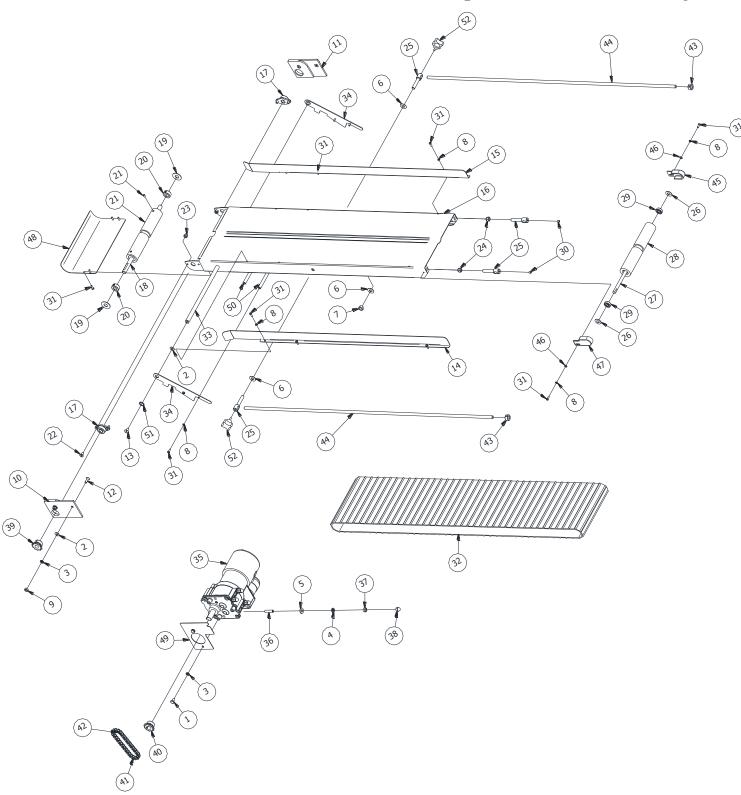
## Conveyor assembly (Standard)



## CONVEYOR ASSEMBLY (STANDARD) BILL OF MATERIAL

ITEM	PART NO	DESCRIPTION	QTY
1	F0402HHCS	HEX HEAD CAP SCREW, 1/4-20 X 1/2" L	27
2	F0400FW	FLAT WASHER, 1/4"	28
3	F0400LW	LOCK WASHER, 1/4"	33
4	F0500LW	LOCK WASHER, 5/16"	8
5	F0500FW	FLAT WASHER, 5/16"	8
6	F9700LW	LOCK WASHER #8	16
7	F0400NC	NUT COURSE, 1/4-20	6
8	11959	CONVEYOR MOUNTING PLATE (RIGHT)	1
9	11960	CONVEYOR MOUNTING PLATE (LEFT)	1
10	F0403FSH	FLAT SOCKET HEAD 1/4-20 X 3/4" LG.	4
11	17926	CONVEYOR GUIDE - (R)	1
12	17925	CONVEYOR GUIDE - (L)	1
13	118CA	CONVEYOR FRAME ASSEMBLY	1
14	102CA	ALUMINUM MTG, BRONZE BEARING, 2 HOLE FLANGED, 1/2" SHAFT DIA	2
15	115CA	CONVEYOR SHAFT	1
16	F0800NW	FLAT NYLON WASHER, 1/2" (17/32"ID X 1-1/4"OD X .088"~.112"THK)	4
17	119CA	SHAFT COLLAR, 1/2" ONE PIECE, S.S.	2
18	101CA	DRIVE ROLLER ASSEMBLY	1
19	F0400NLN	NUT, NYLOCK 1/4"	4
20	F0500NLN	NUT, NYLOCK 5/16"	2
21	600SC	ROLLER SUPPORT BOLT	2
22	F0600NW	NYLON, FLAT WASHER 3/8"	2
23	108CA	IDLER ROLLER SHAFT	1
24	109CA	IDLER ROLLER	1
25	603SCA	BALL BEARING, 3/8"ID X 7/8"OD, DEEP GROOVE	2
26	F0401SS	SET SCREW, 1/4-20 X 1/4" LG	2
27	F9702RH	ROUND HEAD, SLOTTED, #8-32 X 1/2"LG	12
28	104CA	REG OUTFEED CONVEYOR BELT, 8-3/8"W X 21-3/4"LG	1
29	11958	CONVEYOR ELEVATOR SHAFT	1
30	105CA	CONVEYOR SUPPORT ARM	2
31	SS252	OUTFEED CONVEYOR MOTOR, 1/15 HP, 115~230V, 70 RPM	1
32	F0505SS	SET SCREW, 5/16-18 X 1-1/4" LG, S.S.	4
33	F0500NC	NUT COURSE, 5/16-18	4
34	F0500AN	ACORN NUT, 5/16"	4
35	116CA	SPROCKET, 35B11 X 1/2" BORE	1
36	112CA	SPROCKET, 35B11 X 5/8" BORE	1
37	113CA	LONG CONVEYOR DRIVE CHAIN	1
38	114CA	MASTER LINK DRIVE CHAIN	1
39	17915	CONVEYOR ELEVATOR BRACKET SUPPORT SHAFT	1
40	17920	CONVEYOR INSIDE END PROTECTION PLATE	1
41	17918	CONVEYOR END POINT CAP (L)	1
42	17919	CONVEYOR END POINT CAP (R)	1
43	F0800WF	F0800WF, FIBER, RED, WASHER	2
44	F0404TH	1/4-20 X 1/2" LONG TRUSS HEAD	2
45	F0410FSH	FLAT SOCKET HEAD, 1/4 X 2-1/2" LG.	4

