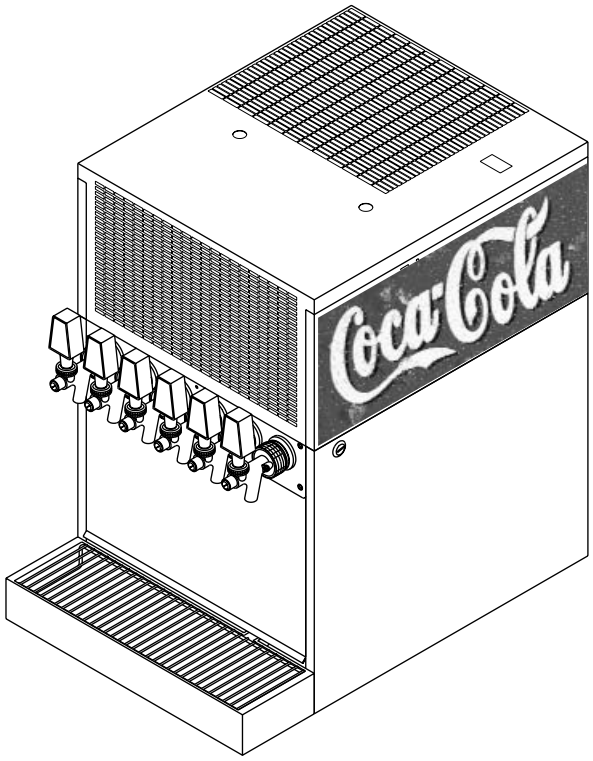
*Please refer to the Lancer web site (**www.lancercorp.com**) for information relating to Lancer Installation and Service Manuals, Instruction Sheets, Technical Bulletins, Service Bulletins, etc.*

INSTALLATION AND SERVICE MANUAL

FOR

DELTA II PRE-MIX

COUNTER ELECTRIC DISPENSER



This is an initial manual.

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SPECIFICATIONS

DIMENSIONS

Width	16 7/8 inches	(42.86 cm)
Depth	24 3/4 inches	(62.87 cm)
Height (without legs)	25 1/2 inches	(64.77 cm)

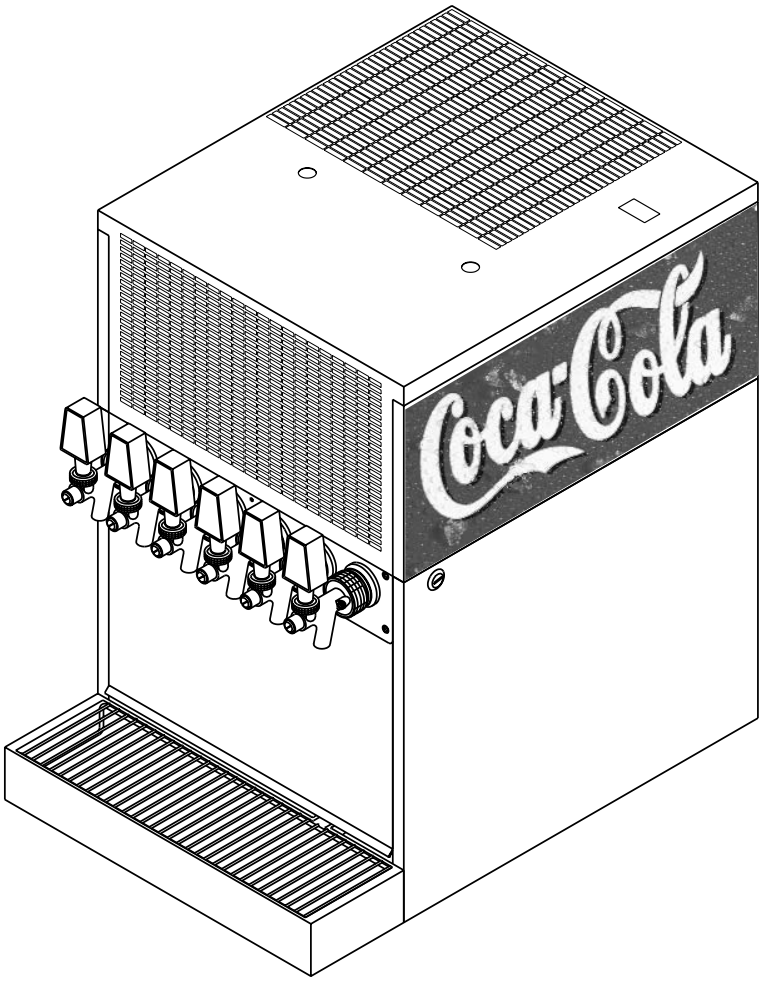
WEIGHT

Shipping	170 pounds	(77.1 kg)
Empty	146 pounds	(66.2 kg)
Operating	220 pounds	(99.8 kg)

ICE BANK WEIGHT	27 pounds (12.25 kg)
WATER BATH CAPACITY	10.87 gallons (41.15 liters)
COMPRESSOR	1/3 HP Tecumseh, 115V/60Hz
AGITATOR MOTOR	25W, 115V
CONDENSER MOTOR	9W, 115V
ICE BANK CONTROL	Lancer Electronic Ice Bank Control (EIBC)
TRANSFORMER	120V (Primary)/24V (Secondary)

Optional 220V/50Hz and 220V/60Hz systems available.

490 - 12 ounce drinks under 40°F (4.4°C) at two (2) drinks per minute with 75°F (23.9°C) ambient inlet product (pre-mix) using a 1/3 HP, 115V/60Hz refrigeration system.



1. INSTALLATION

1.1 RECEIVING

Each unit is completed tested under operating conditions and thoroughly inspected before shipment. At the time of shipment, the carrier accepts the unit and any claim for damages must be made with the carrier. Upon receiving unit from the delivering carrier, carefully inspect carton for visible indication of damage. If damage exists, have carrier note same on bill of lading and file a claim with the carrier.

1.2 UNPACKING

A. Cut band and remove.
B. Remove top portion of carton by lifting up.
C. Remove top inner carton pad and corners.
D. Remove accessory kit of loose parts from drip tray.
E. Lift Unit up by plywood shipping base and remove lower portion of carton.
F. Inspect unit for concealed damage. If evident, notify delivering carrier. File claim against same.
G. Remove splash plate, located under unit on shipping base.
H. Remove plywood shipping base from unit by moving unit so that one side is off the counter top or table allowing access to screws on the bottom of the plywood shipping base.

NOTE

If unit is to be transported, it is advisable to leave unit secured to plywood shipping base.

I. If Unit is to be installed with optional legs, assemble legs to unit by tilting unit. ***DO NOT LAY UNIT ON ITS SIDE OR BACK.***
J. Remove accessory kit of loose parts from drip tray.

1.3 SELECTING A COUNTER LOCATION

The dispenser is designed to sit on a flat supported surface capable of supporting a minimum weight of 250 pounds (113.6 kg). It may be either counter or leg mounted. When the dispenser is to be permanently bolted to the counter top, use Lancer Sealant Kit (PN 15-0010) to seal dispenser base to counter top.

NOTE

NSF listed units must be sealed to the counter or have four (4) inch legs installed.

CAUTION

FAILURE TO MAINTAIN PROPER AIR CLEARANCE WILL CAUSE THE COMPRESSOR TO OVERHEAT AND WILL RESULT IN COMPRESSOR FAILURE.

Locate dispenser to allow approximately eight (8) inches of unobstructed space above the unit for proper air circulation. Air is drawn in through the front grill and exhausted out of the top grill. The bonnet may be removed by lifting bonnet upward.

1.4 CONNECTING THE DRAIN

A. Remove cup rest. Lift splash plate up and pull out and down on the bottom to remove.
B. Remove the drip tray from the unit and connect the drain tube to the drain fitting located on the bottom. Secure drain tube with clamp provided in accessory kit.
C. Route the drain tube to a suitable drain and replace the unit's drip tray.

1.5 FILLING UNIT WITH WATER

A. Remove the bonnet from the unit.
B. Remove the yellow plastic plug from the unit's fill hole.

CAUTION

THE WATER BATH COMPARTMENT MUST BE FILLED WITH WATER BEFORE PLUGGING IN THE UNIT, OTHERWISE THE COMPRESSOR DECK AND CONDENSER FAN MAY NOT OPERATE PROPERLY.

C. Fill the water bath compartment with water until it flows out of the overflow tube into the drip tray. Use bottled drinking water where hard water problems exist. *Do not use distilled water in units*

which are equipped with electronic ice bank controls (EIBC).

D. Replace the yellow plug.

1.6 CONNECTING TO ELECTRICAL POWER

WARNING

THIS UNIT MUST BE PROPERLY ELECTRICALLY GROUNDED TO AVOID POSSIBLE FATAL ELECTRICAL SHOCK OR SERIOUS INJURY TO THE OPERATOR. THE POWER CORD IS PROVIDED WITH A THREE PRONG GROUNDED PLUG. IF A THREE-HOLE GROUNDED ELECTRICAL OUTLET IS NOT AVAILABLE, USE AN APPROVED METHOD TO GROUND THE UNIT.

CAUTION

FAILURE TO DISCONNECT THE MOTOR POWER SUPPLY WILL DAMAGE THE CARBONATOR MOTOR AND PUMP AND VOID THE WARRANTY.

A. Check the dispenser serial number plate for unit's correct electrical requirements. Do not plug into electrical outlet unless serial number plate electrical specifications are compatible with local electric utility.

B. Route the power supply cord to a grounded electrical outlet of the proper voltage and amperage rating, and plug the unit in. All USA/domestic models are equipped with a power kill switch located on the left side of the condenser, in the bonnet. *Kill switch must be on before the unit will operate.* Allow unit to run and start cooling while completing remainder of the installation.

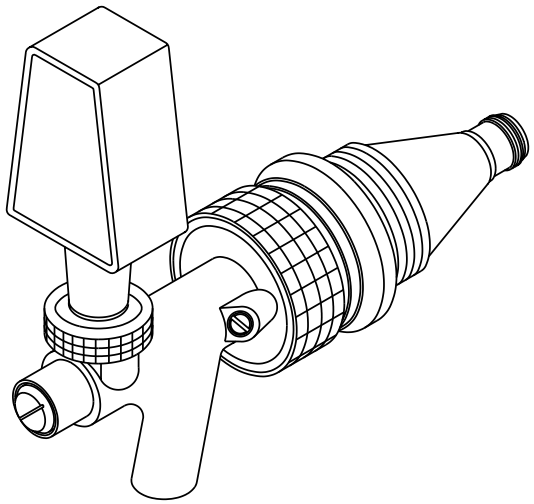
NOTE

Units equipped with an electronic ice bank control contain a five (5) minute delay. Compressor will not begin running until five (5) minutes after unit is energized.

1.7 CONNECTING TO PRODUCT SUPPLY

A. Using proper beverage tubing and fittings, connect to syrup inlet with flare seal washer (PN 05-0011).

B. Mark syrup tube assemblies with product ID tape.



Premix Valve

Figure 1

C. Route through cutout in counter or through access hole in back of unit.

D. Leave approximately 12 inches (30 cm) of extra tubing length below the counter for servicing and moving the dispenser.

E. Connect to appropriate figal pre-mix tanks.

F. Pressurize system.

G. Activate each valve until product is observed.

H. Check for leaks.

2. SCHEDULED MAINTENANCE

2.1 DAILY

A. Remove the cup rest and wash in warm soapy water.
B. Pour warm soapy water into the drip tray and wipe with a clean cloth.
C. With a clean cloth and warm water, wipe off all of the unit's exterior surfaces. DO NOT USE ABRASIVE SOAPS OR STRONG DETERGENTS.
D. Replace the cup rest.

2.2 WEEKLY

A. Taste each product for off tastes.
B. Remove the bonnet and check the level of water in the water bath. Replenish as required, and replace the bonnet.

NOTE

Use bottled drinking water where hard water problems exist. *Do not use distilled water in units which are equipped with electronic ice bank controls (EIBC).*

2.3 MONTHLY

A. Unplug the dispenser from power source.
B. Remove the bonnet and clean the dirt from the condenser using a soft brush.
C. Replace the bonnet and reconnect power.

2.4 EVERY SIX MONTHS

A. Clean and sanitize the unit using the appropriate procedures outlined in Section 3 of this manual.

2.5 YEARLY

A. Clean water bath interior, including evaporator coils and refrigeration components.
B. Clean the entire exterior of the unit.
C. Sanitize syrup lines using the appropriate procedures outlined in Section 3 of this manual.

3. DISPENSER CLEANING AND SANITIZING

3.1 AMBIENT PROCESS

A. The ambient process is the most common method for cleaning and sanitizing dispenser equipment. The detergent should be caustic-based and the sanitizer should be low pH (7.0) chloride solution.
B. Disconnect syrup containers and remove product from tubing by purging with carbon dioxide.
C. Rinse the lines and fittings with clean room temperature water to remove all traces of residual product.
D. Fill lines with a caustic-based (low-sudsing, non-perfumed, and easily rinsed) detergent solution. The solution should be prepared in accordance with the manufacturers recommendations, but should be at least two (2) percent sodium hydroxide. Make sure the lines are completely filled and allow to stand for at least 10 minutes.
E. Flush the detergent solution from the lines with clean water. Continue rinsing until phenolphthalein test indicates the rinse water is free of residual detergent.
F. Fill the lines with a low pH (7.0) chlorine solution containing at least 50 PPM (50 mg/L) chlorine. Make sure that lines are completely filled and allow to stand for ten (10) minutes.
G. Reconnect syrup containers and ready Unit for operation.
H. Draw drinks to refill lines and flush the chlorine solution from the dispenser.

NOTE

Please note that a fresh water rinse cannot follow sanitization of equipment. Purge only with the end use product. *This is an NSF requirement.*

I. Taste the beverage to verify that there is no off taste.

3.2 VALVES

A. Valves may be cleaned and sanitized in the same manner.

1. Disconnect Unit from power source. Depressurize unit, disconnect syrup containers, and remove product from tubing by purging with carbon dioxide.
2. Carefully remove valves from dispenser.
3. Wash valves in cleaning solution, then immerse them in a bath of sanitizing solution for 15 minutes.
4. Visually inspect dispenser for syrup residue. Clean with warm water and cloth or with the nozzle brush supplied.
5. Install valves to dispenser. Pressurize and ready Unit for operation.
6. Connect Unit to power source.
7. Reconnect syrup containers and ready Unit for operation.
8. Draw drinks to refill lines and flush the chlorine solution from the dispenser.

NOTE

Please note that a fresh water rinse cannot follow sanitization of equipment. Purge only with the end use product. *This is an NSF requirement.*

9. Taste the beverage to verify that there is no off taste.
10. Valve is ready for operation.

4. TROUBLESHOOTING

TROUBLE	CAUSE	REMEDY
4.1 Miscellaneous leakage.	A. Gap between parts. B. Damaged or improperly installed o-rings.	A. Tighten appropriately. B. Replace or adjust appropriate o-rings.
4.2 Insufficient flow.	A. Insufficient incoming supply pressure.	A. Verify incoming supply pressure is correct.
4.3 Excessive foaming.	A. Incoming water or syrup temperature too high. B. Flow rate too high. C. Air in lines. D. Poor quality ice. E. High beverage temperature.	A. Correct prior to dispenser. Consider larger dispenser or pre-cooler. B. Readjust. C. Bleed air from lines. D. Check quality of ice used in drink. E. Check refrigeration system.
4.4 Compressor does not start (no hum), but condenser fan motor runs.	A. Compressor relay or overload malfunctioning. B. Inadequate voltage. C. Incorrect wiring. D. Compressor malfunctioning.	A. Replace compressor relay or overload. B. Measure voltage across common and run terminal on compressor. Voltage must not drop below 90% of rated voltage. C. Refer to wiring diagram and correct. D. Replace compressor.
4.5 Compressor starts and continues to run until freeze up and will not cut off.	A. Ice bank control failure. B. Incorrect wiring.	A. Replace ice bank control. B. Refer to wiring diagram and correct.
4.6 Compressor does not start but hums.	A. Inadequate voltage. B. Incorrect wiring. C. Starting relay malfunctioning. D. Compressor malfunctioning.	A. Measure voltage across common and run terminal on compressor. Voltage must not drop below 90% of rated voltage. B. Refer to wiring diagram and correct. C. Replace starting relay. Be sure to use correct relay. Failure to use correct relay will cause compressor failure. D. Replace compressor.

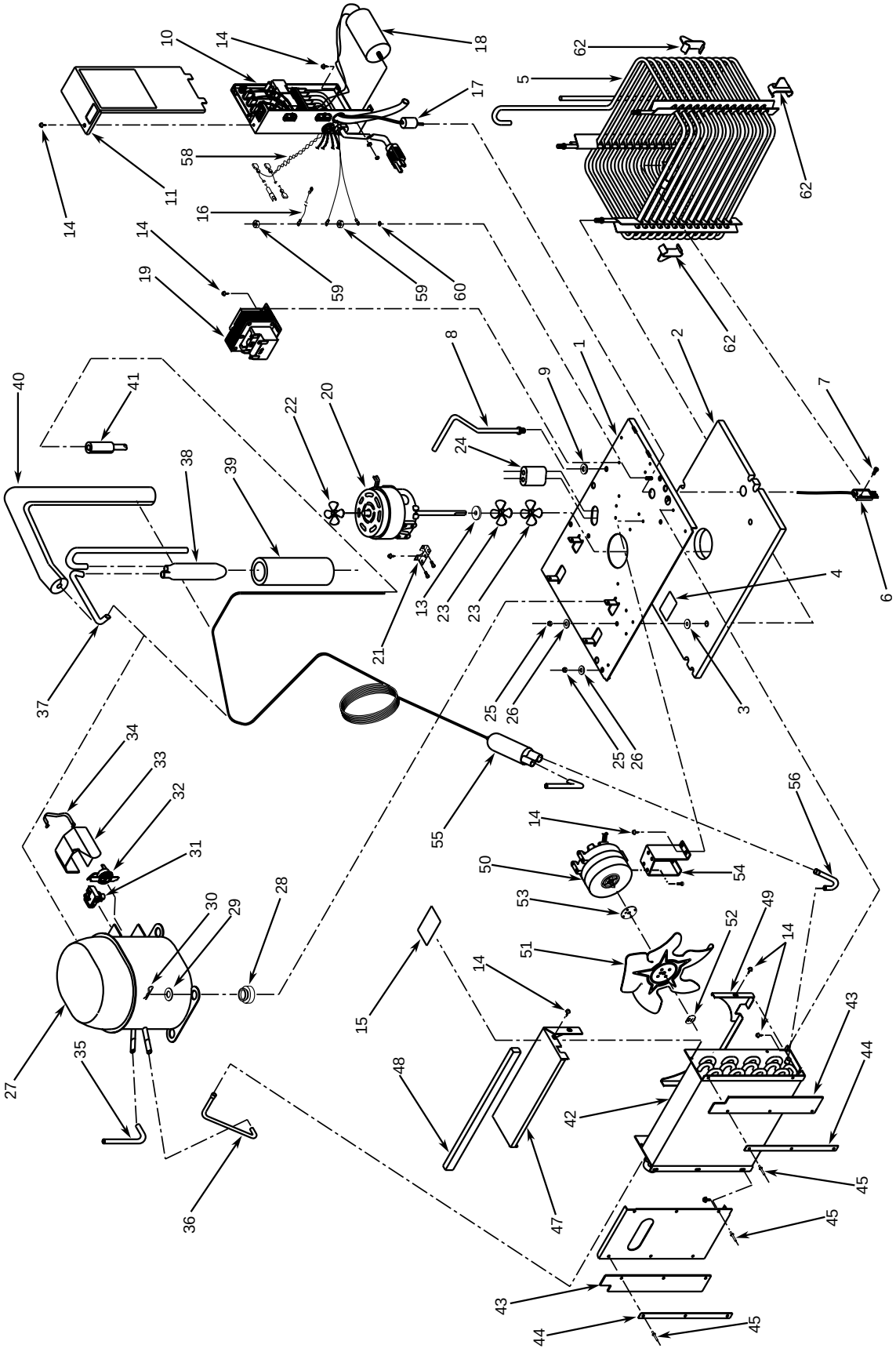
	TROUBLE	CAUSE	REMEDY
4.7	Compressor starts but does not switch off start winding (will run for only a few seconds before internal overload switches compressor off).	A. Inadequate voltage. B. Incorrect wiring. C. Starting relay malfunctioning.	A. Measure voltage across common and run terminal on compressor. B. Refer to wiring diagram and correct. C. Replace starting relay. Be sure to use correct relay. Failure to use correct relay will cause compressor failure.
4.8	Compressor starts and runs a short time but shuts off on overload.	A. Dirty condenser. B. Insufficient or blocked air flow. C. Inadequate voltage. D. Incorrect wiring. E. Defective condenser fan motor. F. Refrigerant leak. G. Compressor malfunctioning.	A. Clean the condenser. B. Remove all obstructions and allow for minimum clearance of 15 inches (38.1 cm) over top. C. Measure voltage across common and run terminal on compressor. Voltage must not drop below 90% of rated voltage. D. Refer to wiring diagram and correct. E. Replace condenser fan motor. F. Repair and recharge. G. Replace compressor.
4.9	Warm drinks.	A. Restricted airflow. B. Refrigeration system not running. C. Refrigerant leak. D. Condenser fan motor not working. E. Dirty condenser. F. Dispenser capacity exceeded.	A. Check clearances around sides, top, and inlet of unit. Remove objects blocking airflow through grill. B. Refer to Sections 4.11 - 4.15. C. Repair and recharge. D. Replace condenser fan motor. E. Clean condenser. F. Add pre-cooler or replace with larger dispenser.

NOTES

NOTES

5. ILLUSTRATIONS, PARTS LISTS, AND WIRING DIAGRAMS

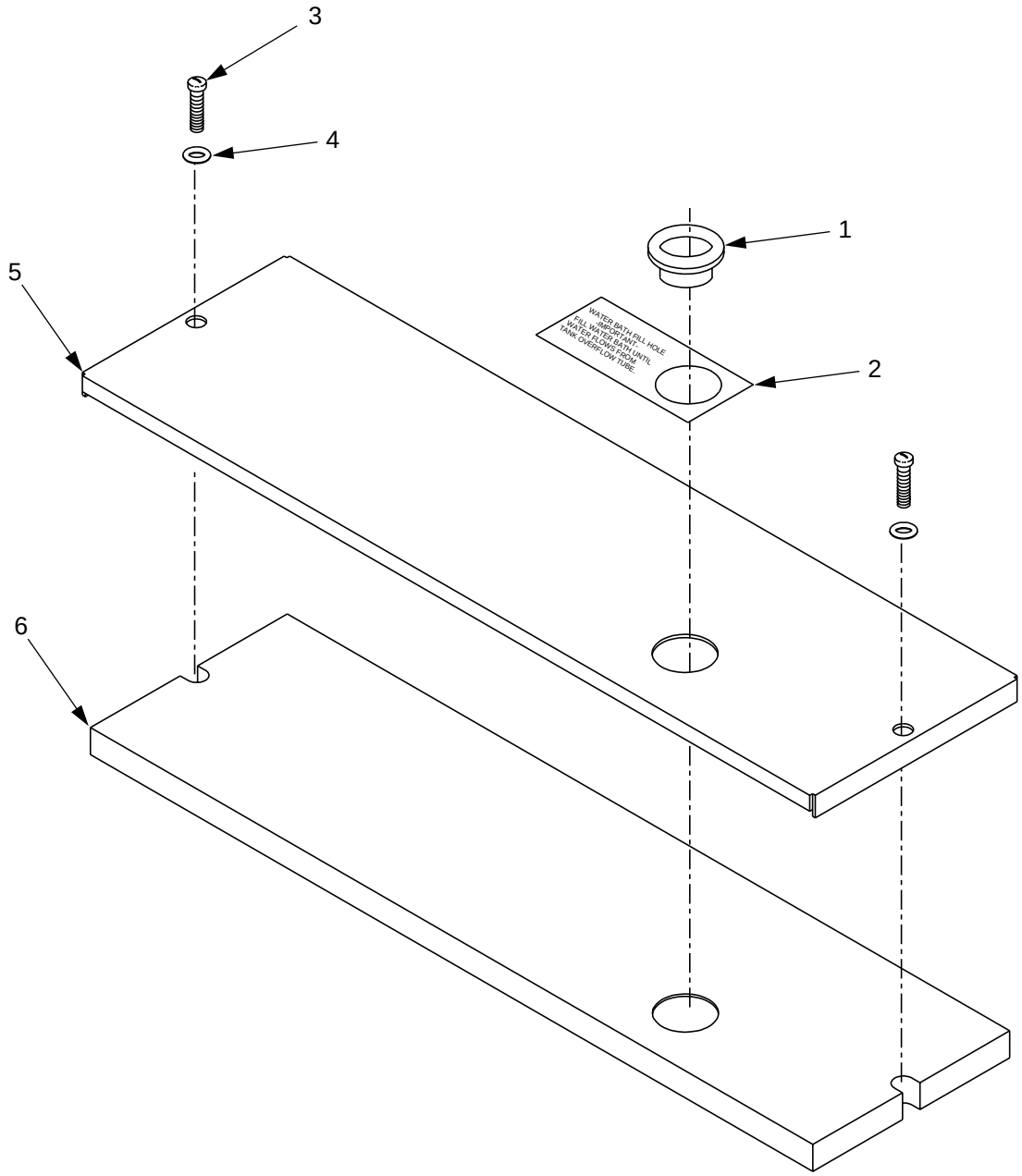
5.1 REFRIGERATION DECK ASSEMBLY



5.1 REFRIGERATION DECK ASSEMBLY (CONTINUED)

ITEM	PART NO.	DESCRIPTION
-	82-1248/02	Deck Assy Refrig, R-134a, 220V/50Hz, Export
-	82-1372/02	Deck Assy Refrig, R-134a 115V/60Hz, Domestic
-	82-1428/02	Deck Assy Refrig. R-134a 115V/60HZ, Export
1	51-5107/01	Sub-Assy, Compressor Deck
2	50-0200/01	Insulation, Compressor Deck
3	04-0063	Washer, Flat
4	89-0014	Cover, Hole
5	REF	Evaporator Coil Assy
-	82-1268	Evaporator Coil, R134a, Export
-	82-1373	Evaporator Coil, R134a, Domestic
6	54-0137	Probe Assy, IBC
7	04-0470	Screw, 6 - 19 x 0.438
8	51-0068	Handle
9	04-0574	Washer
10	REF	Control Housing Assy
-	52-0900	Control Housing Assy, with "ON-OFF" Switch
-	52-0903	Control Housing Assy, without "ON-OFF" Switch
11	REF	Cover, Control Housing
-	30-5108	Cover, Control Housing, with "ON-OFF" Switch
-	30-5118	Cover, Control Housing, without "ON-OFF" Switch
12	06-0576/03	Label, Wiring Diagram
13	02-0032	Washer
14	04-0504	Screw, 8 - 18 x 0.375
15	06-0080-01	Label, Nameplate
16	52-1209	Lead Assy, Ground
17	02-0041	Seal
18	REF	Capacitor, Carbonator
-	26-0374	Capacitor, Carbonator, 115V/60Hz
-	26-0377	Capacitor, Carbonator, 220V/50Hz and 60 Hz
19	REF	Transformer
-	25-0047	Transformer, 115V/60Hz
-	25-0048	Transformer, 220V/50Hz and 60Hz
20	REF	Motor, Assy
-	52-1262	Motor, Assy, 220V/50Hz and 60Hz
-	52-1261	Motor, Assy, 115V/60Hz
21	30-5113	Bracket, Agitator
22	05-0495	Propeller, 2.062 DIA
23	05-0502	Propeller, 2.250 DIA
24	02-0040	Seal, Extrusion
25	04-0032	Nut, Nylok, 1/4 - 20
26	04-0033	Washer, Flat (.281 ID)
27	REF	Compressor
-	83-0033	Compressor, R-134a, 115V/60Hz, Domestic
-	83-0034	Compressor, R-134a, 220V/50Hz, Export
28	02-0114	Grommet
29	04-0537	Washer, Flat (0.467 ID)
30	03-0150	Retainer, Clip
31	REF	Relay
-	12-0005	Relay, R-12 & R-134a, 115V/60Hz
-	12-0031	Relay, R-12 & R-134a, 220V/50Hz and 60Hz
32	REF	Overload
-	12-0004	Overload, R-12 & R-134a, 115V/60Hz
-	12-0032	Overload, R-12 & R-134a, 220V/50Hz and 60Hz
33	13-0006	Cover Terminal
34	03-0040	Bale Strap
35	47-0344	Tube, Process
36	REF	Tube, Compressor
-	47-0718	Tube, Compressor (Hi Side)
-	47-0347-01	Tube, Compressor R-12, 220V/60Hz (Hi Side)
37	REF	Tube, Return
-	47-0724	Tube, Return (Lo Side)
-	47-0346	Tube,Return R-12, 220V/60Hz (Lo Side)
38	51-0061	Accumulator
39	50-0211	Boot
40	50-0205	Insulation, Tube
41	50-0159	Insulation, Tube
42	23-0764/01	Condenser
43	50-0201	Baffle, Condenser
44	30-5112	Plate, Retainer
45	04-0518	Rivet, 0.1250 x 0.328
46	30-5867	Shield, Air,Left
47	30-5865	Shroud, Fan Top
48	50-0249	Barrier, long
49	30-5866	Shroud, Fan, Bottom
50	REF	Motor, Fan
-	91-0007	Motor, Fan, 115V/60Hz
-	91-0009	Motor, Fan, 220V/50Hz and 60 Hz
51	07-0354	Fan Blade
52	04-0060	Nut
53	02-0413	Silencer
54	30-5864	Bracket, Fan Motor
55	REF	Dryer Cap Assy
-	23-0982	Dryer Cap Ass,y R-134a, 115V/60Hz
-	23-0932	Dryer Cap Assy, R-134a, 220V/50Hz
56	47-0698	Tube, Condenser Out
57	REF	Freon
-	95-0177	Freon, R-134a
58	52-1213	Harness Assy, XFM12
59	04-0110	Nut, 8 - 32
60	04-0576	Washer, Int., Tooth
61	06-0877	Label, Ground
62	REF	Bracket Assy Guide
-	51-5147	Bracket Assy Guide, R-134a, 115V/60Hz

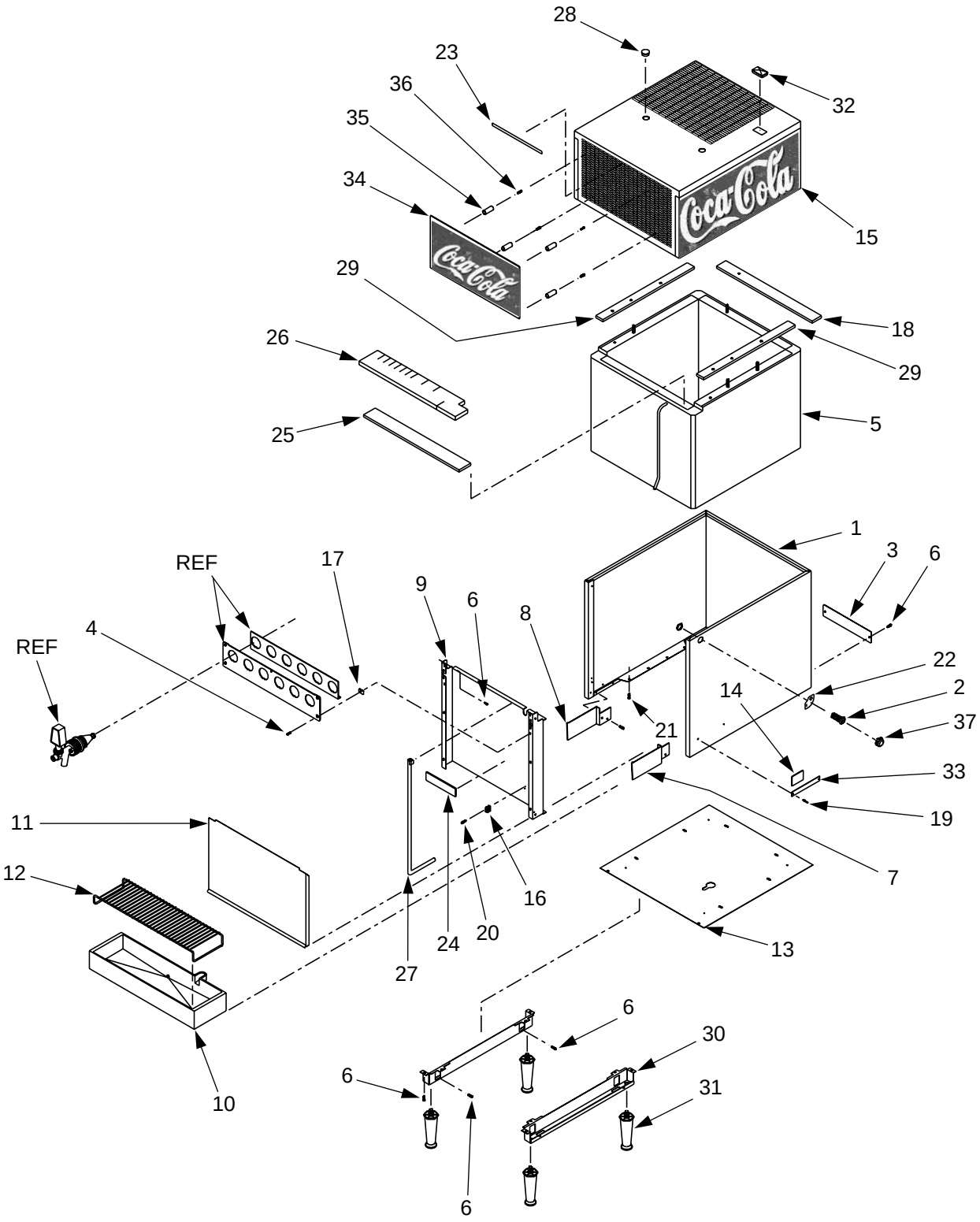
5.2 DECK ASSEMBLY



5.2 DECK ASSEMBLY (CONTINUED)

ITEM	PART NO.	DESCRIPTION
1	04-0711	Caplug
2	06-0856	Label, Water Fill
3	04-0334	Screw, 1/4 - 20 x 1.000, Round Head
4	04-0033	Washer, 1/4
5	30-5891	Plate, Carbonator (No Carbonator)
6	50-0254	Insulation, Carbonator Deck (No Carbonator)

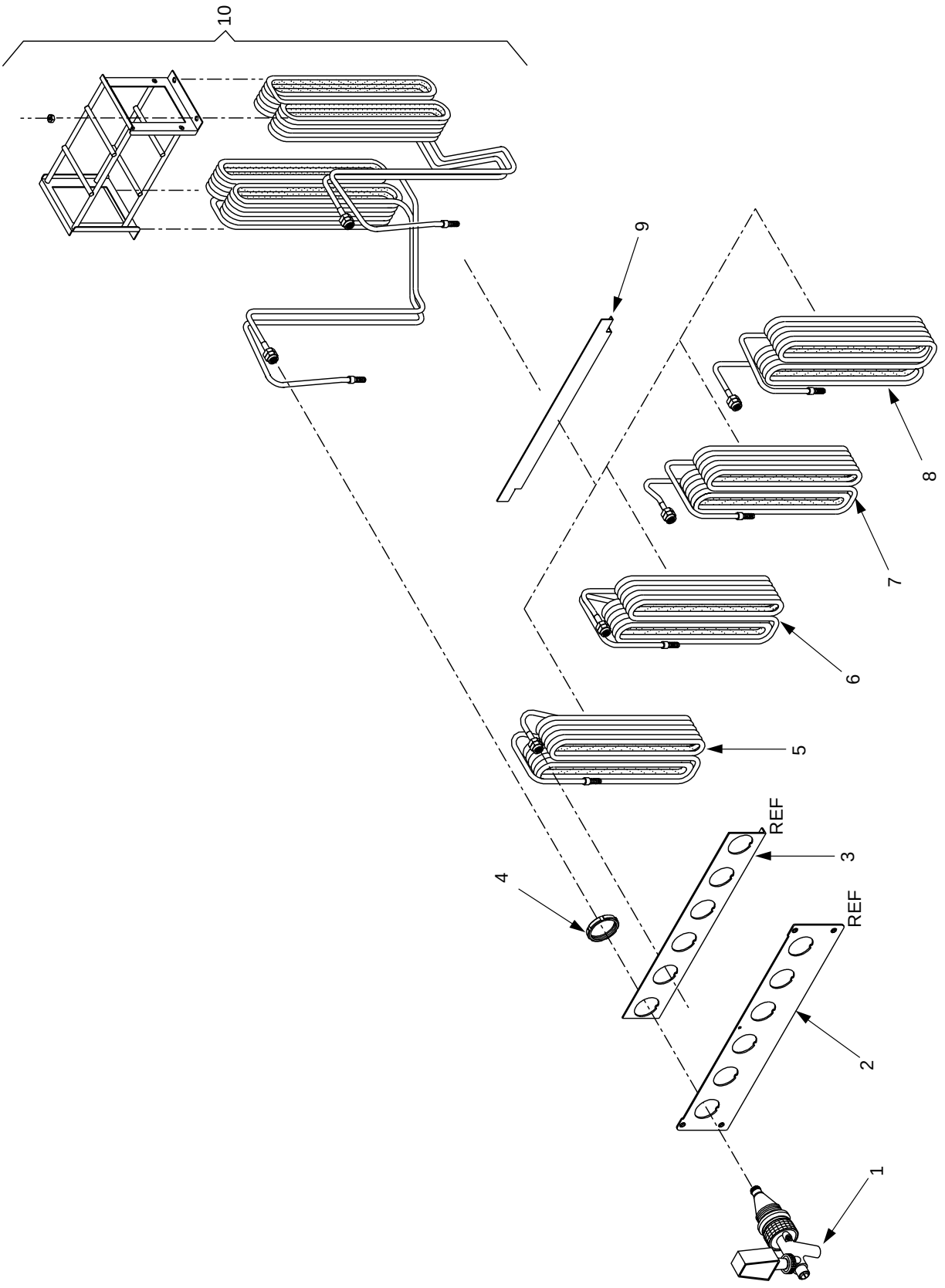
5.3 CABINET ASSEMBLY



5.3 CABINET ASSEMBLY (CONTINUED)

ITEM	PART NO.	DESCRIPTION
1	51-0675/01	Wrapper Assy
2	12-0097	Key Switch
3	07-0347	Cover Plate
4	04-0068	Screw, 10 - 24 x 0.375 FH, Machine
5	82-1311	Tank Assy, Foamed
6	04-0504	Screw, 8 - 18 x 0.375 AB
7	30-0587	Bracket, Right
8	30-0588	Bracket, Left
9	30-5114/01	Front Plate
10	05-0462	Drip Tray
11	30-0319	Splash Plate
12	23-0483	Cup Rest
13	30-5850	Plate, Bottom
14	06-0075-01	Nameplate, Serial Number
15	23-0782	Bonnet Assy, (Graphics ordered by Country)
16	03-0062	Clip, Retaining
17	04-0074	Nut, Clip
18	50-0150	Insulation
19	04-0072	Rivet
20	04-0077	Screw, 4 - 20, 0.250, AB
21	04-0545	Screw, 8 - 16, 0.78, Plastite
22	06-0881	Label, Key Switch
23	06-0632	Label, CAUTION, Delta II Bonnet
24	06-0851	Label, Overflow
25	50-0248	Insulation, Front
26	50-0209	Insulation, Comb, Delta II
27	82-1312	Drain Assy
28	13-0050	Plug, 5/8 Inch
29	50-0151	Insulation, Side
30	30-5221	Leg Bracket Assy
31	81-0112	Legs
32	05-0786	Plug, Bonnet
33	06-0075-94	Nameplate, 9004
-	06-0075-95	Nameplate, 9005
-	06-0075-96	Nameplate, 9006
34	51-0715	Merchandiser Plate Assy
35	10-0229	Stand Off
36	04-0069	Screw, Merchandiser
37	07-0405	Plug, Key Lock

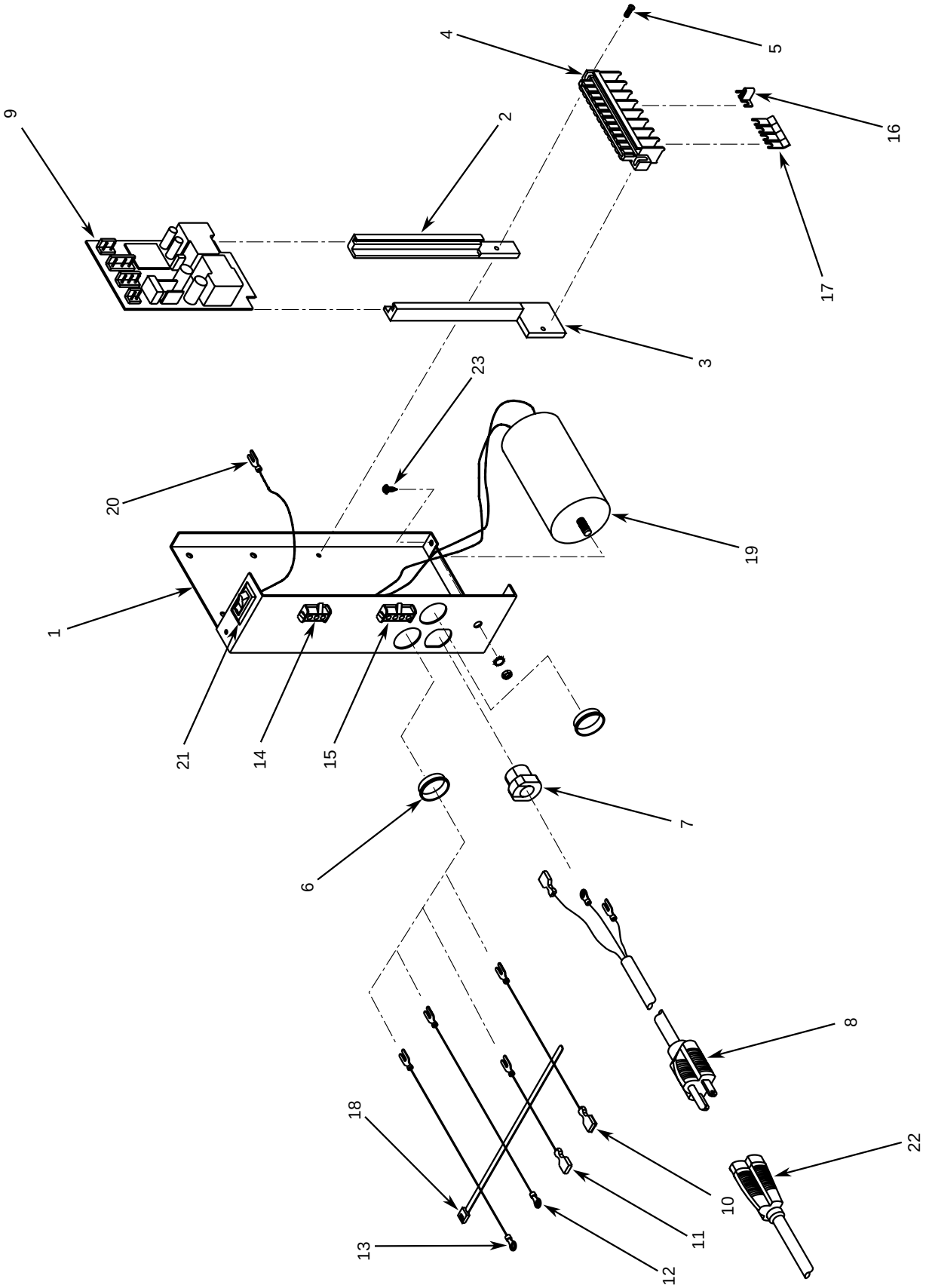
5.4 TUBING ASSEMBLY



5.4 TUBING ASSEMBLY (CONTINUED)

ITEM	PART NO.	DESCRIPTION
1	19-0138	Valve Assy, Pre-Mix, Becker
2	30-5514	Faucet Plate, 4 Valve
-	30-5486	Faucet Plate, 5 Valve
-	30-5488	Faucet Plate, 6 Valve
3	30-5515	Support, Faucet Plate, 4 Valve
-	30-5487	Support, Faucet Plate, 5 Valve
-	30-5489	Support, Faucet Plate, 6 Valve
4	04-0508	Plug, Pull, Delta
5	48-0760	Tube Assy, Prod #4/3, 6V/5V
6	48-0759	Tube Assy, Prod #5/4/3, 6V/5V/4V
7	48-0761	Tube Assy, Prod #3, 6V
8	48-0762	Tube Assy, Prod #2, Pre-Delta
9	30-5490/01	Bracket, Product Tube, Pre-Delta
10	23-0911	Tube Assy, Product, Cage, Pre-Delta

5.5 CONTROL HOUSING



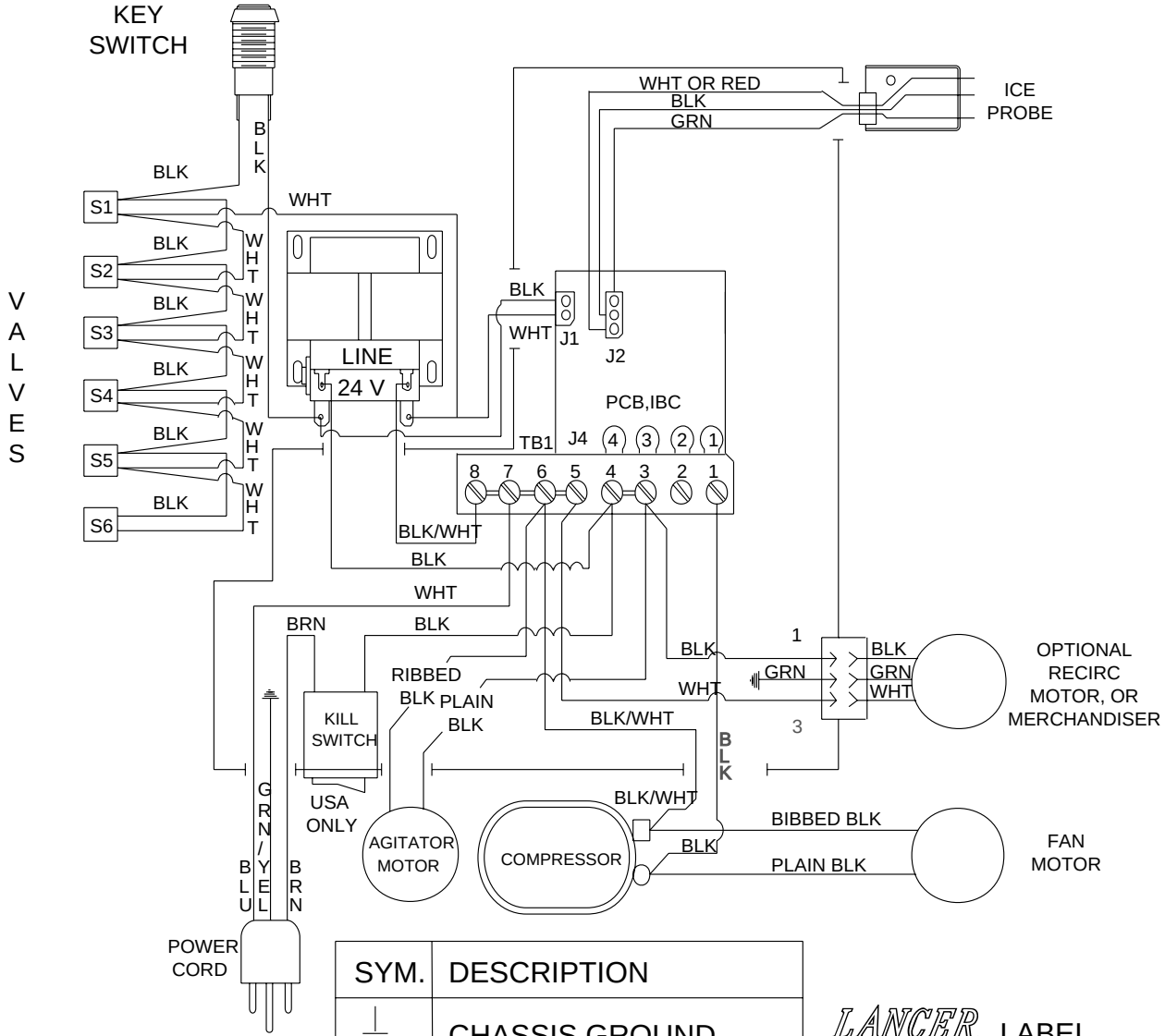
5.5 CONTROL HOUSING (CONTINUED)

ITEM	PART NO.	DESCRIPTION
-	52-0900	Control Housing with ON/OFF Switch (uses Items 20 & 21)
-	52-0903	Control Housing without ON/OFF Switch, Delta II
1	30-5109	Control Housing
2	05-0570	Guide, Right
3	05-0571	Guide, Left
4	11-0185	Terminal Block
5	04-0566	Screw
6	13-0059	Bushing
7	13-0028	Strain Relief
8	52-1219	Power Cord Assy
-	52-1218	Power Cord Assy without ON/OFF Switch
9	52-0952/01	PCB Assy
10	52-0904	Lead Assy, Transformer, PRI #1
11	52-0905	Lead Assy, Transformer, PRI #2
12	52-0906	Lead Assy, Compressor #1
13	52-0907	Lead Assy, Compressor #2
14	52-1210	Harness Assy, Recirc
15	52-0908	Harness Assy, Carbonator
16	11-0187	Jumper, 2 Position
17	11-0186	Jumper, 4 Position
18	11-0008	Tie Wrap
19	-	Capacitor (See appropriate Compressor Deck Assy)
20	52-0868	Lead Assy, ON/OFF Switch
21	12-0089	Switch, ON/OFF
22	REF	Extension, Power Cord (Order by Country)
23	04-0504	Screw

5.6 WIRING DIAGRAM

NOTE

1. **WHEN STARTING UNIT OR IF CURRENT IS INTERRUPTED, THERE IS A (FIVE) 5 MINUTE DELAY BEFORE THE COMPRESSOR/FAN STARTS.**
2. **THERE IS A (THREE) 3 MINUTE PROTECTION TIMER ON THE CARBONATOR PUMP MOTOR. IF THE MOTOR HAS TIMED OUT, CHECK WATER SUPPLY AND RESET BY MOMENTARILY DISCONNECTING POWER.**



SYM.	DESCRIPTION
⏚	CHASSIS GROUND
——	CONTROL BOX
▭	CHAMFER PIN 1

LANCER LABEL, WIRING DIAGRAM 06-1813

DELTA II