

E-1620
REV E 9/28/20



The Signature of Quality[®]

SQ3CD, SQ4CD, SQ5CD, SQ6CD, SQ8CD

Self-Contained & Remote Models

INSTALLATION & OPERATION INSTRUCTIONS



KEEP THIS MANUAL FOR FUTURE REFERENCE

Engineering and technical data are subject to change without notice.

Federal Industries
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INTRODUCTION

Thank you for purchasing a Federal Industries display case. This manual contains important instructions for installing and servicing the Market Deli Refrigerated Cases. A repair parts list and wiring diagram are also included in the manual. Read all of these documents carefully before installing or servicing your case.



NOTICE

Read this manual before installing your case. Keep this manual and refer to it before doing any service on the equipment. Failure to do so could result in personal injury or damage to the case.



NOTICE

Installation and service of the electrical components in the case must be performed by a licensed electrician.

The portions of this manual covering electrical components contain technical instructions intended only for persons qualified to perform electrical work.



DANGER

Improper or faulty hookup of electrical components in the case can result in severe injury or death.

All electrical wiring hookups must be done in accordance with all applicable local, regional, or national standards.

SERIAL NUMBER

Record the model and serial numbers of the case for easy reference. Always refer to both model and serial numbers in your correspondence regarding the case.

Case Model _____ Serial Number _____
Condensing Unit Model _____ Serial Number _____

This manual cannot cover every installation, use, or service situation. If you need additional information, call or write us:

Warranty/Technical Service Department
Toll Free (800) 356-4206
WI Phone (608) 424-3331
geninfo@federalind.com

WARNING LABELS & SAFETY INSTRUCTIONS



This is the safety-alert symbol. When you see this symbol on your case or in the manual, be alert to the potential for personal injury or damage to your equipment.

Be sure you understand all safety messages and always follow recommended precautions and safe operating practices.



NOTICE TO EMPLOYERS

You must make sure that everyone who installs, uses, or services your case is thoroughly familiar with all safety information and procedures.

Important safety information is presented in this section and throughout the manual. The following signal words are used in the warnings and safety messages:

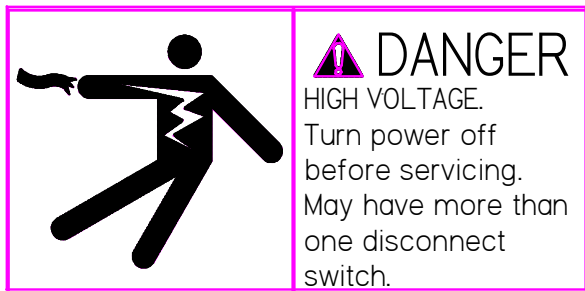
DANGER: Severe injury or death will occur if you ignore the message.

WARNING: Severe injury or death can occur if you ignore the message.

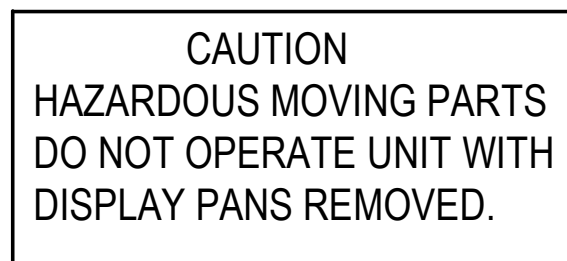
CAUTION: Minor injury or damage to your case can occur if you ignore the message.

NOTICE: This is important installation, operation, or service information. If you ignore the message, you may damage your case.

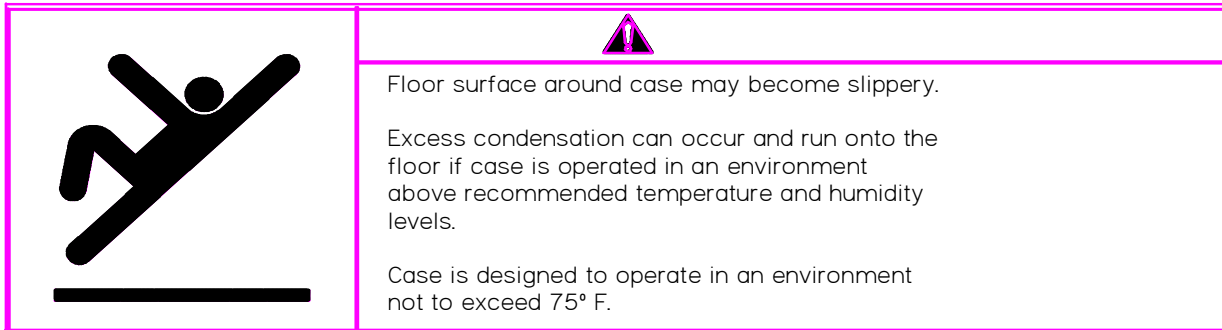
The warning and safety labels shown throughout this manual are placed on your Federal Industries case at the factory. Follow all warning label instructions. If any warning or safety labels become lost or damaged, call our customer service department at 1(800) 356-4206 for replacements.



This label is located on the back of the display case.



This label is located below the display pan.



This label is located on the back of the display case.

PRE-INSTALLATION PROCEDURES

Inspection For Shipping Damage

You are responsible for filing all freight claims with the delivering truck line. Inspect all cartons and crates for damage as soon as they arrive. If damage is noted to shipping crates or cartons, or if a shortage is found, note this on the bill of lading (all copies) prior to signing.

If damage is discovered when the case is uncrated, immediately call the delivering truck line and follow-up the call with a written report indicating concealed damage to your shipment. Ask for an immediate inspection of your concealed damage item. Crating material must be retained to show the inspector from the truck line.

INSTALLATION INSTRUCTIONS

Locating The Display Case

The case should be located where it is not subjected to the direct rays of the sun, heating ducts, grills, radiator, or ceiling fans, nor should it be located near open doors or main door entrances. Also, avoid locations where there is excessive air movement or air disturbances.

The condenser air inlet is located at the rear of the case. Do not block this inlet and do not locate the air inlet near a source of heat.

Removing Case from Shipping Skid

CAUTION: Do not push against the curved glass, end glass, doors, or doorframes when removing the case from the skid or moving

Move the case as near as possible to the final location before removing it from the shipping skid.

Remove the eight (8) screws that secure the case to the skid.

Removing Packaging Material

Remove the brackets that held the case to the shipping skid.

Remove the shipping tape that secures the doors and lift-up glass. If it is necessary to remove tape residue from plastic materials, use cleaning compounds recommended in the cleaning section of this manual.

Leveling the Case

The case must be level for proper drainage of defrost condensate to the condensate evaporator.

Four (4) leg levelers are provided for leveling the case. The leg levelers can be turned in, and the case can be placed with the base frame on the floor.

The leveled case can be sealed to the floor using and NSF Listed Sealant.

Grill Removal



DANGER: Electrical shock hazard. Do not operate unit with panels removed.

The front of the case has a removable base panel to access the refrigeration components. Normally, it is not necessary to remove the panel to install the case. This panel must be in place for proper operation of the case.

There is one (1) removable panel on the back of the case. The panel allows access to the condensing unit, and the field wiring connection box. Remove this panel to make field-wiring connections.

Condensate Evaporator

This case is furnished with an electric condensate evaporator. Plumbing connections are not required.

The condensate evaporator is located behind the rear panel and is accessible from the rear of the case.

Make sure that the drain line has not been dislodged during shipment and that the drain terminates properly over the water reservoir.

Lights

The ballasts used on this case allow removal of one or more top lights without affecting the remaining lights.

ELECTRICAL INFORMATION & GROUNDING

This Case Must Be Grounded



DANGER: Improper or faulty hookup of electrical components in the display case can result in severe injury or death.

All case electrical connections must be performed only by a licensed electrician.

All electrical wiring hookups must be done in accordance with all applicable local, regional, or national electrical standards.

A separate circuit for each display case is recommended to prevent other appliances on the same circuit from overloading the circuit and causing malfunction.

The electrical service must be grounded upon installation.

This unit is designed for permanent connection to a power source. See the electrical data plate located next to electrical junction box for proper circuit size and wire ampacity.

The electrical field connection 2 x 4 box is accessible from the rear of the case and is located in the right "leg" (as viewed from case rear). A second 2 x 4 field connection box is also located in the right leg and is required to supply electrical power to the general purpose receptacle.

OPERATING INSTRUCTIONS

Initial Start-Up

After all the checks outlined in the installation section of this manual have been made, the case is ready to be put into service.

Doors

Clean the door track frequently for easy door operation. A very light film of lubricant, such as PAM, will help the doors slide easily.

The entire door track assembly may be removed if desired by tilting the top back and lifting the entire frame out.

The display case is intended to be operated with the rear doors in place. However, during peak service periods, the doors may be removed for ease of serving out of case. DO NOT keep doors off unit for long periods of time.

Light Replacement

Remove bulb from top light assembly by rotating bulb 90 degrees and pulling outward. This will allow bulb prongs to easily slide out of bulb receptacles located at each end of the bulb.

The bulbs are furnished with plastic safety light shields. Make certain the light shields are always in place to safeguard against bulb breakage.

When replacing lights, use direct equivalents to the original bulbs.

Placing Product into Case

Do not block the slots along the front or rear of the case display floor.

CASE SHOULD BE STOCKED WITH PRE-CHILLED PRODUCT ONLY.