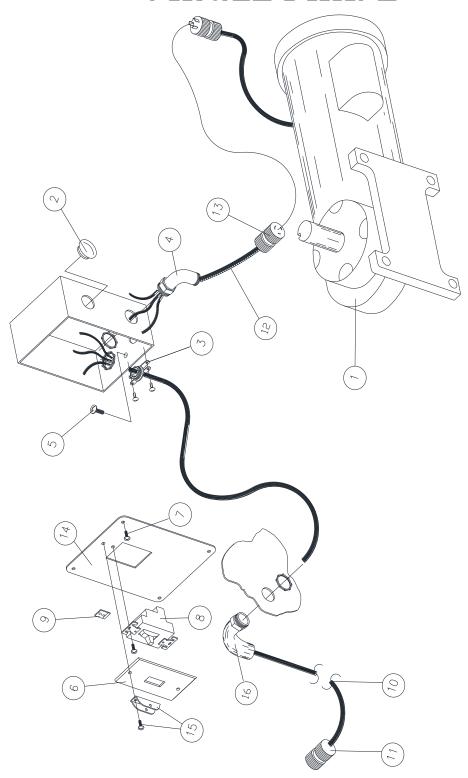
## CONVEYOR ASSEMBLY (EXTENDED)



## CONVEYOR ASSEMBLY (EXTENDED) BILL OF MATERIAL

ITEM	PART NO	DESCRIPTION	QTY
1	F0402HHCS	HEX HEAD CAP SCREW, 1/4-20 X 1/2" L	29
2	F0400FW	FLAT WASHER, 1/4"	30
3	F0400FW	LOCK WASHER, 1/4"	35
4	F0500LW	LOCK WASHER, 5/16"	8
5	F0500EW	FLAT WASHER, 5/16"	8
6	F0600FW	FLAT WASHER, 3/10  FLAT WASHER 3/8"	12
7	F0600FW	NUT COURSE, 3/8	6
8	F9700LW	LOCK WASHER #8	16
9	F0400NC	NUT COURSE, 1/4-20	6
10	11959	CONVEYOR MOUNTING PLATE (RIGHT)	1
11	11960	CONVEYOR MOUNTING PLATE (RIGHT)  CONVEYOR MOUNTING PLATE (LEFT)	1
12	F0403FSH	FLAT SOCKET HEAD 1/4-20 X 3/4" LG.	4
13			6
14	F0402BH 17917	BUTTON HEAD 1/4-20 X 1/2" LG.	1
		LONG CONVEYOR GUIDE - (R)	
15	17916	LONG CONVEYOR GUIDE - (L)	1
16	118CAL	CONVEYOR FRAME ASSEMBLY - LONG	1
17	102CA	ALUMINUM MTG, BRONZE BEARING, 2 HOLE FLANGED, 1/2" SHAFT DIA	2
18	115CA	CONVEYOR SHAFT	1
19	F0800NW	FLAT NYLON WASHER, 1/2"	2
20	119CA	SHAFT COLLAR, 1/2" ONE PIECE, S.S.	2
21	101CA	DRIVE ROLLER ASSEMBLY	1
22	F0402FSH	FLAT SOCKET HEAD SCREW, 1/4-20 X 1/2" LG.	4
23	F0400NLN	NUT, NYLOCK 1/4"	4
24	F0500NLN	NUT, NYLOCK 5/16"	2
25	600SC	ROLLER SUPPORT BOLT	4
26	F0600NW	NYLON, FLAT WASHER 3/8"	2
27	108CA	IDLER ROLLER SHAFT	1
28	109CA	IDLER ROLLER	1
29	603SCA	BALL BEARING, 3/8"ID X 7/8"OD, DEEP GROOVE	2
30	F0401SS	SET SCREW, 1/4-20 X 1/4" LG	2
31	F9702RH	ROUND HEAD, SLOTTED, #8-32 X 1/2"LG	16
32	104CAL	LONG OUTFEED CONVEYOR BELT, 8-3/8"W X 37-3/4"LG	1
33	11958	CONVEYOR ELEVATOR SHAFT	1
34	17914	CONVEYOR ELEVATOR BRACKET	2
35	SS252	OUTFEED CONVEYOR MOTOR, 1/15 HP, 115~230V, 70 RPM	1
36	F0505SS	SET SCREW, 5/16-18 X 1-1/4" LG, S.S.	4
37	F0500NC	NUT COURSE, 5/16-18	4
38	F0500AN	ACORN NUT, 5/16"	4
39	116CA	SPROCKET, 35B11 X 1/2" BORE	1
40	112CA	SPROCKET, 35B11 X 5/8" BORE	1
41	113CA	LONG CONVEYOR DRIVE CHAIN	1
42	114CA	MASTER LINK DRIVE CHAIN	1
43	161CA	SHAFT COLLAR, 3/8" ID, ONE PIECE	2
44	158CAL	CONVEYOR SUPPORT ROD, LONG	2
45	17918	CONVEYOR END POINT CAP (L)	1
46	F9700FW	FLAT WASHER #8	2
47	17919	CONVEYOR END POINT CAP (R)	1
48	17920	CONVEYOR INSIDE END PROTECTION PLATE	1
49	17921	CONVEYOR MOTOR PROTECTION PLATE	1
50	17915	CONVEYOR ELEVATOR BRACKET SUPPORT SHAFT	2
51	F0800WF	FIBER WASHER	2
52	14841	STAR KNOB	2

