



**Model U431I2**  
**SERVICE MANUAL**

Manual No. 513661

Rev.0



This manual provides basic information about the machine. Instructions and suggestions are given covering its operation and care.

The illustrations and specifications are not binding in detail. We reserve the right to make changes to the machine without notice, and without incurring any obligation to modify or provide new parts for machines built prior to date of change.

**DO NOT ATTEMPT** to operate the machine until instructions and safety precautions in this manual are read completely and are thoroughly understood. If problems develop or questions arise in connection with installation, operation, or servicing of the machine, contact Stoelting.



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## ***A Few Words About Safety***

### **Safety Information**

**Read and understand the entire manual before operating or maintaining Stoelting equipment.**

This manual provides the operator with information for the safe operation and maintenance of Stoelting equipment. As with any machine, there are hazards associated with their operation. For this reason safety is emphasized throughout the manual. To highlight specific safety information, the following safety definitions are provided to assist the reader.

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols, and their explanations, deserve your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instructions or warnings they give are not substitutes for proper accident prevention measures.

If you need to replace a part, use genuine Stoelting parts with the correct part number or an equivalent part. We strongly recommend that you do not use replacement parts of inferior quality.



### **Safety Alert Symbol:**

**This symbol** Indicates danger, warning or caution. Attention is required in order to avoid serious personal injury. The message that follows the symbol contains important information about safety.

### **Signal Word:**

Signal words are distinctive words used throughout this manual that alert the reader to the existence and relative degree of a hazard.



The signal word "WARNING" indicates a potentially hazardous situation, which, if not avoided, may result in death or serious injury and equipment/property damage.



The signal word "CAUTION" indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury and equipment/property damage.

### **CAUTION**

The signal word "CAUTION" not preceded by the safety alert symbol indicates a potentially hazardous situation, which, if not avoided, may result in equipment/property damage.

### **NOTE (or NOTICE)**

The signal word "NOTICE" indicates information or procedures that relate directly or indirectly to the safety of personnel or equipment/property.

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# SECTION 1 DESCRIPTION AND SPECIFICATIONS

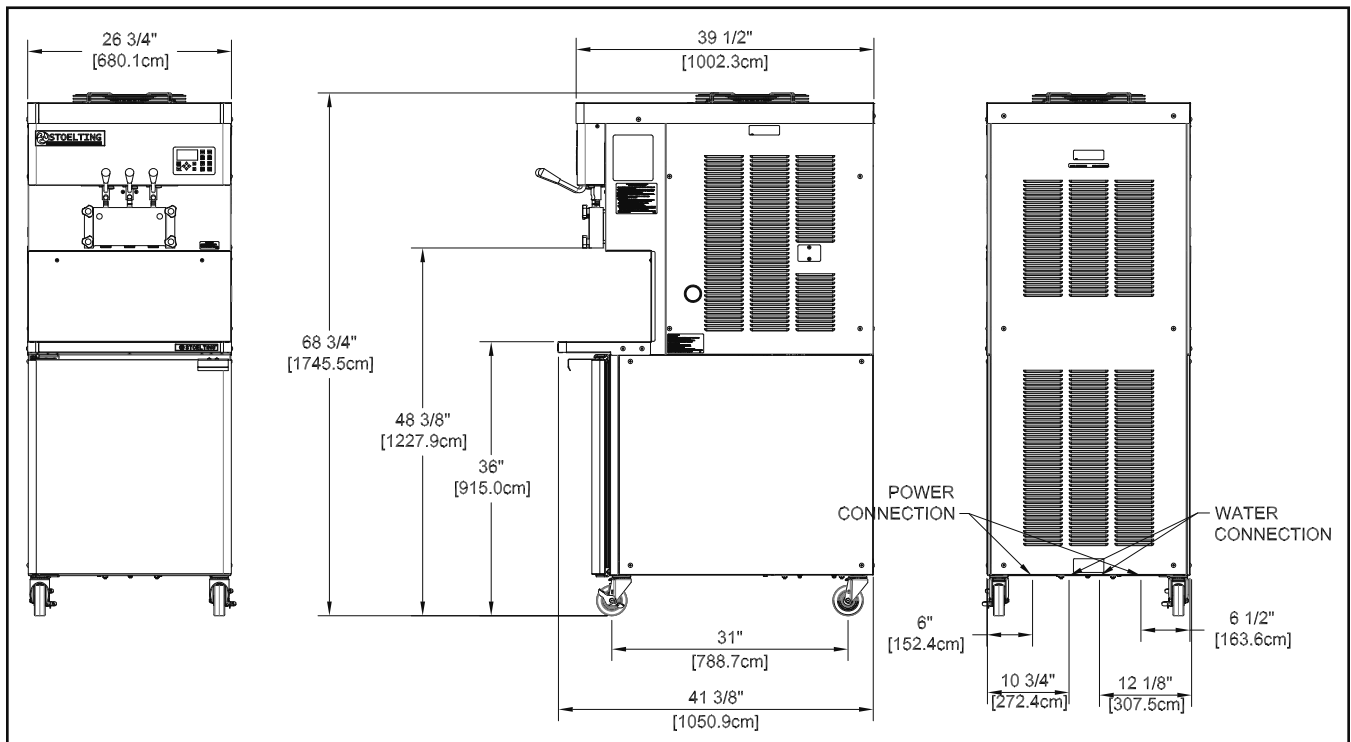
## 1.1 DESCRIPTION

The Stoelting U431 I2 floor model machine is pressure fed. It is equipped with fully automatic controls to provide a uniform product.

This manual is designed to assist qualified service personnel and operators with installation, operation and maintenance of the U431 I2.



Figure 1-1 Model U431 I2



## 1.2 SPECIFICATIONS

	U431-I2 A/C		U431-I2 A/C Remote		U431-I2 W/C	
<b>Dimensions</b>	<b>Machine</b>	<b>with crate</b>	<b>Machine</b>	<b>with crate</b>	<b>Machine</b>	<b>with crate</b>
width	26-3/4" (67,9 cm)	34" (86,4 cm)	26-3/4" (67,9 cm)	34" (86,4 cm)	26-3/4" (67,9 cm)	34" (86,4 cm)
height	68-3/4" (174,6 cm)	78" (198,1 cm)	67-3/4" (172,1 cm)	78" (198,1 cm)	67-1/2" (171,5 cm)	78" (198,1 cm)
depth	39-1/2" (100,3 cm)	48" (121,9 cm)	39-3/4" (101,0 cm)	48" (121,9 cm)	39-1/2" (100,3 cm)	48" (121,9 cm)
<b>Weight</b>	785 lbs (356,0 kg)	935 lbs (424,1 kg)	760 lbs (344,7 kg)	908 lbs (411,8 kg)	760 lbs (344,7 kg)	908 lbs (411,8 kg)
<b>Electrical</b>	<b>1 PH</b>	<b>3 PH</b>	<b>1 PH</b>	<b>3 PH</b>	<b>1 PH</b>	<b>3 PH</b>
circuit ampacity (per barrel)	32A	20A	36A Left / 31A Right	20A	32A	20A
overcurrent protection device (per barrel)	50A	30A	50A Left / 45A Right	30A	50A	30A
<b>Drive Motor</b>	Two - 2 hp					
<b>Cooling</b>	Air cooled units require 6" (15,2 cm) air space on all sides and open at the top.		Remote air cooled requires two remote condensers and two precharged line sets.		Water cooled units require 1/2" N.P.T. water and drain fittings. Maximum water pressure of 130 psi. Minimum water flow rate of 3 GPM per barrel. Ideal EWT of 50°-70°F. The machine requires 6" (15,2 cm) air space on all sides for the cabinet refrigeration system.	
<b>Hopper Volume</b>	Two - 8 gallon (30,28 liters)					
<b>Freezing Cylinder Volume</b>	Two - 1.33 gallon (5,03 liters)					

	<b>U431 I2</b>
<b>Refrigerant</b>	R-404A
<b>Charge</b>	46 oz
<b>Suction Pressure</b>	22-23 psig
<b>Discharge Pressure</b> at 80°F Ambient	235-240 psig
	<b>Cabinet</b>
<b>Refrigerant</b>	R-134A
<b>Charge</b>	12 oz
<b>Cab Suction Pressure</b>	25-26 psig



### 1.3 COMPONENT SETTINGS

Following are the settings for the components in the U431 I2 machine.

#### A. COMPRESSOR WINDINGS

When testing the compressor windings the resistance through the windings should be as follows:

Compressor	Electrical	S to C	R to C
282085	3 PH	5.94Ω	0.00Ω
282106	1 PH	1.34Ω	0.94Ω
282107	3 PH	1.53Ω	1.21Ω
282111	1 PH	16.40Ω	10.20Ω

#### B. CAPACITORS

Refer to the following table for the capacitance of all the capacitors in the machine:

Capacitor	Part	Rating	
		MFD	VAC
Compressor - Start	230638	88-106 MFD	330 VAC
Compressor - Run	231047	45 MFD	370 VAC
Motor - Start	230622	200 MFD	250 VAC
Motor - Run	231075	30 MFD	370 VAC
Fan Motor	230654	5 MFD	400 VAC
Cab Compressor	230667	80 MFD	300 VAC

#### C. PUMP PRESSURE SWITCH

The pump pressure switch, located in the cabinet, maintains 21-24 psig in the mix line.

### D. TEMPERATURE CONTROL SENSOR

The following table shows the relationship between the thermistor resistance and the suction line temperature.

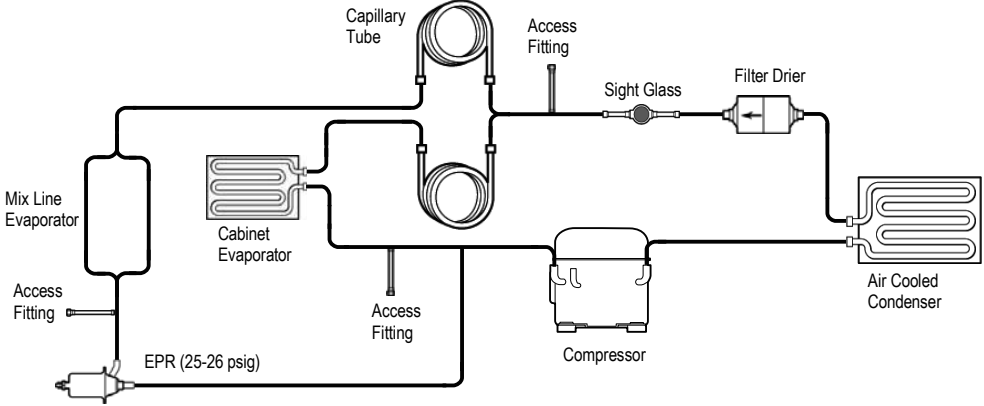
°F	Resistance	°F	Resistance
-22	176950	40	26100
-20	165200	42	24725
-18	154300	44	23400
-16	144200	46	22175
-14	134825	48	21000
-12	126125	50	19900
-10	118050	52	18875
-8	110550	54	17900
-6	103550	56	17000
-4	97075	58	16125
-2	91025	60	15325
0	85400	62	14550
2	80150	64	13825
4	75275	66	13150
6	70725	68	12500
8	66475	70	11875
10	62500	72	11300
12	58800	74	10750
14	55325	76	10250
16	52100	78	9750
18	49075	80	9300
20	46250	82	8850
22	43600	84	8450
24	41125	86	8050
26	38800	88	7675
28	36625	90	7325
30	34575	92	7000
32	32675	94	6675
34	30875	96	6375
36	29175	98	6100
38	27600	100	5825