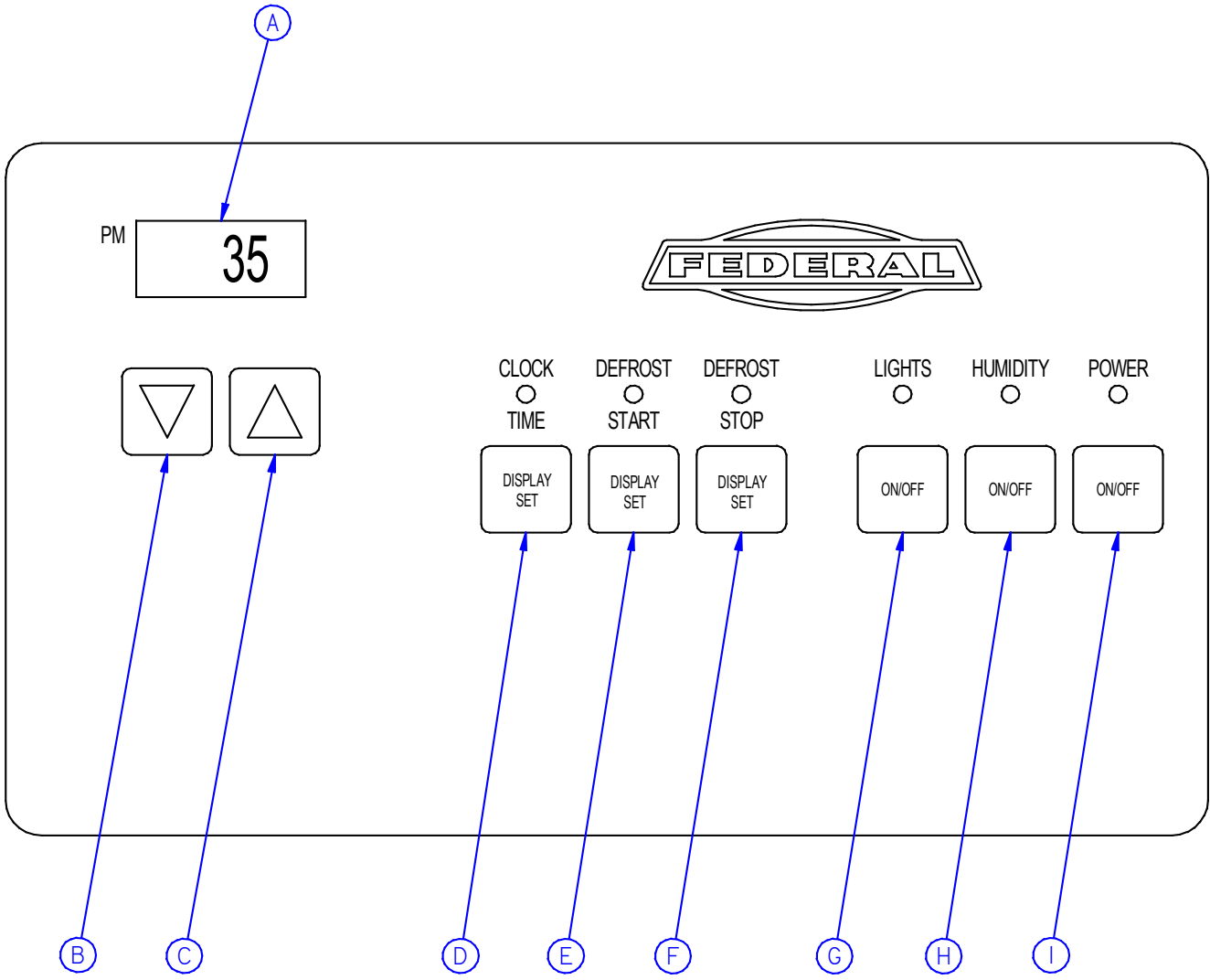
The display pans are removable for cleaning and can become dislodged in shipment. To ensure proper airflow and performance of the case, make sure that the display pans are positioned as shown. Check that the pans are installed properly before placing product on the display pans.

CONTROLS BEFORE 01/2019

E3014

- A. Display**
Display temperature readout and displays the time.
- B. Down Arrow**
Press once to display current heat setting, press again to change to a warmer setting.
- C. Up Arrow**
Press once to display current refrigeration setting. Press again to change to a cooler setting.

Temperature Setting
The display has an off position, "0", and numbered position 1 through 9. The coolest setting is 9. Be using the up and down arrows, set the display at the lowest number necessary to achieve desired case temperature.
- D. Clock Display/Set**
Press to display current time. Adjust time with bottoms B (Hours) & C (Minutes). Press again to return the temperature display.
- E. Defrost Start Display/Set**
Press to display current defrost start time – adjust same as clock.
- F. Defrost Stop Display/Set**
Press to display current auto stop time – adjust same as clock. If start and stop time are the same, auto start/stop is off.
- G. Light Switch**
Turns fluorescent lights on and off. Red light indicates on.
- H. Humidity Switch**
Turns the optional humidification system on and off. Red light indicates switch is on.
- I. Main Power Switch**
Turns off power to all components – retains all settings. This **does not** turn off complete power to the unit.

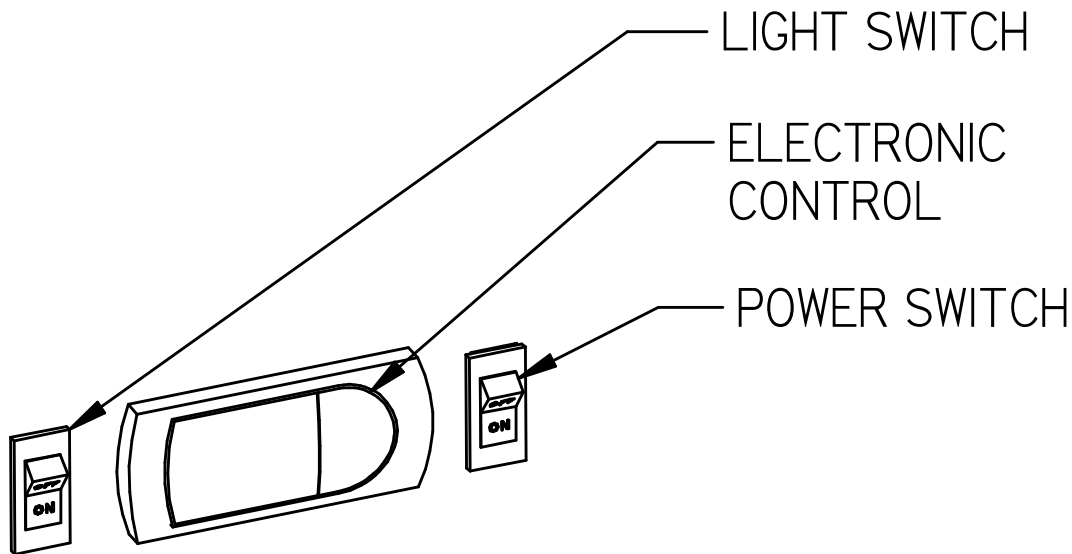


CONTROLS AFTER 01/2019

Control Description



NOTICE: This refrigerated display case is designed to operate in a maximum environment of 80 DEG. F and 55% relative humidity. Exceeding these limits will cause poor case performance and sweating of glass panels.



Power Switch (Refrigerated Models Only)

The unit has a power switch that turns off power to the entire unit, including the condensate evaporator and the lights.

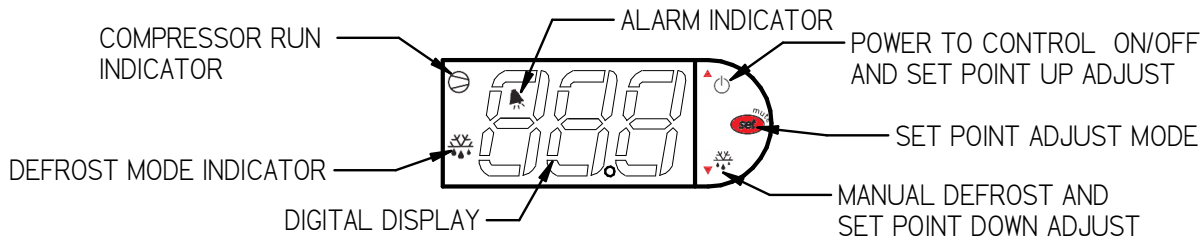
Light Switch (All Models)

The unit has a light switch that turns on and off the interior lights of unit.

Electronic Temperature Control (Refrigerated Models Only)

The temperature control allows the user to adjust the temperature of the display merchandiser to their needs. When not in adjustment mode the read out shows relative interior case temperature.



Using Electronic Temperature Control (Refrigerated Models Only)





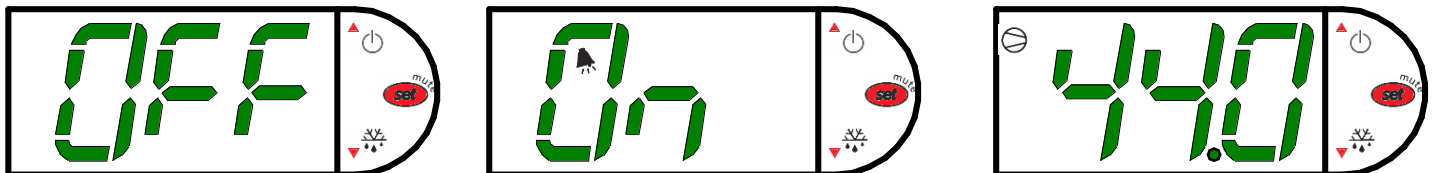
Button Overview

	Press and hold this button for 3 seconds to turn system on (if off) or off (if on). Also used to adjust set point when in set point adjust mode
	Press to enter set point adjust mode, confirm set point changes, and mute alarms.
	Press and hold this button for 3 seconds to initiate a manual defrost (and cancel defrost if initiated), also adjusts set point down when in set point adjust mode





Powering on control

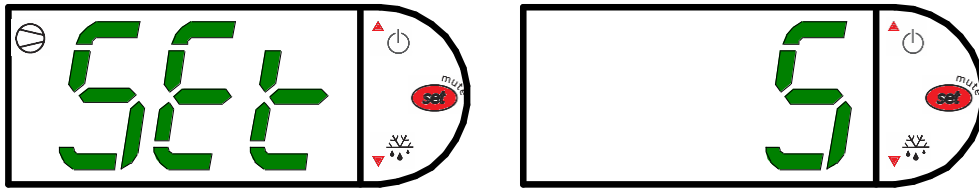
To turn refrigeration control power on, press and hold  for approx. five seconds. The display will read “On” while the button is depressed. When the control powers on, the display will read the relative current case temperature (on initial startup this would be room temperature). The compressor run indicator  will illuminate on the display, meaning that the compressor is running. (Note: the control may already be in the on mode when shipped from factory).

To turn refrigeration control power to off, press and hold  for approx. five seconds. The display will read “Off” while the button is depressed. When the control powers off the display will flash back and forth between the relative current case temperature and “Off”. The compressor run indicator  will be off on the display. When refrigeration control is in the off mode cabinet lights and evaporator fans will still operate, but the compressor will not turn on causing the case to gradually reach room temperature.







Adjusting the set point

The set point is what determines how cold the display case will hold food and beverage. To adjust the set point press and hold the  button approx. 5 seconds until the display begins to flash a number. Then press the  button to scroll number up (colder) or press the  button to scroll number lower (warmer). There are nine (9) available set point numbers, the higher the number of the set point, the colder the display case will run, with setting “9” being the coldest and setting “1” being the warmest. Once you have chosen your desired setting press the  button again to confirm your choice.




Entering manual defrost mode

In order to initiate a manual defrost press and hold the  button approx. 5 seconds. The control will read “dEF” while the button is being held. The defrost is initiated when the defrost mode indicator  illuminates on the display. The control display will then return to reading the case temperature. When the defrost mode indicator  turns off the defrost is complete and the compressor will turn back on illuminating the compressor run indicator .



Error codes

It is possible for error codes to be displayed on the control screen. In the event of a malfunction an alarm will sound and the alarm indicator  will be displayed on the display. An error code or codes will flash intermittently on the display. If there are multiple codes, the display will continuously cycle through them. The following photo shows error code “E0” as an example.



Mute: You may mute the alarm by pressing and releasing the wrench button. The red ringing bell and all error codes will still be displayed. When the fault is remedied the control will return to normal operation and will automatically clear the codes from the display.

Hinged Front Glass

The front glass hinges up for easy cleaning of the case interior. Pneumatic cylinders assist in lifting the glass. The glass will hold open in any position.

The hinged glass mechanism will give years of reliable operation in normal usage. Service on the lift mechanism is required if . . .

- The glass becomes difficult to open.
- The glass does not hold in the open position.
- The glass closes fast.

Consult the factory if service is required.

NOTE: Condensation will occur on the front and side glass if the room environment exceeds 75° ambient and/or 55% relative humidity conditions.

<p>CAUTION: Operation of lift-up glass is to be done by trained store personnel only. This case is not intended to be used as a self-serve unit. Do not allow customers to operate lift-up glass.</p>
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Periodic Maintenance

Cleaning Condenser Coil

Disconnect power to unit.

Remove the rear grill and vacuum the front surface of the condenser coil. This should be done every one to two months as necessary.

CLEANING INSTRUCTIONS

Daily Cleaning

This case should be cleaned thoroughly, as described in the weekly cleaning section, before it is used for the first time.



NOTICE: Avoid splashing or soaking any electrical components with water to prevent electrical damage to the case.



NOTICE: Shut off lights and power switches and remove all product from case. Allow sufficient time for the unit to reach room temperature before proceeding with cleaning.

NOTE: For major spills or foreign material buildup use complete weekly cleaning instructions.

1. Clean all foreign materials from the door opening.
2. Wipe complete interior of case using a damp cloth.
3. The glass can be cleaned with common window cleaners. The remaining exterior surface should be wiped down using any ammoniated cleaners or soapy warm water.

Note: Detergents are **not** recommended.

Weekly Cleaning

This procedure is recommended on a weekly basis. It may need to be performed more often if necessary to maintain a clean, sanitary case. The case should be cleaned to this procedure before using the first time.



NOTICE: Avoid splashing or soaking any electrical components with water to prevent electrical damage to the case.



NOTICE: Shut off lights and power switches and remove all product from case. Allow sufficient time for the unit to reach room temperature before proceeding with cleaning.

Interior Cleaning

1. Remove rear doors by tilting top of frame back and lifting entire assembly out.
2. Lift up the front glass to the fully open position.
3. Lift the display pans up and take them out of the case.
4. Remove thumbscrews that hold the rear vent to the back of the case.
5. Take out front condensation glass by lifting it up and out.
6. Remove front vent by lifting straight up and out.
7. Clean the entire interior of the case using warm soaping water. Wipe off all soapy water with a damp cloth and allow to dry.

Note: Depending on the amount of usage and spillage of foreign material, some fasteners may have to be removed and parts disassembled to allow proper cleaning of the unit.

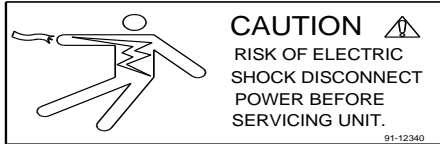
8. Clean all foreign material from door tracks using warm soapy water and a brush. Apply a light film of lubricant, such as PAM, to make the doors operate smoother.
9. Clean both sides of the doors and interior of the front glass using any common window cleaner.
10. Reassemble the case in reverse order starting with Step 6.

Exterior Cleaning

1. Clean the front glass using any common window cleaner.
2. The exterior surfaces should be wiped down using any ammoniated cleansers or warm soapy water.

SERVICE INFORMATION

Before any service work is performed on the case, make sure all power is disconnected to the case.



Service problems or request for repair parts from authorized service agencies, trained service personnel, or owners should be referred to:

Warranty/Technical Service Department
Toll Free: (800) 356-4206
WI Phone (608) 424-3331
geninfo@federalind.com



Pre-Service Checklist

You may avoid the cost and inconvenience of an unnecessary service call by first reviewing this checklist of frequently encountered situations that can cause unsatisfactory case performance.



CAUTION: Before servicing case, turn off power at the main breaker of fuse box.

Pre-Service Checklist

Cases Does Not Operate

Check for disconnected power supply.

Check for tripped breaker or blown fuse.

Check that the power switch and thermostat displays are not “off”.

Lights Do Not Operate

Check that light switch is “on”.

Be sure light is properly seated in the sockets.

Case Temperature Too Warm

Check that the cold air inlet and outlet slots are not blocked.

Be sure front glass is closed tightly and back doors are closed.

Check for a blocked or dirty condenser coil.

Check cold airflow. Lack of adequate cold airflow could indicate a defective evaporative fan or a blocked evaporator coil. Check that paper or foreign materials are not blocking evaporator. If the evaporator coil is blocked due to excessive frost, turn the temperature setting to “0” (“off”) position for approximately one hour to defrost. Excessive frost can buildup if the case is operated with the doors open for extended periods of time.

Glass Fogging

Checkroom ambient – Case is designed to operate in an environment not to exceed 75°F and 55% relative humidity.

Check case temperature – Case is designed to operate between 36°F and 42°F.

Check that the airflow is not being disturbed by a nearby fan or air duct.

Check that nothing is placed on the top of the case glass.

Overflow of Condensate Evaporator

A high wattage heater is used to eliminate the evaporator condensate.

The heater shuts off automatically when the water level in the pan drops.

If the pan is overflowing . . .

Check that float moves freely inside water reservoir and activates float switch.

Check that drain line terminates properly over water reservoir.

Check room ambient conditions. Room environment should not exceed 75°F ambient and 55% humidity conditions.

Special Service Situations

There are rare occasions when the refrigerant charge must be evacuated from a case in order to perform service work. In those situations, Federal Industries recommends that the refrigerant charge be evacuated into a recovery system to prevent the possibility of hydro-fluorocarbons (HFC's) from being released into the atmosphere.

If moisture or liquid is observed around or under a Federal Industries case, an immediate investigation should be made by qualified personnel to determine the source of the moisture or liquid. The investigation made should determine if the case is malfunctioning or if there is a simple housekeeping problem.

Moisture or liquid around or under a case is a potential slip/fall hazard for persons walking by or working in the general area of the case. Any case malfunction or housekeeping problem that creates a slip/fall hazard around or under a case should be corrected immediately.