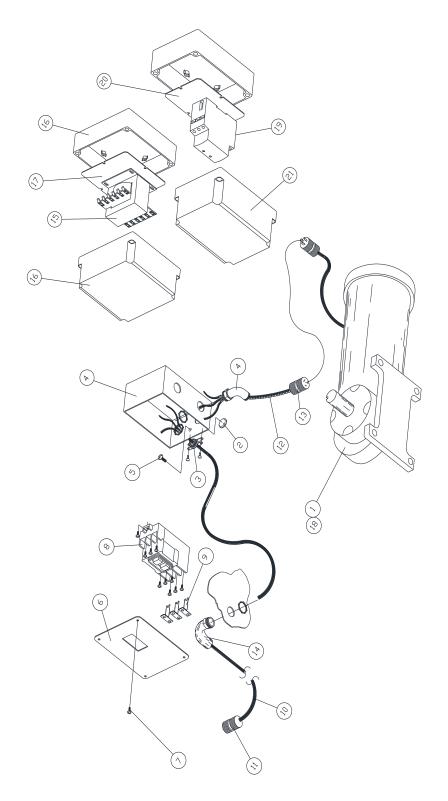
## ELECTRICAL COMPONENTS SINGLE PHASE



## ELECTRICAL COMPONENTS SINGLE PHASE BOM

SS154 MOTOR CONNECTOR (USED WITH 110-120Vac MACHINES)	PART NO	DESCRIPTION	QTY
SS255-115	SS255-115	GEAR MOTOR ASSEMBLY (110-120Vac MACHINE)	1
SS100 - CORD CONNECTOR   SS153 - PLUG (110-120Vac)		W/ SS255 - GEAR MOTOR	1
SS153 - PLUG (110-120Vac)	SS255-115	SS220 - 14/3 CAROLPRENE CORD	18"
SS255-220   SS220 - 14/3 CAROLPRENE CORD		SS100 – CORD CONNECTOR	1
SS255-220   GEAR MOTOR ASSEMBLY (208-240Vac MACHINE)		SS153 - PLUG (110-120Vac)	1
SS255-220			
SS255-220   SS220 - 14/3 CAROLPRENE CORD   SS100 - CORD CONNECTOR   SS155 - PLUG (208-240Vac)		GEAR MOTOR ASSEMBLY (208-240Vac MACHINE)	1
SS100 - CORD CONNECTOR   SS155 - PLUG (208-240Vac)		W/ SS255 - GEAR MOTOR	1
SS155 - PLUG (208-240Vac)	SS255-220	SS220 - 14/3 CAROLPRENE CORD	18"
2		SS100 – CORD CONNECTOR	1
SS100   CORD CONNECTOR		SS155 - PLUG (208-240Vac)	1
4 SS103 90° ELBOW 6 F9702TH SCREW (8-32 X ½" LONG TRUSS HEAD) 6 SS115 SWITCH COVER PLATE 7 F9701.5TH SCREW (8-32 X 3/8" LONG TRUSS HEAD) 8 SS212 MANUAL MOTOR STARTER 9 SS210 OVERLOAD (USED WITH 110-120Vac MACHINES) 10 SS220 POWER CORD (14/3) 11 SS148 PLUG (110-120Vac MACHINES) 12 SS220 MOTOR DROP CORD(14/3) 13 SS154 MOTOR CONNECTOR (USED WITH 110-120Vac MACHINES)	EL-1321	HOLE PLUG (S.S.)	2
6         F9702TH         SCREW (8-32 X ½" LONG TRUSS HEAD)           6         SS115         SWITCH COVER PLATE           7         F9701.5TH         SCREW (8-32 X 3/8" LONG TRUSS HEAD)           8         SS212         MANUAL MOTOR STARTER           9         SS210         OVERLOAD (USED WITH 110-120Vac MACHINES)           EL-1189         OVERLOAD (USED WITH 208-240Vac MACHINES)           10         SS220         POWER CORD (14/3)           SS148         PLUG (110-120Vac MACHINES)           12         SS155         PLUG (208-240Vac MACHINES)           12         SS220         MOTOR DROP CORD(14/3)         1           SS154         MOTOR CONNECTOR (USED WITH 110-120Vac MACHINES)	SS100	CORD CONNECTOR	1
6         SS115         SWITCH COVER PLATE           7         F9701.5TH         SCREW (8-32 X 3/8" LONG TRUSS HEAD)           8         SS212         MANUAL MOTOR STARTER           9         SS210         OVERLOAD (USED WITH 110-120Vac MACHINES)           10         SS220         POWER CORD (14/3)           11         SS148         PLUG (110-120Vac MACHINES)           12         SS220         MOTOR DROP CORD(14/3)         1           13         SS154         MOTOR CONNECTOR (USED WITH 110-120Vac MACHINES)         1	SS103	90º ELBOW	1