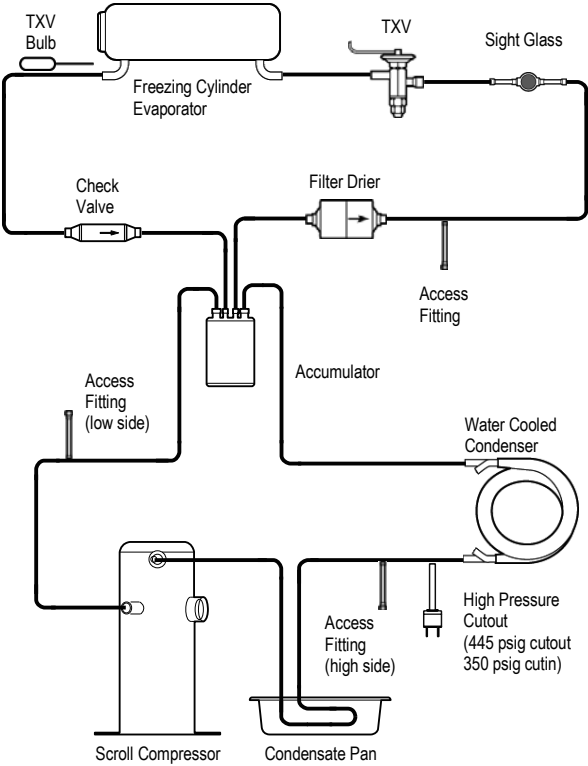
# SECTION 2 REFRIGERATION DIAGRAM AND WIRING DIAGRAMS

## 2.1 REFRIGERATION DIAGRAMS

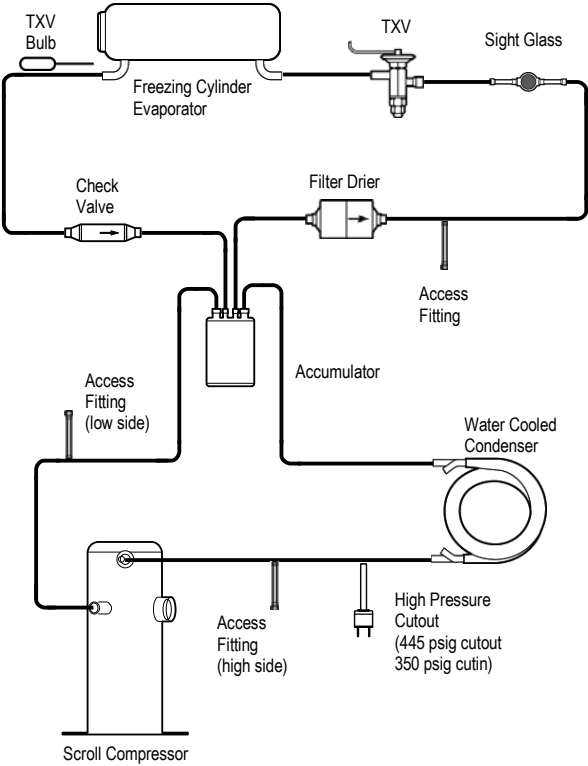
**Cabinet Refrigeration  
R134A**



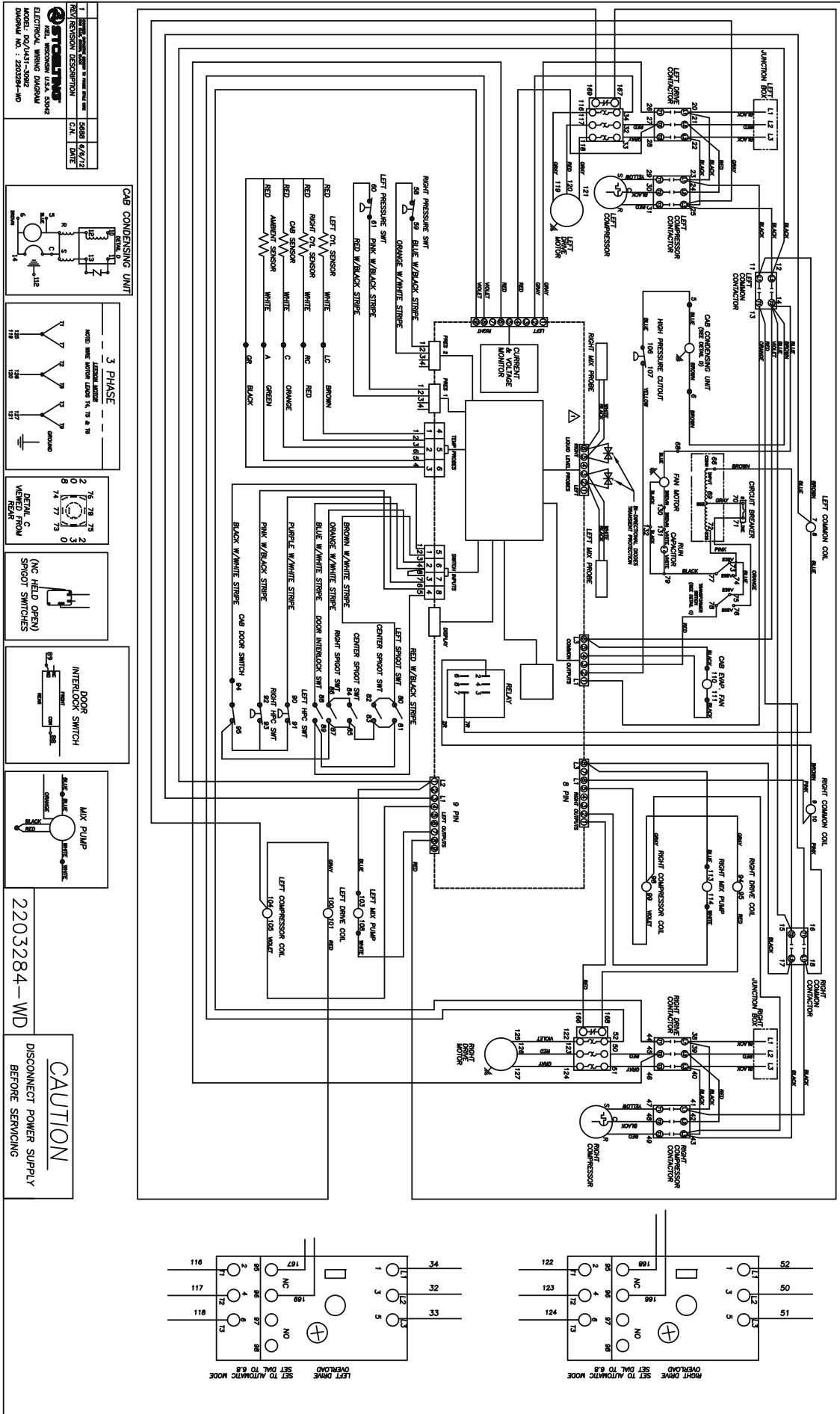
**Left Side  
R404A**



**Right Side  
R404A**

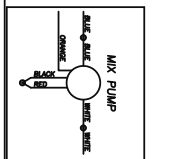
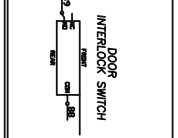
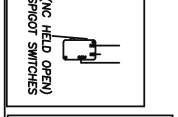
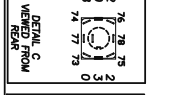
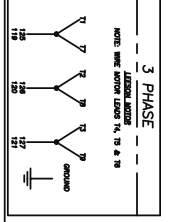
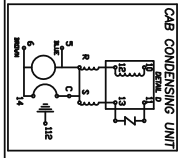


# 2.2 WIRING DIAGRAMS



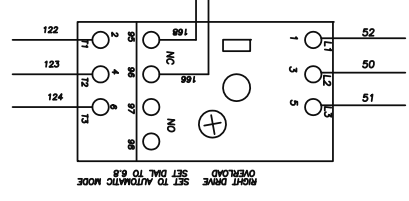
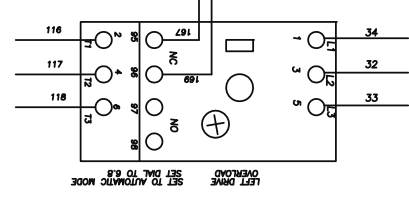
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C.N.	DATE		

**STANLEY**  
ELECTRICAL WIRING DIAGRAM  
MODEL: DC/431-3082  
DRAWING NO.: 2203284-WD



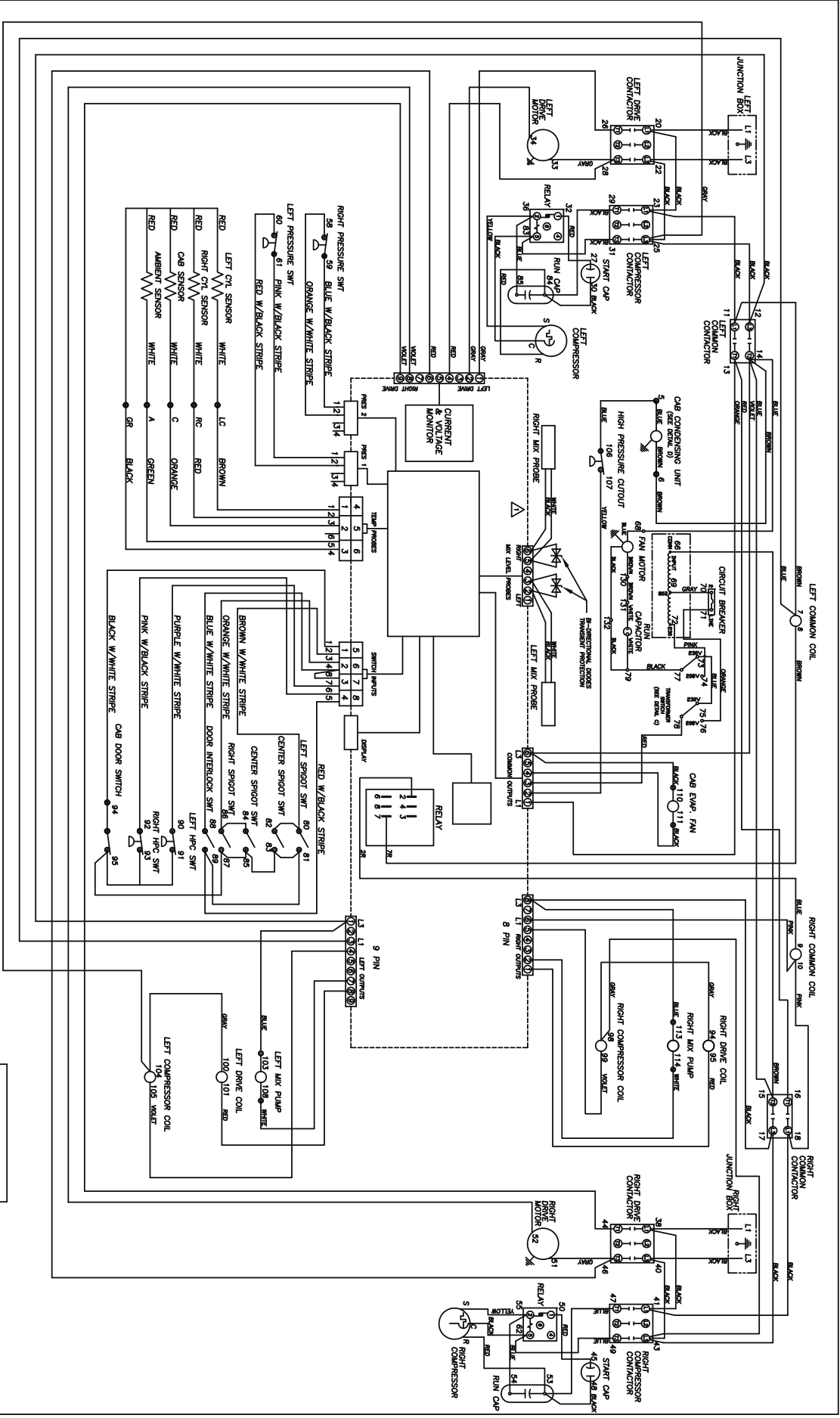
2203284-WD

**CAUTION**  
DISCONNECT POWER SUPPLY BEFORE SERVICING

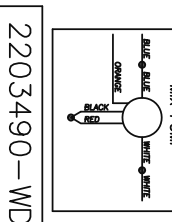
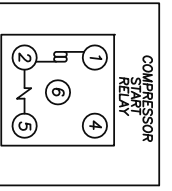
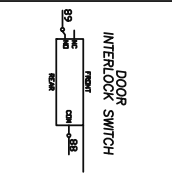
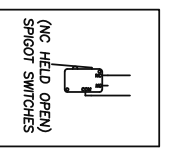
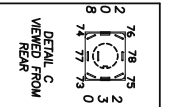
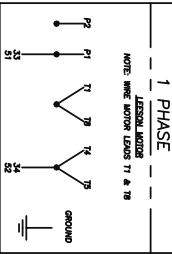
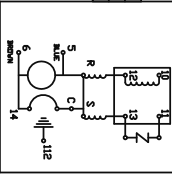


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ELECTRICAL WIRING DIAGRAM		C.N.	DATE

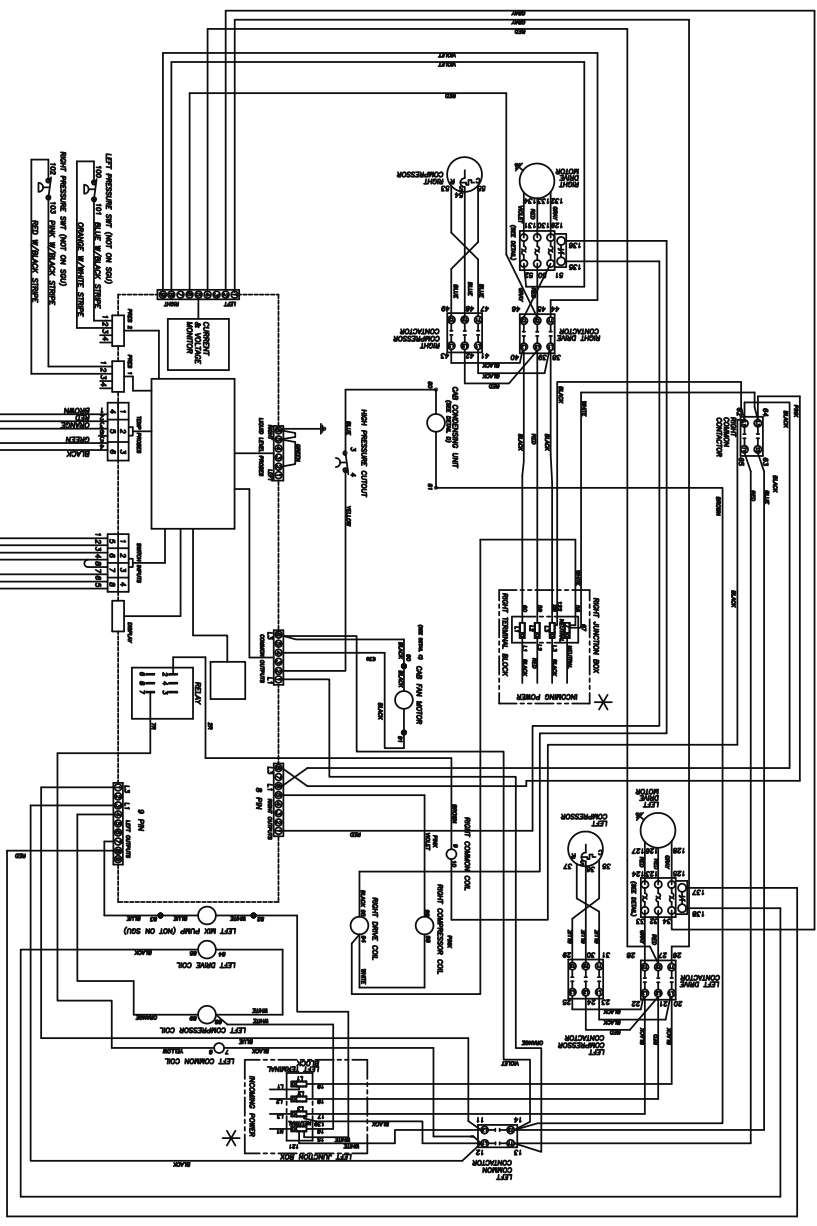
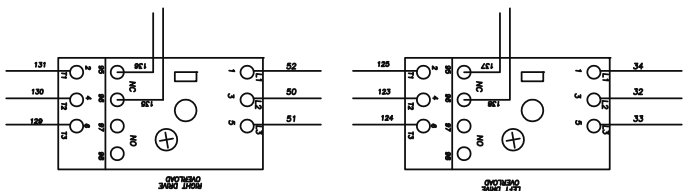
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ELECTRICAL WIRING DIAGRAM  
MODEL: 2203490-382  
DIAGRAM NO.: 2203490-WD



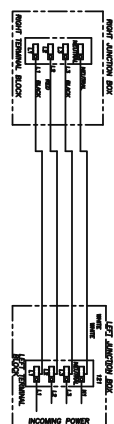
CAB CONDENSING UNIT



**CAUTION**  
DISCONNECT POWER SUPPLY BEFORE SERVICING

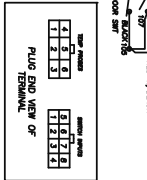
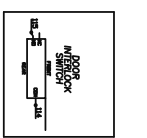
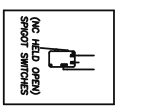
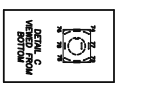
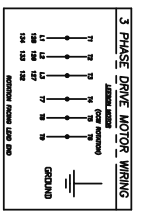
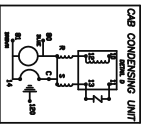


380-415 VAC 3 PHASE 50HZ.