SALE & DISPOSAL

Owner Responsibility

If you sell or give away your Federal Industries case, you must make sure that all safety labels and the Installation-Service Manual are included with it. If you need replacement labels or manuals, Federal Industries will provide them free of charge. Contact the Customer Service Department at Federal Industries at (800) 356-4206.

The Customer Service Department at Federal Industries should be contacted at the time of sale or disposal of your case so records may be kept of its new location.

If you sell or give away your Federal Industries case, and you evacuate the refrigerant charge before shipment, Federal Industries recommends that the charge be evacuated into a recovery system to prevent the possibility of HFC's from being released into the atmosphere.

SELF-CONTAINED REFRIGERATION & ELECTRICAL DATA

	SQ3CD	SQ4CD	SQ5CD	SQ6CD	SQ8CD
Refrigerant Charge (R-134A) (Before 1/20)	24 oz.	28 oz.	30 oz.	32 oz.	36 oz.
Refrigerant Charge (R-513A) (After 1/20)	23 oz.	27 oz.	27 oz.	31 oz.	34 oz.

ALL MODELS ARE 120 VOLT, 1 PHASE, 60 HERTZ

	AMPS	AMPS	AMPS	AMPS	AMPS
Compressor					
RLA	7.6	9.5	9.5	9.5	10.7
LRA	48.0	58.8	58.8	58.8	69.0
Condenser Fan Motor					
	0.5	0.5	0.5	0.5	1.3
Evaporator Fan					
	0.4 ea.(1)	0.4 ea.(1)	0.4 ea.(1)	0.4 ea.(2)	0.4 ea.(2)
Lights					
	0.3	0.7	0.7	0.7	0.8
Condensate Evaporator					
	4.8	4.8	4.8	4.8	4.8

Refer to the rating plate data attached to the rear of the case for Maximum Fuse Size and Minimum Circuit Ampacity.

Each model is equipped with a general-purpose receptacle, which requires a separate electrical circuit of 120V, 15 Amps. This receptacle must be wired in accordance with the National Electrical Code.

REMOTE REFRIGERATION & ELECTRICAL DATA

Refrigerant (Before 1/20)	SQ3CDR R134A	SQ4CDR R134A	SQ5CDR R134A	SQ6CDR R134A	SQ8CDR R134A
Refrigerant (After 1/20)	R449A	R449A	R449A	R449A	R449A

ALL MODELS ARE 120 VOLT, 1 PHASE, 60 HERTZ

	AMPS	AMPS	AMPS	AMPS	AMPS
Evaporator Fan	0.4 ea.(1)	0.4 ea.(1)	0.4 ea.(1)	0.4 ea.(2)	0.4 ea.(2)
Lights	0.3	0.7	0.7	0.7	0.8
Condensate Evaporator	4.8	4.8	4.8	4.8	4.8

Refer to the rating plate data attached to the rear of the case for Maximum Fuse Size and Minimum Circuit Ampacity.

Each model is equipped with a general-purpose receptacle, which requires a separate electrical circuit of 120V, 15 Amps. This receptacle must be wired in accordance with the National Electrical Code.

Electronic Expansion Valve (EEV) After 1/20 On Remote Cases Only

A traditional TXV uses springs and a temperature bulb to open and close a valve port that controls the flow of refrigerant entering the evaporator coil. An electronic expansion valve (EEV) controls the refrigerant flow much more precisely, increasing the performance and efficiency of the refrigeration system. The EEV controls the flow of Refrigerant by opening and closing the valve port based on the response to signals sent to the EEV by an electronic controller. The electronic Control bases these signals by processing information provided from a temperature sensor and pressure transducer located on the discharge side of the evaporator coil.

These sensors monitor the evaporator superheat and protects the compressor from any liquid flood back under low superheat conditions.

EEV Controller Settings

The electronic expansion valve controller also allows the use of different types of refrigerants without the need to change the expansion valve.

The controller is set from the factory to run on 449A refrigerant and will not need any changes to the control unless another refrigerant is used.

Note: Check your State and Local regulations for approved refrigerants for your install location. Federal Industries is not liable for any alternate refrigerants used.





The control is located in the base of the case to the left of the electrical connection box.

Note: Never change any of the other setting other than the refrigerant type. It may also be necessary to change the superheat setting only when using a different refrigerant.







Indicator lights	
	Red light - critical alarm (system is NOT running)
	Yellow light - non-critical alarm (system running)
	Green light - compressor on
	Green blinking - compressor waiting on timer to start/stop

Changing Refrigerant

- Access the set point mode by pressing and holding the **ENTER** button until Ctl displays on the screen.
- Use the  up or  down arrows to advance through the available set points until rFG displays on the screen and press the **ENTER** button.
- Use the  up or  down arrows until the desired refrigeration displays on the screen and press and hold the **ENTER** button until rFG once again displays on the screen.
- Press the **BACK** to return to escape the settings menue.

Changing Superheat

- Access the set point mode by pressing and holding the **ENTER** button until Ctl displays on the screen.
- Use the  up or  down arrows to advance through the available set points until SSP displays on the screen and press the **ENTER** button.
- Use the  up or  down arrows to set the desired superheat displays on the screen and press and hold the **ENTER** button until SSP once again displays on the screen.
- Press the **BACK** to return to escape the settings menue.

REPLACEMENT PARTS

MODELS: SQ3CD, SQ4CD, SQ5CD, SQ6CD, & SQ8CD

Part Description	Part Number				
	<u>SQ3CD</u>	<u>SQ4CD</u>	<u>SQ5CD</u>	<u>SQ6CD</u>	<u>SQ8CD</u>
Refrigerated System					
Condensing Unit (Self-contained only) (Before 6/16)	30-13455	30-12961	30-12961	30-12961	30-12962
Condensing Unit (Self-contained only) (After 6/16)	30-20516	30-12961	30-12961	30-12961	30-20517
Compressor (Self-contained only) (Before 6/16)	30-15035	30-15036	30-15036	30-15036	30-15037
Compressor (Self-contained only) (After 6/16)	30-XXXXX	30-15036	30-15036	30-15036	30-XXXXX
Evaporator Coil	33-13267	33-13268	33-13268	33-13269	33-13270
Expansion Valve (All before 1/20, Self-contained only after 1/20)	32-12625	32-12625	32-12625	32-12625	32-12625
Electronic Expansion Valve (Remote only after 1/20)	32-21228	32-21228	32-21226	32-21226	32-21226
Evaporator Fan Motor	41-11628	41-11628	41-11628	41-11628	41-11628
Evaporator Fan Blade	72-11450	72-12254	72-11450	72-11450	72-11450
Filter Drier	32-12626	32-12626	32-12626	32-12391	32-12391
Condensate Evaporator	SA-2094	SA-2094	SA-2094	SA-2094	SA-2094
Liquid Line Solenoid	32-30141	32-30141	32-30141	32-30141	32-30141
EEV Control (Remote only after 1/20)	32-21223	32-21223	32-21223	32-21223	32-21223
Temp Sensor (Remote only after 1/20)	32-21224	32-21224	32-21224	32-21224	32-21224
Pressure Transducer (Remote only after 1/20)	32-21225	32-21225	32-21225	32-21225	32-21225
Condensate Pump (Remote & Self-Serve)	47-15686	47-15686	47-15686	47-15686	47-15686

Electrical Components BEFORE 1/2019

Ballast	39-12902	39-12902	39-12902	39-12903	39-12903
Light Bulb	42-11069	42-11070	42-15440	42-11071	42-11070
Light Socket	42-12776	42-12776	42-12776	42-12776	42-12776
Ribbon Cable (8 Pin)	41-13767	41-13767	41-13767	41-13767	41-13767
OBS Ribbon Cable (12 Pin)	41-13766	41-13766	41-13766	41-13766	41-13766
OBS Temperature Probe	41-13755	41-13755	41-13755	41-13755	41-13755
OBS Logic Board	41-13744	41-13744	41-13744	41-13744	41-13744
OBS Relay Board	41-13745	41-13745	41-13745	41-13745	41-13745
OBS Parts Listed Above Replaced By	SA5963	SA5963	SA5963	SA5963	SA5963

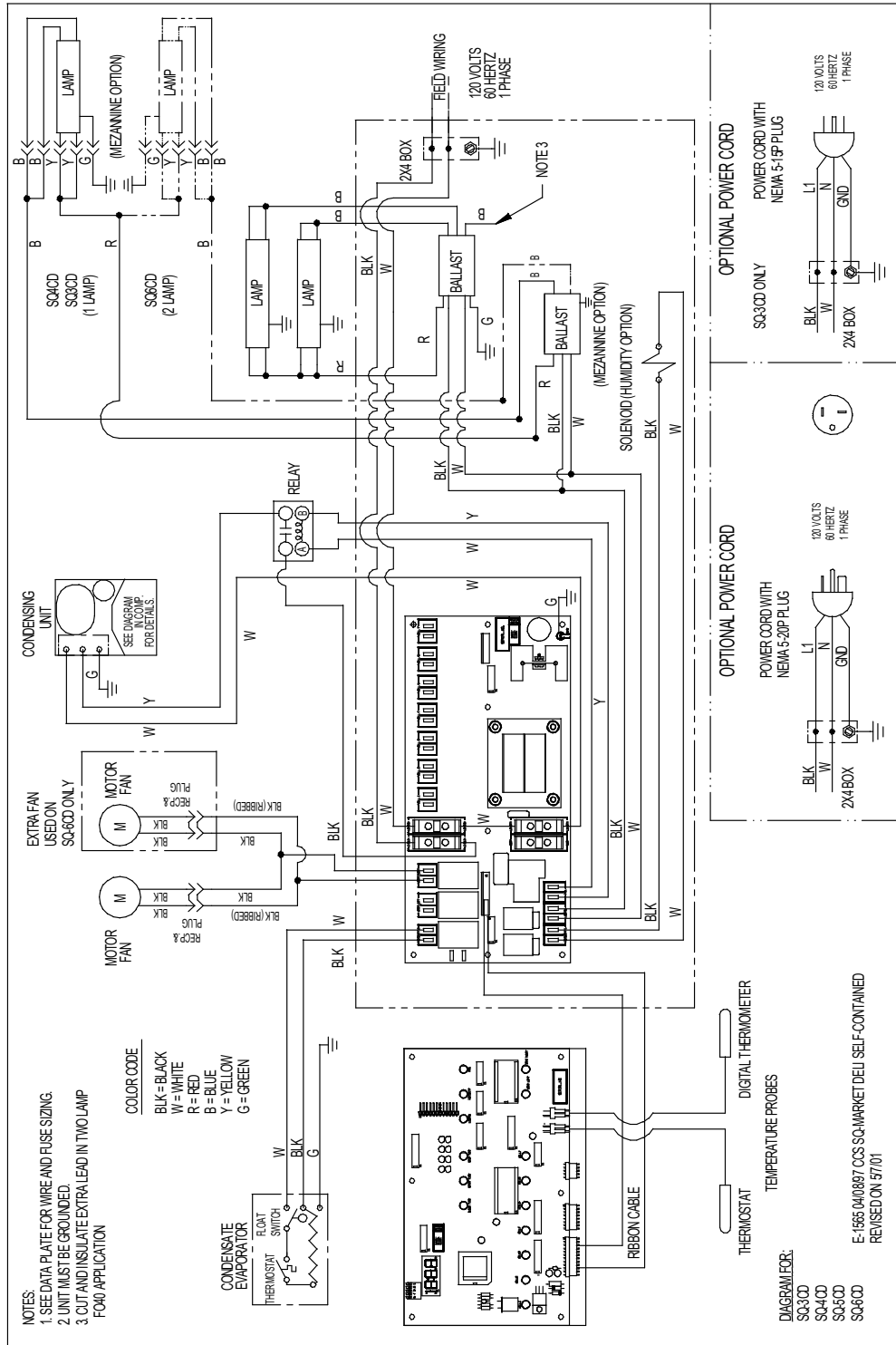
Electrical Components AFTER 1/2019

Power Supply 24V	39-20986	39-20986	39-120986	39-20986	39-20986
LED Light	42-20871- 25C35	42-20871- 38C35	42-20871- 66C35	42-20871- 42C35	42-20871- 54C35
Cord LED	43-20860-1W	43-20860-1W	43-20860-1W	43-20860-1W	43-20860-1W
Cord Jumper 6"	43-21056-1	43-21056-1	43-21056-1	43-21056-1	43-21056-1
Plug Shelf	43-20862-7W	43-20862-7W	43-20862-7W	43-20862-7W	43-20862-7W
Receptacle Shelf	43-20996-W	43-20996-W	43-20996-W	43-20996-W	43-20996-W
Electronic Control	32-19864-10	32-19864-10	32-19864-10	32-19864-10	32-19864-10
Temperature Probe	41-11066	41-11066	41-11066	41-11066	41-11066

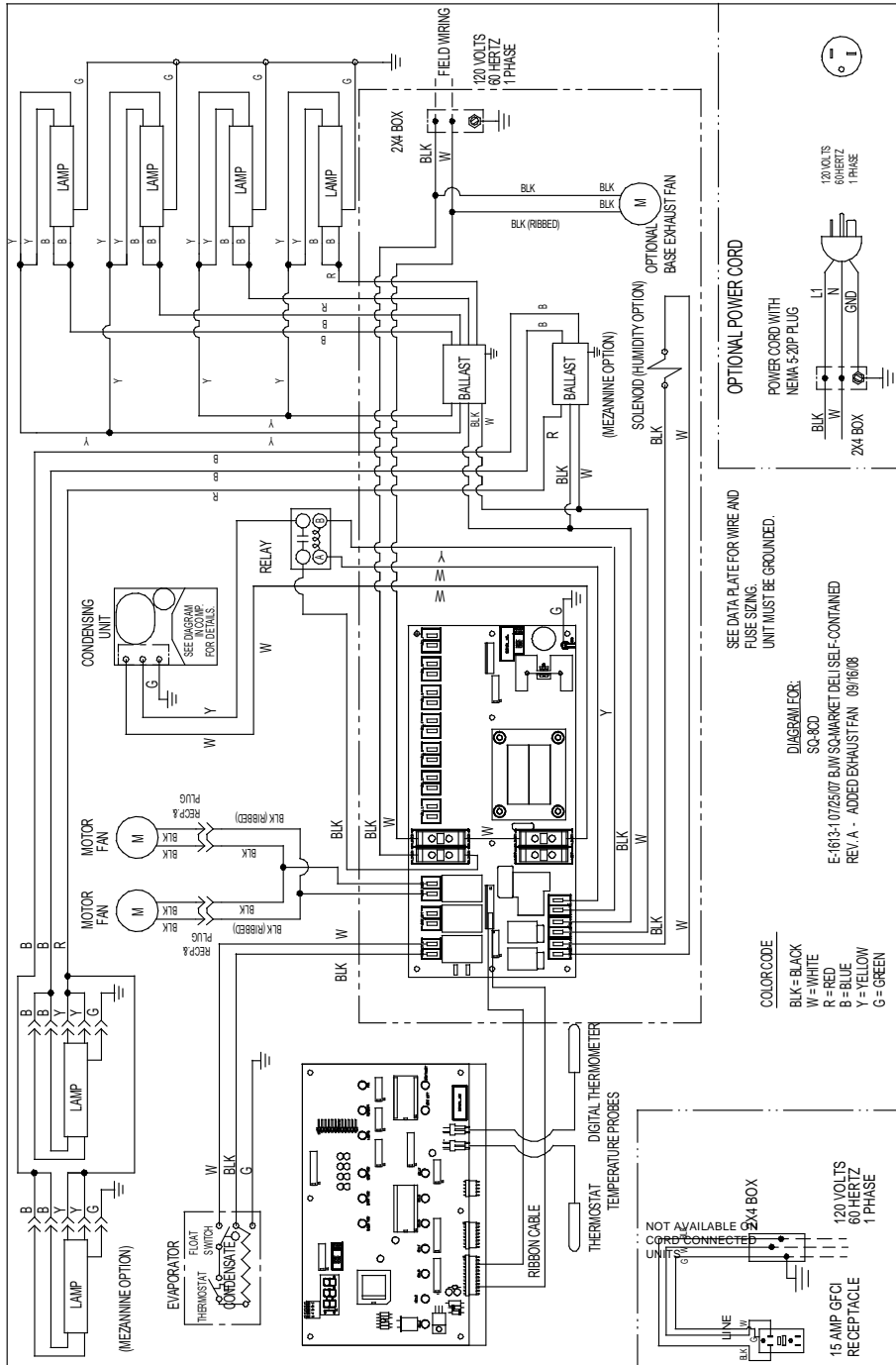
Misc. Components

Front Curved Glass	50-13028	50-13029	50-15753	50-12830	50-13831
Side Glass	51-13124	51-13124	51-13124	51-13124	51-13124
Condensation Glass	51-13161	51-13162	51-15761	51-13764	51-13765
Gas Cylinder	81-13660	81-13661	81-13661	81-13661	81-13661
Decal – Elec. Hazard	91-10743	91-10743	91-10743	91-10743	91-10743
Federal Logo Sticker	91-72523	91-72523	91-72523	91-72523	91-72523
Mirrored Side Glass(Left)	55-13249	55-13249	55-13249	55-13249	55-13249
Mirrored Side Glass (Right)	55-13248	55-13248	55-13248	55-13248	55-13248
Rear Door Glass	15-14148	15-14149	15-15762	15-14150	15-14151
Condensate Hose	15-17337	15-17337	15-17337	15-17337	15-17337

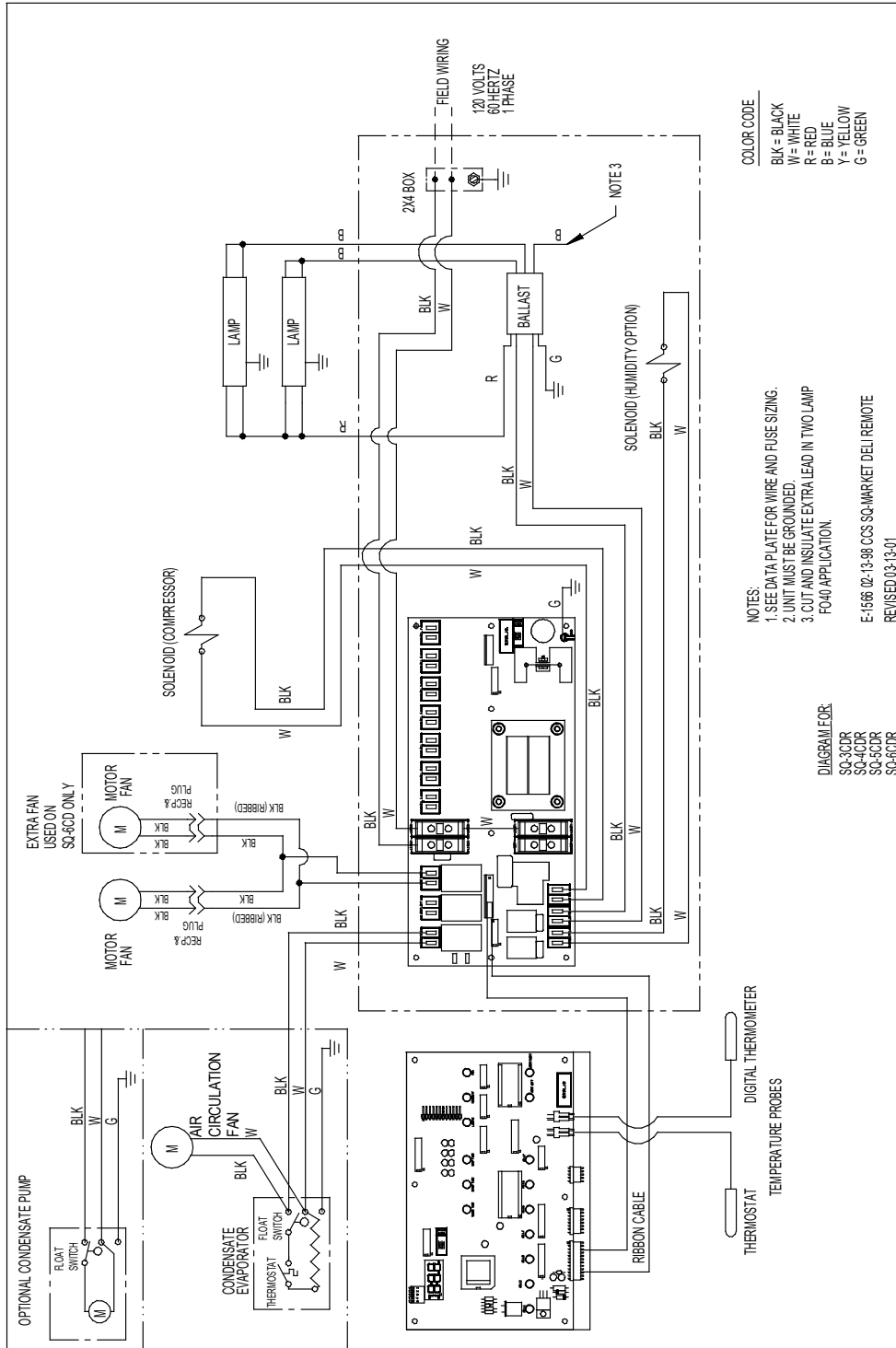
WIRING DIAGRAM - SQ3CD, SQ4CD, SQ5CD, SQ6CD BEFORE 1/2019 (SELF-CONTAINED)



WIRING DIAGRAM - SQ8CD (SELF-CONTAINED) BEFORE 1/2019

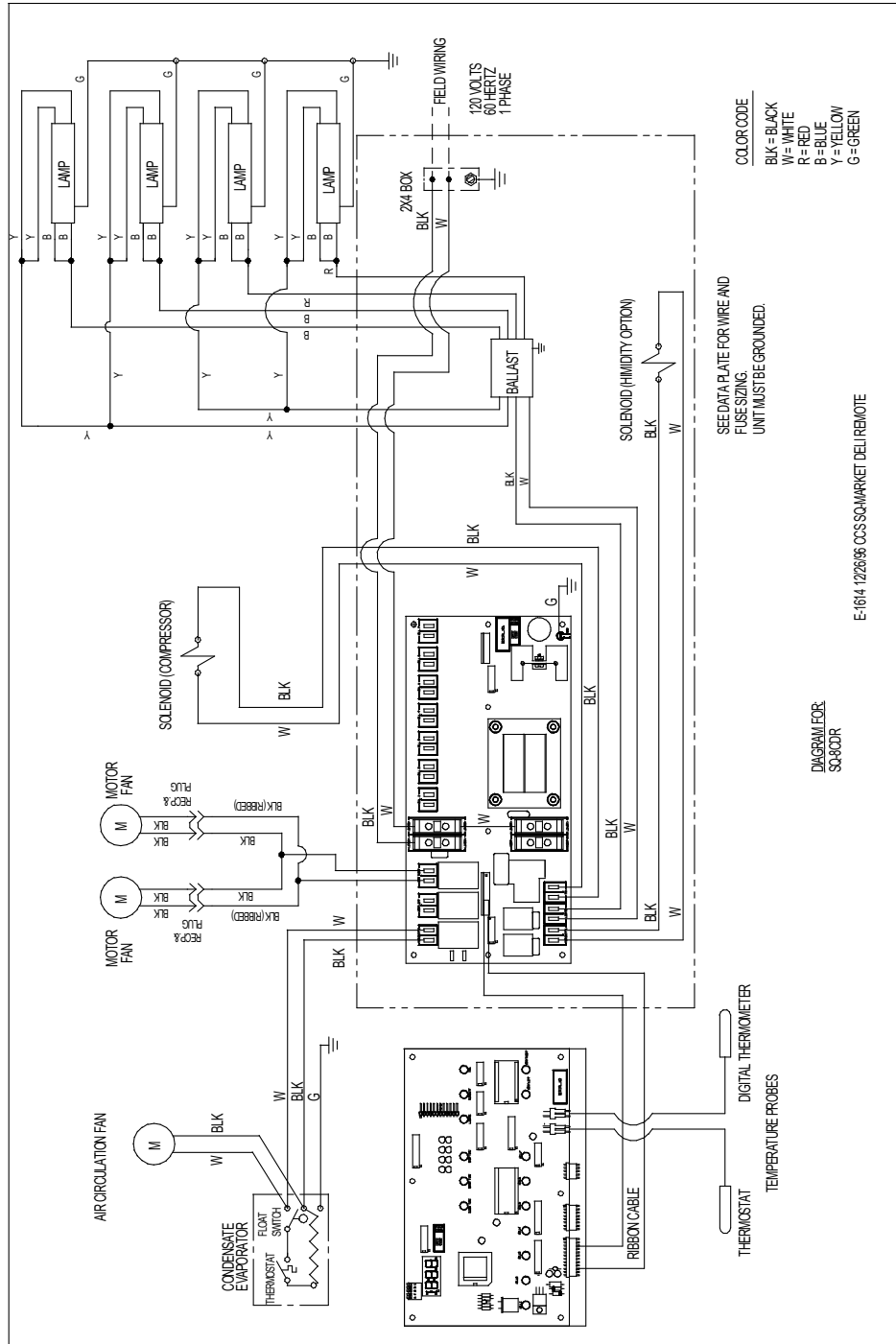


WIRING DIAGRAM - SQ3CD-R, SQ4CD-R, SQ5CD-R, BEFORE 1/2019 SQ6CD-R (REMOTE)

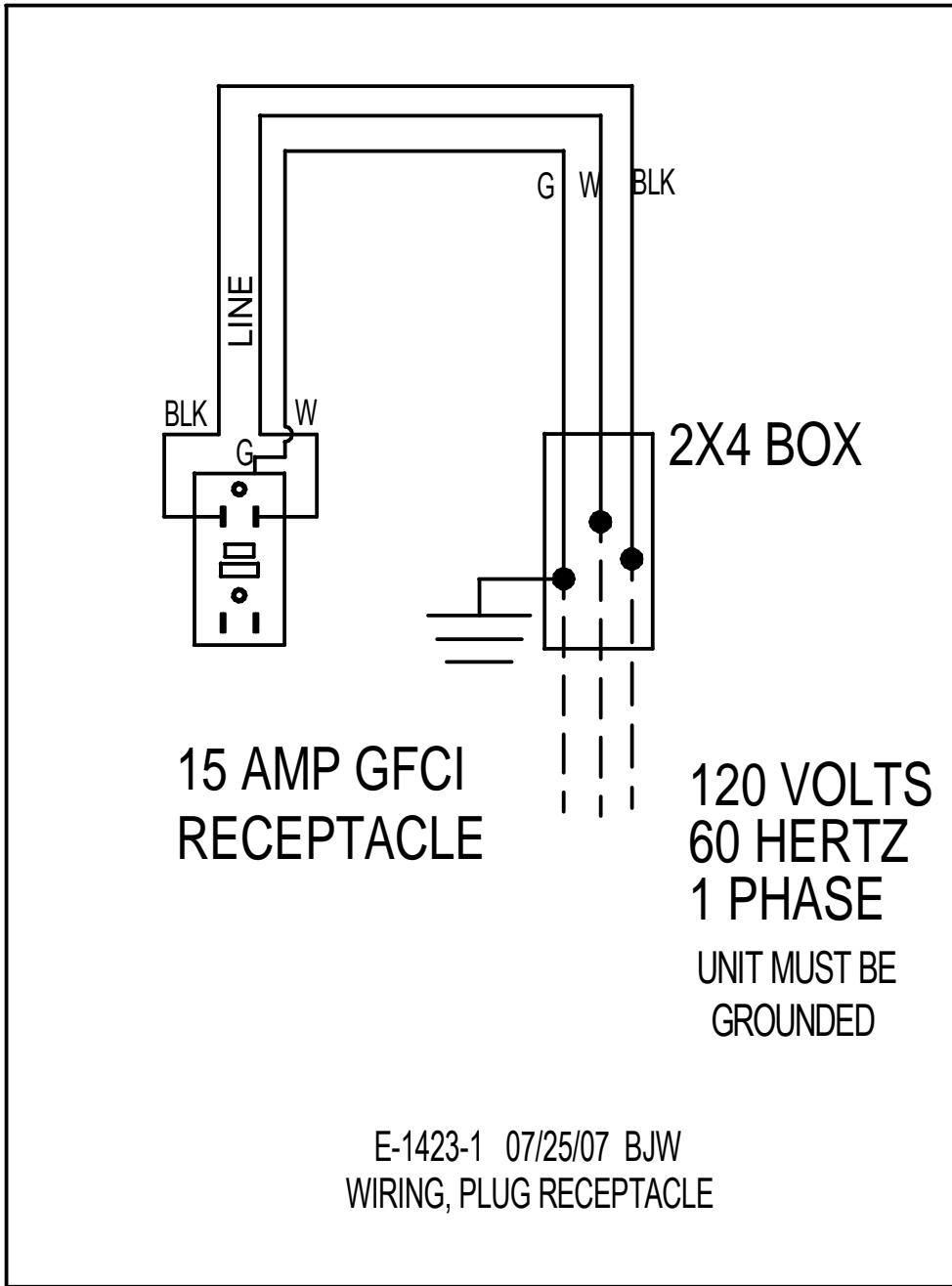


WIRING DIAGRAM - SQ8CD-R (REMOTE)

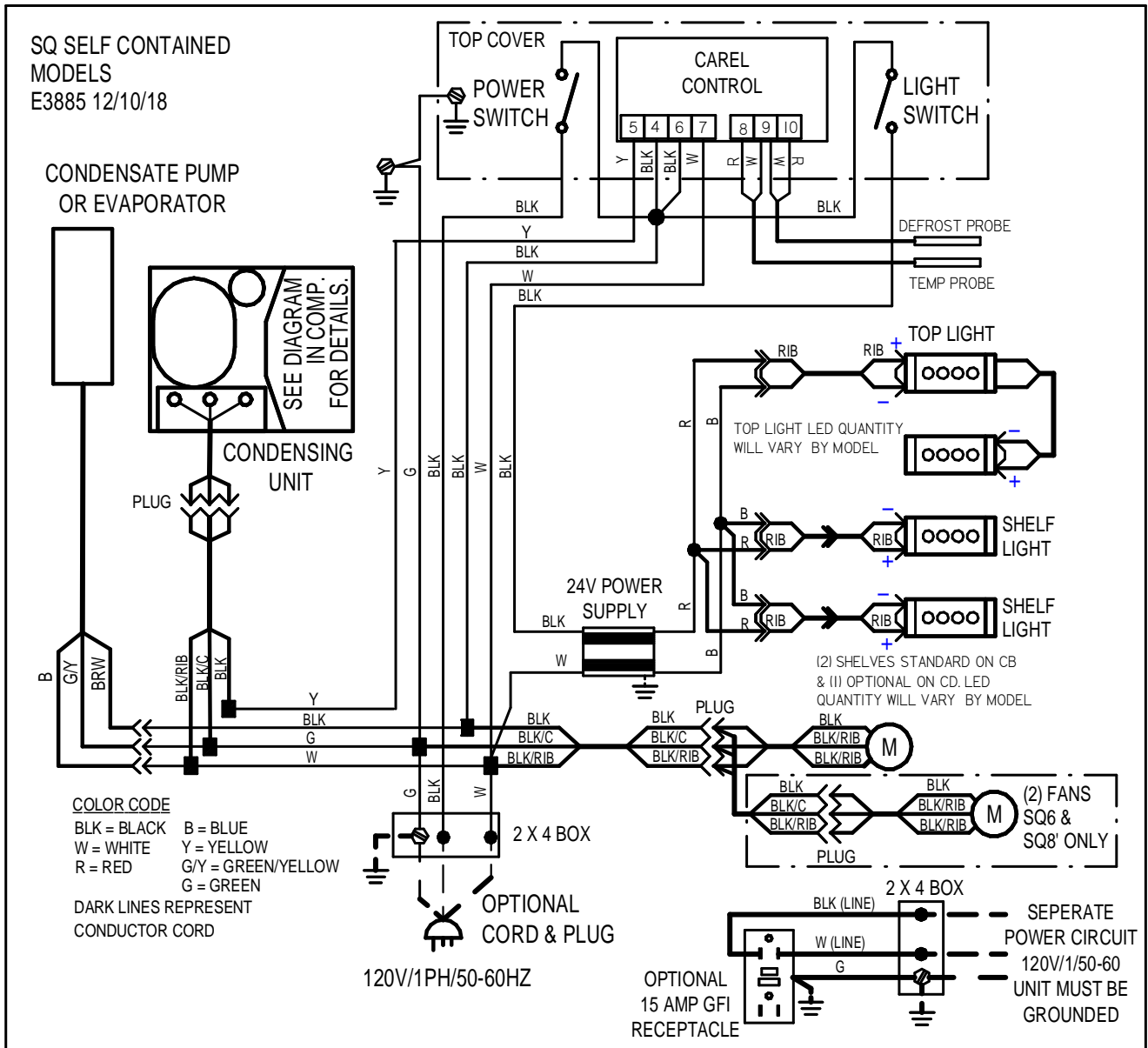
BEFORE 1/2019



WIRING DIAGRAM - RECEPTACLE

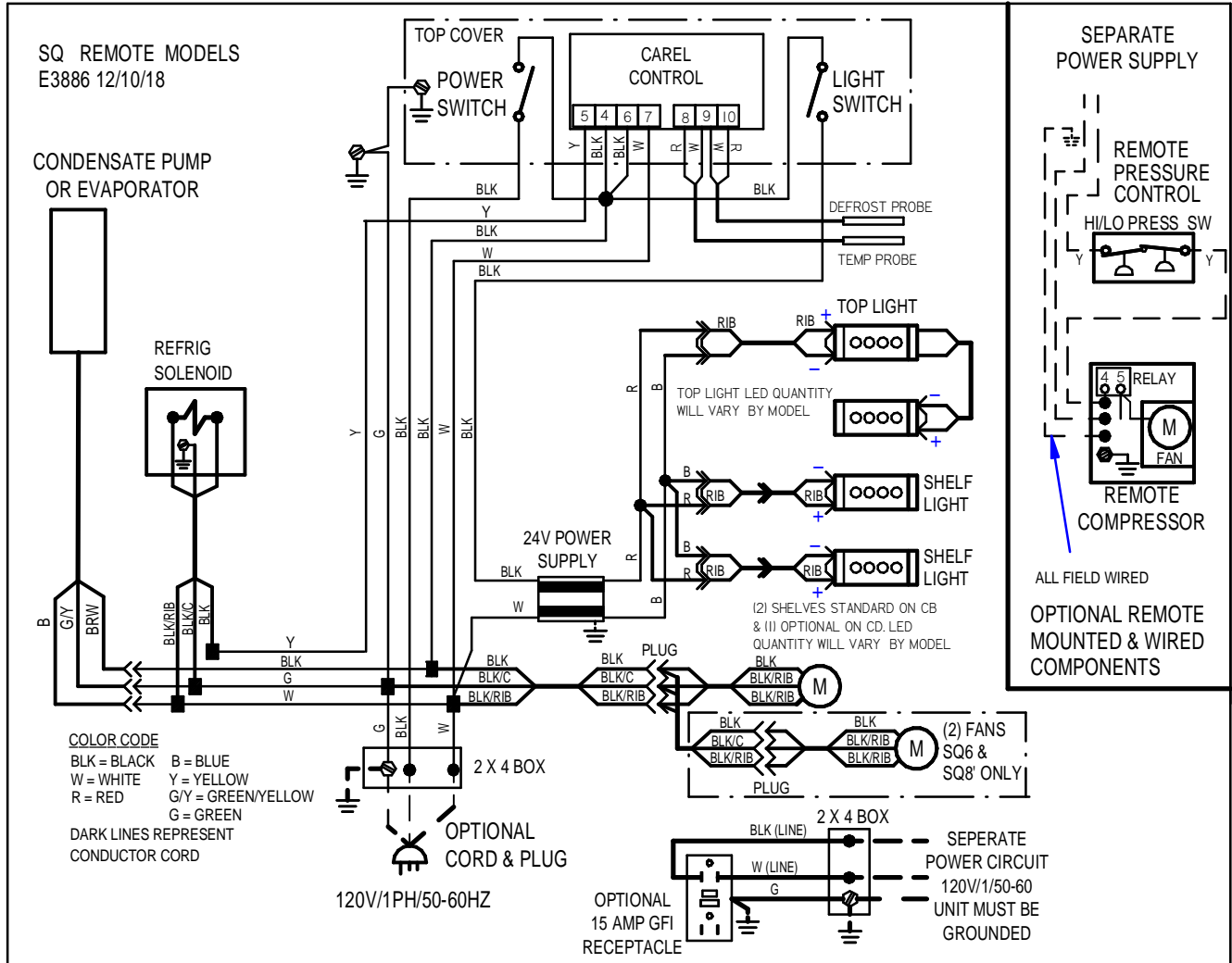


WIRING DIAGRAM - SQCD, SQCB (SELF-CONTAINED) AFTER 1/2019

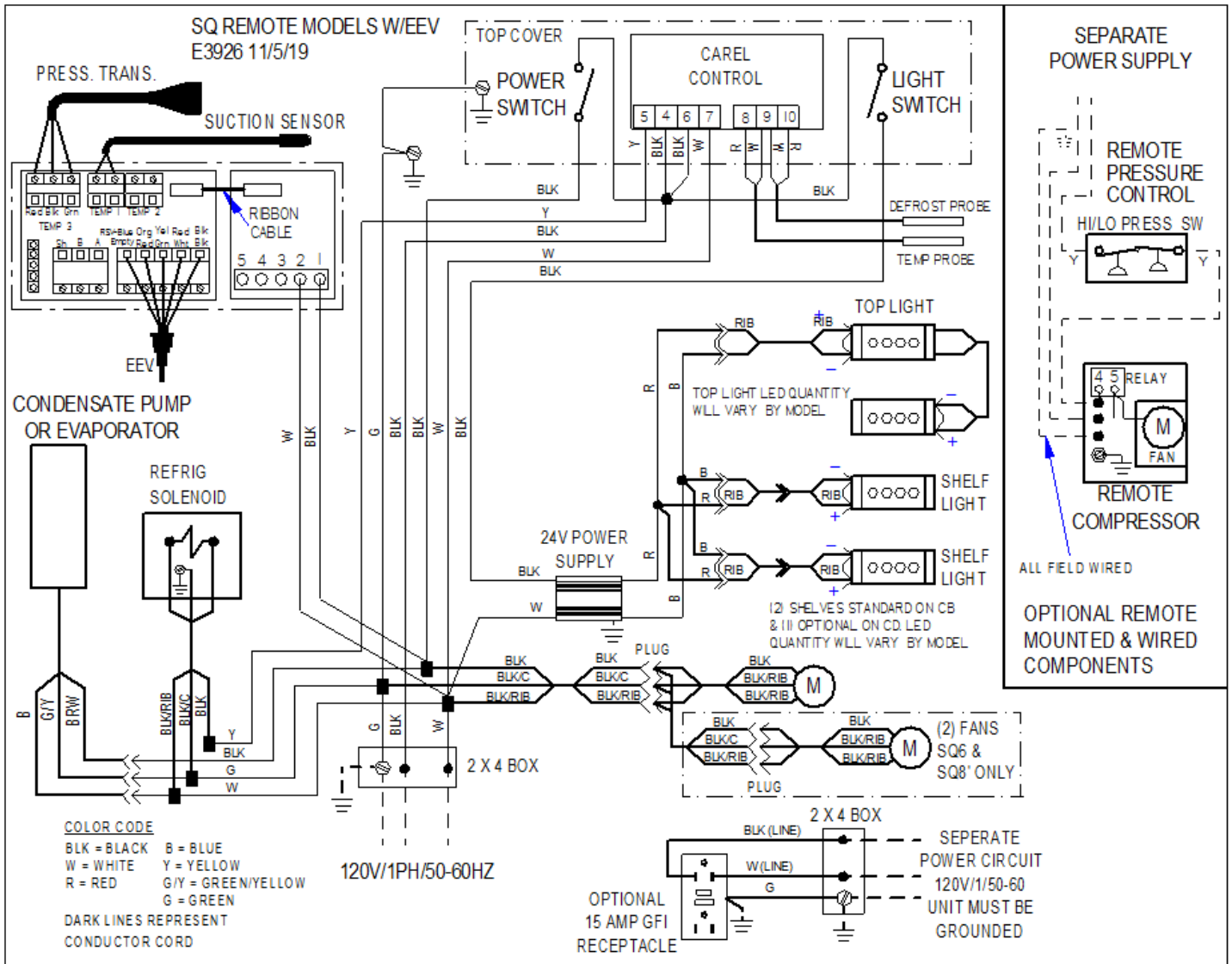


WIRING DIAGRAM -SQCD, SQCB (REMOTE)

AFTER 1/2019, BEFORE 1/2020

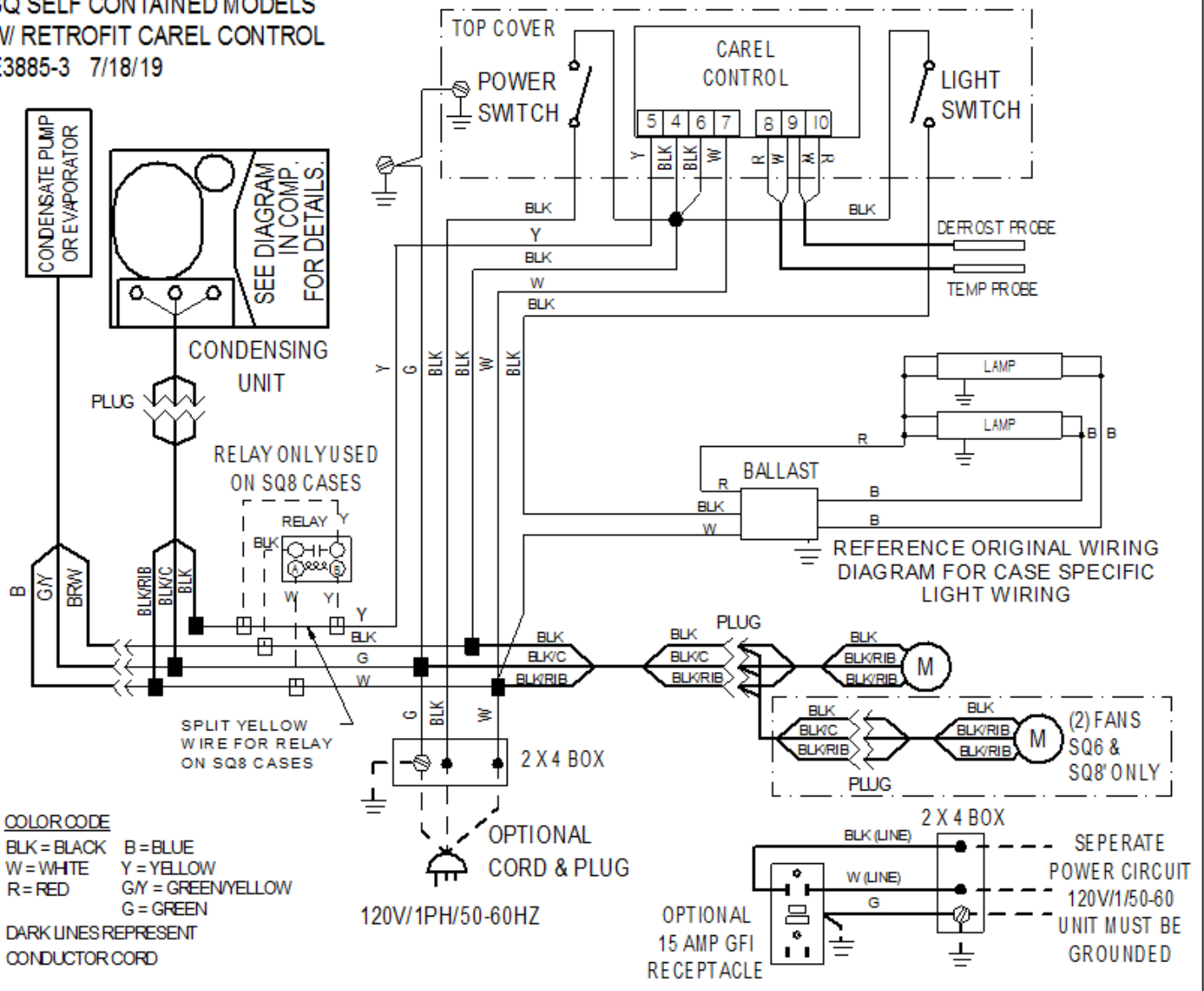


WIRING DIAGRAM -SQCD, SQCB (REMOTE W/EEV) AFTER 1/2020



WIRING DIAGRAM -SQCD, SQCB (SELF-CONTAINED) W/ RETROFIT CAREL CONTROL AFTER 1/2019

SQ SELF CONTAINED MODELS
W/ RETROFIT CAREL CONTROL
E3885-3 7/18/19



REV	CHANGE RECORD	APP'D	DATE	ECN#
B	LED LIGHT UPDATE & CAREL CONTROL CHANGE	SES	12/11/18	3380
C	COMBINED REPLACEMENTS PARTS LISTS NOTED S.C. SPECIFIC PARTS ON LIST, ADDED SA5963	ADC	7/17/19	3513
D	CHANGED SC REF TO R513 FROM R134A & REM REF TO R449 FROM R134A, ADDED REM EEV INFO, UPDATED REPLACEMENT PARTS LIST	ADC	11/7/19	3550
E	ADDED CONDENSATE PUMP TO PARTS LIST	BJW	9/28/20	3650

 **WARNING**

This product can expose you to chemicals including chromium which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov