

SEQUEL

ARCHITECTURAL DIMMING SYSTEM

Operation and Maintenance Manual

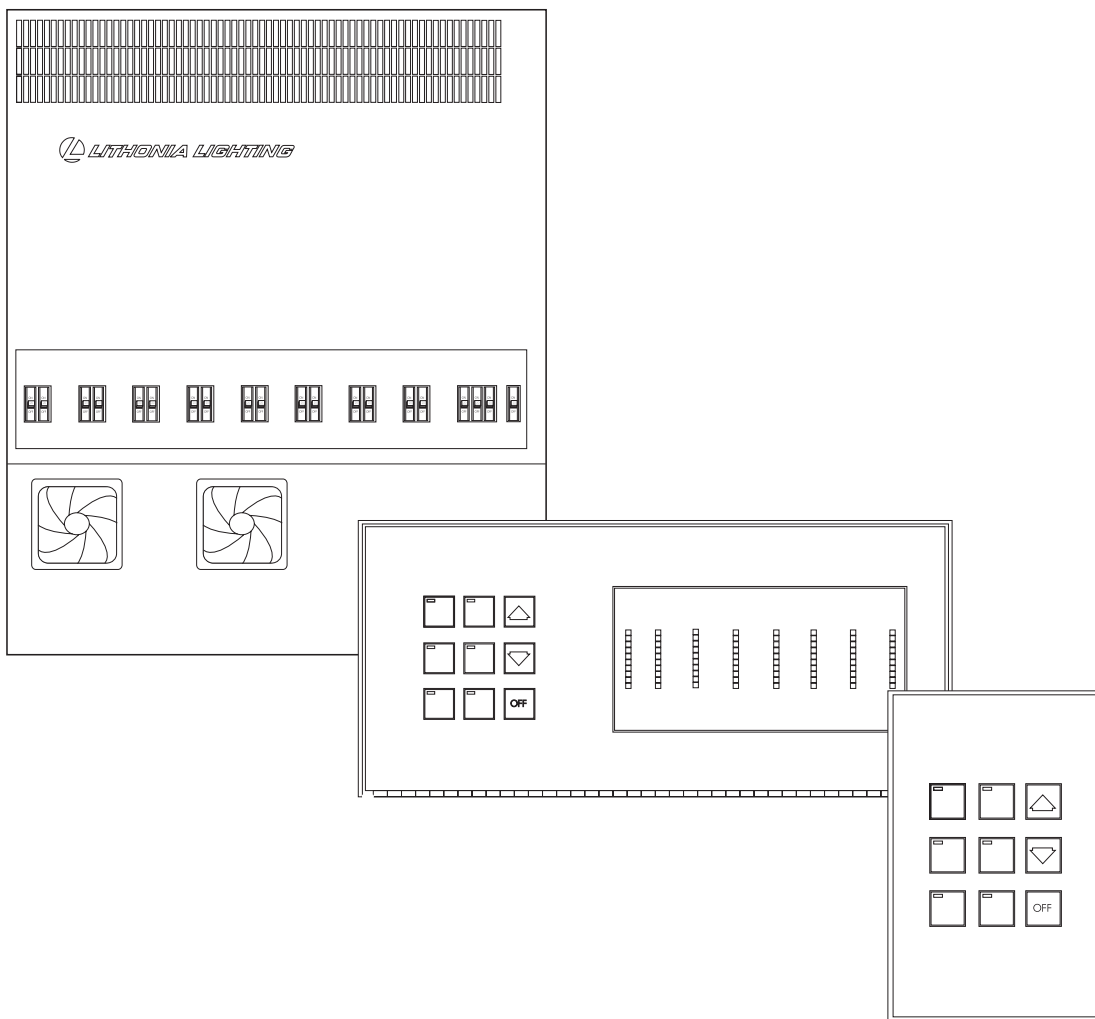


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Introduction

This manual contains the instructions needed to properly configure your Sequel Architectural Dimming System. It can also be used to modify the factory recommended configuration documented in the "LSA DOC" As-Built Drawings.

Configuring the system requires the setting of switches on the control stations and dimmer cabinets. The available settings will allow your standard system to meet a wide variety of applications. In the event that the system can not be set up to meet your needs, custom software is available from the factory, allowing almost any requirement to be met.

After you have set the switches and completed all required field wiring, follow the start up procedure on page 11 to verify proper system operation.

The Sequel system you have purchased was engineered to provide years of reliable operation in commercial applications. If, however, problems are experienced, this manual also contains an extensive troubleshooting section to diagnose and solve field issues that may arise. If assistance beyond the scope of this manual is required, contact Lithonia Controls Technical Services with the information provided on the last page of this manual.

Configuring the Control Station

The Sequel control station shown in *Figure 1* performs a variety of functions based on the setting of dip switches located on the back of the station. Settings for systems with a “M9” master dimmer cabinet may be obtained from the As-Built drawings (if provided) or by following the guide below. “Z9” systems must be set up as shown in the As-Built drawings.

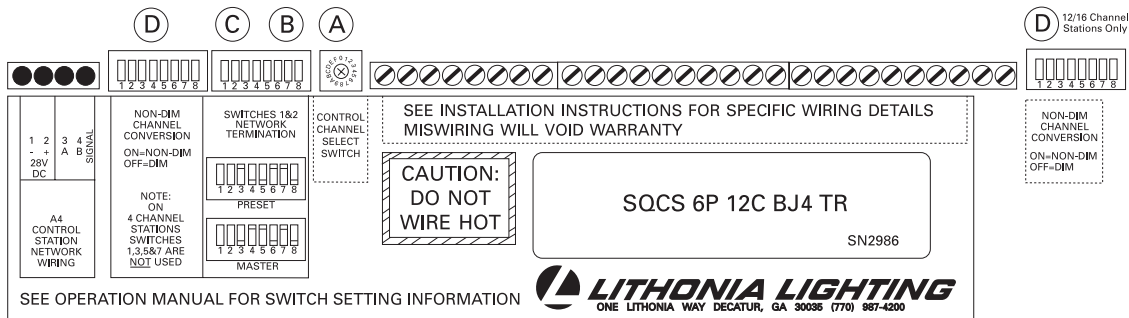


Figure 1 - Rear View of Control Station

Switch Setting	Channels Controlled	Switch Setting	Channels Controlled
0	1 — 8	8	5 — 8
1	1 — 8	9	9 — 12
2	1 — 8	A	9 — 12
3	9 — 16	B	9 — 12
4	9 — 16	C	13 — 16
5	1 — 4	D	13 — 16
6	1 — 4	E	1 — 16
7	5 — 8	F	1 — 16

Table 1: Control Channel Select Switch Settings

A Control Channel Select Switch

The control channel select switch, as shown in *Figure 1* **A** selects which channels are controlled by the control station. Dimmers, or output circuits, are then assigned to control channels so the desired control functions are obtained. For information on how to assign dimmers, see page 6, “Setting Dimmer to Channel Assignments.” If multiple Sequel control stations are used, each **must** have a different control channel select switch setting as shown in Table 1. (The following are two typical examples for determining control channel select switch settings.)

Example #1

Two eight-channel control stations are required to control the same channels. An example of this application would be a church sanctuary where all the lights are controlled from either of two locations.

Solution: Set the control channel select switch **A** to position 0 on the first station and to position 1 on the second station. As shown in Table 1, switch settings 0 and 1 allow both control stations to operate channels 1 through 8. Because there are (2) eight-channel control stations in the church sanctuary, two different switch settings are required.

Configuring the Control Station

Example #2

A second area with four channels is added to the requirements of Example 1. An example of this arrangement would be a church sanctuary and fellowship hall that require separate controls but are both supplied from the same dimmer cabinet.

Solution: Set the eight-channel stations to positions 0 and 1 as in Example 1 to control channels 1 through 8. Set the four-channel station to position 9 to control channels 9 through 12.

(B) Converting Master Buttons for Preset Operation

The master raise and lower functions can be converted to provide two additional presets. If this operation is desired, replace the up/down arrow button caps with the LED caps provided with the control station and set positions 3 through 6 of switch bank (C)(B) (figure 1) as shown below.



(Note: Remote stations are not affected by this conversion and may be wired to provide either preset or master functions.)

(C) Control Network Termination Switch

As shown in Figure 6 on pages 9 and 10, the control station network cable must be run in a daisy chain (*in and out fashion*). The last station on the network must be terminated by turning on positions 1 and 2 of switch bank (C)(B) (figure 1) as shown below. Figure 6 on pages 9 and 10 also illustrates common network wiring configurations, and control network termination switch settings for each station.



(D) Converting Dimmed Channels for Non-dimmed Operation

A non-dim channel is used for loads that are to switch on and off only. Any or all channels can be converted to non-dim operation by turning on the corresponding position of switch bank (D) (figure 1). In eight-channel stations, the positions correspond to the channels as they appear from left to right. In four-channel stations, positions 2, 4, 6 and 8 correspond to the channels from left to right. Twelve and sixteen channel stations contain an additional bank of non-dim conversion switches that correspond to bargraph positions 9 - 16.



Example: Eight-channel station with leftmost and rightmost channels converted to non-dim operation.

Example: Four-channel station with leftmost and rightmost channels converted to non-dim operation.

Configuring the Control Station

Record Your Control Station Configuration Below

Up to eight control stations (and 16 remote stations) are supported by the Sequel master dimming cabinet. Record your control station switch configurations below. The first three lines are completed and represent the examples as described in the previous sections. (The sanctuary control stations are configured for eight presets of operation, and channels 1 and 8 are configured for non-dim operation. The fellowship hall control is configured for master raise/lower operation and is terminated because it is the last station on the network. Channels 9 and 12 are configured for non-dim operation.)

Location	Channels Controlled	(D) Non-Dim Bargraph Positions 1-8	(C) (B) Termination Master	(A) Control Channel Select Switch	(D) Non - Dim Bargraph Positions 9-16
Sanctuary	1 - 8			0	
Sanctuary	1 - 8			1	
Fellowship Hall	9 - 12			9	

Configuring the Dimmer Cabinet

Setting System Network Termination

The SQ M9 120 (or 277) System Controller Board is located in the bottom slot of the card rack in the lower left hand corner of the dimmer cabinet. Settings on this card are made based on the position of the master (M9 or Z9) dimmer cabinet in the Control Station Network Cable (A4) and Dimmer Network Cable (B2) networks. Secondary cabinet SQ S9 120 (or 277) System Controller Boards do not contain the switches to make these settings. Refer to Figure 6 on pages 9 and 10 for examples of termination settings for common network configurations.

CAUTION: TURN OFF ALL POWER TO THE CABINET BEFORE REMOVING THE CARD FROM THE RACK. HIGH VOLTAGES ARE PRESENT.

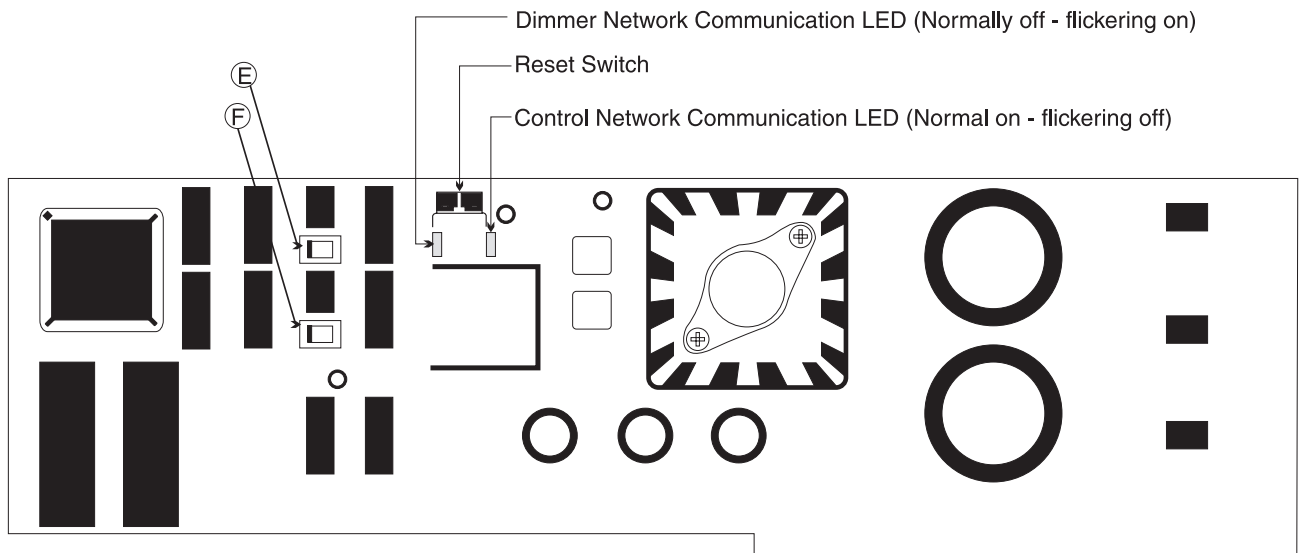


Figure 2 - SQM9 SYSTEM CONTROLLER BOARD

- (E) Control Network Termination Switch**
This switch should be "on" for cabinets at the end of the Control Station Network cable (A4), and "off" for cabinets in the middle of the Control Station Network cable (A4). See Figure 6 on pages 9 and 10 for common networking examples.
- (F) Dimmer Network Termination Switch**
This switch should be "on" for cabinets at the end of the Dimmer Network cable (B2), and "off" for cabinets in the middle of the dimmer network. See Figure 6 on pages 9 and 10 for common networking examples.

Configuring Dimmer Cabinet

Setting Dimmer to Channel Assignments - SQDC Cabinets

The SQ DIMMER SERVICE BOARD is located in the top slot of the card rack in the lower left corner of the dimmer cabinet. Settings on this card allow the power module outputs (dimmers) to be controlled by any Sequel control station channel. Proper settings may be obtained from the system As-Built drawings or by following the guide below.

CAUTION: TURN OFF ALL POWER TO THE CABINET BEFORE REMOVING THE CARD FROM THE RACK. HIGH VOLTAGES ARE PRESENT.

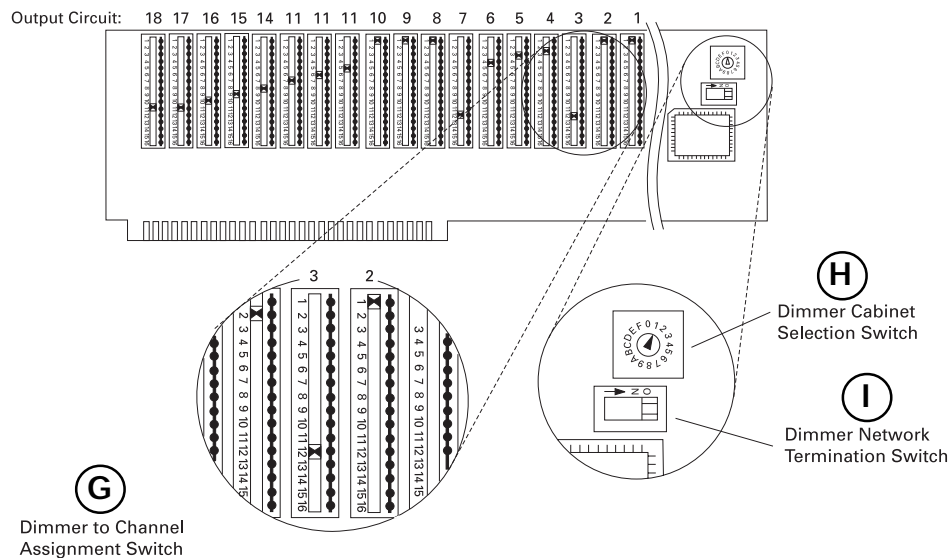


Figure 3 - SQ DIMMER SERVICE BOARD

- (G) Dimmer to Channel Assignment Switches**
 Dimmer to channel assignment switches are located on the upper board in the card rack. Remove the board from the card rack by grasping at both ends and pulling out with a slight side-to-side rocking motion. Each switch represents one of the 18 possible positions for outputs within the SQDC dimmer cabinet. The 16 switch positions correspond to control channels (see page 2 (A)). The figure above illustrates output #2 controlled by channel 1, and dimmer #3 controlled by channel 12. Any number of outputs (dimmers or non-dims) may be set to the same control channel. When sliding the switches to their correct settings, take care to make sure the switch is properly seated. Outputs set to nonactive channels will remain *on* at full intensity. It is not necessary to set switches corresponding to unused dimmer positions.
- (H) Dimmer Cabinet Selection Switch**
 Set each dimmer cabinet to a different setting on the dimmer cabinet selection switch. The first cabinet is 1, and the last is E. Zero (0) and F are not used.
- (I) Dimmer Network Termination Switch**
 Set the dimmer network termination switch to the *on* position in the first and last dimmer cabinets connected to the twisted pair dimmer network "B2". See Figure 6 on page 9 and 10 for common examples of network wiring.

Configuring Dimmer Cabinet

Setting Dimmer to Channel Assignments - SQMPDC Packs

The SQMPDC S2 Cabinet is a compatible accessory to the Sequel system. Setting the dip switches on the dimmer card in the SQMPDC dimmer pack determines which outputs are controlled by the Sequel Control Station Channels. The numbers to the left of the switches correspond to the control channels associated with the four outputs of the dimmer pack. Turn "ON" switches 9 & 10 (J) if this pack is the last cabinet on the "B2" network. See figure 6c for details.

The example below shows Pack one at the end, and Pack two in the middle of the "B2" network. Pack one outputs 1 and 2 are controlled by channels 1 and 2, and Pack one outputs 3 and 4 are controlled by channel 3. Pack two is controlled entirely by channel 6. Note that control channels must repeat or be in ascending order with respect to outputs. Switch settings for all possible dimmer to channel assignments are illustrated below and on page 8. Consult LCS if custom dimmer to channel assignments are a requirement.

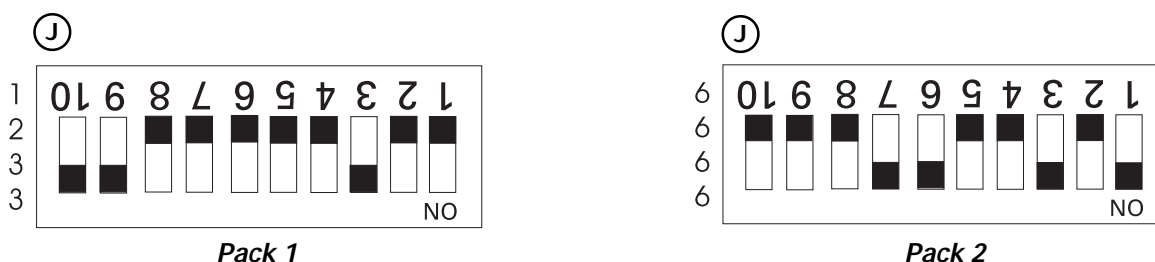
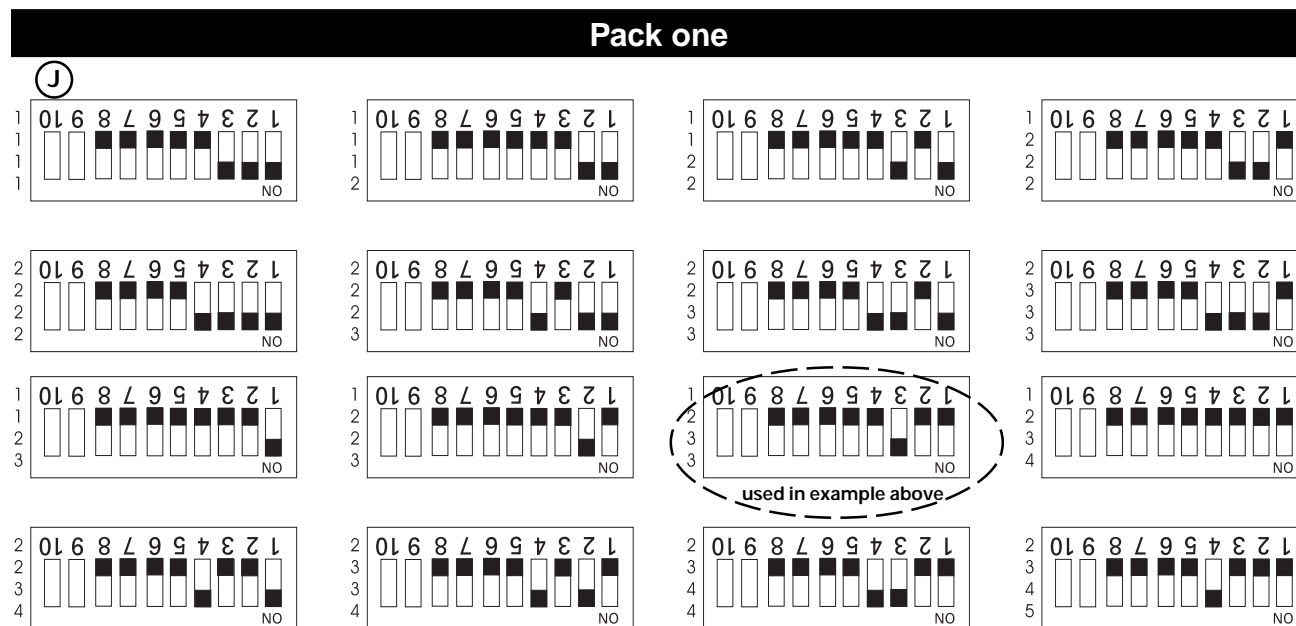
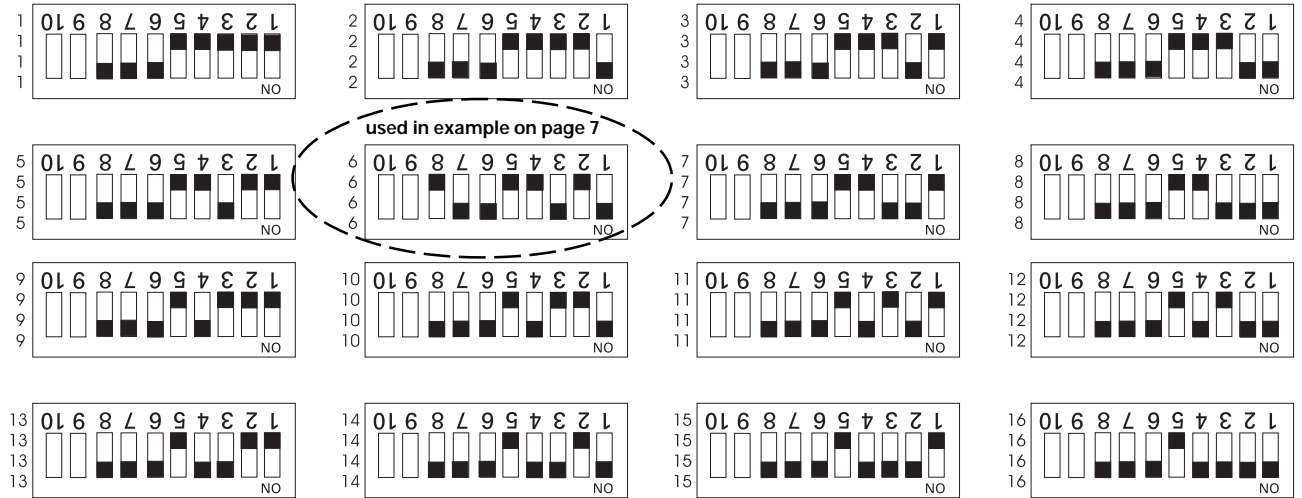


Figure 4 - EXAMPLE SWITCH SETTINGS



Configuring Dimmer Cabinets

Pack two



Pack three

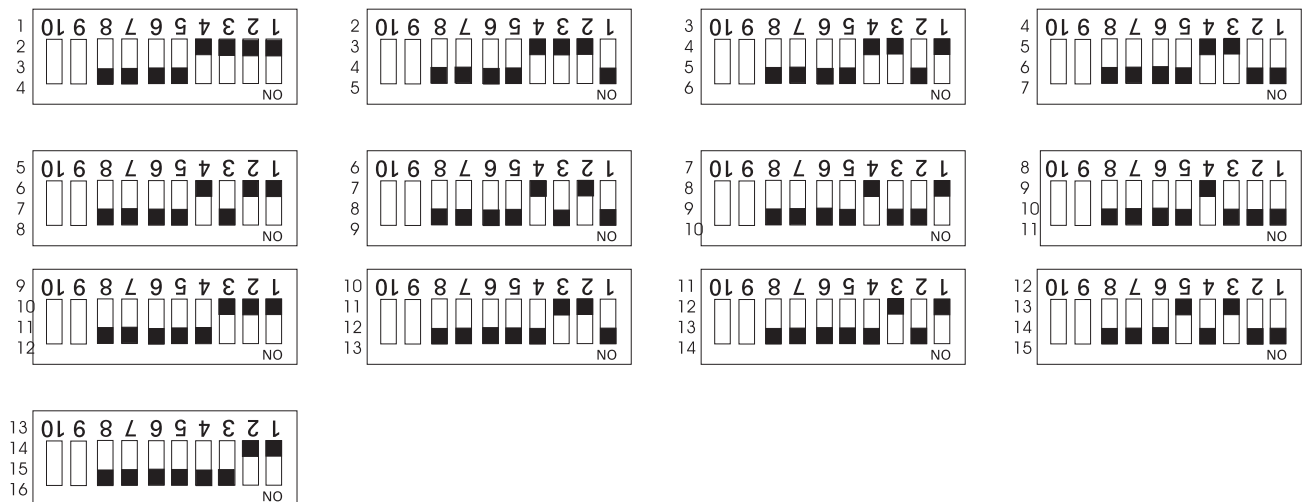
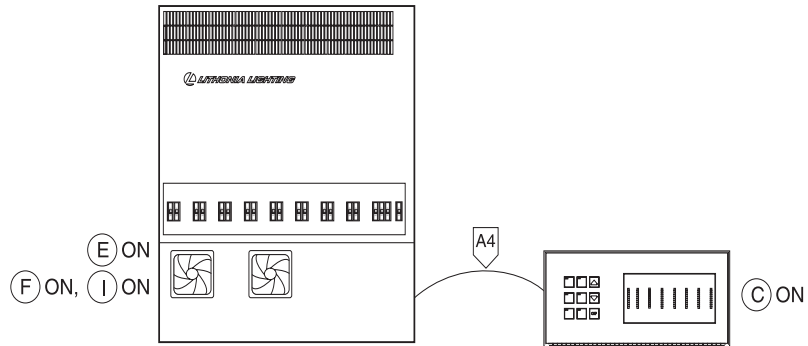
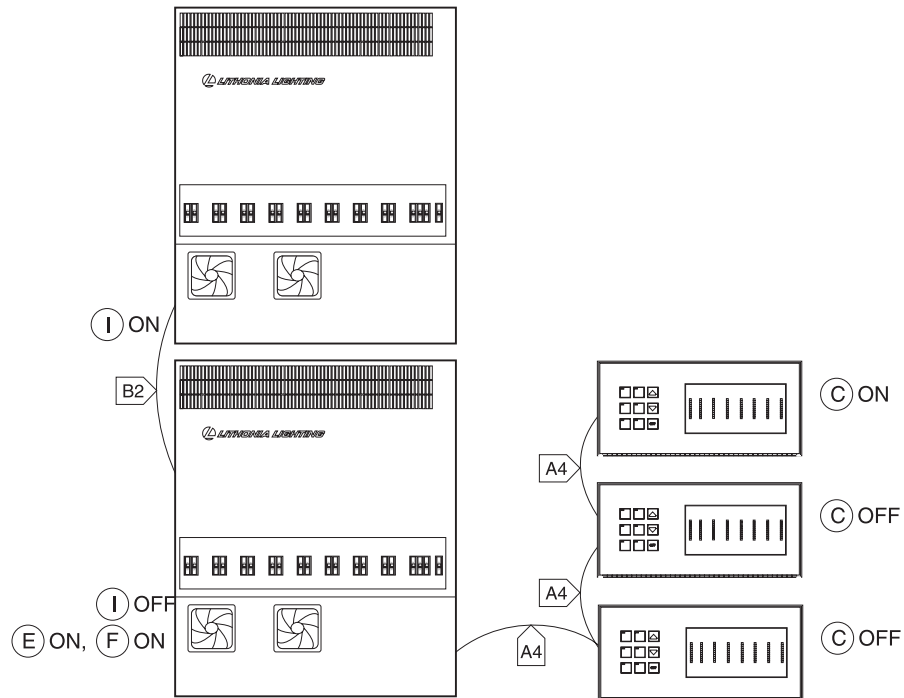


Figure 5 - SQMPDC channel assignment switch settings

Common Examples of Network Wiring



Example A

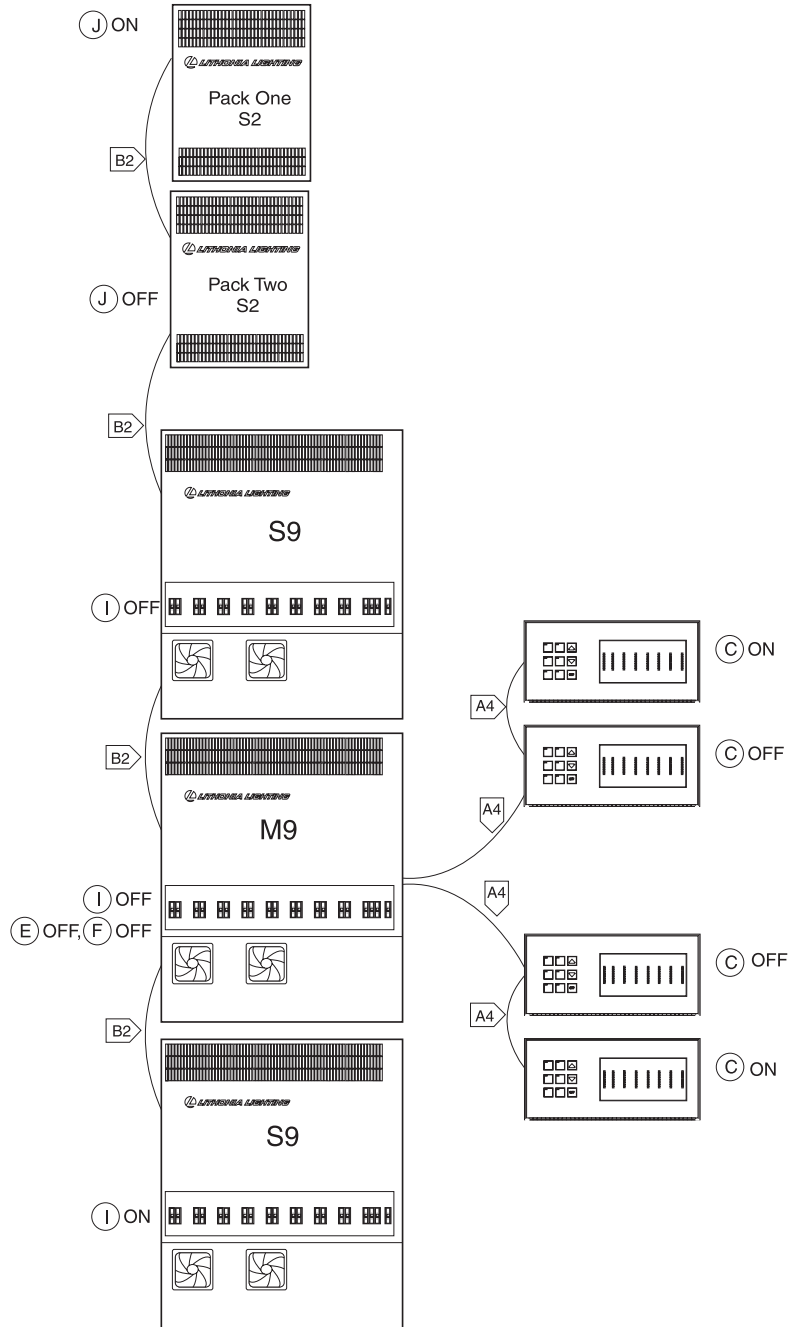


Example B

- A4 Control Station Network Cable
- B2 Dimmer Cabinet Network Cable

Figure 6 - Common Network Termination Examples

Common Examples of Network Wiring



Example C

Figure 6 - Common Network Termination Examples

Installation Procedure - Start Up

Before beginning the start up procedure, you should have completed the following steps:

- Completed all main and branch circuit wiring.
- Terminated all low voltage wiring connections external to the cabinets.
- Configured the control stations (see pages 2-4).
- Configured the dimmer cabinets (see page 6-8).
- Familiarized yourself with basic control station operation found in the Sequel User Guide.

Start Up Procedure

1. Measure Network Voltages

This step tests for network miswires and may prevent damage to equipment in cases where miswires have occurred.

- a) With the main lugs and control breaker (#20) energized, measure the DC voltages between the network terminals in the master dimmer cabinet and at the control station network pigtail connectors. At this stage, the pigtail connectors are still disconnected from the back of the station. If the voltages you measure are not within the range shown below in figure 7, immediately turn off the control breaker and verify field wiring connections. See troubleshooting guide if there were no miswires found or if not enough voltage was present on red and black wires. If the voltages you measure are within the ranges shown, turn off control breaker #20, attach pigtail connectors to each station, then turn on the control breaker (#20) and proceed to step2. See Figure 7 below.

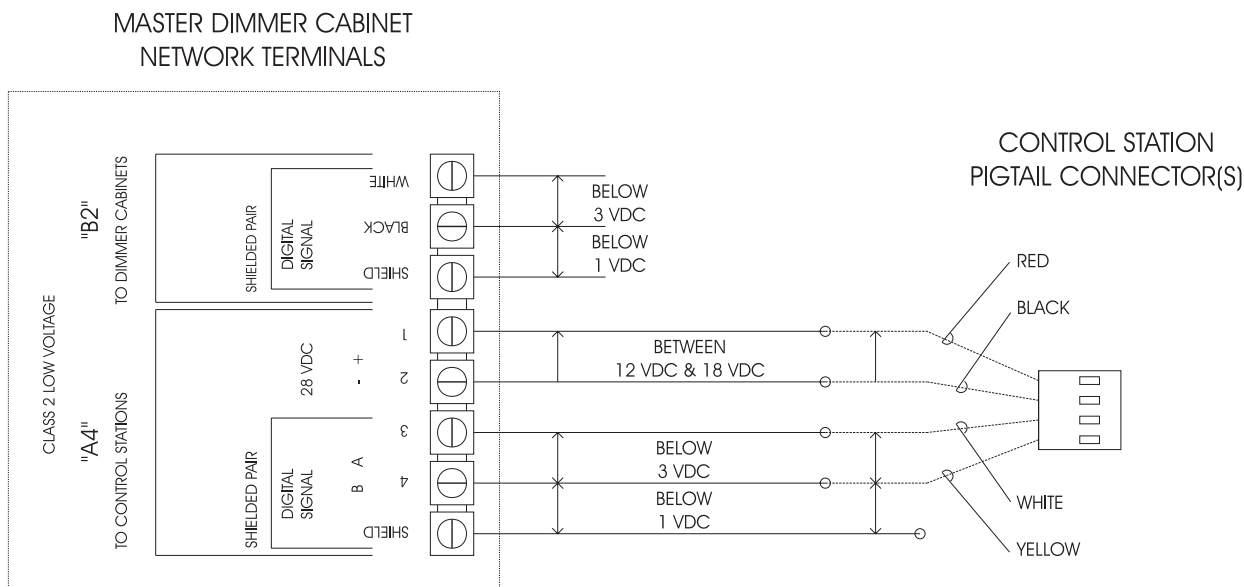


Figure 7 - Test Points and Correct Network Voltages

Start Up Procedure

2. Reboot the System

This step clears the microprocessor memory, reloads the factory default settings, and eliminates poor performance that can be a result of improper shipping and storage.

- a) With the control breaker (#20) energized, hold in the reset switch on the system controller board shown on page 5. Continue holding the switch in until completion of step d.
- b) Turn off the control breaker until the LED's behind the reset switch have gone out (about 10 seconds).
- c) While still holding the reset switch, energize the control breaker.
- d) When the 2 LED's behind the reset switch turn back on (about 10 seconds), release the reset switch.
- e) Verify that rebooting was successful by noting that LED's behind reset switch are operating normally as indicated in figure 2 and that the control station channel bargraphs and dimmers are at full intensity. If reboot was not successful repeat a-d.
- f) If the LED's are not responding normally, go to troubleshooting section.

3. Verify Proper Operation of Controls

- a) Operate the control station channel and master raise/lower buttons. Observe that the LED bargraphs scroll smoothly. If bargraphs do not scroll smoothly or if top segment flashes without any buttons being pressed, refer to troubleshooting section.
- b) Operate lighting presets. Following the instructions in the User Guide save and activate presets. If presets are not able to be saved, remove the select button cap and verify that the switch behind it is in the "enable" position. Setting this switch in the disable position prevents presets from being saved, and the dimmer curves and high and low end trims from being set. See figure 8 below.

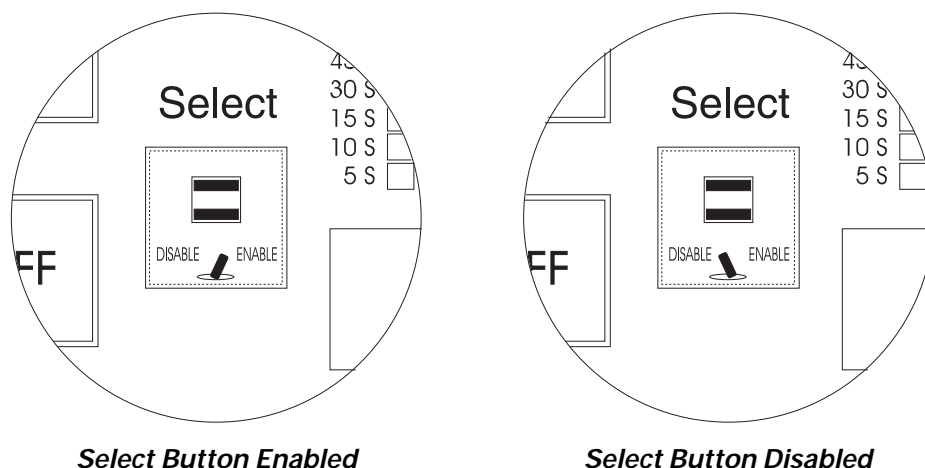


Figure 8 - Select Enable/Disable Switch

4. Verify Proper Operation of the Dimmers
 - a) Operate the control station one channel at a time. The correct dimmers should respond smoothly and operate over the full range of light output from minimum to maximum. If the correct dimmers are not responding, review dimmer to channel assignment settings determined on pages 6 - 8, or provided with your As-Built drawings.
 - b) Dimmer response curves can be set to optimize operation with a variety of light sources. If loads are flickering at low settings or need to be adjusted to restrict full output, follow the setup steps below.

MODIFYING THE DIMMER RESPONSE CURVE

Press and hold the *Fade Time Decrease* button. While holding the *Fade Time Decrease* button, press and release the *Fade Time Increase* button. Release the *Fade Time Decrease* button. The current response curve for each channel will now be displayed as the lowest LED segment lit. See Figure 9 for lamp type reference. Factory default is for standard incandescent or halogen lamps.

Adjust the *Channel Raise* and *Lower* buttons for each channel until the appropriate lamp type is indicated. Press and release the *Select* button to save the settings.

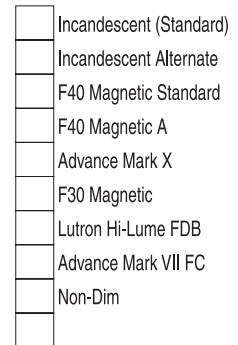


Figure 9

MODIFYING HIGH/LOW END TRIMS

High and low intensity trim limits can be set for each channel. The Low End Trim is useful to eliminate flicker in fluorescent and neon loads when dimmed too low. The High End Trim can be adjusted to save energy or extend lamp life. Low End Trims are factory set at 0%. High End Trims are factory set at 100%.

To Modify the Low End Trim

Press and hold the *Select* button then press and release the *Fade Time Decrease* button. Release the *Select* button. Note that the *Fade Time* top LED segment will blink to indicate that the station is in a special mode of operation. Adjust the *Channel Raise* and *Channel Lower* buttons until the desired Low End Trim values are displayed. Press and release the *Select* button to save the trim values.

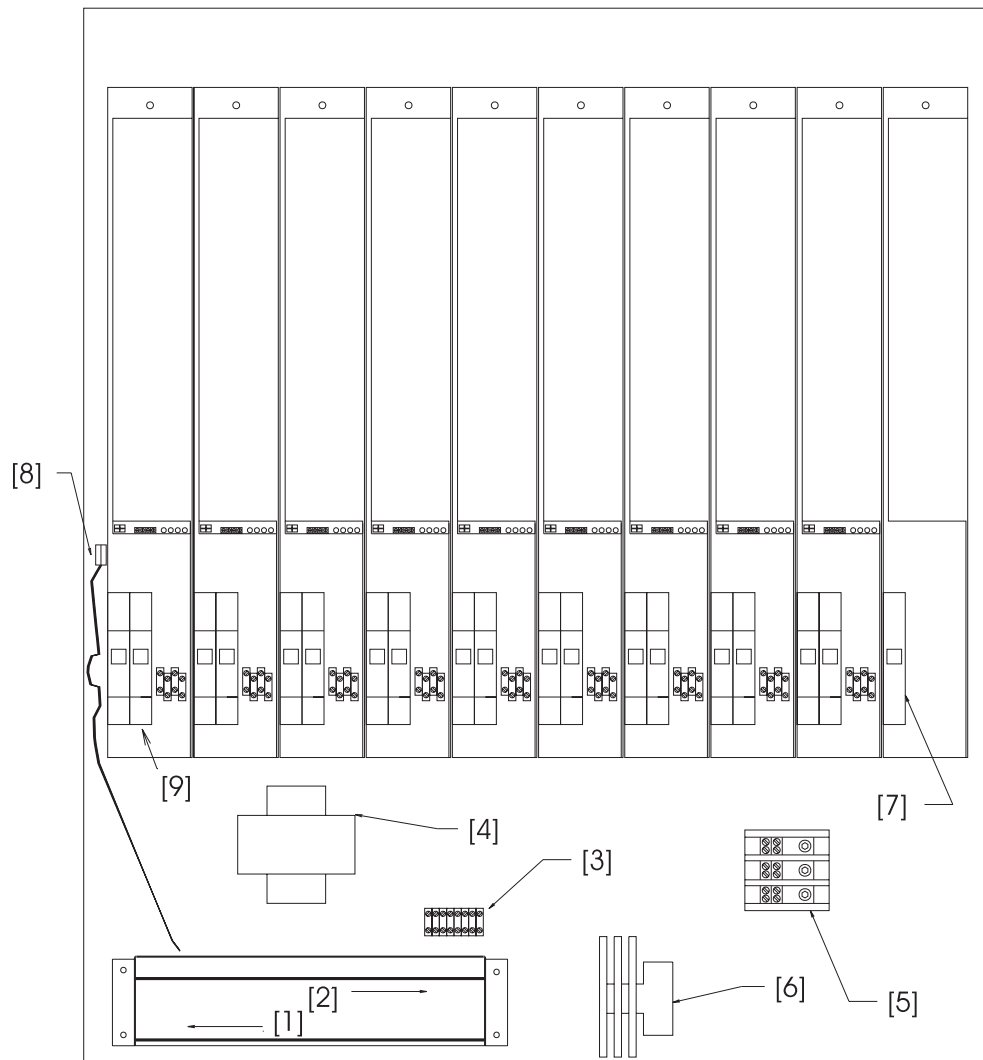
The Low End Trim also determines the point within a preset fade that a non-dim channel will switch. With a standard curve, a setting of about 50% low end trim will produce good results for non-dim channels controlling fluorescent lamps.

To Modify the High End Trim

Press and hold the *Select* button then press and release the *Fade Time Increase* button. Release the *Select* button. Note that the *Fade Time* top LED segment will blink to indicate that the station is in a special mode of operation. Adjust the *Channel Raise* and *Channel Lower* buttons until the desired High End Trim values are displayed. Press and release the *Select* button to save the trim values.

Troubleshooting Procedure

Search the following list for the problem definition closest to your symptoms. Read all of the steps associated with troubleshooting the problem and perform them in the order that is appropriate for your project. If you are in need of further assistance, call Lithonia Controls Technical Services and provide the information indicated on the last page of this manual.



- | | |
|--|---|
| <p>[1] System Controller Board
 SQ M9 120 SYSTEM CONTROLLER BOARD
 SQ Z9 120 SYSTEM CONTROLLER BOARD
 SQ S9 120 SYSTEM CONTROLLER BOARD
 SQ M9 277 SYSTEM CONTROLLER BOARD
 SQ Z9 277 SYSTEM CONTROLLER BOARD
 SQ S9 277 SYSTEM CONTROLLER BOARD</p> <p>[2] Dimmer Service Board
 SQ DIMMER SERVICE BOARD</p> <p>[3] Control Station and Dimmer Cabinet Network Termination Block</p> <p>[4] Control Transformer Part # CDEXA00013</p> | <p>[5] Main Lugs</p> <p>[6] Neutral Bar</p> <p>[7] Control Breaker</p> <p>[8] Power Module Harness</p> <p>[9] Module Input Breaker</p> |
|--|---|

Figure 10 - Troubleshooting Reference Diagram

Troubleshooting Procedure

SITUATION I: NOT ENOUGH VOLTAGE ON + AND - WIRES OF "A4" NETWORK TERMINAL BLOCK [3].

Step 1. Visually inspect leads on input and output of control transformer [4]. White and black on back of transformer should connect to neutral bar and to the output of control breaker. White wire (#6) connects to [1] pin 13 and black wire (#10) connects to [1] pin 15. Verify wire paths and check for 14 VAC between control transformer outputs #6 and #10. Make corrections as required, contact LCS for transformer replacement.

Step 2. The system controller board contains a fuse which will automatically re-close after a short is removed. If the plus (+) and minus (-) wires are shorted or overloaded this fuse will open. Remove + and - field wires from the terminal block [3]. Recheck the voltage after 1 minute. If the voltage has now returned, check field wiring for a short circuit. If it has not returned and AC voltage is present on transformer output system controller board needs replacing, contact LCS with the information requested on the last page of this manual to receive additional assistance.

SITUATION II: SYSTEM CONTROLLER LED'S ARE NOT RESPONDING NORMALLY.

Step 1. Remove field wiring from "A4" network terminals [3]. Reboot the system per the instructions in the Start Up procedure. If LED's do not respond normally after "A4" is disconnected go to Step 2. If the LED's now respond normally one of the following problems is suspected:

- a.) Control Station or optional SQRSI Interface channel select switch settings are duplicated. Verify each item on the "A4" network has a unique address. See Page 2 of this manual and (optional) SQRSI Installation Instructions. Correct settings as required.
- b.) Devices connected to the control station or Remote Station Interface (SQRSI) remote terminals are miswired. Verify all remote input terminations.
- c.) A control station or SQRSI has failed. Disconnect all devices from the "A4" network, reconnect "A4" network at cabinet, and then connect stations one at a time to identify which station is causing the problem.

Step 2. Remove dimmer service Board [2] and "B2" field wiring from the network terminals "3". Reboot the system per the instructions in the start up procedure. If the LED's respond properly, one of the cabinets on the "B2" network is not working properly. Remove all Dimmer Service Boards, replace the field wiring then add them back one at a time to identify the problem unit.

If the LED's still do not function properly, the System Controller Board may have failed. Contact LCS with the information requested on the last page of this manual to receive additional assistance.

Troubleshooting Procedure

SITUATION III. CONTROLS ARE NOT OPERATING. CHANNEL BARGRAPH LED'S ARE "FROZEN" OR ARE "OFF" AND WILL NOT CHANGE.

Step 1. Press and release the select button on the effected control stations.

Step 2. Remove all controls from the "A4" network. Add them back one at a time until the network fails to operate and the problem station has been identified.

SITUATION IV. CONTROL STATION BARGRAPH'S DO NOT SCROLL SMOOTHLY, AND/OR TOP SEGMENT OF BARGRAPH FLASHES WITHOUT THE SELECT OR PRESET BUTTONS PRESSED IN.

Step 1. Verify that all control station and SQRSI interface switch settings are correct and that no channel select switch settings are duplicated. See Page 2 of this manual and (optional) SQRSI Installation Instructions. Correct settings as required.

Step 2. Remove all control stations and interfaces from the "A4" network. Add them back one at a time, until the network fails to operate and the problem station has been identified.

Step 3. Remove "B2" network wire from [3], and unplug dimmer service board(s) [2]. If Controls Stations now operate properly, add the dimmer service boards back to the B2 network one at a time to identify the problem board.

SITUATION V. DIMMERS ARE OPERATING AS ON/OFF DEVICES.

Step 1. Verify that the factory phase sense wiring for a 3 \emptyset system is yellow for A \emptyset , red for B \emptyset , and purple for C \emptyset . It is possible that these wires were moved during installation of the modules. Correct as required.

Step 2. If you have 120/208 input and 3 pole main lugs, verify dimmer cabinet phasing by measuring for AC voltage between main lugs [5] and every module input breaker. With one meter lead on the A phase lug verify 0 volt potential to all modules labeled A \emptyset . If 208 volts are found between the A \emptyset lug and an A \emptyset module input breaker you must connect the module to the phase lug indicated on the cabinet label. Repeat for B and C phases. If your cabinet is labeled 120/240 and you have a 120/208 feed contact LCS for re-phasing instructions (sheet CDCS000173).

Step 3. Verify the power module harness [8] has been field connected to the correct power modules.

Troubleshooting Procedure

SITUATION VI. ALL LIGHTS ARE OFF AFTER REBOOTING THE SYSTEM

Step 1. Verify the power module harness [8] is connected to each power module. Connect if required.

Step 2. Remove "B2" wiring to secondary cabinets (if applicable). Reboot the system again per the start up procedure. If control stations are operating properly, the dimmer service Board [2] is most likely the problem. If Control Stations are not operating properly, the system control Board [1] is most likely the problem. Contact LCS for additional information.

Step 3. If it is necessary to bypass the system to provide circuit breaker control, rewire the modules as shown in figure 11 below.

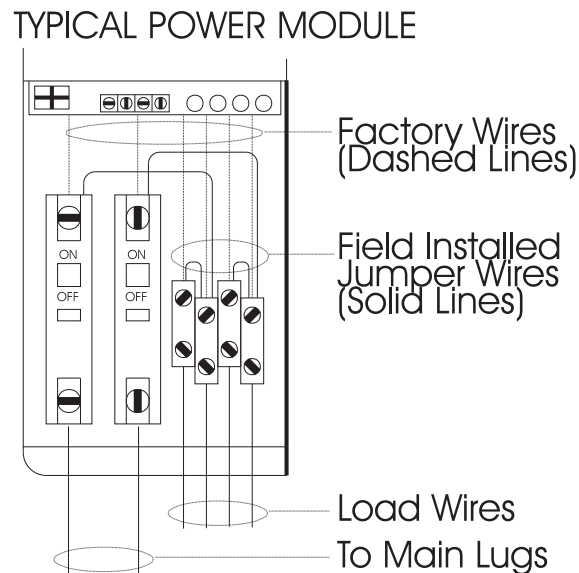


Figure 11

SITUATION VII. LUTRON DIMMING BALLASTS ARE NOT PROVIDING FULL RANGE DIMMING OR ARE FLICKERING BEFORE THE EXPECTED LOW END.

Step 1. Verify neutral wire from "FD" module connects to SQDC neutral bar.

Step 2. Verify that ballast orange control and black power leads are connected to the correct terminal and no field wiring connections are crossed.

Troubleshooting Procedure

SITUATION VIII.

THE CONTROL STATION CHANNELS DO NOT OPERATE THE CORRECT DIMMERS.

Step 1. If factory dimmer service board settings and cabinet schedules were provided, make sure that field settings and wiring terminations match. Correct as required.

Step 2. See pages 6-8 in this manual for additional information or setting dimmer to channel assignments.

SITUATION IX.

SOME CIRCUITS ARE OFF WHEN THEY SHOULD BE AT FULL OUTPUT

Step 1. Verify load conductor is on the proper module output terminal block.

Step 2. Verify the power module harness [8] is connected to each power module.

Step 3. Verify that the dimmer to channel assignment switches are properly seated in their correct positions. See page 6 for details.

Step 4. Trace power from main lugs [5] through [9] module input breaker through module power devices and out to terminal blocks. Swap with similar modules to see if problem stays with module or cabinet position. Contact LCS with information recorded for additional assistance.

Step 5. Check steps shown in Problem V for affected circuits.

**SITUATION X.
SOME CIRCUITS ARE FULL ON, AND DO NOT DIM OR GO OFF.**

Step 1. Verify that the dimmer to channel assignment slide switch is set at a controlled position. See page 6 for details.

Step 2. Swap module with one of a similar type to see if problem stays with module or cabinet position.

Step 3. Unplug the module harness [8] connector for that circuit. If load is still full on, the SQ PUCK ASSEMBLY has most likely failed. Contact LCS for additional information.

**SITUATION XI. REMOTE STATIONS NOT OPERATING PROPERLY,
MULTIPLE LED'S LIGHT WITH A SINGLE BUTTON PRESS,
OR THE WRONG LED'S LIGHT, OR BUTTONS DO NOT FUNCTION.**

Step 1. Verify wiring run length is under 250 feet (80m) and that low capacitance multi-conductor cable or individual conductors were used to connect remotes to stations. Contact LCS for additional information.

**SITUATION XII.
MODULES CYCLE ON AND OFF AFTER SYSTEM IS OPERATED FOR A FEW HOURS.**

Step 1. Verify fans are operating properly, clean filters if necessary. Contact LCS if either or both fans are not coming on and modules are cycling.

Additional Information

LCS Technical Service is available from 8:00 a.m. to 6:00 p.m. EST for phone consultation. It is important for you to complete the required testing prior to calling. LCS Field Service is available for on-site visits with adequate notice and a service call charge. Prior to phoning, please have the following information at hand:

- Lithonia Order Number
- Lithonia Packing List
- Master Station and Dimmer Service Board Configuration
- Dimming System As Built Documents
- Plus specific test information as requested in Troubleshooting Guide.

LCS Technical Service

In Warranty	1-800-533-2719
Out of Warranty	1-770-987-4200
Fax	1-770-987-1002

Warranty

Lithonia Control Systems warrants all equipment to be free from defect in manufacturing, under normal and proper storage, installation, and use, for a period of one (1) year. Our guarantee liability extends only to the repair or replacement of the defective part and no labor charges for correction of the defect by repair or replacement will be honored by Lithonia Control Systems unless prior written authority has been granted by our Customer Service Department.



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