7         F9701.5TH         SCREW (8-32 X 3/8" LONG TRUSS HEAD)           8         SS212         MANUAL MOTOR STARTER           9         SS210         OVERLOAD (USED WITH 110-120Vac MACHINES)           10         EL-1189         OVERLOAD (USED WITH 208-240Vac MACHINES)           10         SS220         POWER CORD (14/3)           11         SS148         PLUG (110-120Vac MACHINES)           12         SS155         PLUG (208-240Vac MACHINES)           12         SS220         MOTOR DROP CORD(14/3)         1           13         SS154         MOTOR CONNECTOR (USED WITH 110-120Vac MACHINES)	F9702TH	SCREW (8-32 X ½" LONG TRUSS HEAD)	2
8         SS212         MANUAL MOTOR STARTER           9         SS210         OVERLOAD (USED WITH 110-120Vac MACHINES)           EL-1189         OVERLOAD (USED WITH 208-240Vac MACHINES)           10         SS220         POWER CORD (14/3)           11         SS148         PLUG (110-120Vac MACHINES)           12         SS155         PLUG (208-240Vac MACHINES)           12         SS220         MOTOR DROP CORD(14/3)         1           13         SS154         MOTOR CONNECTOR (USED WITH 110-120Vac MACHINES)	SS115	SWITCH COVER PLATE	1
SS210         OVERLOAD (USED WITH 110-120Vac MACHINES)           EL-1189         OVERLOAD (USED WITH 208-240Vac MACHINES)           10         SS220         POWER CORD (14/3)           SS148         PLUG (110-120Vac MACHINES)           SS155         PLUG (208-240Vac MACHINES)           12         SS220         MOTOR DROP CORD(14/3)         1           SS154         MOTOR CONNECTOR (USED WITH 110-120Vac MACHINES)	F9701.5TH	SCREW (8-32 X 3/8" LONG TRUSS HEAD)	4
SS220   POWER CORD (14/3)	SS212	MANUAL MOTOR STARTER	1
SS220   POWER CORD (14/3)	SS210	OVERLOAD (USED WITH 110-120Vac MACHINES)	1
SS148   PLUG (110-120Vac MACHINES)	EL-1189	OVERLOAD (USED WITH 208-240Vac MACHINES)	1
11         SS155         PLUG (208-240Vac MACHINES)           12         SS220         MOTOR DROP CORD(14/3)         1           SS154         MOTOR CONNECTOR (USED WITH 110-120Vac MACHINES)         1	SS220	POWER CORD (14/3)	12'
SS155   PLUG (208-240Vac MACHINES)	SS148	PLUG (110-120Vac MACHINES)	1
SS154 MOTOR CONNECTOR (USED WITH 110-120Vac MACHINES)	SS155	PLUG (208-240Vac MACHINES)	1
	SS220	MOTOR DROP CORD(14/3)	16-1/2"
SS156 MOTOR CONNECTOR (USED WITH 208-240Vac MACHINES)	SS154	MOTOR CONNECTOR (USED WITH 110-120Vac MACHINES)	1
	SS156	MOTOR CONNECTOR (USED WITH 208-240Vac MACHINES)	1
14 R422CA SWITCH PLATE	R422CA	SWITCH PLATE	1
15 R406CA LOCKING ATTACHMENT	R406CA	LOCKING ATTACHMENT	1
16 EL-1406 90 DEGREE CORD GRIP	EL-1406	90 DEGREE CORD GRIP	1

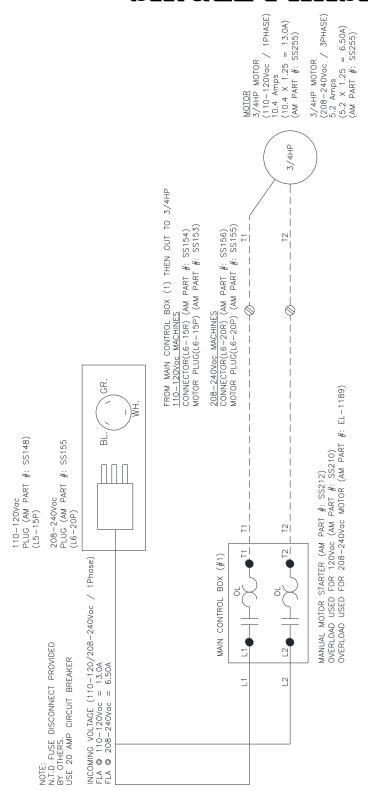
## ELECTRICAL COMPONENTS THREE PHASE



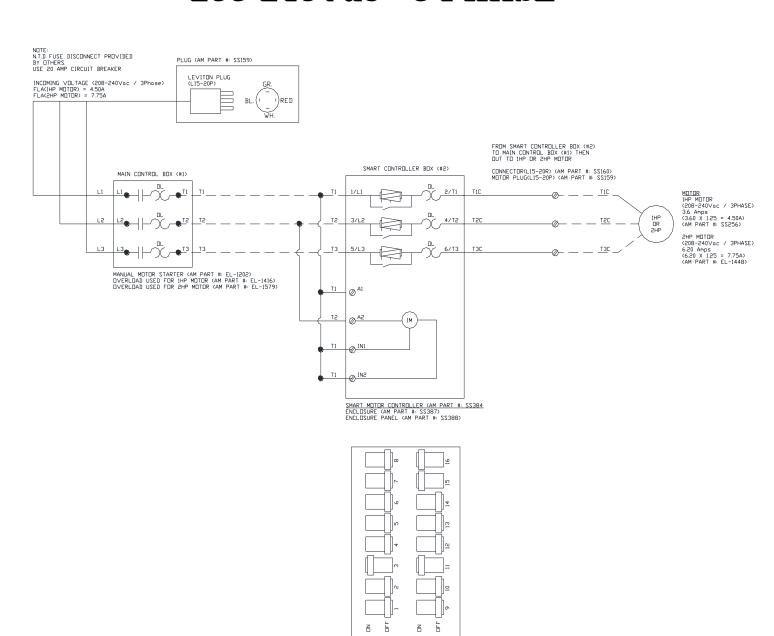
## ELECTRICAL COMPONENTS THREE PHASE BOM

ITEM	PART NO	DESCRIPTION	QTY
		GEAR MOTOR ASSEMBLY (208-240Vac MACHINE)	1
		W/ SS256 - 1HP GEAR MOTOR	1
	SS256-220	SS225 - 16/4 CAROLPRENE CORD	18"
		SS100 – CORD CONNECTOR	1
		SS159 - PLUG (208-240Vac)	1
1			•
		GEAR MOTOR ASSEMBLY (440-480Vac MACHINE)	1
		W/ SS256 - 1HP GEAR MOTOR	1
	SS256-480	SS225 - 16/4 CAROLPRENE CORD	18"
		SS100 – CORD CONNECTOR	1
		SS161 - PLUG (480Vac)	1
2	EL-1321	HOLE PLUG (S.S.)	2
3	SS100	CORD CONNECTOR	1
4	SS103	90º ELBOW	1
5	F9702TH	SCREW (8-32 X ½" LONG TRUSS HEAD)	2
6	17799	SWITCH COVER PLATE	1
7	F9701.5TH	SCREW (8-32 X 3/8" LONG TRUSS HEAD)	4
8	EL-1202	MANUAL MOTOR STARTER	1
	EL-1416	OVERLOAD (USED WITH 208-240Vac MACHINES w/ 1HP MOTOR	
_	EL-1580	OVERLOAD (USED WITH 440-480Vac MACHINES w/ 1HP MOTOR)	2
9	EL-1579	OVERLOAD (USED WITH 208-240Vac MACHINES w/ 2HP MOTOR	3
	EL-1373	OVERLOAD (USED WITH 440-480Vac MACHINES w/ 2HP MOTOR)	
10	SS219	POWER CORD (14/4)	12'
4.4	SS159	PLUG (208-240Vac MACHINES)	1
11	SS161	PLUG (440-480Vac MACHINES)	1
12	SS219	MOTOR DROP CORD(14/4)	16-1/2"
12	SS160	MOTOR CONNECTOR (USED WITH 208-240Vac MACHINES)	1
13	SS162	MOTOR CONNECTOR (USED WITH 440-480Vac MACHINES)	1
14	SS277	90 DEGREE CORD GRIP	1
15	EL-0220	TRANSFORMER (440-480Vac MACHINES	1
16	SS381	ELECTRICAL ENCLOSURE	1
17	SS380	ELECTRICAL ENCLOSURE PANEL	1
	EL-1448-220	GEAR MOTOR ASSEMBLY (208-240Vac MACHINE)	1
		W/ EL-1448 - 2HP GEAR MOTOR	1
		SS225 - 16/4 CAROLPRENE CORD	18"
		SS100 – CORD CONNECTOR	1
		SS159 - PLUG (208-240Vac)	1
18			
		GEAR MOTOR ASSEMBLY (440-480Vac MACHINE)	1
	EL-1448-480	W/ EL-1448 - 2HP GEAR MOTOR	1
		SS225 - 16/4 CAROLPRENE CORD	18"
		SS100 – CORD CONNECTOR	1
		SS161 - PLUG (480Vac)	1
19	SS384	SMART MOTOR CONTROLLER	1
20	SS387	ELECTRICAL ENCLOSURE	1
21	SS388	ELECTRICAL ENCLOSURE PANEL	1
22	SS105	LIQUIDTIGHT FITTING (NOT SHOWN)	2