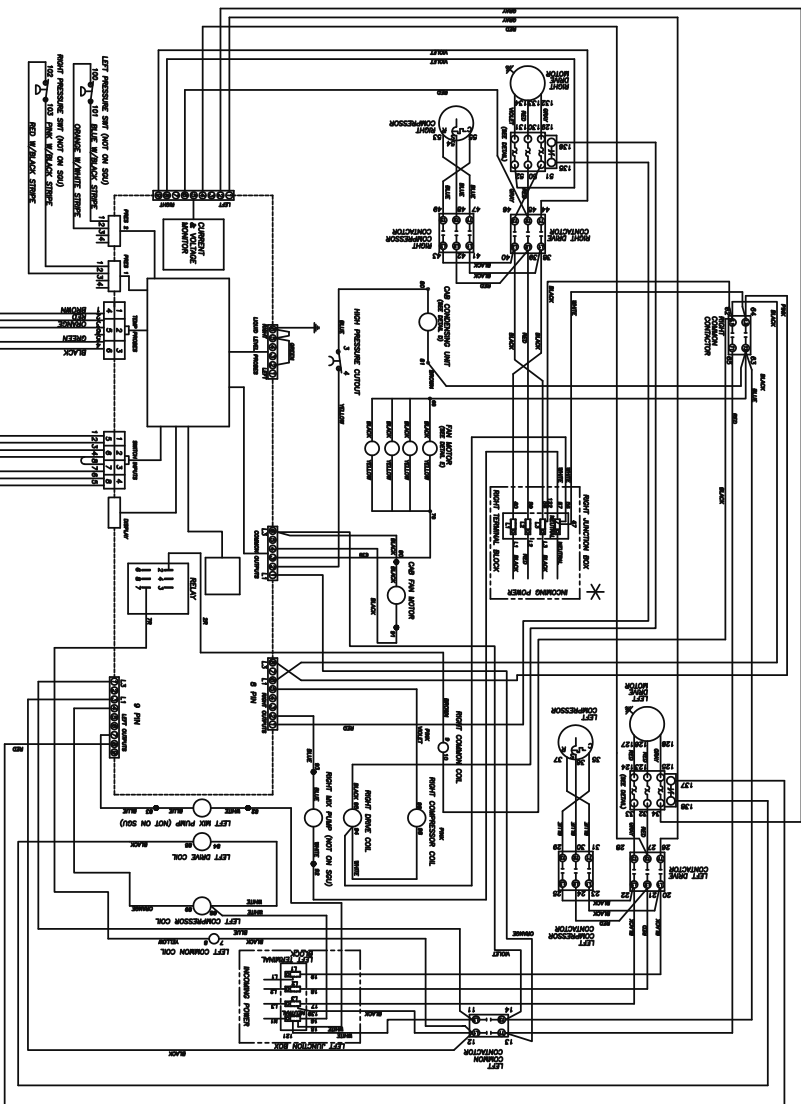
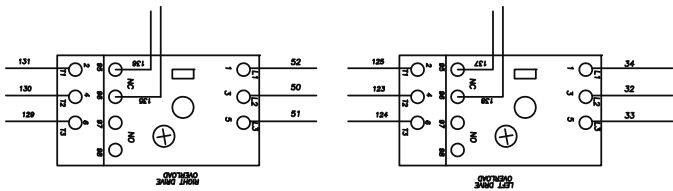
\*NOTE FIELD OPTION FOR COMBINING BOTH POWER SUPPLIES.

**WARNING**  
ELECTRICAL WIRING DIAGRAM  
MODEL NO. U431 I2-40



2203546 - WD

**CAUTION**  
DISCONNECT POWER SUPPLY  
BEFORE SERVICING



**3 PHASE DRIVE MOTOR WIRING**

Wiring diagram showing three phase lines (L1, L2, L3) connected to the drive motor. It includes a ground connection and a note: 'REVERSE PHASE LINE AND MOTOR DIRECTION'.

**3 PHASE DRIVE MOTOR WIRING**

Wiring diagram showing three phase lines (L1, L2, L3) connected to the drive motor. It includes a ground connection and a note: 'REVERSE PHASE LINE AND MOTOR DIRECTION'.

**DETAIL C**

Wiring diagram showing a fan motor connection with terminals 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

**DETAIL D**

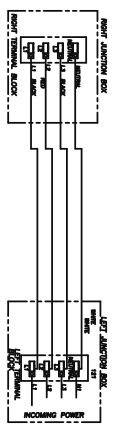
Wiring diagram showing a fan motor connection with terminals 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

**FLUID LEVEL OFF**

Wiring diagram showing a fluid level sensor connection with terminals 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

**FAN MOTOR**

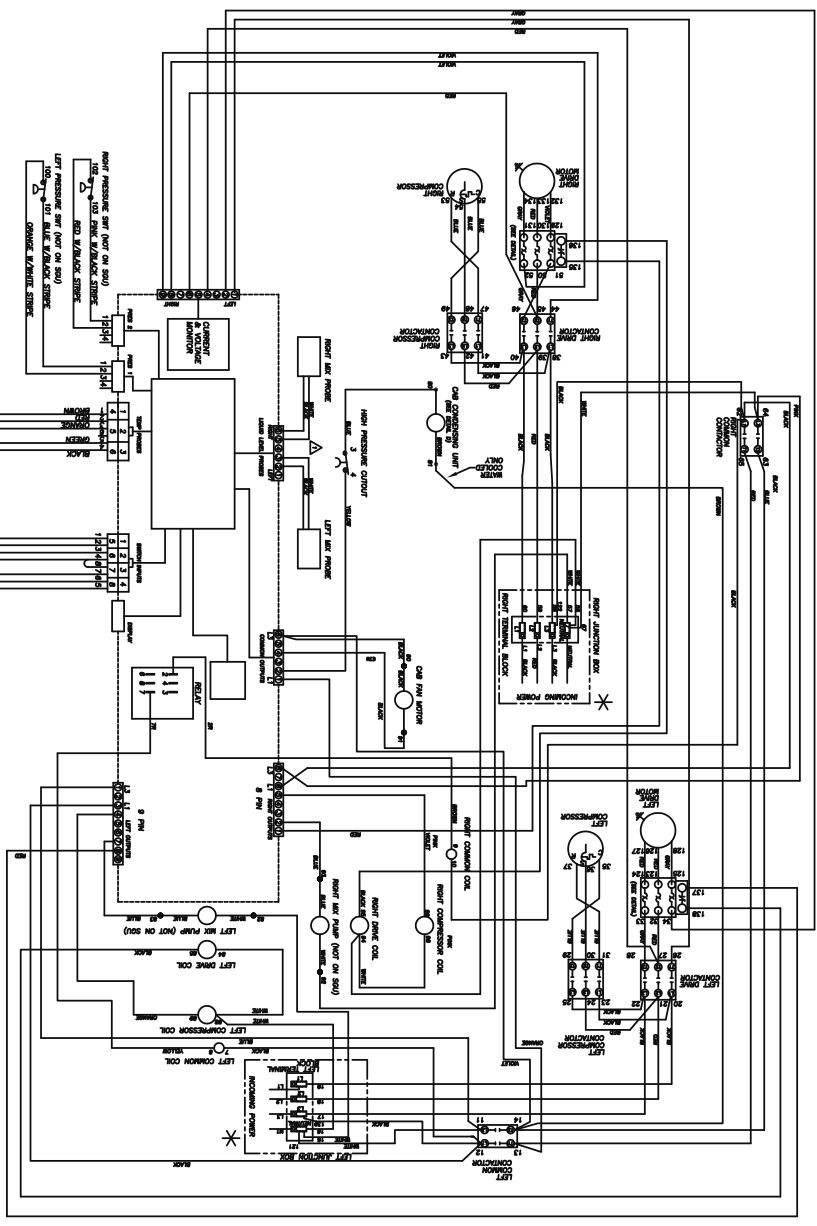
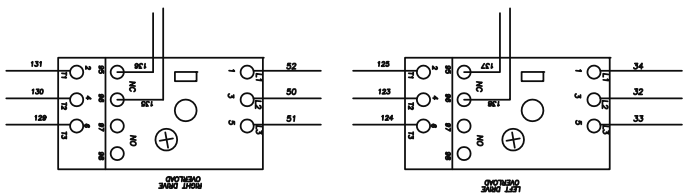
Wiring diagram showing a fan motor connection with terminals 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.



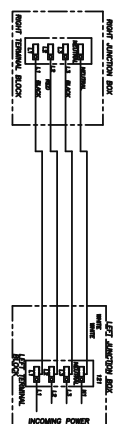
**CAUTION**

DISCONNECT POWER SUPPLY BEFORE SERVICING

2203548-WD

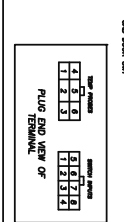
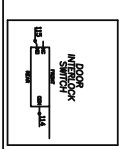
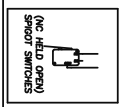
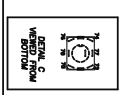
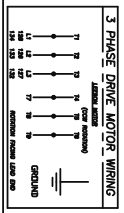
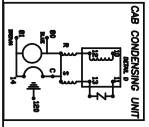


380-415 VAC 3 PHASE 50HZ.



\*NOTE FIELD OPTION FOR COMBINING BOTH POWER SUPPLIES.

1	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
2	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
3	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
4	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
5	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
6	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
7	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
8	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
9	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
10	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
11	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
12	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
13	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
14	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
15	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
16	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
17	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
18	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
19	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
20	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
21	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
22	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
23	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
24	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
25	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
26	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
27	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
28	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
29	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
30	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
31	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
32	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
33	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
34	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
35	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ
36	380-415 VAC 3 PHASE 50HZ	380-415 VAC 3 PHASE 50HZ

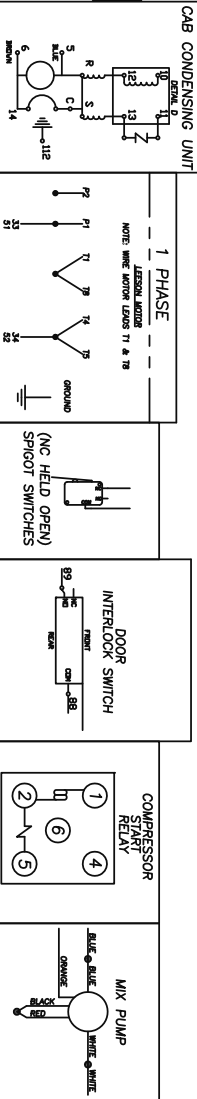
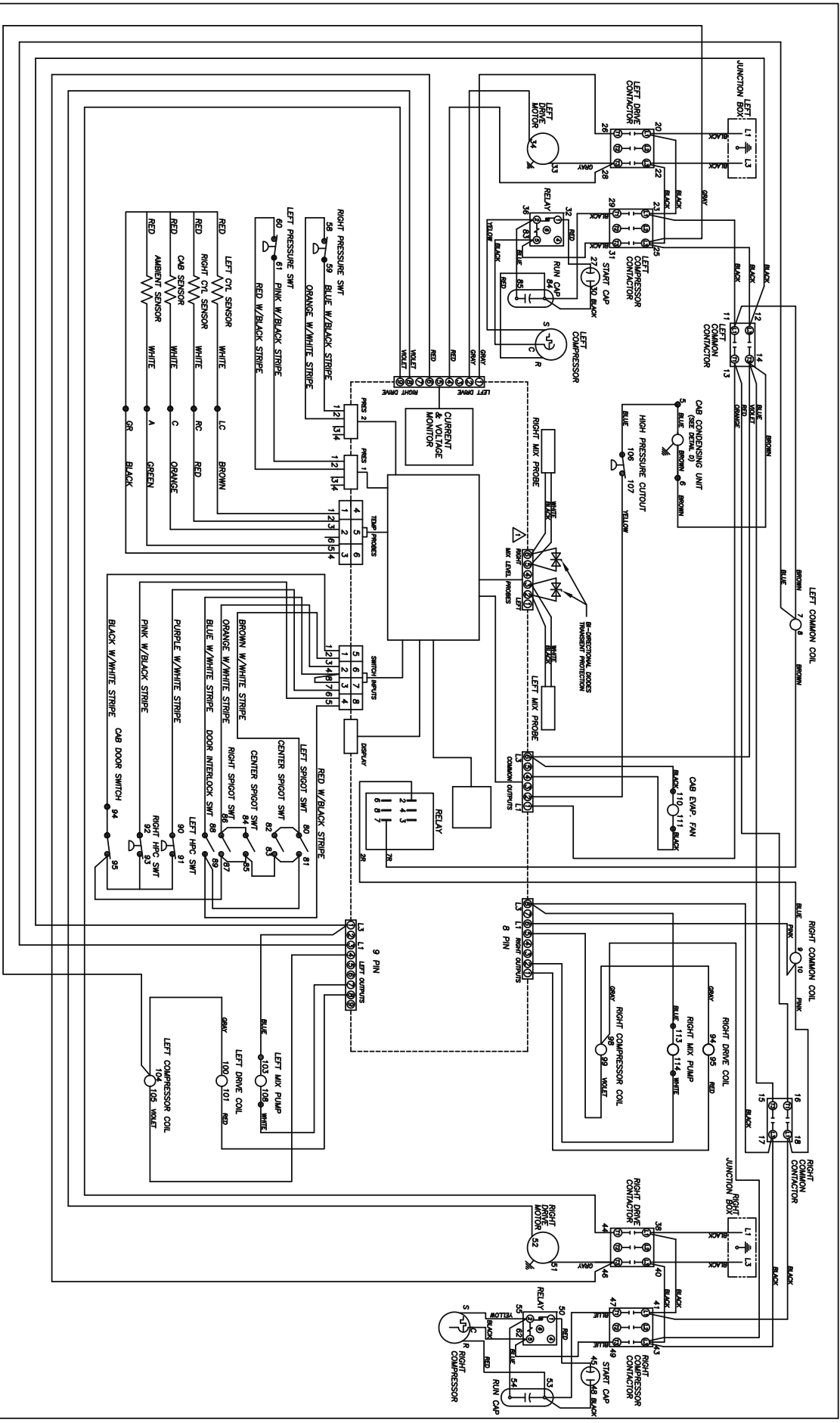


2203552 - WD

**CAUTION**  
DISCONNECT POWER SUPPLY BEFORE SERVICING

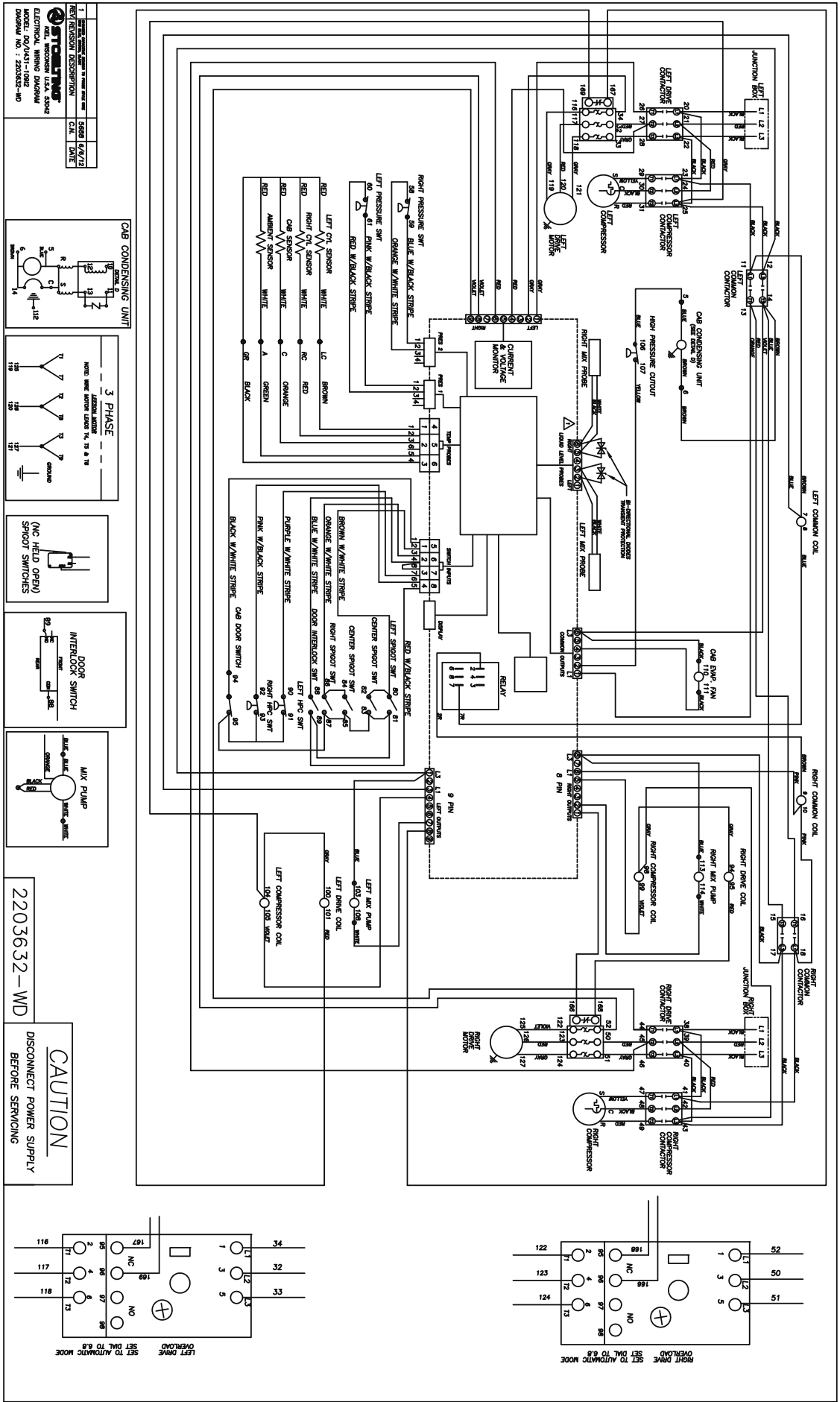


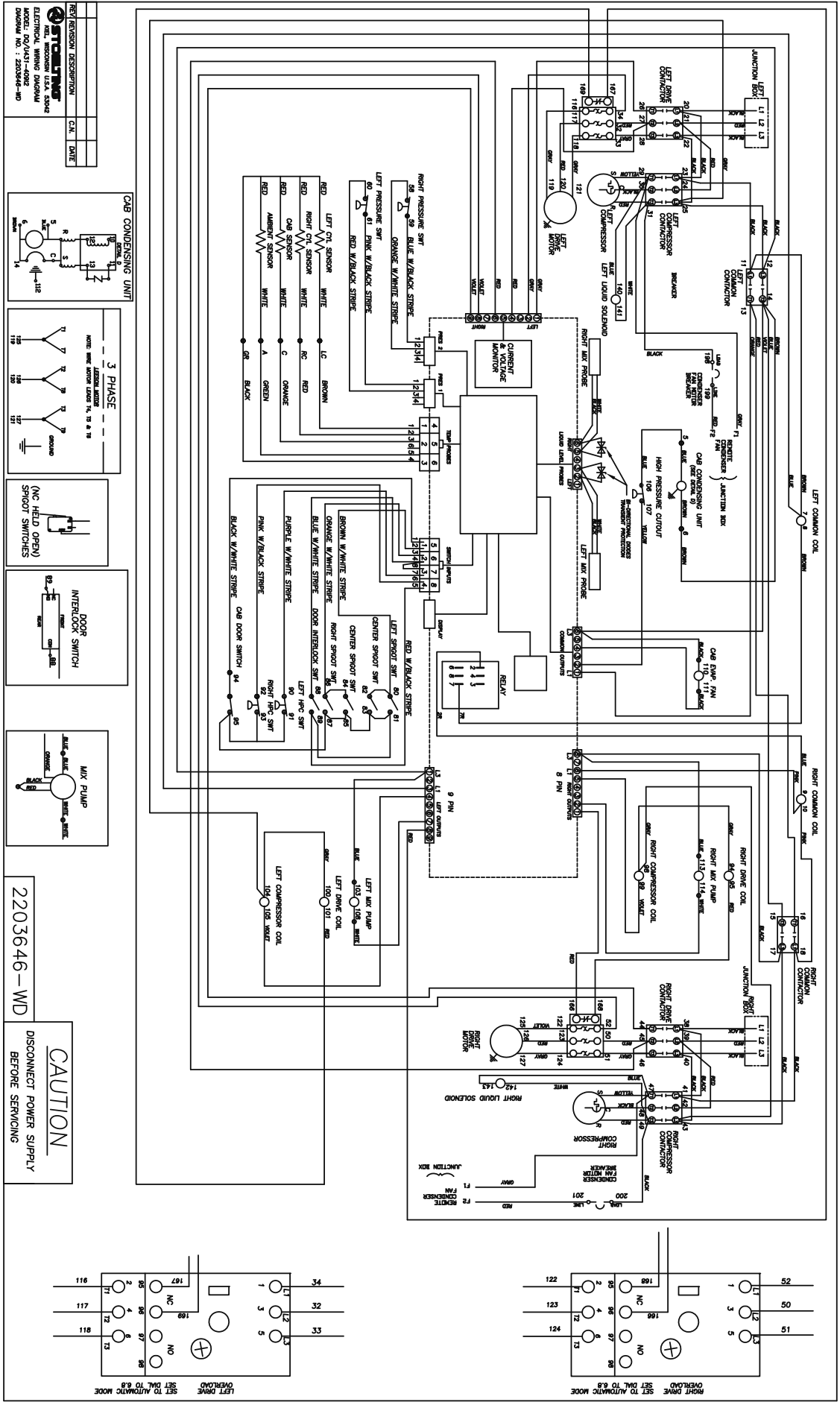
1	REVISED	DATE	5688	9/9/12
<b>STORING</b> ELECTRICAL WIRING DIAGRAM MODEL: DC/431-1B2 DIAGRAM NO.: 2203563-WD				



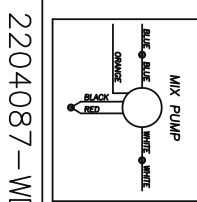
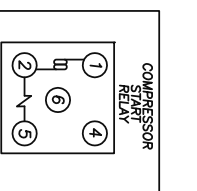
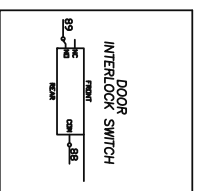
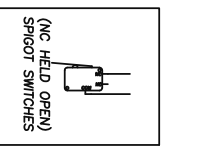
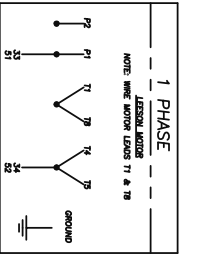
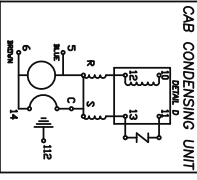
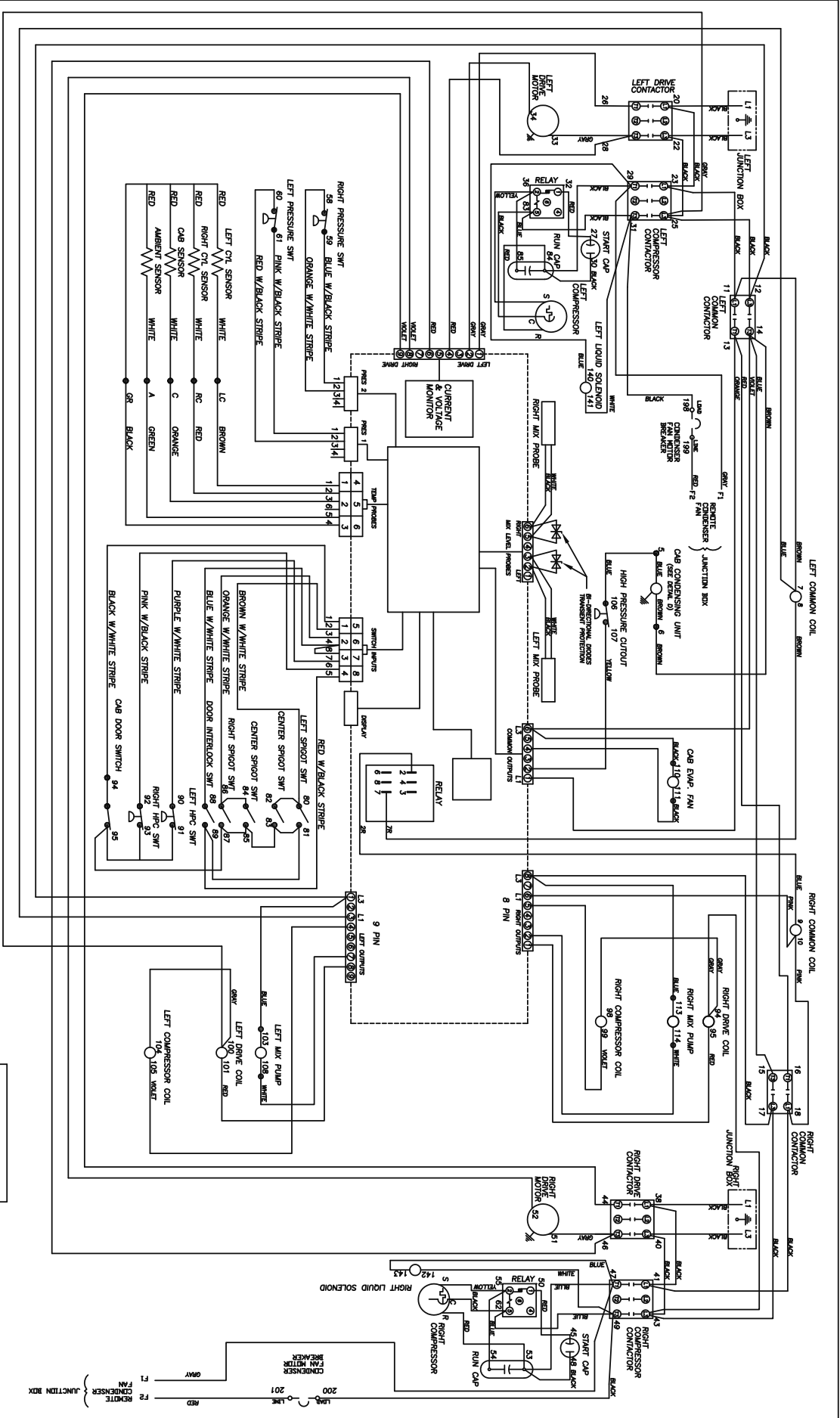
2203563-WD

**CAUTION**  
DISCONNECT POWER SUPPLY BEFORE SERVICING

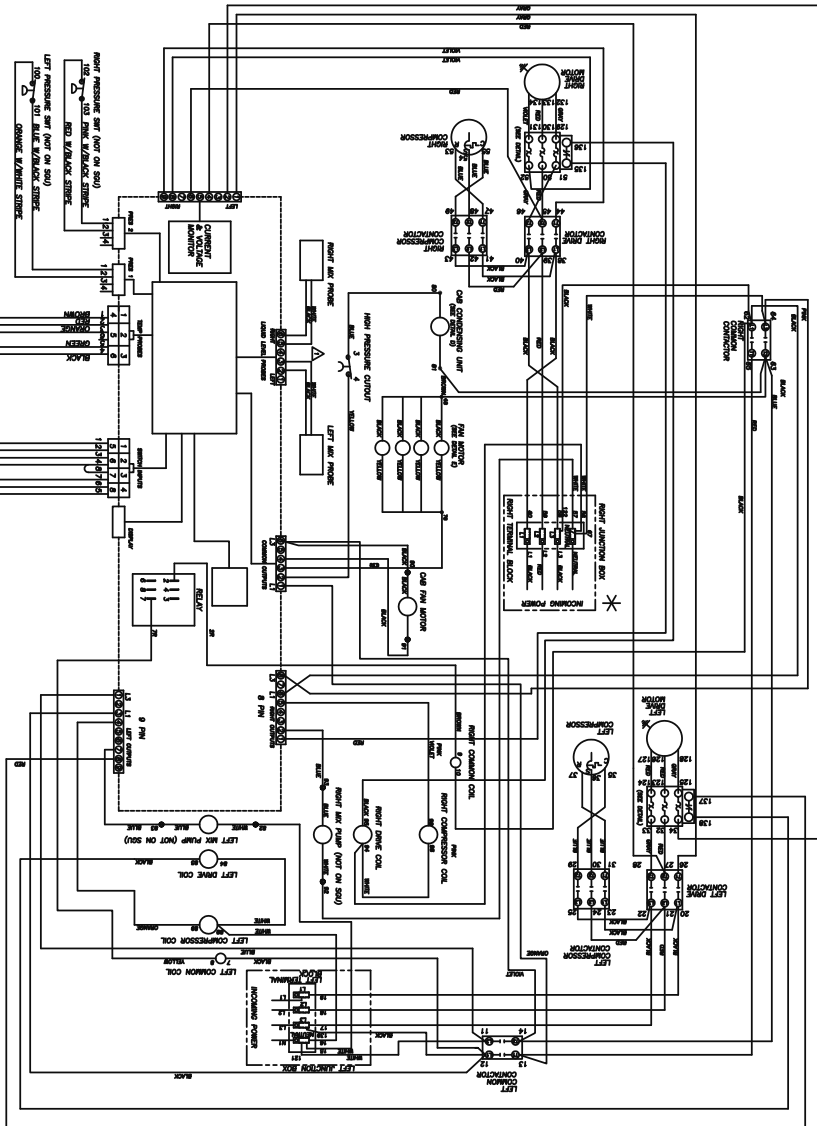
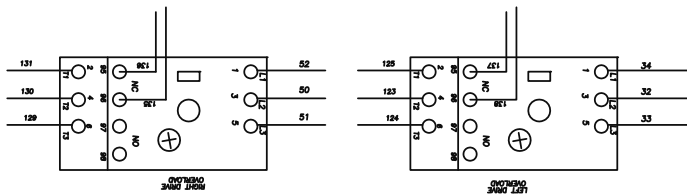




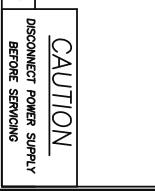
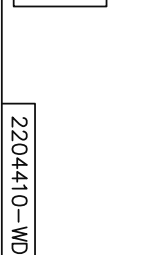
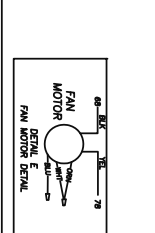
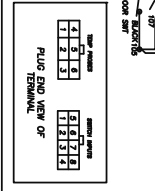
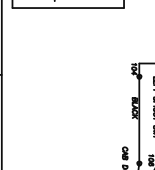
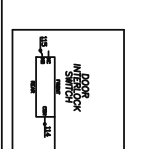
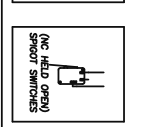
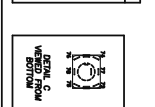
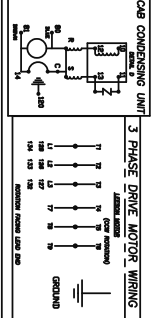
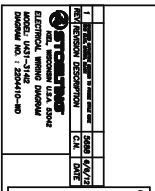
**STORJENSEN**  
ELECTRICAL WIRING DIAGRAM  
MODEL U43-488 POWER-482  
DIAGRAM NO. : 2204087-WD



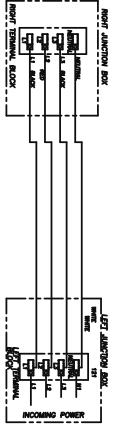
**CAUTION**  
DISCONNECT POWER SUPPLY BEFORE SERVICING



380-415 VAC 3 PHASE 50HZ



NOTE FIELD OPTION FOR COMBINING BOTH POWER SUPPLIES.



**CAUTION**  
DISCONNECT POWER SUPPLY  
BEFORE SERVICING

2204410-WD

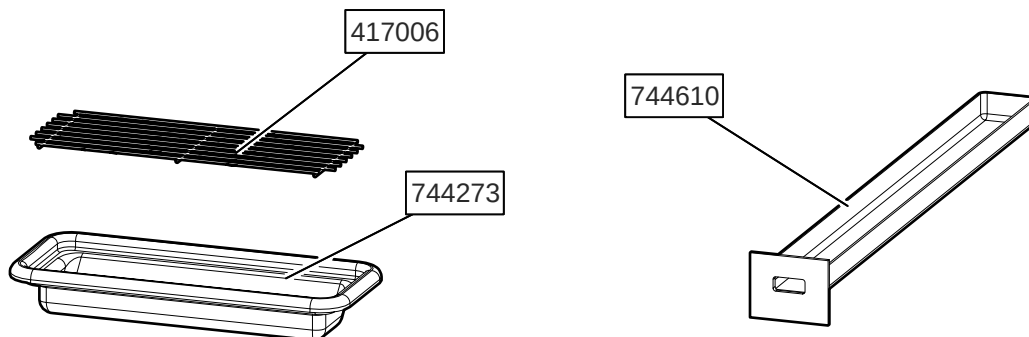


## SECTION 3 REPLACEMENT PARTS

### 3.1 BRUSHES, DECALS AND LUBRICATION

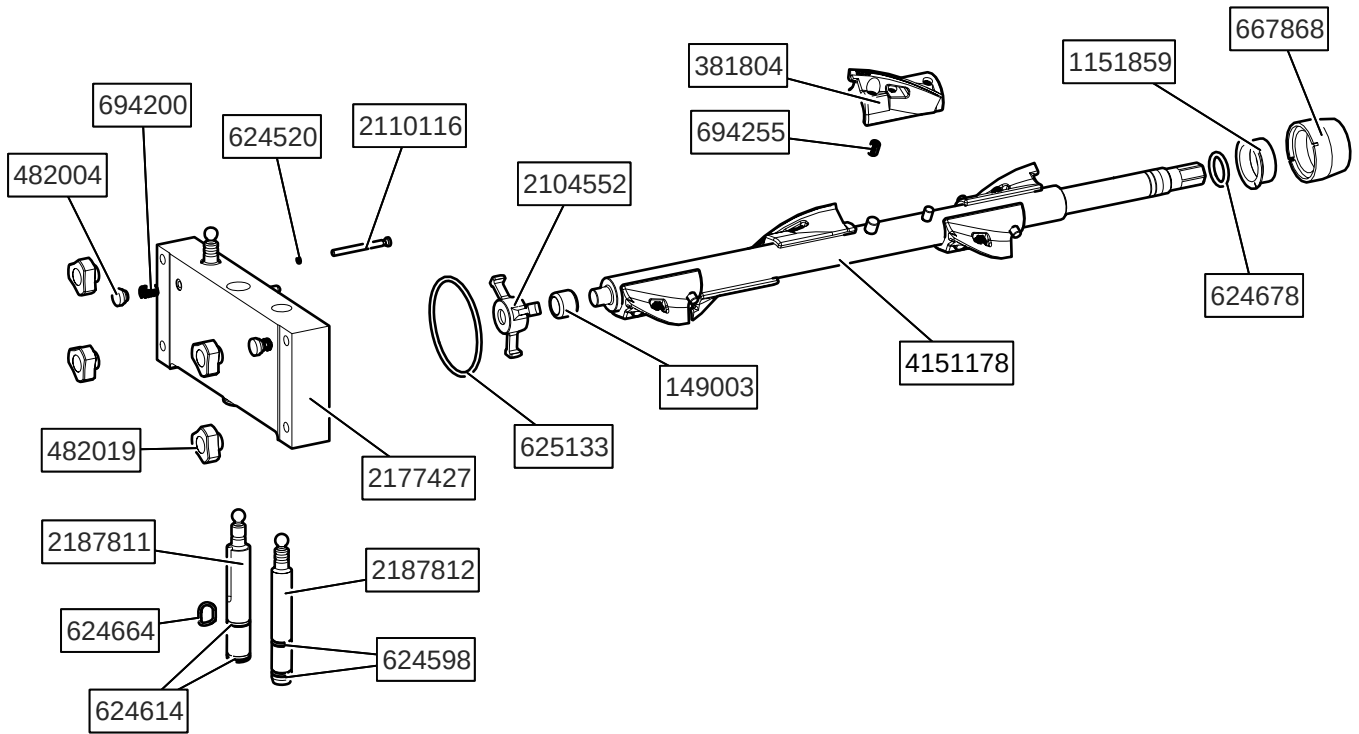
Part Number	Description	Quantity
C-1000-26C	Decal - Made In USA	1
208135	Brush - 4" X 8" X 16" (Barrel)	1
208380	Brush - 1/4" X 3" X 14"	1
208387	Brush - 1/2" X 5" X 24"	1
208465	Brush - 1" X 3-1/2" X 18"	1
208467	Brush - 3/8" X 1" X 5"	1
324065	Decal - Water Inlet	1
324103	Decal - Caution Rotating Shaft	1
324105	Decal - Caution Electrical Shock	1
324106	Decal - Caution Electrical Wiring Materials	1
324107	Decal - Caution Hazardous Moving Parts	1
324125	Decal - Danger Electric Shock Hazard	1
324141	Decal - Caution Rotating Blades	1
324200	Decal - High Pressure Cut-Out	1
324208	Decal - Attention Refrigerant Leak Check	1
324346	Decal - Caution Hazardous Moving Parts	1
324393	Decal - Stoelting Swirl Logo	1
324509	Decal - Cleaning Instructions	1
324548	Decal - Adequate Ventilation 6"	1
324566	Decal - Wired According To	1
324686	Decal - Danger Automatic Start	3
324803	Decal - Domed Stoelting Logo (Large) (Header Panel)	1
324887	Decal - Boost Transformer	1
324901	Decal - Transformer Switch	1
324909	Decal - USB Port	1
508048	Lubricant - Spline (2 oz Squeeze Tube)	1
508135	Petrol Gel - 4 oz Tube	1
513660	Manual - Owner's	1

### 3.2 TRAYS



Part Number	Description	Quantity
417006	Grid - Drip Tray (Vinyl Coated Metal)	1
744272	Tray - Drain (Cabinet)	1
744273	Tray - Drip	1
744610	Tray - Drain w/Magnet	1
744614	Condensate Pan (Under Cab)	1

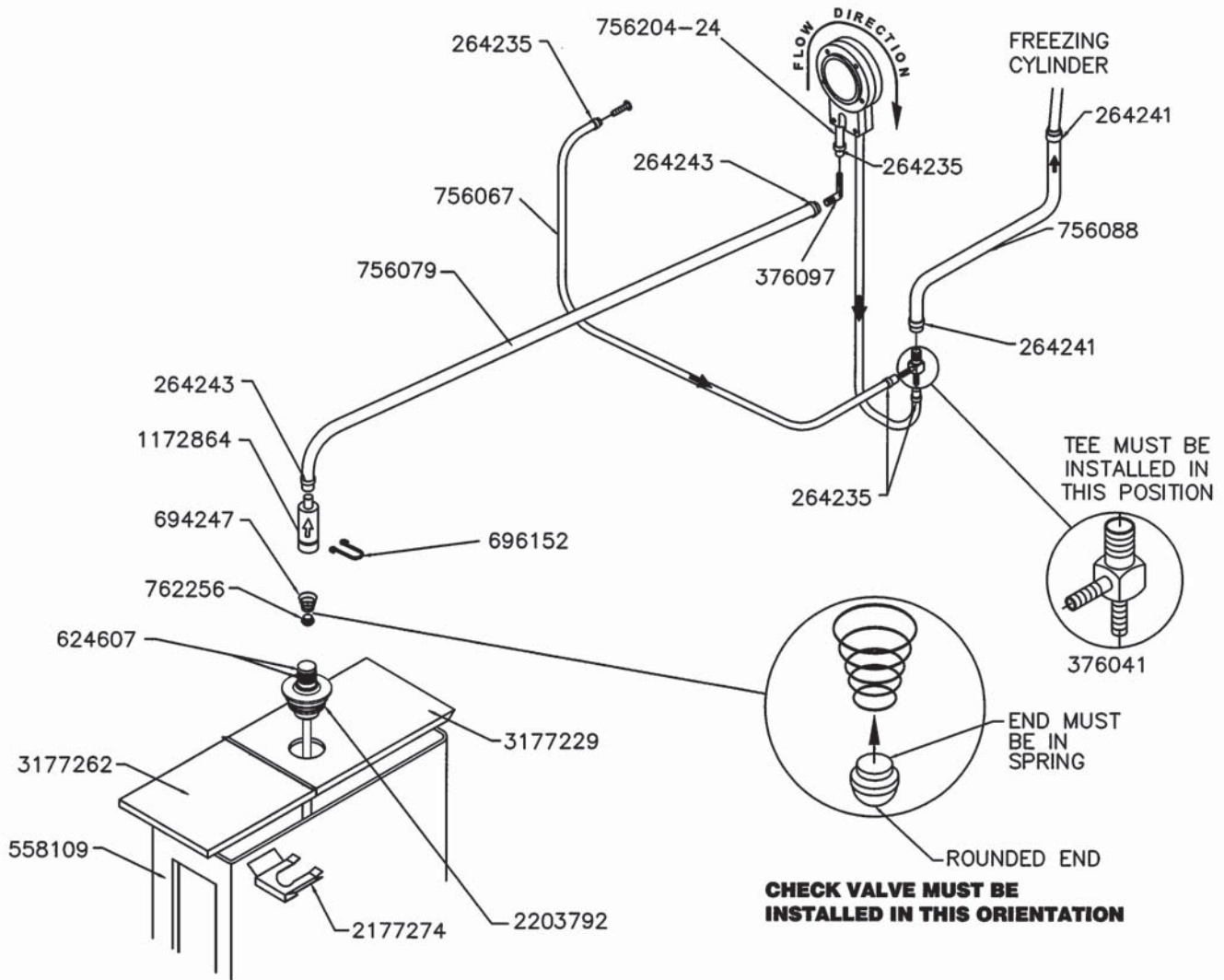
### 3.3 AUGER SHAFT AND FACEPLATE PARTS



Part Number	Description	Quantity
149003	Bushing - Front Auger Support	2
381804	Auger Flight	12
482004	Knob (Air Bleed Valve)	3
482019	Knob - Front Door (Black)	4
482056	Knob - Door (Stainless Steel) (50 Hz)	4
624520	O-Ring - Air Bleed Valve - Black	2
624598	O-Ring - Outside Spigot - Black	4
624614	O-Ring - Top & Bottom Center Spigot - Black	2
624664	O-Ring - Middle Center Spigot - Black	1
624678	O-Ring - Rear Seal - Black	4
625133	O-Ring - Front Door - Black	2
667868	Seal - Rear Auger (Orange)	2
694200	Spring - Air Bleed Valve	2
694255	Spring - Auger Flight	12
1151859	Adapter - Rear Seal (Code 1) (Ser. #3899812HB Plus)	2
2104552	Support - Front Auger	2
2110116	Valve - Air Bleed	2
2177427	Front Door	1
2187811	Spigot Body - Center	1
2187812	Spigot Body - Outer	2
2187880	Adapter - Rear Seal (Two O-Ring Style) (Ser. #0 - #3899712HB)	2
2202179	Auger Shaft (Ser. #0 - #3899712HB)	2
2202927	Door - Front w/Pins (50 Hz)	1
4151178	Auger Shaft (Ser. #3899812HB Plus)	2



### 3.4 CAB TUBING

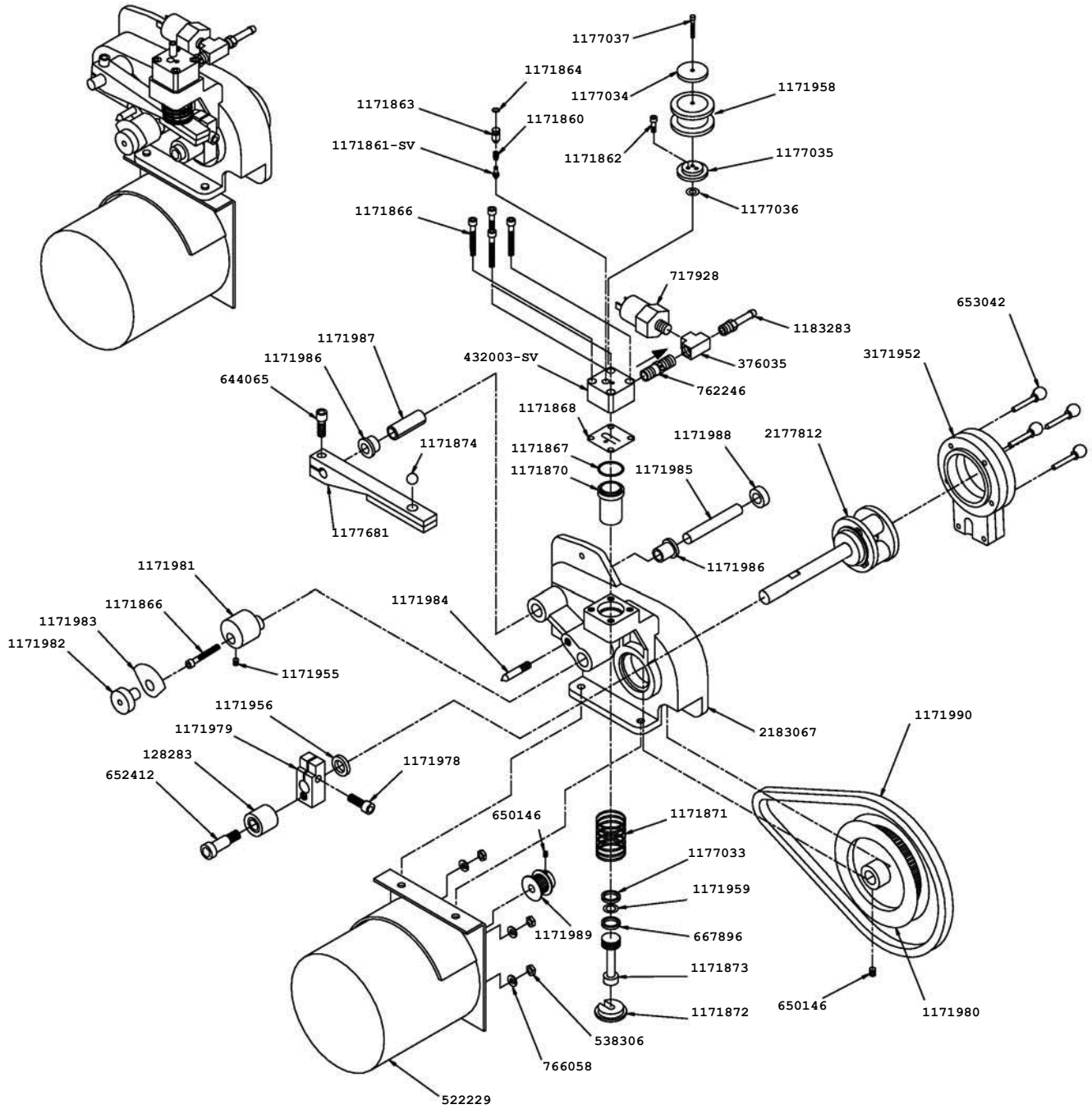


Part Number	Description	Quantity
264235	Clamp - Metal (1/4" ID Tubing)	8
264241	Clamp - Metal (1/2" ID Tubing)	8
376041	Tee Connector - 3-Way (Stainless)	2
376097	Elbow - Barbed (1/2" - 1/4")	2
558109	Mix Container Only	2
624607-5	O-Ring - Check Valve Body - Black (5 Pack)	4
694247	Spring - Check Valve	2
696152	Clip - Lock (Check Valve)	2
756067	Tubing - 1/4" ID - Clear - Air Line (25' Increments) (Per Inch)	9"(2)
756088	Tubing - 1/2" ID - Clear - Mix Line (25' Increments) (Per Inch)	24"(2) and 4"(2)
756204	Tubing - 1/4" ID - Pump (50' Box Only) (Per Inch)	-
756204-24	Tubing - 1/4" ID - Pump (Pre-Cut 24" Piece)	4
762256	Check Valve - Mix Outlet	2
1172864	Check Valve - Mix In Line (Outer)	2
2177274	Clip - Retaining (Mix Probe To Cover)	2
2203792	Pick-Up Tube - Mix	2
3177229	Cover - Rear (Mix Container)	2
3177262	Cover - Front (Mix Container)	2

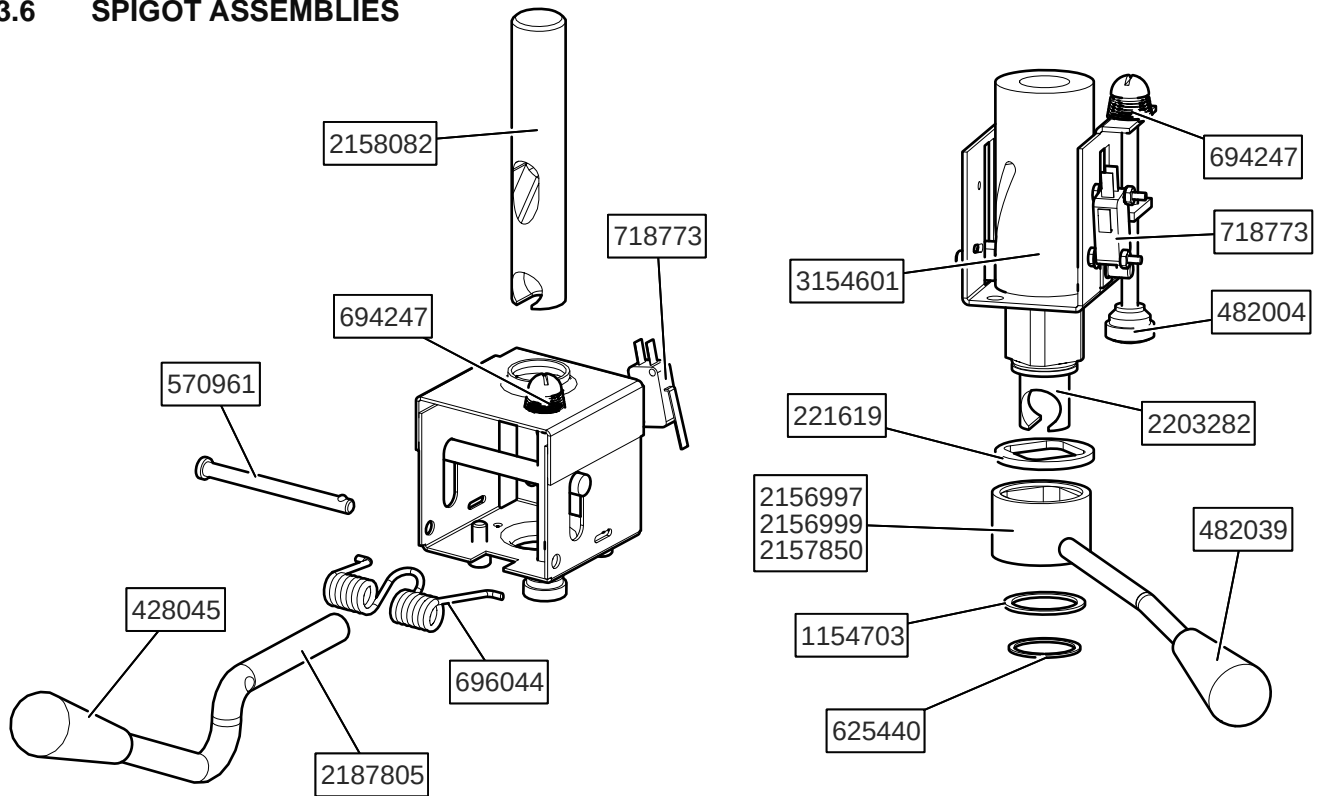
### 3.5 PUMP PARTS

Part Number	Description	Quantity
128283	Crank Arm Roller Assy (Requires #652412)	2
376035	Tee Connector - Air Pressure Switch (Cab)	2
432003-SV	Valve Head Only w/Tubes (Pump) (Cab)	2
522229	Motor - Pump (Cab)	2
538306	Nut - Motor Mounting (Cab)	8
644065	Screw - Rocker Arm (Cab)	2
650146	Set Screw - Pulley (Cab)	2
652412	Screw - Shoulder (Crank Arm Roller Assembly) (Cab)	2
653042	Screw - Thumb (Cover Clamp) (Cab)	8
667896	Seal - Bumper (Piston) (Pump) (Cab)	2
717928	Switch - Pressure (Pump) (Cab)	1
762246	Check Valve - Air Line (Stainless) (Cab)	2
766058	Washer - Lock - Motor Mounting (Cab)	8
1171860	Spring - Check Valve (Pump) (Cab)	2
1171861-SV	Needle Valve w/O-Ring (Pump) (Cab)	2
1171862	Screw - Air Filter Retainer (Cab)	2
1171863	Valve Guide (Pump) (Cab)	2
1171864	O-Ring - Needle Valve (Pump) (Cab)	2
1171866	Screw - Valve Head (Cab)	10
1171867	O-Ring (Pump Cylinder Sleeve) (Cab)	2
1171868	Reed Valve (Pump) (Cab)	2
1171870	Cylinder Sleeve (Pump) (Cab)	2
1171871	Spring - Piston (Cab)	2
1171872	Piston Spring Seat (Cab)	2
1171873	Piston (Pump) (Cab)	2
1171874	Ball Bearing - Single (Pump Rocker Arm) (Cab)	2
1171955	Set Screw - Eccentric (Cab)	2
1171956	Washer - Crank Arm - Nylon (Cab)	2
1171958	Filter - Air (Pump) (Cab)	2
1171959	O-Ring (Piston) (Pump) (Cab)	2
1171978	Screw - Crank Arm (Cab)	2
1171979	Crank Arm (Cab)	2
1171980	Pulley - Large (Pump) (Cab)	1
1171981	Eccentric (Cab)	2
1171982	Knob - Crank Arm Overrun Setting (Cab)	2
1171983	Dial - Crank Arm Overrun Setting (Cab)	2
1171984	Pointer - Crank Arm Overrun Setting (Cab)	2
1171985	Dowel Pin - Rocker Arm (Cab)	2
1171986	Flange Bearing - Rocker Arm (Cab)	4
1171987	Wick - Rocker Arm (Cab)	2
1171988	Collar - Rocker Arm Dowel Pin (Cab)	2
1171989	Pulley - Small (Cab)	2
1171990	Belt (Pump) (Cab)	1
1177033	Bumper Ring (Piston) (Pump) (Cab)	2
1177034	Air Filter Retainer - Top (Cab)	2
1177035	Air Filter Retainer - Bottom (Cab)	2
1177036	Washer - Air Filter Retainer (Cab)	2
1177037	Screw - Air Filter (Cab)	2
1177681	Rocker Arm (Cab)	2
2177812	Roller Carrier Assembly Kit (Cab)	-
2183067	Pump Body Casting (Cab)	2
2187698	Pump Assembly w/Motor (Cab)	2
3171952	Cover - Clamp (Two Piece Black) (Cab)	2

### 3.5 PUMP PARTS (CONTINUED)

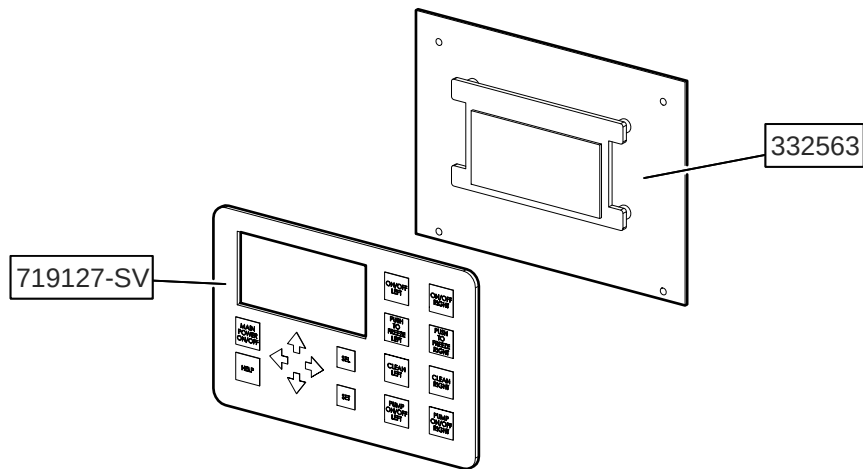
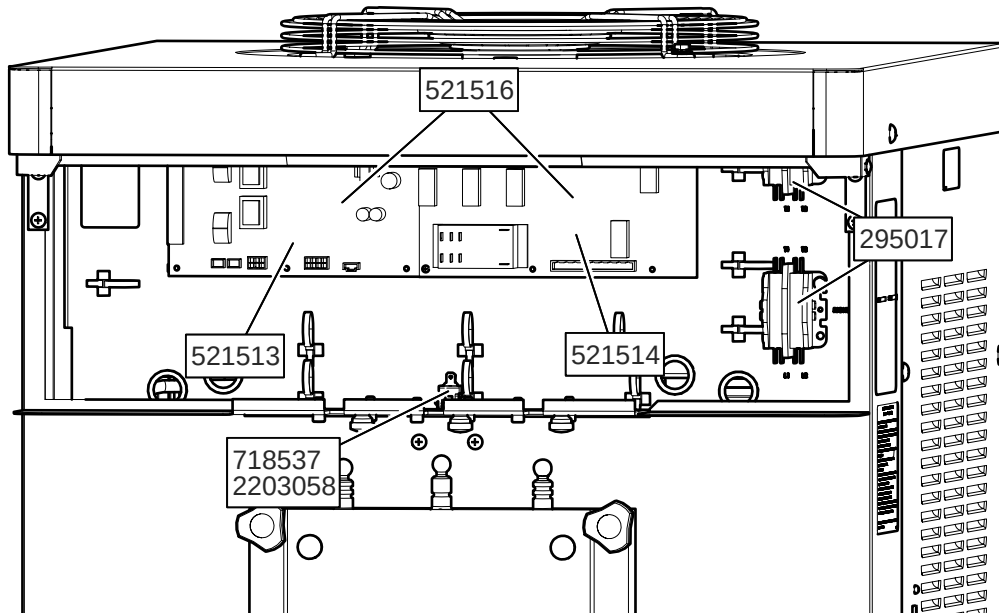


### 3.6 SPIGOT ASSEMBLIES



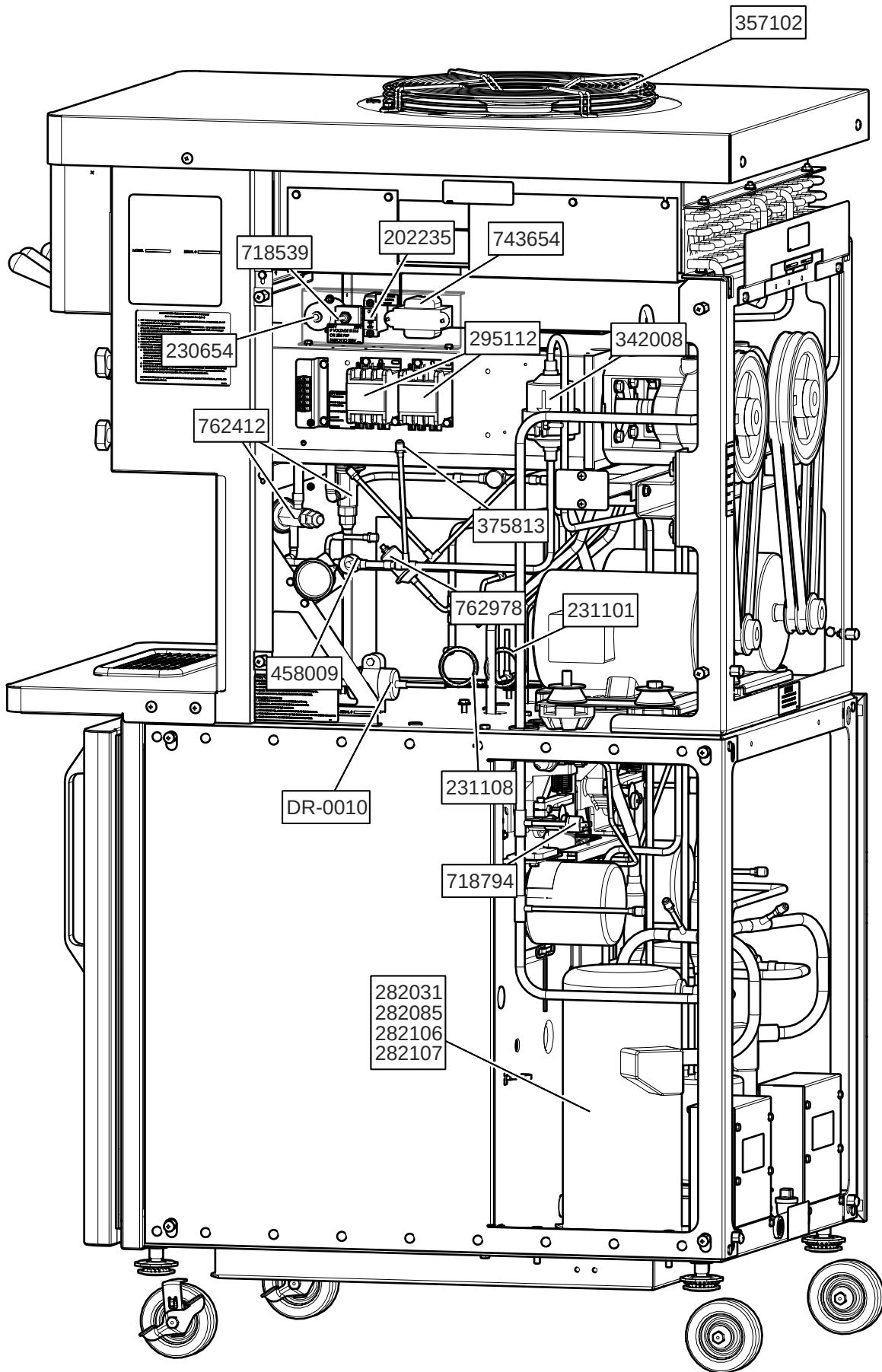
Part	Description	Quantity
221619	Bushing - Spacer (Spigot Handle)	3
428045	Knob - Spigot Handle (Black)	3
428081	Handle Assembly - L.H. (27°)	1
428082	Handle Assembly - R.H. (27°)	1
428083	Handle Assembly - Center (27°)	1
482004	Knob (Dispense Rate Adjustment)	3
482039	Knob - Spigot Handle (Gate Style)	3
570961	Pin - Cotterless Clevis (Spigot Handle)	3
625440	Retaining Ring - Spigot Handle	3
694247	Spring - Cone (Spigot Cam)	3
696044	Spring - Torsion (Spigot Handle)	3
718773	Switch - Limit (Spigot)	4
1154703	Washer (Spigot Handle)	3
2156997	Handle Weldment - Center	1
2156999	Handle Weldment - Left	1
2157850	Handle Weldment - Right	1
2158082	Glide - Spigot Socket	3
2187805	Handle - Spigot (Handle Only)	3
2203282	Adapter - Spigot / Cam Adapter Socket	3
2203653	Cam Assembly - Spigot (Gate Style) (Left)	1
2203654	Cam Assembly - Spigot (Gate Style) (Right)	1
2203655	Cam Assembly - Spigot (Gate Style) (Center)	1
3154601	Spigot Cam	3

### 3.7 ELECTRICAL



Part	Description	Quantity
229148	Cable - IntelliTec2 (Control Board to Display Board)	1
229158	USB Cable Extension	1
295017	Contactor (45CG20AG) (IntelliTec2)	2
332563	Board - Display Module (Display Only)	1
521513	Board - Program / Power (IntelliTec2)	1
521514	Board - Relay (IntelliTec2)	1
521516	Board - Program / Relay (IntelliTec2)	1
610038	Diode (IntelliTec2)	2
718537	Switch - Limit (Door Safety)	1
719127-SV	Switch - Membrane Strip (Touchpad & Ribbon)	1
2203058	Switch Assembly - Door Interlock	1

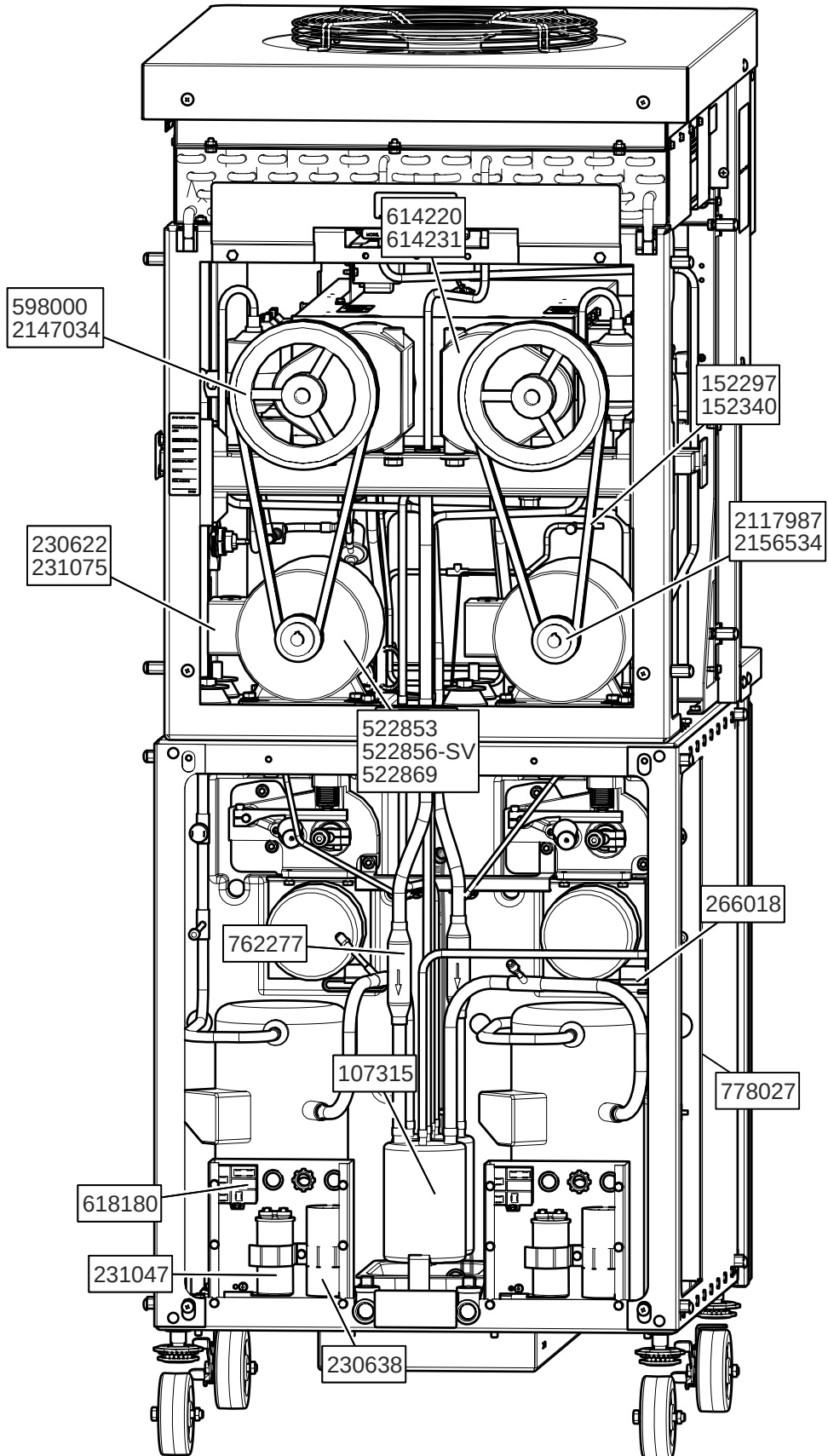
3.8 SIDE VIEW



### 3.8 SIDE VIEW (CONTINUED)

Part	Description	Quantity
DR-0010	Drier - Filter (1/4" OD) (Cab Condenser)	1
202235	Circuit Breaker	1
230654	Capacitor (Fan Motor)	1
231101	Cap Tube Only (Mix Line) (Cab)	1
231108	Cap Tube Only (Cab)	1
282031	Compressor 3 PH, 380V/480V, 50 Hz	2
282085	Compressor - 3 PH - 50 Hz	2
282106	Compressor - 1 PH - 60 Hz	2
282107	Compressor - 3 PH - 60 Hz	2
284082	Condenser (Air-Cooled) (50 Hz)	1
284104	Condenser (Water-Cooled)	1
284107	Condenser (Air-Cooled)	1
285073	Condenser (Cab)	1
295112	Contactora - Compressor / Drive (42BE35AG)	4
342008	Drier (Liquid Line)	2
357102	Motor - Fan (Air-Cooled Condenser) (Includes Blade & Guard)	1
368102	Filter - Air (Air-Cooled Condenser) (50 Hz)	1
368452	Filter (Air-Cooled Condenser)	1
375813	Access Valve Fitting (Mix Line) (Cab)	7
375888	Y - Connector - Barbed Fitting (Water-Cooled)	2
458009	Sight Glass	2
618231	Relay - Overload (#522869 & #522853 Drive Motor)	2
718539	Switch - Toggle (Transformer Voltage Selector)	1
718686	Switch - Pressure (High Pressure Cutout) (Cab)	1
718794	Switch - High Pressure Cutout	2
743654	Transformer - Booster	1
762412	Valve - Expansion (Sporlan) (Ser. #41711 Plus)	2
762978	Valve - EPR (Cab)	1
763181	Valve - Water	1
2202872	Evaporator Assembly (50 Hz)	1
2203395	Evaporator Assembly (DQ / Gate Style Handle)	1
2203607	Evaporator Assembly (Non DQ)	1

3.9 REAR VIEW





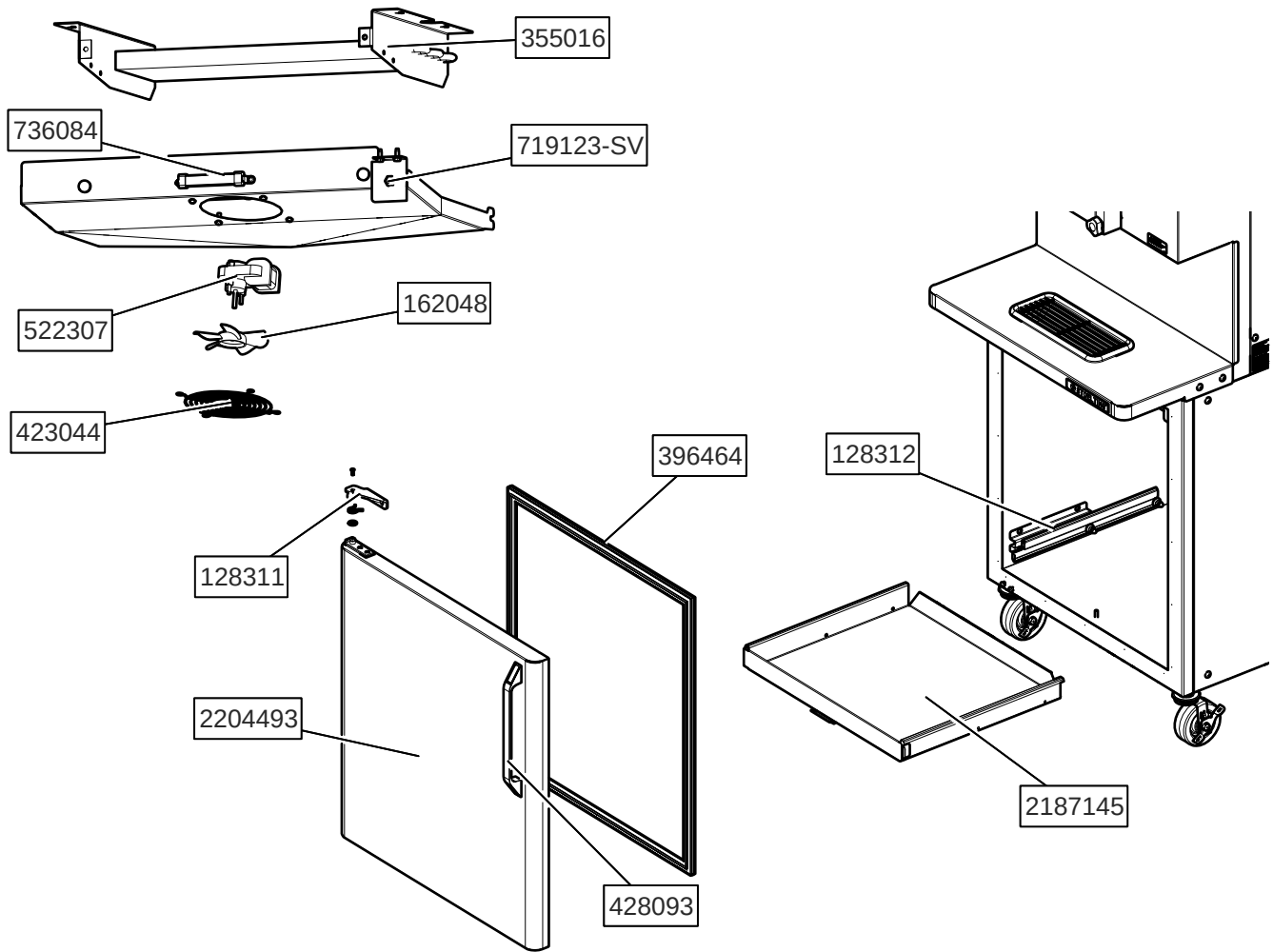
### 3.9 REAR VIEW (CONTINUED)

Part	Description	Quantity
107315	Accumulator	2
152297	Belt - Smooth (A37KC) (60 Hz)	4
152340	Belt - Gripnotch (AX41) (Each) (All 50 Hz)	4
230622	Capacitor - Start (#522856 Motor)	2
230638	Capacitor - Start (#282082 Compressors)	2
231047	Capacitor - Run (#282082 Compressor)	2
231075	Capacitor - Run (#522856 Motor)	2
266018	Clip - "J" (Hose Holder) (Cab)	2
522853	Motor - Drive (3 PH, 380V-415V, 50 Hz)	2
522856-SV	Motor - Drive (1 PH)	2
522869	Motor - Drive (2 HP, 3 PH, 208V / 230V, 60 Hz)	2
598000	Pulley - Speed Reducer (50 Hz)	2
614220	Speed Reducer	2
614231	Speed Reducer (50 Hz)	2
618180	Relay (#282082 Compressor)	2
762275	Valve - Magna Check (Air-Cooled Remote)	2
762277	Valve - Magna Check	2
778027	Wrench - Allen (Cab)	2
2117987	Pulley - Drive Motor (60 Hz)	2
2147034	Pulley - Speed Reducer	2
2156534	Pulley - Drive Motor (All 50 Hz)	2

### 3.10 CONDENSERS

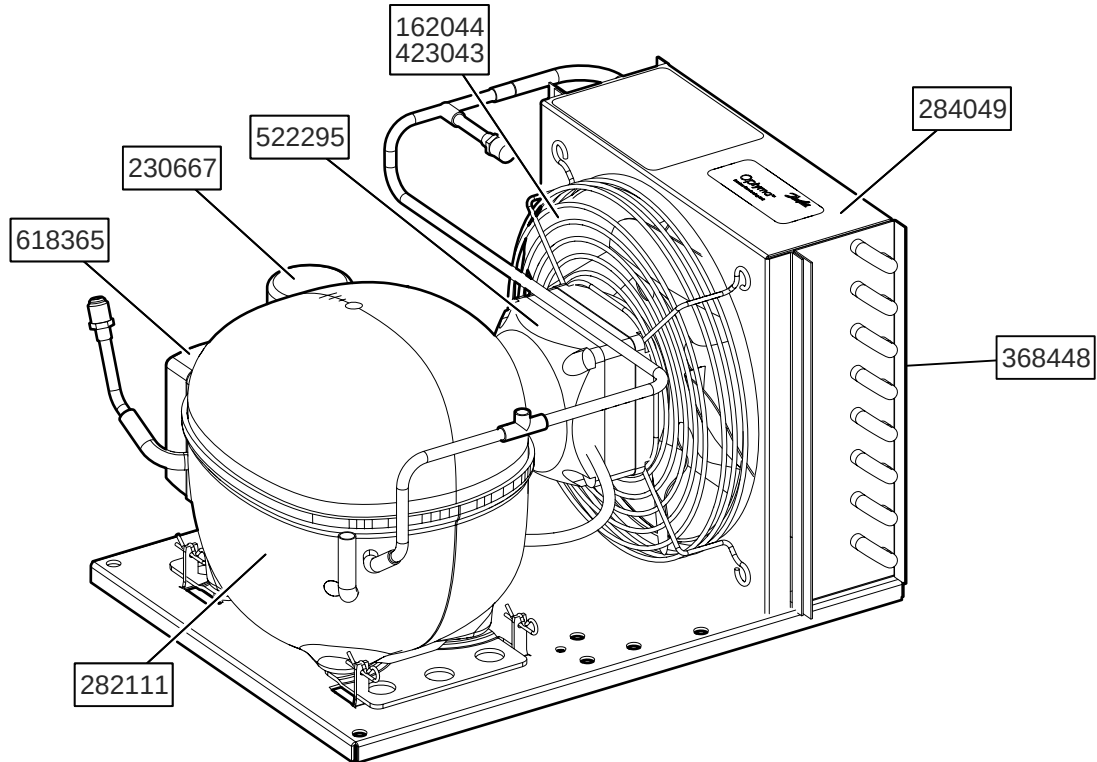
Part	Description	Quantity
162067	Blade - Fan (Air-Cooled Condenser) (50 Hz)	-
284106	Condenser - Air-Cooled Remote	1
450462	Flex Line Set (3/8" x 8')	-
450463	Flex Line Set (1/2" x 8')	-
495002	Line Set (35 ft.)	-
522833	Motor - Fan (Air-Cooled Condenser) (50 Hz)	4
608010	Receiver (Air-Cooled Remote)	2
718065	Switch - Fan Cycling (Air Remote Condenser)	1
762599	Valve - Head Master (Air-Cooled Remote)	-
762604	Valve - Solenoid (Liquid Line) (Air-Cooled Remote Only)	2
762611	Valve - Ball (Air-Cooled Remote Only)	2
762612	Valve - Shut Off (Air-Cooled Remote Only)	2
2183465	Line Set (50 ft.)	-
2183859	Line Set - 50 ft. w/8 ft. Flex	-
2183860	Line Set - 35 ft. w/8 ft. Flex	-
2187002	Front Shroud (Air-Cooled Remote)	1

### 3.11 CABINET



Part	Description	Quantity
128311	Hinge - Door (Top & Bottom) (Cab)	1
128312	Mix Container Holder Assembly w/Rollers (Cab)	1
128312-2-SV	Bearings (For #128312) (4 Required) (Cab)	4
162048	Blade - Fan (Evaporator) (Cab)	1
264243	Clamp - Metal (3/8" ID Tubing) (Cab)	1
302045	Plug & Cord (Low Mix) (Cab)	2
355002	Evaporator (Triangle Shaped) (Cab)	1
355016	Evaporator (Low Profile) (Cab)	1
396464	Gasket - Door (Cab)	1
423044	Guard - Fan (Cab Evaporator)	1
428093	Handle - Cab Door (Cab) (#2204493) (50 Hz)	1
428094	Handle Insert - Cab Door (Cab) (#2204493) (50 Hz)	1
522307-SV	Motor - Fan (Evaporator Assembly) (60 Hz) (Cab)	1
719123-SV	Switch Only - Cab Door (Cab)	1
736084	Thermometer (Cab)	1
2183765	Handle - Door (Cab)	1
2187140	Door Assembly - Foamed (Cab)	1
2187145	Mix Container Holder (Cab)	1
2204493	Door Assembly - Foamed (Cab Door) (50 Hz)	1
2205085	Low Mix Straight Fitting (Nutrisa/Mexico)	2
2205094	Mix Container (Nutrisa/Mexico)	2
2205099	Mix Container Holder Assembly w/Rollers (Nutrisa/Mexico)	1

### 3.12 CABINET CONDENSING UNIT



Part Number	Description	Quantity
162044	Blade - Fan (#285073 Condensing Unit) (Cab)	1
230667	Capacitor - Start (#285073 Condensing Unit) (Cab)	1
282111	Compressor (#285073 Condensing Unit) (Cab)	1
284049	Condenser (#285073 Condensing Unit) (Cab)	1
285073	Condensing Unit (Cab)	1
368448	Filter - Air (#285073 Condensing Unit) (Cab)	1
423043	Guard - Fan (#285073 Condensing Unit) (Cab)	1
522295	Motor - Fan (#285073 Condensing Unit) (Cab)	1
618365	Relay - Start (#285073 Condensing Unit) (Cab)	1

### 3.13 KITS AND MISCELLANEOUS

Part Number	Description	Quantity
232734	Cap - Rosette	4
232739	Cap - Rosette - 8 Point (Nutrisa/Mexico)	-
236037	Card - Cleaning Instruction	1
244138	Caster - Non-Locking (4") (Each)	2
244139	Caster - Locking (4") (Each)	2
513660	Manual - Owner's	1
624677-5	O-Ring - Spigot Extension - Black (5 Pack)	-
636073	DVD - Start-Up & Cleaning	1
1158247	O-Ring & Bearing Kit	-
1177436	Air Compressor Kit (Reed Valve, Piston & Cylinder Sleeve) (Cab)	-
1177606	Check Valve Kit - Air Compressor (Reed Valve, Needle Valve, Valve Guide, O-Rings & Spring) (Cab)	-
2177072	Extension - Spigot - 1.5"	-
2177073	Extension - Spigot - 2.5"	-
2177074	Extension - Spigot - 3.2"	-
2177917	Brush Kit	-
2183464	Condenser Kit - Air-Cooled Remote	-
2205048	Extension - Spigot - 1" (Nutrisa/Mexico)	-
2203790	Sensor Probe Kit	-

### 3.14 PANELS & SCREWS

Part Number	Description	Quantity
647653	Screw - Panel (Header & Drip Tray Support)	-
647899	Screw - Panel (Side, Rear & Drip Tray Support Sides)	-
649114	Screw - Panel (Front)	-
2187133	Panel - Upper Back (Air-Cooled)	1
2187851-SV	Panel - Lower Back (50 Hz)	1
2202148-SV	Panel - Upper L.H. Side (50 Hz)	1
2202149-SV	Panel - Upper R.H. Side (50 Hz)	1
2202925	Panel - Upper Front Shroud (50 Hz)	1
2202935	Panel - Top (Water-Cooled)	1
2202936	Panel - Top (Air-Cooled) (60 Hz)	1
2202939-SV	Panel - Lower Side	1
2203401	Panel - Header (DQ / Gate Style Handle)	1
2203404-SV	Panel - Rear	1
2203405	Panel - Upper R.H. Side	1
2203406-SV	Panel - Upper L.H. Side	1
2203415	Panel - Front (Drip Tray Support)	1
2203608	Panel - Header (Non DQ)	1
2204374	Panel - Top (Air-Cooled) (50 Hz)	1
2204383	Panel - Upper Back (Water-Cooled) (50 Hz)	1
2204408	Air Grate - Top Panel (Air-Cooled) (50 Hz)	1



**DOMESTIC WARRANTY  
(Including Mexico)  
SOFT SERVE / SHAKE EQUIPMENT**

1. **Scope:**  
PW Stoelting, L.L.C. (“Stoelting”) warrants to the first user (the “Buyer”) that the freezing cylinders, hoppers, compressors, drive motors, speed reducers, and augers of Stoelting soft serve / shake equipment will be free from defects in materials and workmanship under normal use and proper maintenance appearing within five (5) years, and that all other components of such equipment manufactured by Stoelting will be free from defects in material and workmanship under normal use and proper maintenance appearing within twelve (12) months after the date that such equipment is originally installed.
  
2. **Disclaimer of Other Warranties:**  

**THIS WARRANTY IS EXCLUSIVE; AND STOELTING HEREBY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE.**
  
3. **Remedies:**  
Stoelting’s sole obligations, and Buyer’s sole remedies, for any breach of this warranty shall be the repair or (at Stoelting’s option) replacement of the affected component at Stoelting’s plant in Kiel, Wisconsin, or (again, at Stoelting’s option) refund of the purchase price of the affected equipment, and, during the first twelve (12) months of the warranty period, deinstallation/reinstallation of the affected component from/into the equipment. Those obligations/remedies are subject to the conditions that Buyer (a) signs and returns to Stoelting, upon installation, the Start-Up and Training Checklist for the affected equipment, (b) gives Stoelting prompt written notice of any claimed breach of warranty within the applicable warranty period, and (c) delivers the affected equipment to Stoelting or its designated service location, in its original packaging/crating, also within that period. Buyer shall bear the cost and risk of shipping to and from Stoelting’s plant or designated service location.
  
4. **Exclusions and Limitations:**  
This warranty does not extend to parts, sometimes called “wear parts”, which are generally expected to deteriorate and to require replacement as equipment is used, including as examples but not intended to be limited to o-rings, auger flights, auger seals, auger support bushings, and drive belts. All such parts are sold

**AS IS.**

Further, Stoelting shall not be responsible to provide any remedy under this warranty with respect to any component that fails by reason of negligence, abnormal use, misuse or abuse, use with parts or equipment not manufactured or supplied by Stoelting, or damage in transit.

**THE REMEDIES SET FORTH IN THIS WARRANTY SHALL BE THE SOLE LIABILITY STOELTING AND THE EXCLUSIVE REMEDY OF BUYER WITH RESPECT TO EQUIPMENT SUPPLIED BY STOELTING; AND IN NO EVENT SHALL STOELTING BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER FOR BREACH OF WARRANTY OR OTHER CONTRACT BREACH, NEGLIGENCE OR OTHER TORT, OR ON ANY STRICT LIABILITY THEORY.**