## ELECTRICAL SCHEMATIC SINGLE PHASE

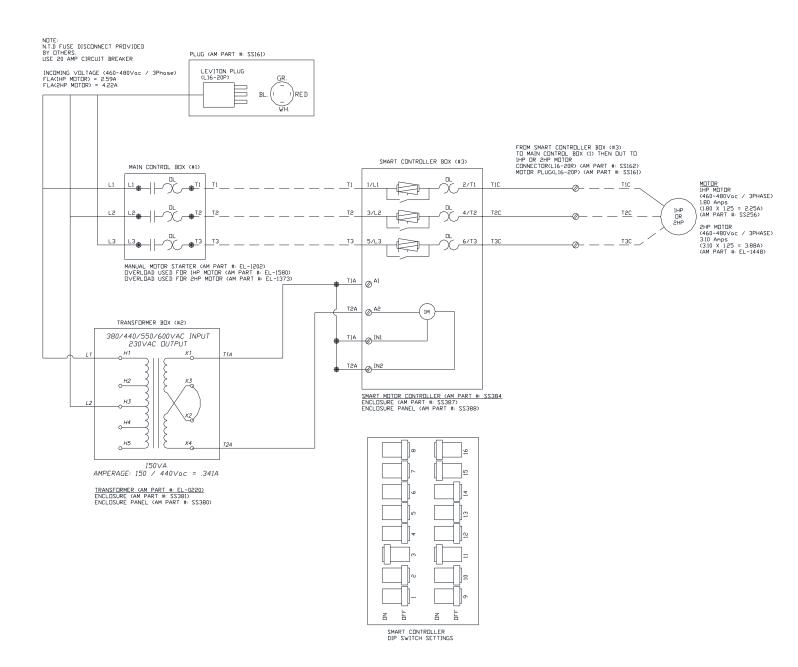


## ELECTRICAL SCHEMATIC 208-240Vac - 3 PHASE



SMART CONTROLLER DIP SWITCH SETTINGS

## ELECTRICAL SCHEMATIC 460-480Vac - 3 PHASE



### ORDERING REPLACEMENT PARTS

#### **IMPORTANT:**

ONLY USE FACTORY SUPPLIED REPLACEMENT PARTS TO MAINTAIN MACHINE SAFETY, PERFORMANCE AND SANITARY CONDITIONS.

USE OF NON-APPROVED PARTS MAY VOID MANUFACTURES WARRANTY.

#### TO ORDER REPLACEMENT PARTS ALWAYS:

- 1) CHECK THE MACHINE TO IDENTIFY MISSING, DAMAGED OR NON-FUNCTIONAL PARTS INCLUDING GUARDS, WARNING LABELS AND INSTRUCTIONS.
- 2) COMPARE THE LIST WITH THE PARTS DIAGRAMS SUPPLIED.
- 3) RECORD THE COMPLETE MODEL AND SERIAL NUMBER OF THE UNIT.
- 4) CALL AM MANUFACTURING (800) 342-6744 AND PROVIDE ALL INFORMATION NOTED ABOVE TO EXPEDITE ORDER PROCESSING AND HELP REDUCE SHIPPING COST.
- 5) PROVIDE COMPLETE DETAILS FOR (SHIP TO) AND (BILL TO) INFORMATION. TO ASSIST PROMPT DELIVERY, SPECIFY TYPE OF CARRIER PREFERRED IN SHIPMENT.
- 6) MOST MAJOR CREDIT CARDS ACCEPTED.

## NOTES

DATE:	ACTIVITY: