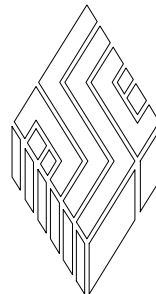




Lighting Option for Isolation Cubicle

- *Twin fluorescent lights for effective coverage*
- *24-hour programmable timer*
- *15-minute automatic timer for short intervals*
- *Custom-designed to fit your facility and needs*



SSCI

Wheeling, IL (800) 323 7366

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Wheeling, Illinois 60090, USA

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Chapter 1 - General Information



Introduction

SSCI Isolation Cubicles can be used to quarantine animals for diagnosis; for the prevention and treatment of disease; for physiological and nutritional stabilization of newly received animals; or to conduct clinical tests that mandate measures to avoid cross-contamination to or from adjoining cages and species.

The lighting option for your Isolation Cubicle provides a pair of fluorescent lights to effectively illuminate the interior of the chamber. A 24-hour programmable timer allows you to preprogram up to 24 ON and 24 OFF events each day, with a minimum duration of 30 minutes each. This timer also acts as a normal ON/OFF switch for the lights.

A 15-minute automatic timer allows you to turn the lights on for short intervals, and automatically turns the lights off at the end of the period.

This manual gives you installation, operation, and maintenance information for the lighting option and is a supplement to your SSCI *Isolation Cubicle Owner's Manual, P/N 702743*.

About this Manual

Every attempt has been made to insure that the information in this manual is correct and complete. SSCI, however, always welcomes our customer's suggestions for improvements to our products and associated publications.

Information and Safety Notices

Throughout this manual you will find text under the headings **Note:** and **CAUTION:**.

Notes

Under **Note:** headings, you will be given additional information pertinent to the subject discussed in that paragraph or step.

Example:

Remove the column interior cover on the left column.

Note: For this procedure, you do not have to remove the column interior cover on the right column.

CAUTIONS

Under **CAUTION:** headings, you will be alerted to potentially hazardous conditions which, if ignored or mishandled, could result in injury to yourself or damage to the equipment.

Example:

CAUTION: Turn the lights off and disconnect the power plug before working on any component of the electrical system.

SSCI Contact Information

Contact SSCI Customer Service by mail, telephone, or fax. The department is available from 8:30am to 5:00pm, Central Time, Monday through Friday. Closed holidays.

Address: Suburban Surgical Co., Inc.
275 Twelfth Street
Wheeling, Illinois 60090

Telephone: Illinois - (847) 537-9320, ext. 3518
Toll Free - (800) 323-7366

Fax: (847) 537-9061

Web: www.subsurg.com

Safety

CAUTION: Turn the lights off and disconnect the power plug before working on any component of the electrical system.

Care and Cleaning of Stainless Steel

Introduction

Stainless steel is steel alloyed with chromium to make it highly resistant to stain, rust, and corrosion. **Note:** This does NOT mean that stainless steel will *never* rust or corrode. Science has not yet developed a steel which is completely stainless or corrosion PROOF.

The type of stainless steel and finish selected by SSCI for this product is the best available for the intended use.

Cleaning and Cleansers

The basic rule of thumb is to use the mildest cleaning agent that will do the job effectively. After cleaning, always rinse thoroughly with clear water, and dry completely. Frequent cleaning will prolong the service life of stainless steel equipment, and will help maintain a bright, pleasing appearance.

Ordinary deposits of waste and fluids can usually be removed with soap and water. More stubborn deposits or tightly adhering debris may require harder scrubbing and possibly the use of commercial cleaning products acceptable for use on metal surfaces. When using any cleaning agent, rub in the direction of the polish lines or “grain” of the metal. For high luster finishes, use clean soft cloths or pads.

If especially rough cleaning is necessary, use “stainless steel” wool, nylon, or plastic scrubbers. Test these scrubbers in an inconspicuous area first to be sure they do not mar or scratch the stainless steel finish.

Minor scale build-up and some hard water spotting may be removed by washing with vinegar, followed by a neutralizing rinse with clear water, and a thorough drying with a soft cloth. For heavy deposits of scale, 5% oxalic acid (use warm), 5-15% sulfamic acid, or 5-10% phosphoric acid may be used. Always follow with a neutralizing rinse of clean water and a thorough drying.

Deodorizing Agents, Disinfectants, and Sanitizers

The large selection of brands and combinations of chemicals available for deodorizing, disinfecting, and sanitizing is staggering. Select one or more agents for use in your facility only after weighing all the benefits claimed by each product. Too often this choice is made without adequate consideration of the effects these agents may produce on equipment or furnishings.

CAUTION: Before selecting a chemical to employ in your facility, review label statements regarding use with metals (stainless steel). Always consult the chemical supplier if there are any doubts.

Avoid prolonged use of chlorides (such as chlorine bleach), bromides, iodides, and thiocyanates on stainless steel surfaces as these chemicals will cause pitting, corrosion, and metal discoloration. Allowing salty solutions to evaporate and dry on stainless steel may also contribute to corrosive conditions.

In summary, select chemical deodorizers, disinfectants, and/or sanitizers only after weighing all possible benefits and known adverse effects.

Effect on Warranty

The warranty for this product is void if the care and cleaning instructions provided in this manual are not followed.

Cleaning Requirements

Clean the Isolation Cubicle exactly in accordance with the cleaning instructions provided in this manual. *Failure to follow these instructions can void your warranty.*

Warranty

Suburban Surgical Company, Inc. warrants the original purchaser that our products are of the highest standards in material and workmanship. Our stainless steel components are guaranteed to last a lifetime assuming they are used as intended, properly maintained and cared for. Mechanical, electrical, electronic, hydraulic, and any product's devices carry a one year warranty.

Items purchased by Suburban Surgical Company, Inc. from other manufacturers and incorporated into our equipment are covered by the respective manufacturer's warranties.

Warranties will not apply if it is determined by Suburban Surgical Company, Inc. that the equipment became defective due to an accident, misuse, abuse, improper maintenance, or alteration. Warranty freight charges are covered for the first year only.

Chapter 2 - Installation

Unpacking and Inspection

CAUTION: Unpacking the lighting option for the SSCI Isolation Cubicle is not difficult. Some of the unit components are heavy, however, and we recommend that unpacking be done by at least two people.

If the shipping containers appear damaged in any way, contact the shipping company immediately. Save all damaged packing materials to assist in proving liability for damage.

Carefully inspect the lighting option components of your Isolation Cubicle while you unpack them. If damage is noted, or if parts appear to be missing, call SSCI Customer Service at (800) 323-7366. Refer to the enclosed packing list for a list of parts included in the shipment.

Installation Information

Overview

These instructions provide installation procedures for mounting the lighting option into an SSCI Isolation Cubicle. Installation of the lights into the cubicle should be done as an integral part of the installation of the cubicle. Installing the lights into an already erected cubicle will require disassembly of most of the unit.

Layout Drawings

For each installation, SSCI provides complete Layout Drawings that specify mounting dimensions and other important installation details. You should become thoroughly familiar with these drawings before starting the installation.

Installation of Light Timers

The light timers are normally mounted in the left column, however, at the customer's request, they can be mounted in the right column. In this manual, installation of the light timers is shown in the left column.

Installation Sequence

The normal construction sequence to be followed when installing the SSCI Isolation Cubicle with the lighting option is as follows.

Pay close attention to this construction sequence to avoid the need to go back and disassemble part of the cubicle to install components not installed in the correct order. For any procedure below not followed by a page number, refer to your *SSCI Isolation Cubicle Owner's Manual, P/N 702743*.

1. Erecting the columns
2. Mounting the columns to the walls
3. Installing Cable B - *Page 7*
4. Installing the header and Cable C - *Page 8*
5. Installing Cable A - *Page 10*
6. Installing the light fixtures - *Page 11*
7. Installing the light timers - *Page 12*
8. Installing the counterweights
9. Installing the column interior covers
10. Installing the rear top panel
11. Installing the rear door support rail
12. Installing the rear door
13. Installing the center door(s)
14. Installing the front door
15. Mounting the door seals
16. Installing the door latches
17. Installing the front top panel
18. Miscellany
19. Installing the vertical sealing strips
20. Installing the horizontal sealing strips
21. Sealing around the base of the column
22. Start-up - *Page 14*

Tools and Supplies Required

You will need the following tools and supplies to install the lighting option in your SSCI Isolation Cubicle:

- Phillips screwdriver
- Flat-blade screwdriver
- Wrench set, non-metric
- Stepladder (min. 10 ft high) or other lifting device
- Carpenter's level

Installation of Isolation Cubicle with Lighting Option

The following pages detail the installation of the light system into the SSCI Isolation Cubicle, including the cables, timers, and light fixtures. These instructions are suitable for both 3-door and 4-door cubicles.

Identification of Electric Cables

You must install three electric cables in the columns before installing the light timers and fixtures:

- **Cable A** - The cable with the power plug. This cable will run from the light timers in the left column to the outside.
- **Cable B** - The shorter of the two cables without a power plug. This cable will run from the light timers to the light fixture in the left column.
- **Cable C** - The longer of the two cables without a power plug. This cable will run from the light timers, through the header, to the light fixture in the right column.

Note: The light timers in your cubicle may be located in either column, depending on which was selected when the cubicle was ordered. The pictures shown here depict the timers in the left column.

Installing Cable B

1. In the left column, pass Cable B behind the pulleys on the platform on which the pulleys are mounted (Figure 1). The cable end with two bare wires and one loop connector must be toward the rear of the column. Both ends of the cable must hang inside the column.
2. Pass the end of Cable B with the three bare wires through the light timer opening in the front of the left column (Figure 2).
3. Pass the end of Cable B with the two bare wires and the loop connector through the light fixture cable opening in back of the left column.

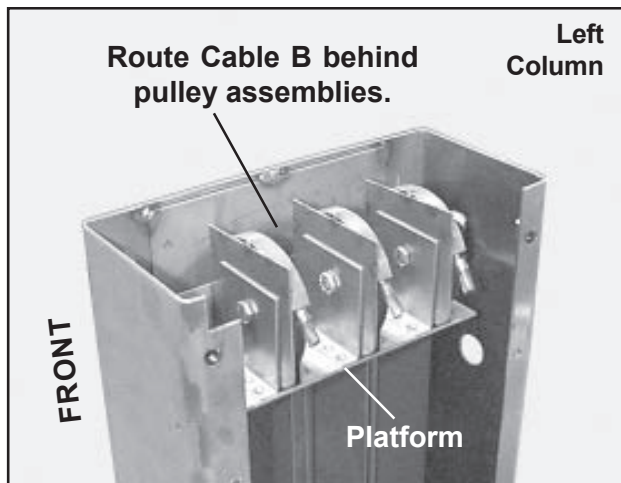


Figure 1. Top of Left Column Showing Pulley Assemblies

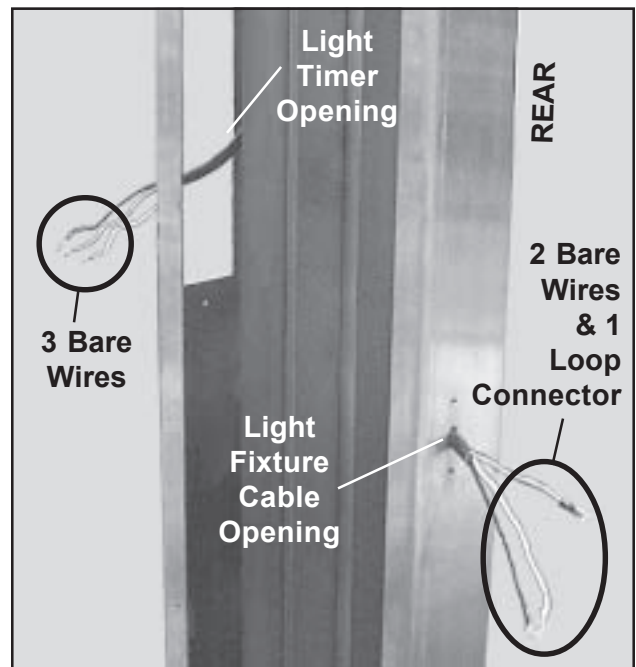


Figure 2. Cable B Installed in the Left Column

Installing the Header and Cable C

Overview

Cable C passes through the electric wiring conduit in the header, so this cable and the header must be installed together.

CAUTION: Mounting the header is not difficult. Although the header is not heavy, it can be awkward to handle and we recommend that mounting it be done by at least two people.

CAUTION: When using ladders or other lifting apparatus, observe all applicable safety precautions.

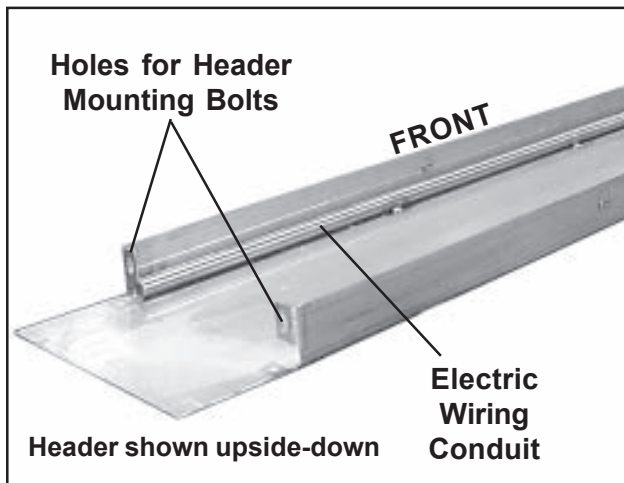


Figure 3. Typical Header

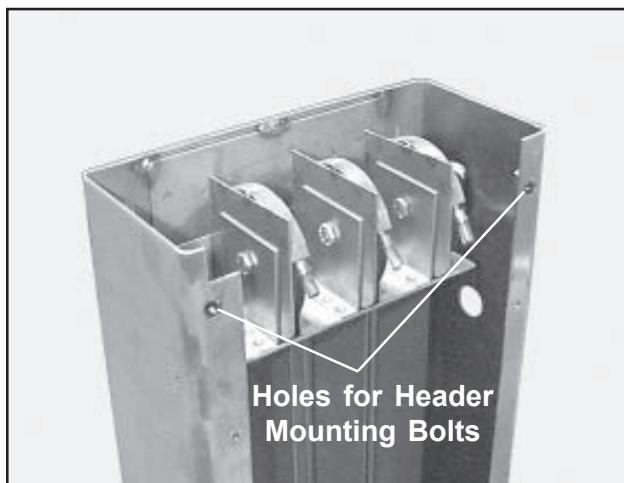


Figure 4. Top of Column Showing Header Mounting Bolt Holes

Procedure

1. Pass Cable C through the electric wiring conduit in the header (Figure 3). The end of the cable with two bare wires and one loop connector must go to the right column.
2. Set the header in place on top the two columns with the electric wiring conduit toward the front.
3. Secure the header in place with two bolts and washers at each end (Figures 4 and 5).
4. In the left column, route Cable C behind the pulley assemblies, then down through the light timer opening (Figure 7).

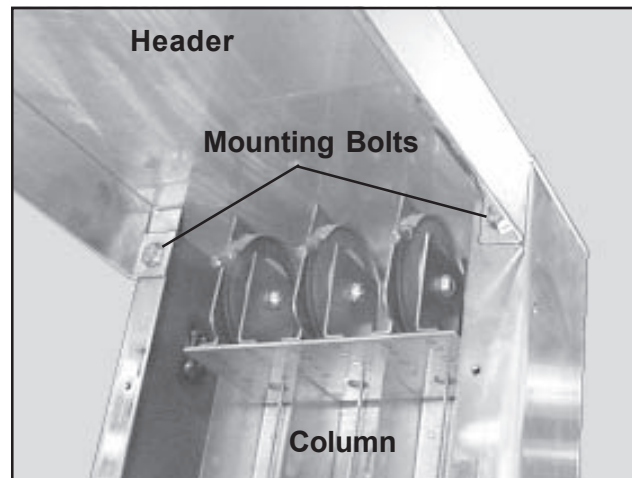


Figure 5. Header Mounted on Column

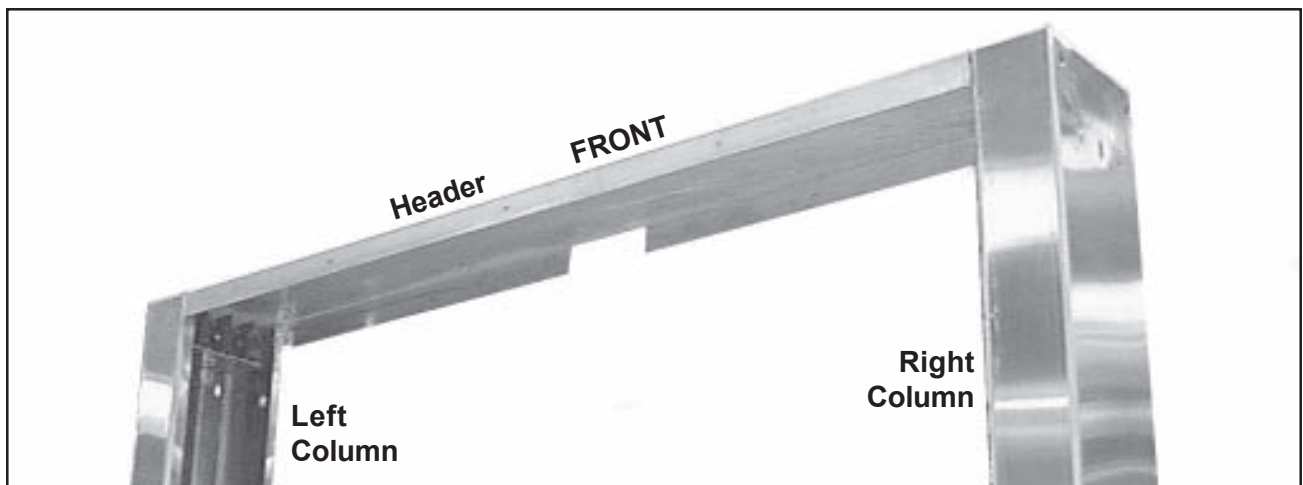


Figure 6. Header Mounted in Place on Columns

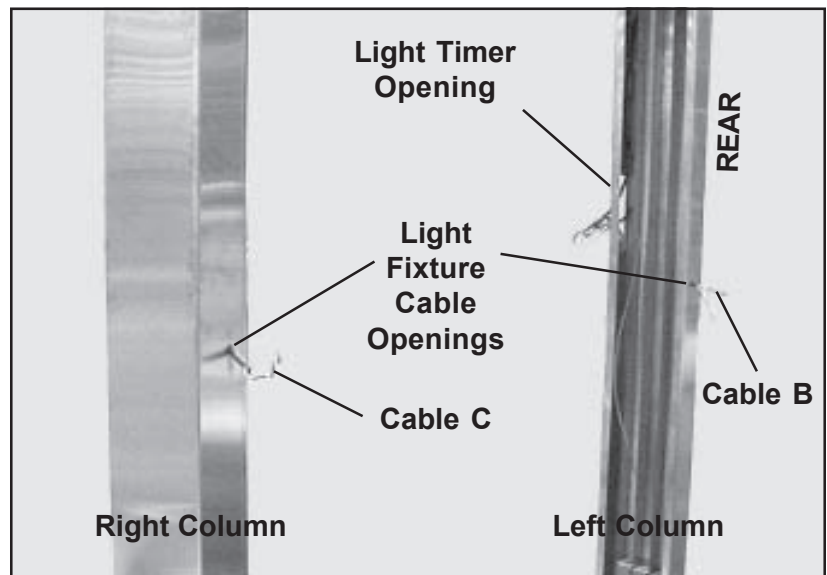


Figure 7. Cables B and C Installed in Columns

5. In the right column, route Cable C behind the pulley assemblies, to the rear, and down through the light fixture cable opening in the rear (Figure 7).
6. Place a carpenter's level on top the header and check the level right-to-left.
7. If the header is not level, one of the columns must be raised slightly to make the header level. **Note:** If the header and columns are not level, the doors may bind as they move up and down.

8. On the low column, loosen the column base mounting bolts and the wall attachment bolt.
9. Shim the base as needed.
10. Recheck the header level and add or remove shims as necessary.
11. When the system is level, tighten the base and wall mounting bolts.

Installing Cable A

1. Unscrew the nut from the cable clamp supplied (Figure 8).
2. Pass the end of Cable A through the cable clamp so the threaded side of the clamp is toward the end of the cable with the bare wires.
3. Pass the end of the cable through the power cable opening from the outside of the left column, then through the cable clamp nut.
4. Mount the cable clamp into the power cable opening and secure with the nut.
5. Pass the cable behind the pulley assemblies (Figure 1) and down to and out the light timer opening (Figure 9). This cable will run alongside Cable B installed earlier.
6. With a flat-blade screwdriver, tighten both screws on the outside of the clamp.

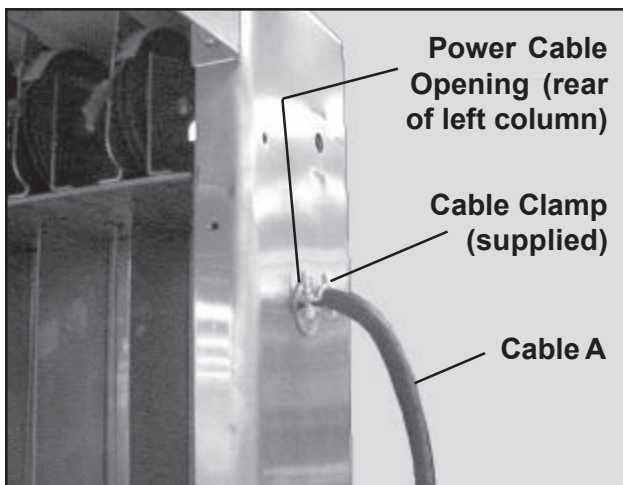


Figure 8. Cable A Mounted to Power Cable Opening

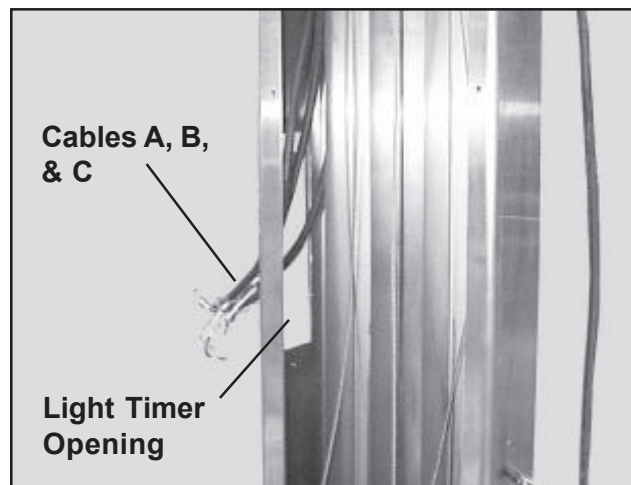


Figure 9. Cables A, B, & C in Light Timer Opening

Installing the Light Fixtures

Overview

Mount the a light fixture to the rear of each column. One fixture is designed for the left side, and one for the right, so be sure to mount each on the correct side.

Procedure

1. On one light fixture, remove the 12 screws which hold the frame and translucent panel to the fixture (Figure 10), and remove the frame and panel.
2. Remove the fluorescent bulb from the fixture.

Note: You will mount the fixture to the rear of one of the columns so that the light panel is angled inward to the cubicle, and the ballast is on the bottom (Figure 11).

3. Pass the three wires from the column through the hole in the back of the fixture and mount the fixture to the column with the four mounting screws (Figure 11). The four mounting screws fit into predrilled and threaded holes in the column - no nuts are required.

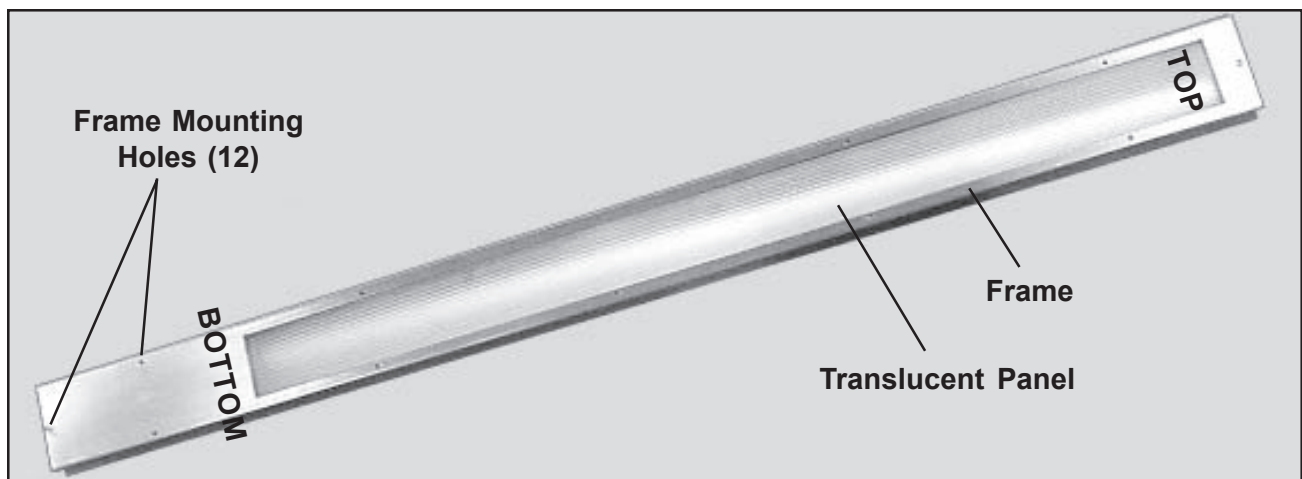


Figure 10. Light Fixture Before Mounting

4. Insert a rubber grommet (supplied) over the wires from the column and into the holes in the fixture and the column to protect the wires (Figure 12).
5. Mount the loop connector on the green wire (ground) to the ground screw under the incoming wires.

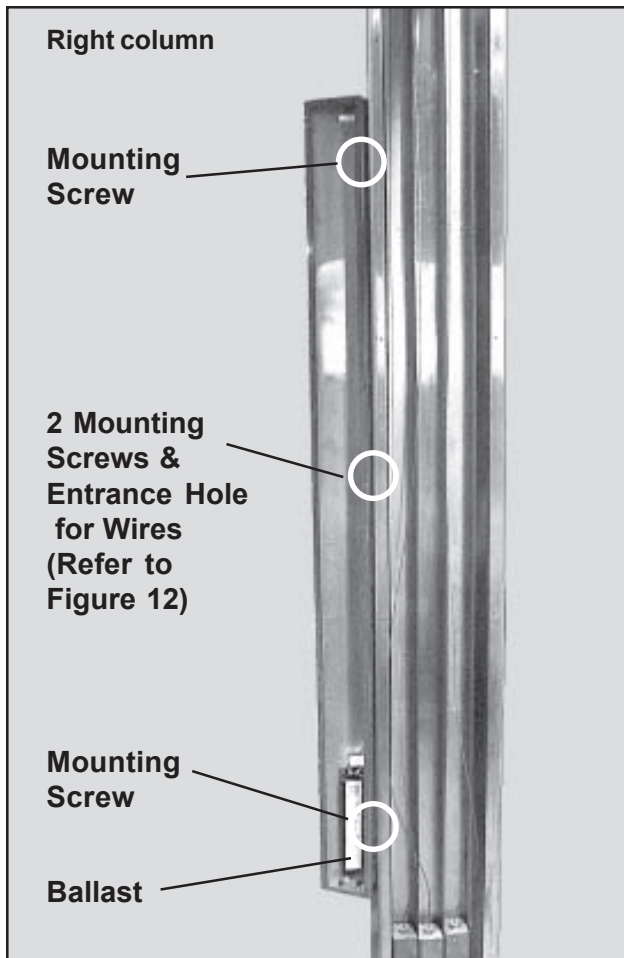


Figure 11. Light Fixture Mounted on Column

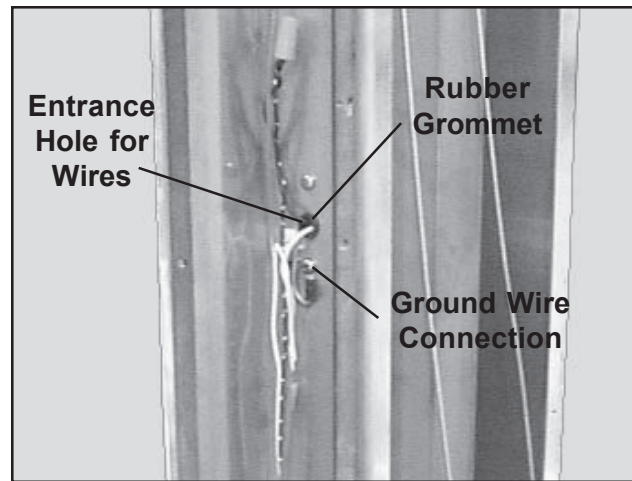


Figure 12. Ground Wire Connection

6. With wire nuts (not supplied), connect the remaining black and white wires from the column to the light fixture wires (connect black to black and white to white).
7. Reinstall the fluorescent bulb into the fixture.
8. Mount the translucent panel (textured side out) and frame to the fixture and secure with the 12 screws removed earlier.
9. Repeat *Steps 1* through *8* to install the remaining light fixture to the other column.

Installing the Light Timers

Overview

The light timers are usually installed into the left column unless the customer requests installation in the right column. All instructions in this manual show the installation in the left column.

Procedure

Note: We suggest that you place a length of tape, preferably colored, on Cable A to identify it while you work (Figure 13).

1. Connect the wires in Cables A, B, and C to the wires from the two timers on the switchplate (Figure 15).
2. Mount the switchplate to the left column with two screws (Figure 14). The 24-hour timer should be on top. Make sure that no wires are trapped under the switchplate.

Note: Keep any literature provided with the timers for future reference.

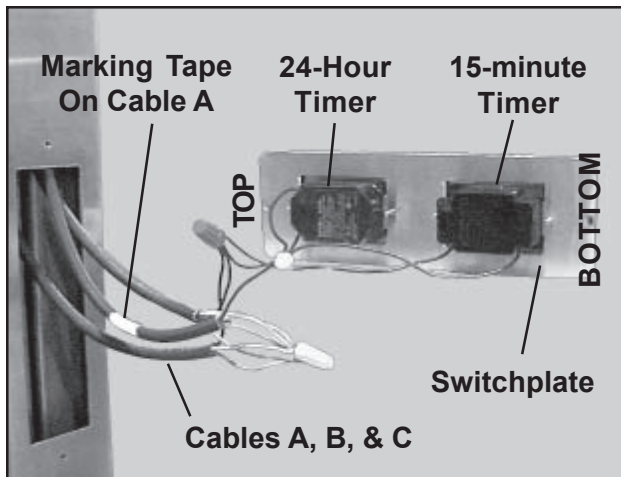


Figure 13. Connecting the Light Timer Wiring

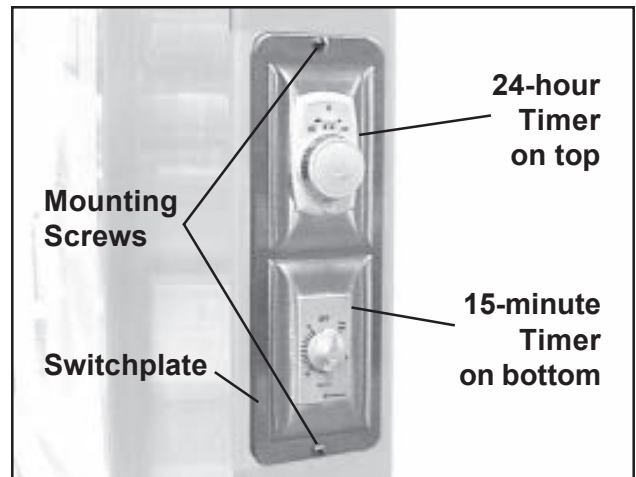


Figure 14. Light Timers in Place on Left Column

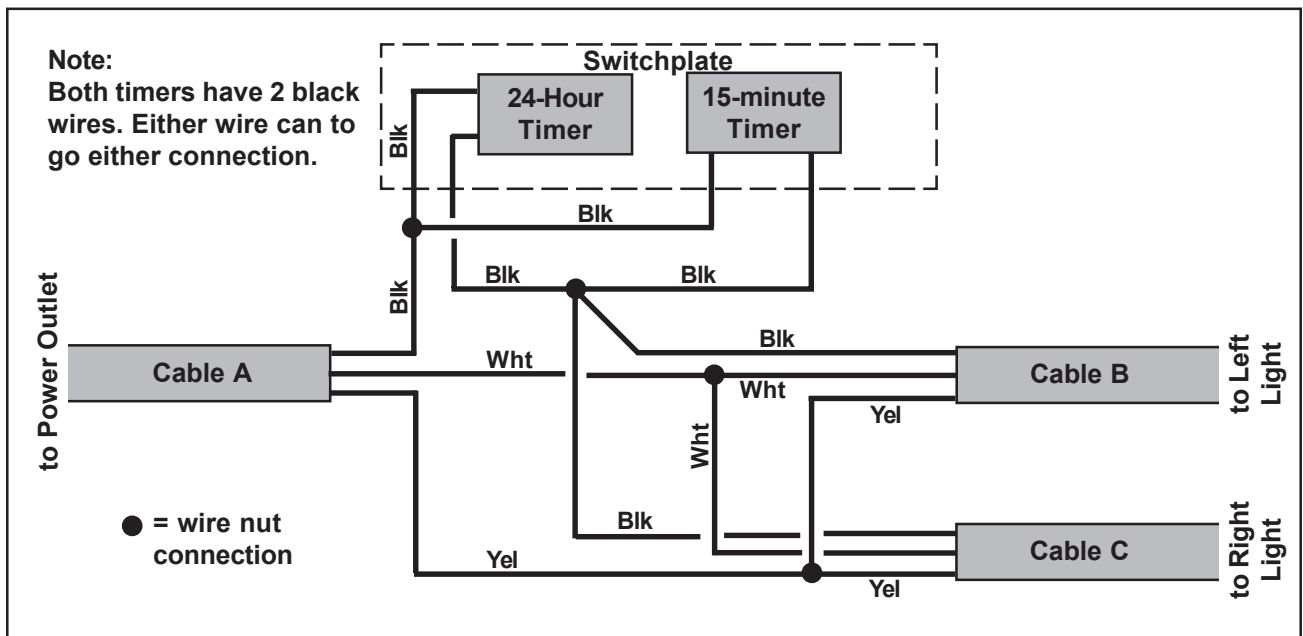


Figure 15. Light Timers - Wiring Diagram

Start-up

To complete the installation, perform the following steps:

1. Plug the power cord into a standard 115 VAC, 60 Hz power outlet.
2. Refer to *Chapter 3, Operation*. Check the functioning of the lights, and program the 24-hour timer as desired.

Installation of your SSCI Isolation Cubicle with the lighting option is now complete. Be sure to retain this manual and the Layout Drawings for the cubicle in a safe location where they can be easily retrieved for future reference.

Chapter 3 - Operation

Operating the Isolation Cubicle Lighting System

Using the Lighting Timers

There are two light timers mounted on the left column (Figure 16). These timers can be mounted in the right column at the customer's request. The upper component (Figure 17) is a programmable 24-hour timer while the bottom component is a 15-minute timer. The 24-hour timer also acts as an ON/OFF switch for the cubicle lights.

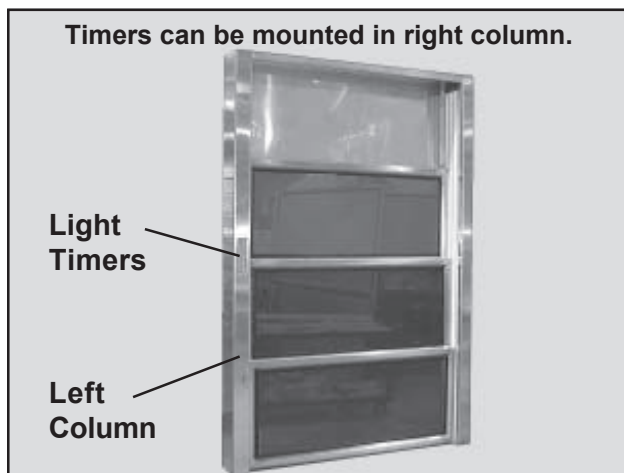


Figure 16. Front View of Cubicle Showing Location of the Light Timers

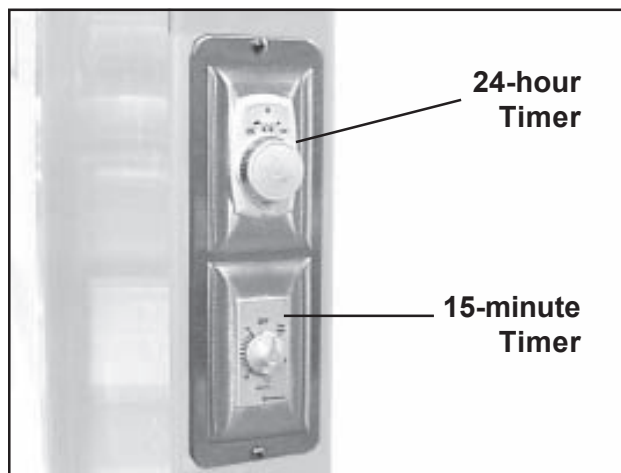


Figure 17. Light Timers Mounted on the Switchplate

Using the 24-hour Timer

Timer Controls Control Lever

(Figure 18) - In the OFF-CLEAR position, all power is removed from the timer and lights; this also clears the memory. In the ON position, the timer is in operation and is ready for programming. When the timer is in the AUTOMATIC mode, you can use it as a conventional ON/OFF switch just by pressing the pushbutton/time dial once each time you wish to turn the lights on or off. This overriding of the stored program will not disturb the automatic operation; your lights will still turn on and off at the next programmed setting.

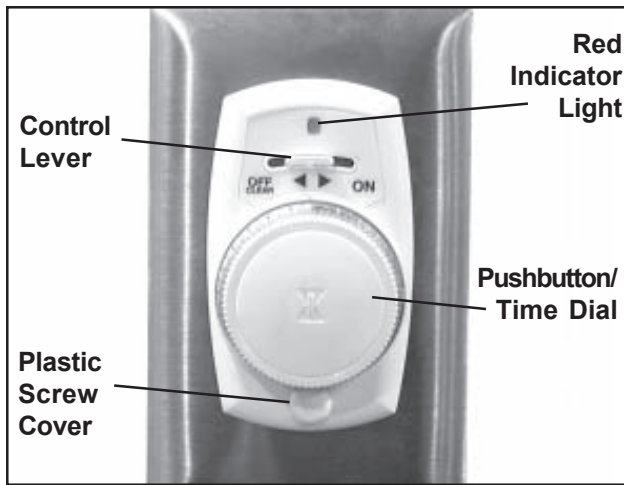


Figure 18. 24-hour Timer Controls

Pushbutton/Time Dial

(Figure 18) - Press once to turn the lights on or off manually. Press twice quickly to switch from AUTOMATIC to MANUAL mode. Press twice quickly again to switch back to AUTOMATIC mode. Rotate the dial to set AUTOMATIC operation times or for REVIEW. A series of numbers around the rim of the dial indicates time. The white sector with black numbers represents A.M.; the black sector with white numbers represents P.M.

Red Indicator Light

(Figure 18) - Indicates the status of the timer.

- **Flashing** - Timer memory has been cleared and timer is ready to be programmed. **Note:** Also pulses momentarily when dial is rotated during RAPID PROGRAMMING or REVIEW.
- **Off** - Control lever is in the OFF position or the timer is in one of three modes: MANUAL, BEING PROGRAMMED or REVIEW.
- **On Steady** - Timer is programmed and in AUTOMATIC mode.

Turning the Lights On and Off

The 24-hour timer can be used as a conventional ON/OFF switch. Both lights will turn on or off together; there is no way to turn the lights on or off individually. To turn the lights on or off:

1. The timer must be in the AUTOMATIC mode, therefore, the red indicator light must be on steady. If this light is not on steady, press the pushbutton/time dial twice quickly. The red indicator light should come on steady.
2. Press the pushbutton/time dial once to turn the lights on or off.

Note: On and off times automatically vary at least seven minutes from the time programmed, and at least 15 minutes from the previous day.

Note: In case of power failure, the timer's memory will be retained for a minimum of 15 minutes, depending upon conditions at the time of the power failure.

Programming the 24-hour Timer - Rapid Programming

Rapid Programming enables you to make the desired time settings in just minutes. The timer can be programmed for up to 24 ON events and 24 OFF events per day. The minimum on or off duration is 30 minutes.

1. Move the control lever to OFF-CLEAR for at least five seconds - the red indicator light will go off and all previous time settings will be cleared from memory.
2. Move the control lever to ON - the red indicator light will start flashing.
3. Check a clock, then rotate the pushbutton/time dial clockwise at least one click, stopping at the half hour nearest to the present time. **Note:** When rotating the time dial, do NOT press the dial at the same time or you will set the incorrect time. While turning the dial, try to maintain a slight outward pressure on the dial.
4. Press the pushbutton/time dial once to enter the present time - the red indicator light will go off. The current time has now been recorded.
5. Rotate the time dial clockwise to the first desired ON time - the red indicator light will pulse momentarily with each click.
6. Press the pushbutton/time dial once to enter the first ON time - the lights will turn on.
7. Rotate the dial to the desired OFF time.
8. Press the pushbutton once to enter the OFF time - the lights will go off.
9. Repeat *Steps 5* through *8* for each additional desired ON and OFF time.
10. Continue to rotate the pushbutton/time dial for at least 24 hours from the first ON time to complete the program, at which time the red indicator light will come on and stay on, indicating that the timer is in the AUTOMATIC mode.

Programming the 24-hour Timer - 24-hour Self Programming

You can program the timer by using it as a standard light switch over a 24-hour period. The timer can be programmed for up to 24 ON events and 24 OFF events per day. The minimum ON or OFF duration is 30 minutes.

1. Move the control lever to OFF-CLEAR for at least five seconds - the red indicator light will go off and all previous time settings will be cleared from memory.
2. Move the control lever to ON - the red indicator light will start flashing.
3. Over the next 24 hours, manually turn the lights on and off when you want them to come on and off during the programmed period. When you turn the lights on the first time, the red indicator light will go off and remain off. However, if you should turn the lights off in less than 30 minutes from the ON time, the red indicator light will resume flashing - each ON/OFF period must be at least 30 minutes long.

At the end of the 24 hours, your timer will be fully programmed. The red indicator light will stay on and the timer will automatically repeat the lighting pattern you entered during the 24 hours.

Program Review

Program Review allows you to determine the on/off settings in your time memory. Reviewing does not alter the program. Once a program is stored, it can be changed only by moving the control lever to OFF-CLEAR which clears the entire memory.

1. The timer must be in AUTOMATIC mode (the red indicator light will be on).
2. Rotate the pushbutton/time dial at least one click, stopping at the half hour nearest to the present time.
3. Press the pushbutton once to start the review (The red indicator light will go off.)

4. Rotate the time dial clockwise slowly, observing and recording the times on the dial when the lights go on and off. (The red indicator light will pulse with each click.)
5. Press the pushbutton once to end the review. (The red indicator light will go on and stay on because the timer is now in the AUTOMATIC mode.)

Switching Between AUTOMATIC and MANUAL Modes

If you wish to switch temporarily to the MANUAL mode without disturbing the stored program, press the pushbutton/time dial quickly twice. The red indicator light will go off - the timer is now in the MANUAL mode and your lights can be operated manually. To return to the AUTOMATIC mode press the pushbutton quickly twice again - the red indicator light will go on showing that the timer is again in the AUTOMATIC mode.

Burned-out Bulbs

If a bulb controlled by the timer burns out, the red indicator light will go off, alerting you that you have a bad bulb and that your timer will not operate automatically. To restore normal operations, move the lever to the OFF-CLEAR position and replace the light bulb. Then return the lever to the ON position and reprogram the timer.

Using the 15-minute Timer

To turn the lights on for 15 minutes or less, turn the timer knob (Figure 19) clockwise to the desired time interval as shown on the faceplate. As the time interval counts down, the knob will rotate counterclockwise to OFF at which time the lights will turn off. The timer is calibrated in 5-, 10-, and 15-minute intervals; the marks between these intervals represent approximately 30 seconds each.

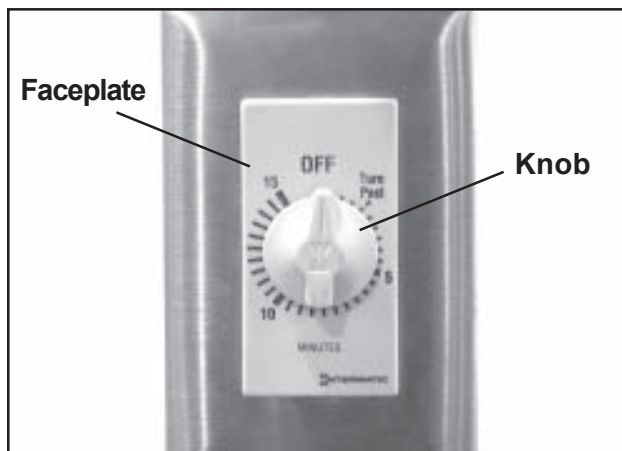


Figure 19. 15-minute Timer

Replacing a Fluorescent Bulb

Overview

Each light fixture on the Isolation Cubicle contains one 4 ft long, 34 watt fluorescent bulb. The bulbs in both fixtures are replaced in the same way. Obtain replacement fluorescent bulbs locally.

The bulb is:

- Fluorescent bulb, 4 ft long, 34 watt - SSCI P/N 001088

Tool Required

- Phillips screwdriver

Procedure

CAUTION: Turn the lights off and disconnect the power plug before working on any component of the electrical system.

1. On the 24-hour timer, position the control lever to OFF-CLEAR.

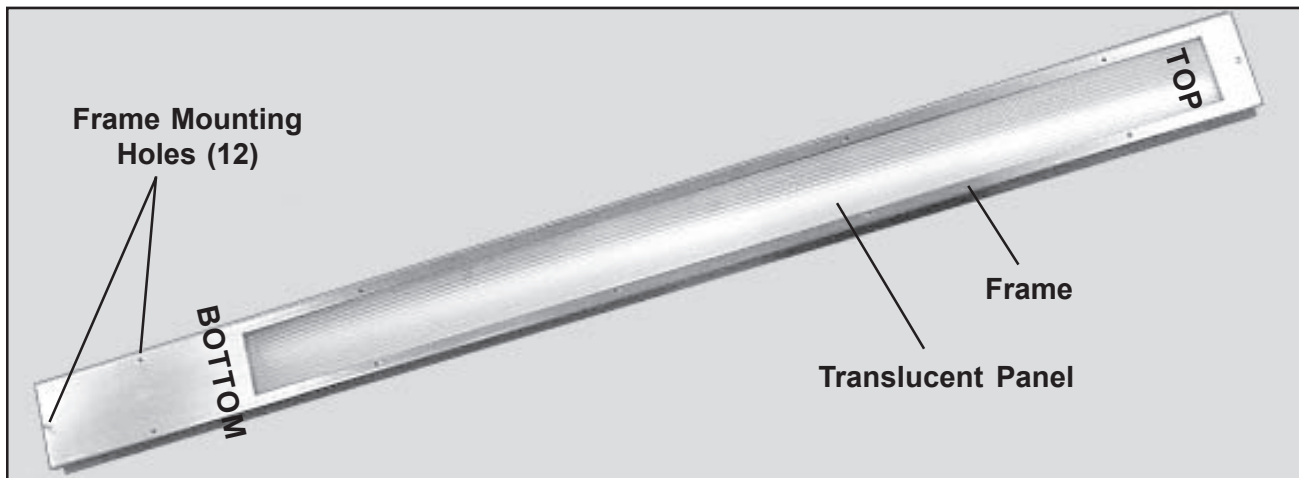
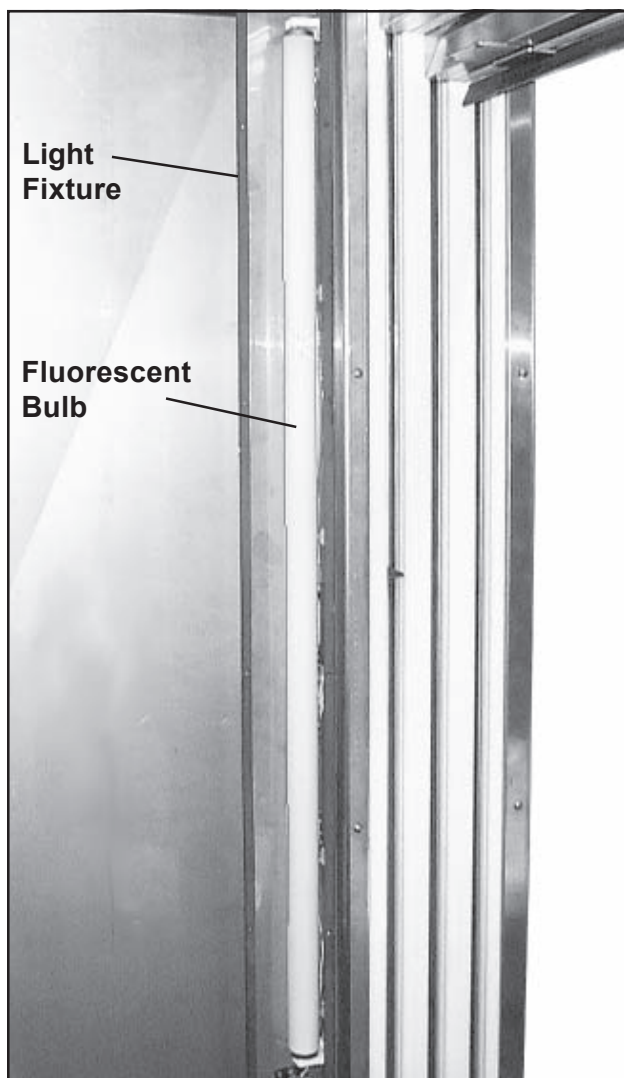


Figure 20. Removing Light Fixture Frame and Translucent Panel

2. Turn the lights off by pressing the pushbutton/time dial on the 24-hour timer once.
3. Unplug the incoming power plug.
4. With a Phillips screwdriver, remove the 12 screws that hold the frame and translucent panel to the light fixture (Figure 20), and remove the frame and panel.
5. Remove and discard the old fluorescent bulb.

CAUTION: Discard fluorescent bulbs only in accordance with Federal, state, and local regulations.



6. Install a new bulb into the light fixture (Figure 21).
7. Replace the frame and translucent panel (textured side out) onto the light fixture and secure with the 12 screws removed above.
8. Replace the power plug.
9. Reprogram the timer (refer to *Pages 17 or 18*).

Figure 21. Fluorescent Bulb in Light Fixture

Comments

Chapter 4 - Repairs and Replacements

Replacement Parts

The table below lists the replacement parts available for the SSCI Isolation Cubicle lighting system. For parts not listed, contact SSCI Customer Service at (800) 323-7366. To order parts, refer to *Parts Ordering Procedure* on Page 24.

| Part Name | SSCI Part Number | Quantity per Cubicle | Replacement Instructions |
|---------------------------|---------------------------------|----------------------|--------------------------|
| Light Fixture, Complete | Left - 211620 Right - 211619 | 1 each | Page 25 |
| Fluorescent Bulb | 001088 | 1 per fixture | Page 20 |
| Frame (Light Fixture) | 617763 | 1 per fixture | Page 27 |
| Translucent Panel | 754134 | 1 per fixture | Page 28 |
| Gasket (Light Fixture) | Long - 754135 Short - 751863 | 2 each per fixture | Page 29 |
| Ballast | 854331 | 1 per fixture | Page 31 |
| 24-hour Timer | 853617 | 1 | Page 34 |
| 15-minute Timer | 854292 | 1 | Page 37 |
| Cable A (refer to Page 7) | Refer to Layout Drawings | 1 | Page 39 |
| Cable B (refer to Page 7) | Refer to Layout Drawings | 1 | Page 41 |
| Cable C (refer to Page 7) | Refer to Layout Drawings | 1 | Page 43 |

Replacement Parts for the SSCI Isolation Cubicle Lighting System

Note: In the table above, actual part numbers are shown for those standardized parts that are common to all SSCI Isolation Cubicles. Many parts in your cubicle, however, are custom-designed for your particular location or application. In these cases, refer to the Layout Drawings supplied with your cubicle for part numbers.

General Information

- If during disassembly, you remove any tape, cable ties, etc., remember to replace them as you reassemble the unit.
- During disassembly, retain all hardware items such as screws, nuts, lockwashers, etc. for reassembly.
- If you have problems with any procedure, please call SSCI Customer Service at (800) 323-7366.

Parts Ordering Procedure

Order new equipment, accessories, and/or replacement parts directly through SSCI Customer Service by mail, telephone, or fax. Refer to *SSCI Contact Information on Page 2* for address, telephone, and fax numbers. When ordering, please provide the following information:

- Your name
- Company name
- Company account number
- Telephone number
- Fax number
- e-mail address
- Shipping address
- Billing address (if different from shipping address)
- Names, part numbers, and quantities of items being ordered
- Credit card number and expiration date, or other payment information
- Preferred method of shipment
- Information on whether the items are required on a normal or urgent basis

Safety

CAUTION: Turn the lights off and disconnect the power plug before working on any component of the electrical system.

References to Other Manual

Occasionally, in the part replacement procedures given in this manual, you will be referred to the *SSCI Isolation Cubicle Owner's Manual, P/N 702743*. You were supplied with a copy of that manual when you received shipment of your cubicle. In this Lighting Option manual, the phrase “**See 702743.**” will precede any step requiring you to refer to manual, 702743. If you do not have manual 702743, contact your SSCI Customer Service Representative at 800-323-7366.

Parts Replacement Procedures

The following subsections guide you in replacing worn, damaged, or missing parts on your SSCI Isolation Cubicle lighting system.

Light Fixture, Complete

Left - P/N 211620
Right - P/N 211619

Overview

Both light fixtures are removed and installed in the same way.

Tool Required

- Phillips screwdriver

CAUTION: Turn the lights off and disconnect the power plug before working on any component of the electrical system.

Removal

1. Turn the lights off and disconnect the power plug.
2. Open all the doors to access the light fixture.
3. On the light fixture, remove the 12 screws which hold the frame and translucent panel to the fixture (Figure 22), and remove the frame and panel.
4. Remove the fluorescent light bulb from the fixture.

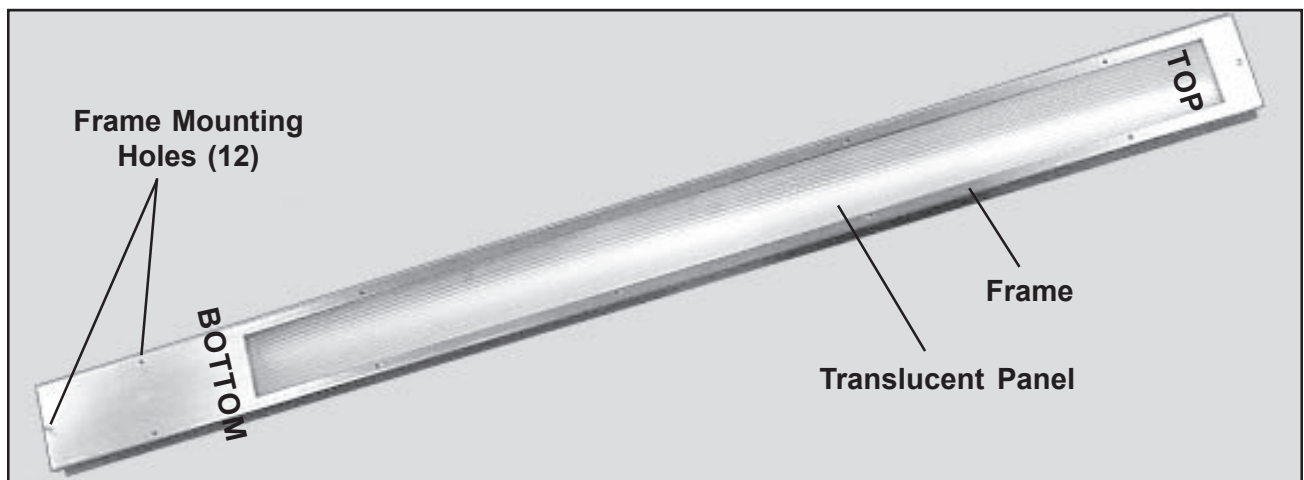


Figure 22. Light Fixture Dismounted from the Column

5. Remove the loop connector on the green wire (ground) from the mounting screw (Figure 24).
6. Disconnect the black and white wires from the column to the light fixture wires (Figure 23). (Cable B from the left column or Cable C from the right)

7. Remove the four mounting screws and remove the fixture from the column.

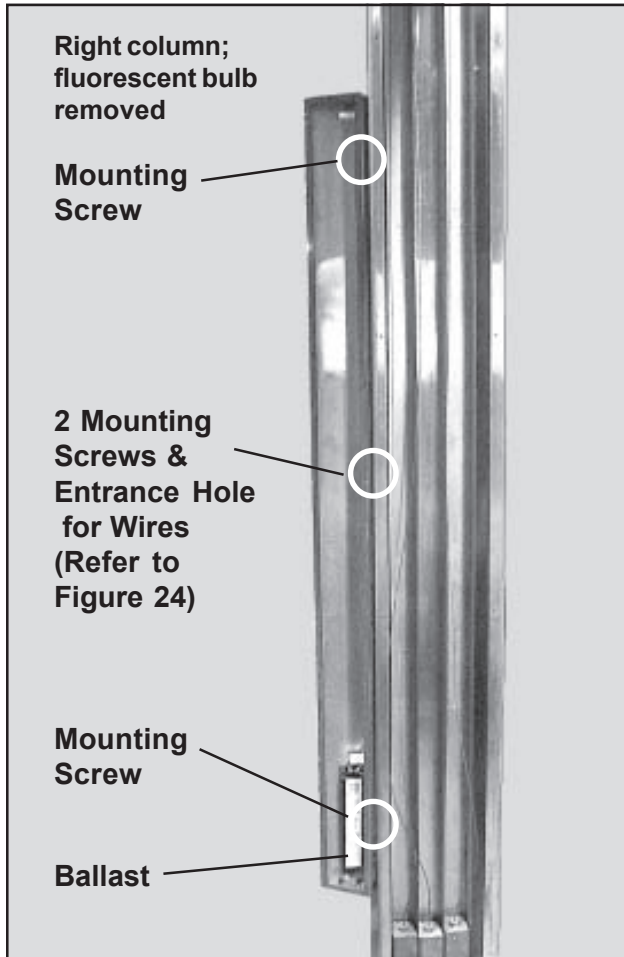


Figure 23. Light Fixture Mounted on Column

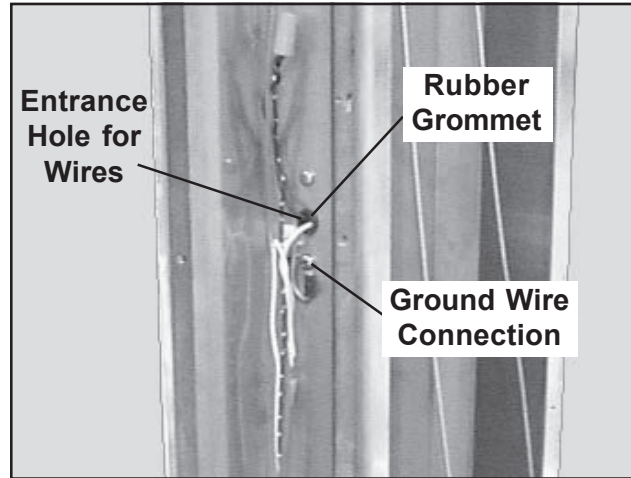


Figure 24. Ground Wire Connection

Installation

1. Refer to *Installing the Light Fixtures* on Page 11, Steps 1 through 8.
2. Plug the power cord into a standard 115 VAC, 60 Hz power outlet.

Frame (Light Fixture)

P/N 617763

Overview

The frames in both light fixtures are removed and installed in the same way.

Tool Required

- Phillips screwdriver

CAUTION: Turn the lights off and disconnect the power plug before working on any component of the electrical system.

Procedure

1. Turn the lights off and disconnect the power plug.
2. Open all the doors to access the light fixture.
3. On the light fixture, remove the 12 screws which hold the frame and translucent panel to the fixture (Figure 22), and remove the frame and panel.
4. Mount the translucent panel (textured side out) and the new frame to the fixture and secure with the 12 screws removed earlier.
5. Plug the power cord into a standard 115 VAC, 60 Hz power outlet.

Translucent Panel

P/N 754134

Overview

The translucent panels in both light fixtures are removed and installed in the same way.

Tool Required

- Phillips screwdriver

CAUTION: Turn the lights off and disconnect the power plug before working on any component of the electrical system.

Procedure

1. Turn the lights off and disconnect the power plug.
2. Open all the doors to access the light fixture.
3. On the light fixture, remove the 12 screws which hold the frame and translucent panel to the fixture (Figure 22), and remove the frame and panel.
4. Mount the new translucent panel (textured side out) and the frame to the fixture and secure with the 12 screws removed earlier.
5. Plug the power cord into a standard 115 VAC, 60 Hz. power outlet.

Gasket (Light Fixture)

Long - P/N 754135

Short - P/N 751863

Overview

There are four 1/2 in. wide, adhesive-back, sponge rubber gaskets in each light fixture: two long and two short. If one gasket in a light fixture requires replacement, we recommend that the other three gaskets be replaced at the same time. All gaskets are removed and installed in the same way.

Tools and Supplies Required

- Phillips screwdriver
- Knife or scraper
- Scissors
- Awl or similar pointed tool
- Tape measure
- Solvent

CAUTION: Turn the lights off and disconnect the power plug before working on any component of the electrical system.

Removal

1. Turn the lights off and disconnect the power plug.
2. Open all the doors to access the light fixture.
3. Remove the 12 screws which hold the frame and translucent panel to the light fixture (Figure 22), and remove the frame and panel.
4. With a knife or scraper, peel the old gaskets from the light fixture (Figure 26).

Installation

1. With a knife or scraper and a solvent, clean any dirt, oil, old adhesive, and old gasket material from the gasket area on the light fixture. The bonding area must be perfectly clean.
2. Peel the protective back from one of the long gaskets and apply the gasket to one of the gasket areas on the fixture. (Figure 26).
3. Repeat *Step 2* with the long gasket on the other side of the fixture.
4. Measure the space between the two long gaskets at the top of the fixture and trim one of the short gaskets to fit. There must be no gaps between the gaskets through which water might enter the fixture (Figure 26).

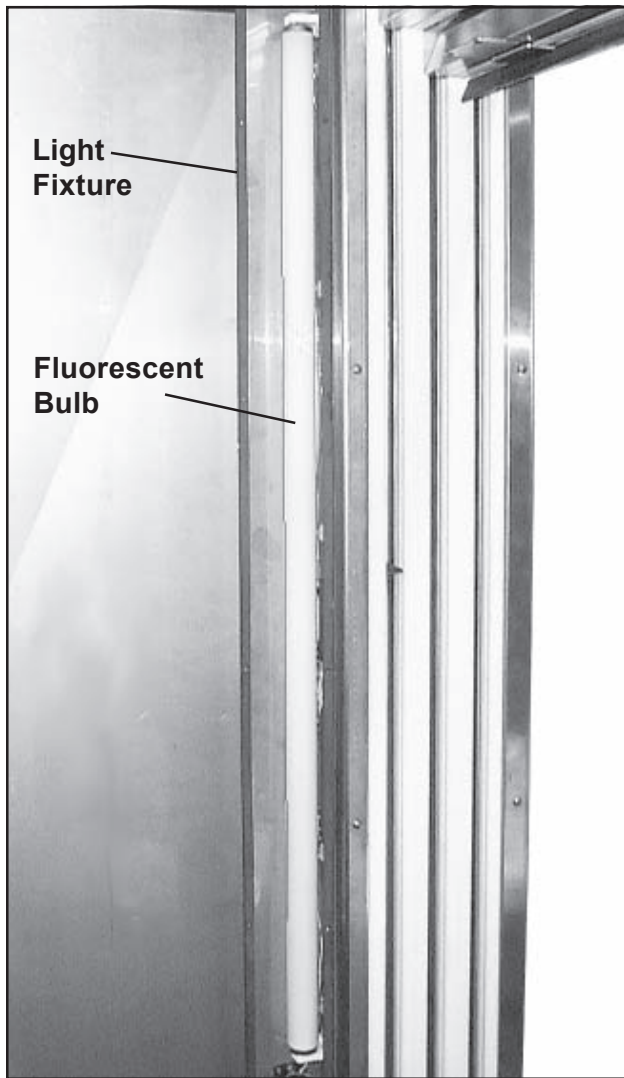


Figure 25. Light Fixture with Frame and Translucent Panel Removed

5. Peel the protective back from the trimmed gasket and apply it to the top gasket area on the fixture (Figure 26).
6. Repeat *Step 5* with the short gasket on the bottom of the fixture.
7. With an awl or similar pointed tool, punch through the gasket at each of the 12 mounting screw locations.
8. Mount the translucent panel (textured side out) and frame to the fixture and secure with the 12 screws removed earlier.
9. Plug the power cord into a standard 115 VAC, 60 Hz power outlet.

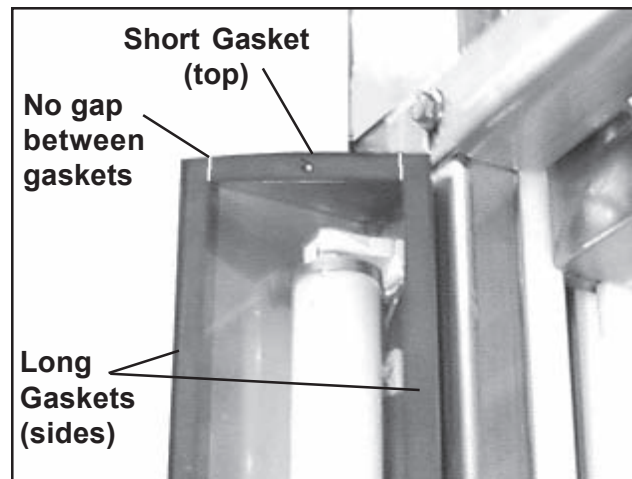


Figure 26. Top End of Light Fixture

Ballast
P/N 854331

Overview

There is one ballast in each light fixture. The ballasts in both light fixtures are removed and installed in the same way.

Tools Required

- 7/16 in. nut driver
- Paper clip

CAUTION: Turn the lights off and disconnect the power plug before working on any component of the electrical system.

Removal

1. Turn the lights off and disconnect the power plug.
2. Open all the doors to access the light fixture.
3. Remove the 12 screws which hold the frame and translucent panel to the light fixture (Figure 22), and remove the frame and panel.
4. Remove the fluorescent light bulb from the fixture.

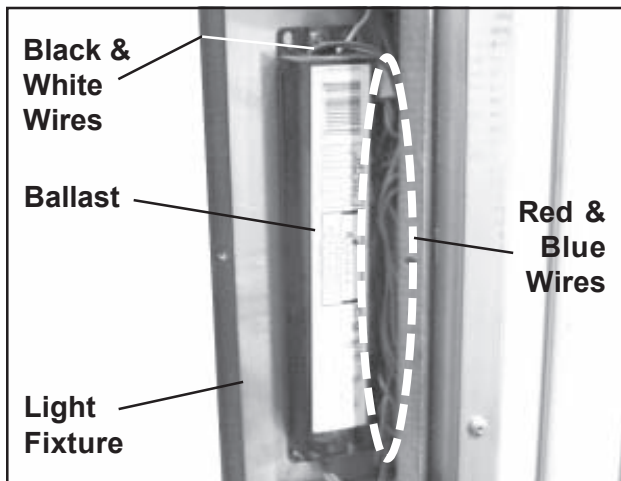


Figure 27. Ballast Inside the Right Column

5. A group of red and blue wires is bunched alongside the ballast inside the fixture (Figure 27). Pull these wires out of the fixture so you can work with them.
6. Remove the two wire nuts holding the red wires together and separate the wires.
7. Black and white wires lead out of the top of the ballast (Figure 28). Remove the wire nuts connecting these wires to the black and white wires coming into the fixture from the column (Cable B from the left column; Cable C from the right).

8. Two blue wires go from the ballast to the lower terminal of the fluorescent bulb. Push the end of a straightened paper clip into the small slot in front of each blue wire in the terminal, and pull the wire out (Figure 29).
9. With a 7/16 in. nut driver, remove the top and bottom mounting nuts (Figure 30) and remove the ballast from the light fixture.

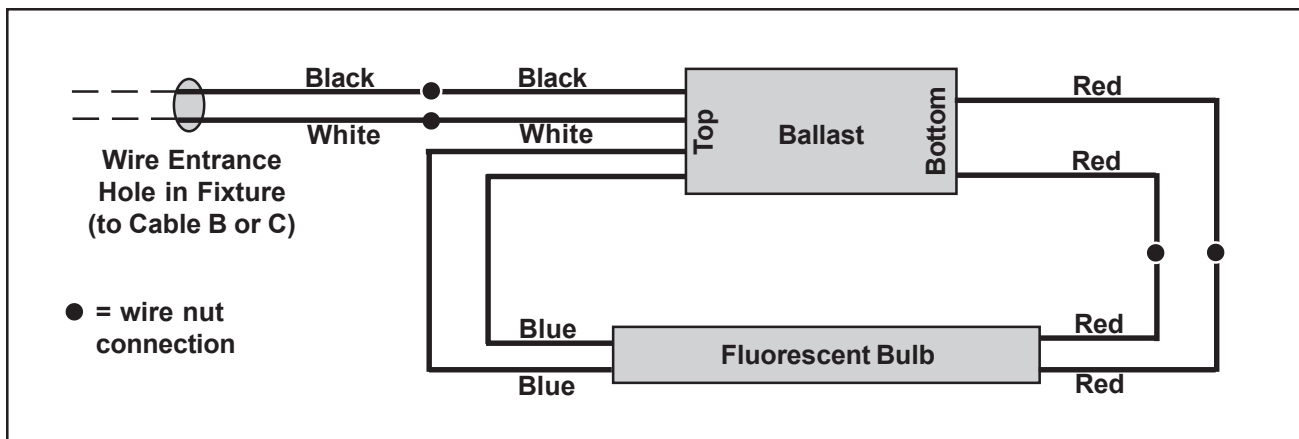


Figure 28. Ballast Wiring Diagram

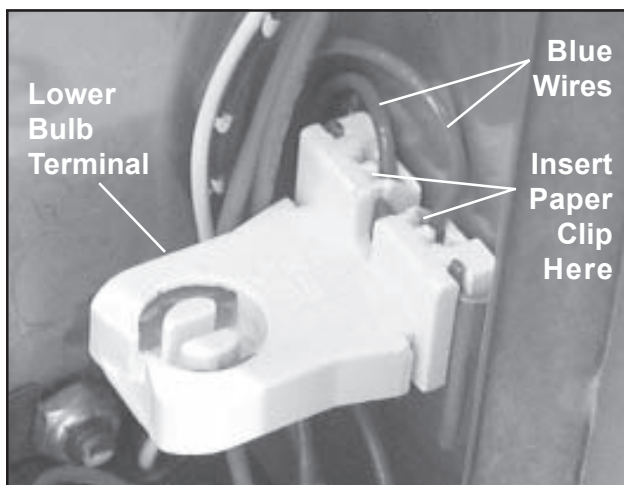


Figure 29. Removing Blue Wires from Bulb Terminal

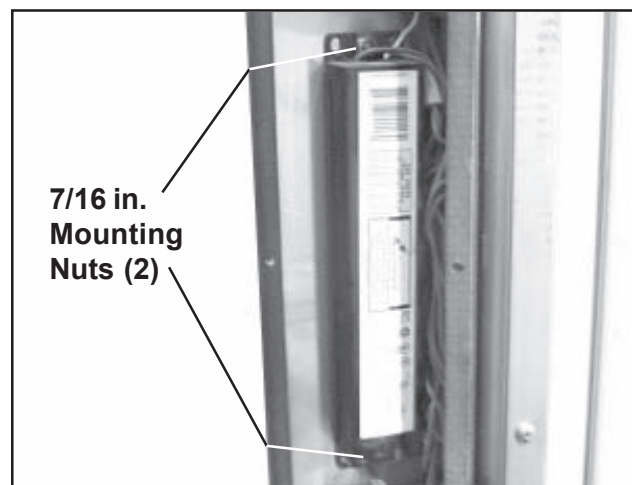


Figure 30. Ballast Mounting Nuts

Installation

1. Install the new ballast into the fixture and secure with the two 7/16 in. nuts removed earlier (Figure 30). The black and white wires must be on top.
2. Insert the two blue wires from the new ballast into the lower bulb terminal (Figure 29). Either wire can go to either connection.
3. Using wire nuts, connect the black and white wires from the ballast to the black and white wires coming into the fixture from the column (Figure 28). Connect black to black, and white to white.
4. Connect the red wires with the wire nuts removed earlier.

5. Bundle the red and blue wires neatly and bunch them between the ballast and the side wall of the fixture (Figure 27).
6. Replace the fluorescent bulb into the fixture.
7. Mount the translucent panel (textured side out) and frame to the fixture and secure with the 12 screws removed earlier.
8. Plug the power cord into a standard 115 VAC, 60 Hz power outlet.

24-hour Timer

P/N 853617

Tools Required

- Phillips screwdriver
- Flat-blade screwdriver

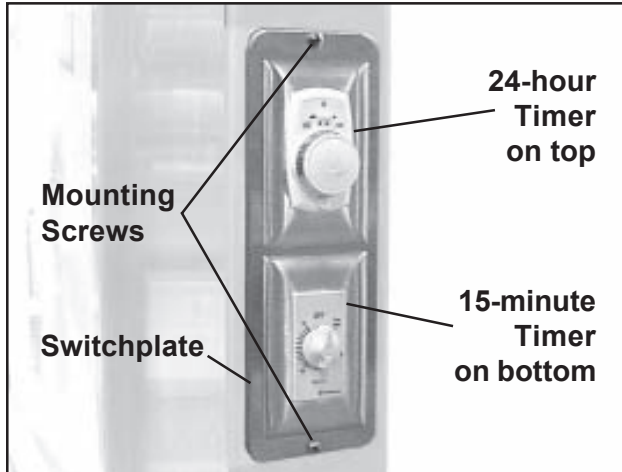


Figure 31. Light Timers and Mounting Screws on Switchplate

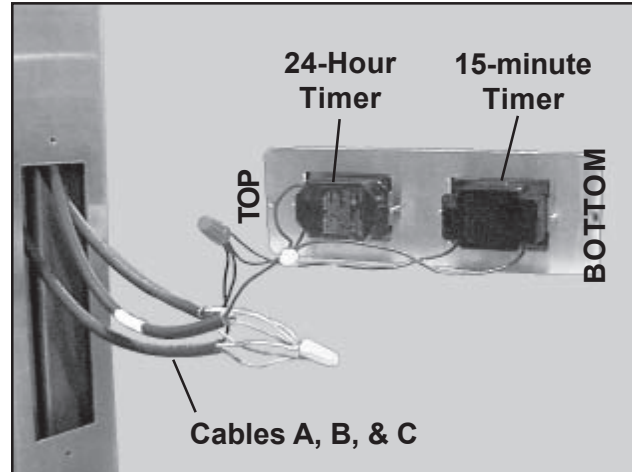


Figure 32. Wire Connections Behind Switchplate

CAUTION: Turn the lights off and disconnect the power plug before working on any component of the electrical system.

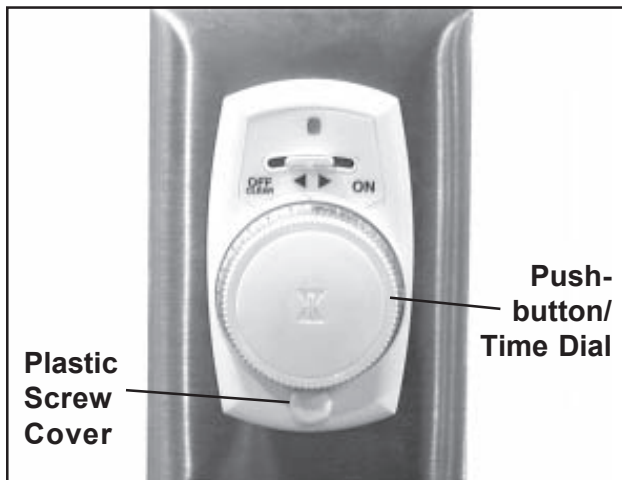


Figure 33. Removing the 24-hour Timer from the Switchplate

Removal

1. Turn the lights off and disconnect the power plug.
2. With a Phillips screwdriver, remove the two mounting screws (Figure 31) and gently pull the switchplate away from the column.
3. Refer to the Wiring Diagram in Figure 34, and remove the two wire nuts that hold the two black wires from the 24-hour timer to the other wires in the column.
4. By hand, pull the pushbutton/time dial off the timer (Figure 33).
5. By hand, pull off the plastic screw cover.

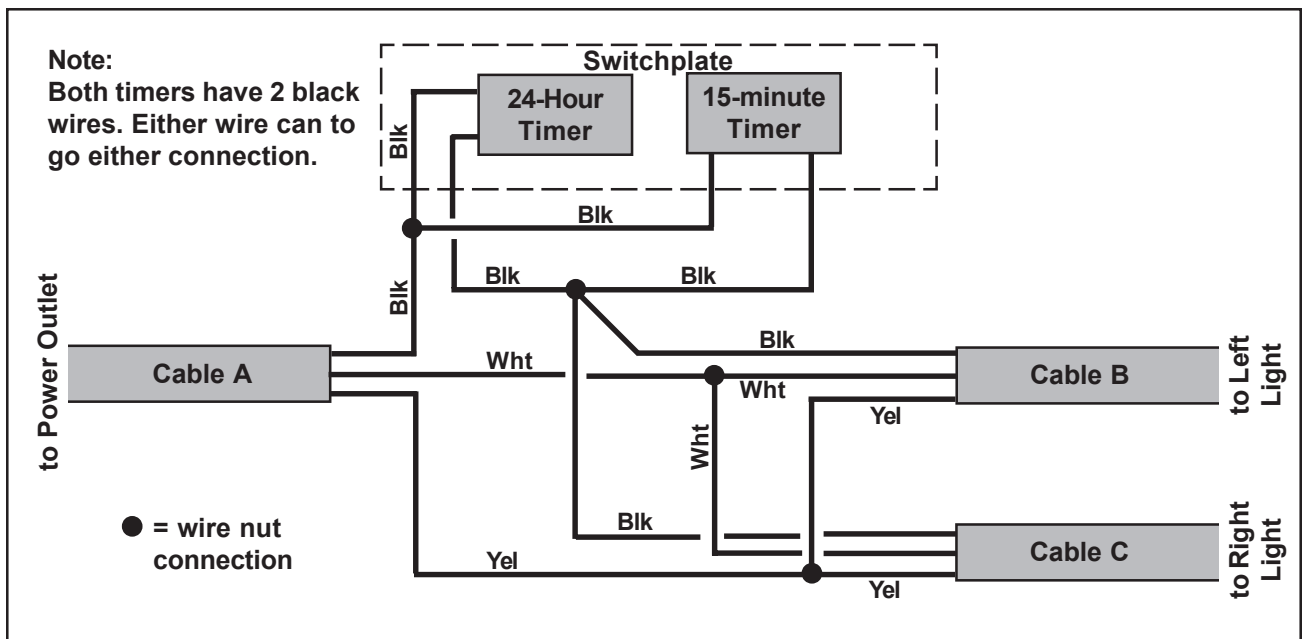


Figure 34. Light Timers - Wiring Diagram

6. With a Phillips screwdriver, remove the screw that was covered by the plastic screw cover (Figure 35).
7. Lift off the faceplate.
8. Lift off the metal cover plate (Figure 36).
9. With a flat-blade screwdriver, remove the two mounting screws and lift out the timer body (Figure 37).

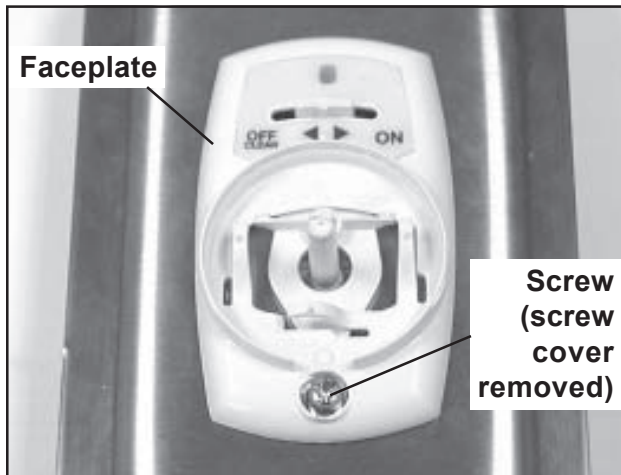


Figure 35. 24-hour Timer - Dial and Screw Cover Removed

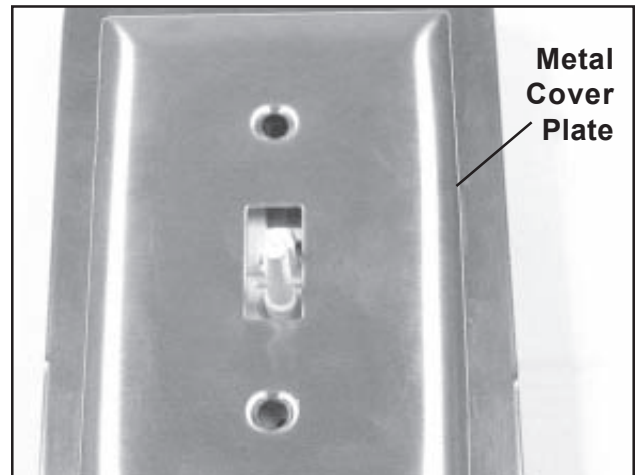


Figure 36. 24-hour Timer - Faceplate Removed

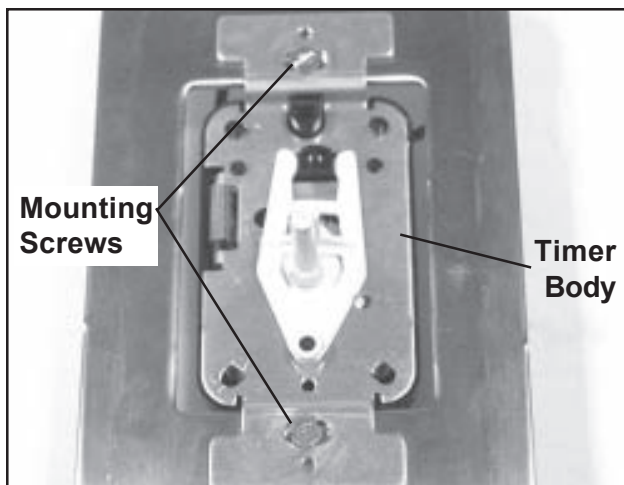


Figure 37. 24-hour Timer - Removing Timer Body

Installation

1. Place the new timer body into the switch plate (Figure 37) and secure with the two screws removed earlier.
2. Place the metal cover plate over the timer body (Figure 36).
3. Install the faceplate on the metal cover plate (Figure 35). **Note:** The transparent tube projecting under the faceplate goes into the upper screw hole on the metal cover plate.
4. Secure the parts together by installing the screw that goes under the plastic screw cover (Figure 35).
5. Press the plastic screw cover over the screw you just installed.
6. Align the flats on the dial shaft and the rear of the dial, and press the dial into place on the shaft.
7. Refer to the Wiring Diagram in Figure 34, and connect the black wires with wire nuts.
8. Mount the complete switchplate to the column with the two screws removed earlier (Figure 31). Make sure that no wires are trapped under the switchplate.
9. Plug the power cord into a standard 115 VAC, 60 Hz power outlet.

15-minute Timer
P/N 854292

Tools Required

- Phillips screwdriver
- Flat-blade screwdriver
- Small flat-blade screwdriver
- 9/16 in. wrench

CAUTION: Turn the lights off and disconnect the power plug before working on any component of the electrical system.

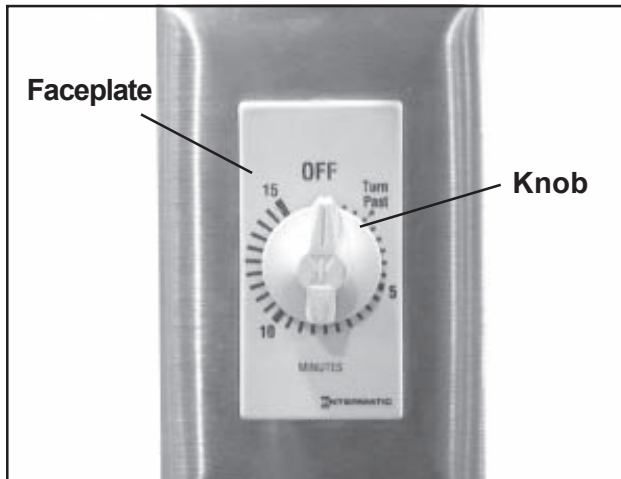


Figure 38. 15-minute Timer - Removing the Knob

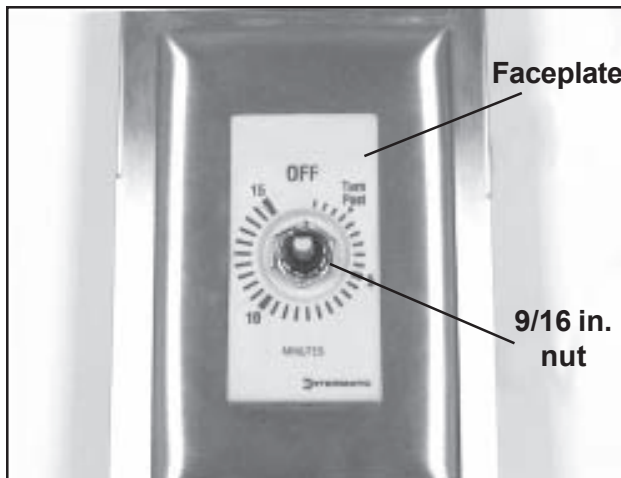


Figure 39. 15-minute Timer - Removing the Faceplate

Removal

1. Turn the lights off and disconnect the power plug.
2. With a Phillips screwdriver, remove the two mounting screws (Figure 31) and gently pull the switchplate away from the column.
3. Refer to the Wiring Diagram in Figure 34, and remove the two wire nuts that hold the two black wires from the 15-minute timer to the other wires in the column.
4. By hand, pull the knob off the timer (Figure 38). If necessary, gently pry the knob off with a flat-blade screwdriver being careful not to damage the knob or the faceplate.
5. With a 9/16 in. wrench, remove the nut on the threaded portion of the knob shaft (Figure 39).
6. With a small flat-blade screwdriver, carefully pry off the faceplate. Be careful not to scratch or damage the faceplate or the metal cover plate.
7. With a small flat-blade screwdriver, remove the two cover plate retaining screws (Figure 40).
8. Lift off the metal cover plate.
9. With a flat-blade screwdriver, remove the two mounting screws and lift out the timer body (Figure 41).

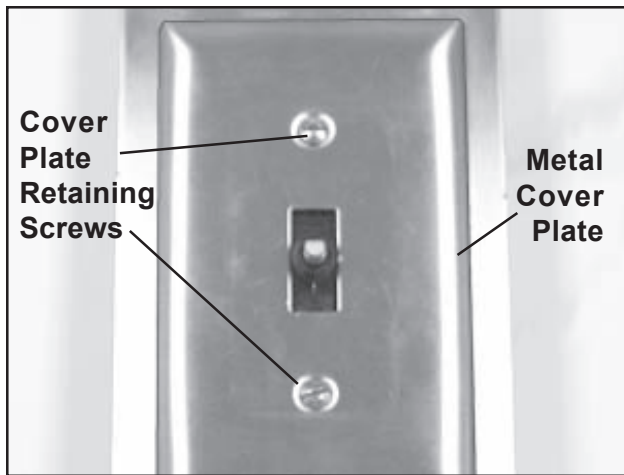


Figure 40. 15-minute Timer - Removing the Metal Cover Plate

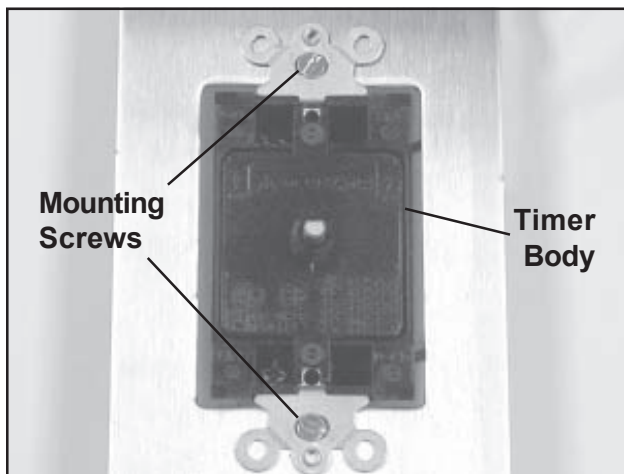


Figure 41. 15-minute Timer - Removing the Timer Body

Installation

1. Place the new timer body into the switch plate and secure with the two mounting screws (Figure 41). The text on the timer body should read right-side up.
2. Place the metal cover plate over the timer body and secure with the two retaining screws (Figure 40).
3. Snap the faceplate into position on the metal cover plate. Make sure it reads right-side up (Figure 39).
4. Screw the nut onto the threaded portion of the knob shaft (Figure 39) and tighten with a 9/16 in. wrench. The open side of the nut should face outward.
5. Align the flats on the knob shaft and the rear of the knob, and press the knob into place on the shaft (Figure 38).
6. Refer to the Wiring Diagram in Figure 34, and connect the black wires together with wire nuts.
7. Mount the complete switchplate to the column with the two screws removed earlier (Figure 31). Make sure that no wires are trapped under the switchplate.
8. Plug the power cord into a standard 115 VAC, 60 Hz power outlet.

Cable A (with Main Power Plug)

Refer to Layout Drawings
for Part Number

Overview

Replacing Cable A requires the disassembly of much of the cubicle.

Tools and Supplies Required

- Phillips screwdriver
- Flat-blade screwdriver
- Wrench set, non-metric
- Stepladder (min. 10 ft high) or other lifting device

CAUTION: When using ladders or other lifting apparatus, observe all applicable safety precautions.

CAUTION: Turn the lights off and disconnect the power plug before working on any component of the electrical system.

Removal

1. Turn the lights off and disconnect the power plug.
2. See **702743**. Refer to *Column Interior Cover, Removal, Steps 1 through 17* starting on *Page 71*, and remove the left column interior cover. **Note:** Omit *Steps 2 and 3* - do not remove the horizontal sealing strips - just slide the front top panel out from under the sealing strips. **Note:** You do not have to remove the cover on the right column.

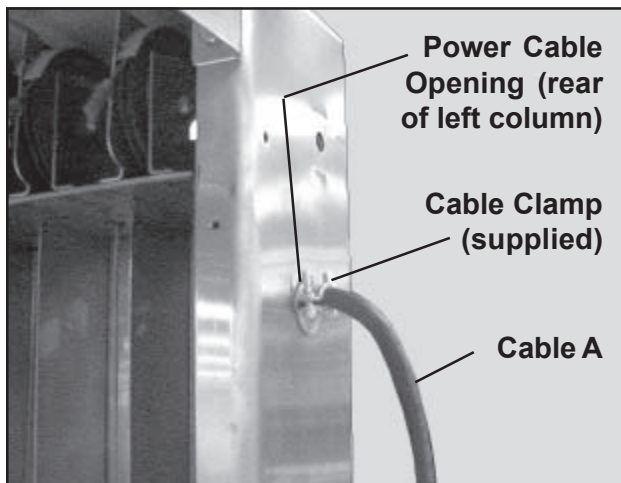


Figure 42. Cable A Mounted to Power Cable Opening

3. With a Phillips screwdriver, remove the two mounting screws (Figure 31) and gently pull the switchplate away from the column.
4. Refer to the Wiring Diagram in Figure 34, and remove the wire nuts that hold the black, white, and yellow wires from Cable A to the other wires in the column.
5. With a screwdriver, loosen both screws on the outside of the cable clamp (Figure 42).
6. Pull Cable A out of the column through the cable clamp.

Installation

1. Refer to *Installing Cable A, Steps 1 through 6 on Page 10* and install the new Cable A.
2. Refer to the Wiring Diagram in Figure 34 and connect the wires from Cable A to the other wires in the switchplate.
3. Mount the switchplate to the left column with the two screws removed earlier (Figure 31). Make sure that no wires are trapped under the switchplate.
4. **See 702743.** Refer to *Chapter 2, Installation*. Start at *Installing the Column Interior Covers on Page 14* and continue on through the remainder of the chapter.

Cable B (to Light Fixture in Left Column)

Refer to Layout Drawings
for Part Number

Overview

Replacing Cable B requires the disassembly of much of the cubicle.

Tools and Supplies Required

- Phillips screwdriver
- Wrench set, non-metric
- Stepladder (min. 10 ft high) or other lifting device

CAUTION: When using ladders or other lifting apparatus, observe all applicable safety precautions.

CAUTION: Turn the lights off and disconnect the power plug before working on any component of the electrical system.

Removal

1. Turn the lights off and disconnect the power plug.
2. **See 702743.** Refer to *Column Interior Cover, Removal, Steps 1 through 17* starting on *Page 71*, and remove the left column interior cover. **Note:** Omit *Steps 2 and 3* - do not remove the horizontal sealing strips - just slide the front top panel out from under the sealing strips. **Note:** You do not have to remove the cover on the right column.
3. With a Phillips screwdriver, remove the two mounting screws (Figure 31) and gently pull the switchplate away from the column.
4. Refer to the Wiring Diagram in Figure 34, and remove the wire nuts that hold the black, white, and yellow wires from Cable B to the other wires in the switchplate.
5. On the light fixture on the left column, remove the 12 screws which hold the frame and translucent panel to the fixture (Figure 22), and remove the frame and panel.
6. Remove the fluorescent light bulb from the fixture.
7. Remove the loop connector on the green wire (ground) from the mounting screw (Figure 24).

8. Disconnect the black and white wires from the column to the light fixture wires (Figure 23). Save the wire nuts for installation.
9. Pull Cable B out of the column through the switchplate opening.

Installation

1. Refer to *Installing Cable B, Steps 1 through 3 on Page 7* and install the new Cable B.
2. Refer to the Wiring Diagram in Figure 34 and connect the wires from Cable B to the other wires in the switchplate.
3. Mount the switchplate to the left column with the two screws removed earlier (Figure 31). Make sure that no wires are trapped under the switchplate.
4. **See 702743.** Refer to *Chapter 2, Installation. Start at Mounting the Column Interior Covers on Page 14* and continue on through the remainder of the chapter.

Cable C (to Light Fixture in Right Column)

Refer to Layout Drawings
for Part Number

Overview

Replacing Cable C requires the disassembly of much of the cubicle.

Tools and Supplies Required

- Phillips screwdriver
- Wrench set, non-metric
- Stepladder (min. 10 ft high) or other lifting device

CAUTION: When using ladders or other lifting apparatus, observe all applicable safety precautions.

CAUTION: Turn the lights off and disconnect the power plug before working on any component of the electrical system.

Removal

1. Turn the lights off and disconnect the power plug.
2. See **702743**. Refer to *Column Interior Cover, Removal, Steps 1 through 17* starting on *Page 71*, and remove both column interior covers. **Note:** Omit *Steps 2 and 3* - do not remove the horizontal sealing strips - just slide the front top panel out from under the sealing strips.
3. With a Phillips screwdriver, remove the two mounting screws (Figure 31) and gently pull the switchplate away from the column.
4. Refer to the Wiring Diagram in Figure 34, and remove the wire nuts that hold the black, white, and yellow wires from Cable C to the other wires in the switchplate.
5. On the light fixture on the right column, remove the 12 screws which hold the frame and translucent panel to the fixture (Figure 22), and remove the frame and panel.
6. Remove the fluorescent light bulb from the fixture.
7. Remove the loop connector on the green wire (ground) from the mounting screw (Figure 24).
8. Disconnect the black and white wires from the column to the light fixture wires (Figure 23). Save the wire nuts for installation.

9. Pull Cable C out of the electric wiring conduit in the header.
10. Pull Cable C out of the left column through the switchplate opening.

Installation

1. Pass the new Cable C through the electric wiring conduit in the header. The end of the cable with two bare wires and one loop connector must go to the right column.
2. Pass this end of Cable C behind the pulleys and down through the light fixture cable opening in the right column.
3. Refer to the Wiring Diagram in Figure 34 and connect the wires from Cable C to the ground and to the black and white wires in the light fixture. Connect the wires black to black and white to white.
4. Pass the other end of Cable C behind the pulleys and down to the light timer opening in the left column.
5. Refer to the Wiring Diagram in Figure 34 and connect the wires from Cable C to the other wires in the switchplate.
6. Replace the fluorescent bulb into the fixture.
7. Mount the translucent panel (textured side out) and frame to the fixture and secure with the 12 screws removed earlier.
8. Mount the switchplate to the left column with the two screws removed earlier (Figure 31). Make sure that no wires are trapped under the switchplate.
9. **See 702743.** Refer to *Chapter 2, Installation*. Start at *Installing the Column Interior Covers* on *Page 14* and continue on through the remainder of the chapter.

Chapter 5 - Troubleshooting

General

The following procedures will help you fix most of the problems that you might encounter with your SSCI Isolation Cubicle. If necessary, please feel free to call SSCI Customer Service at (800) 323-7366. Our experienced technical support personnel will be glad to help you.

For more information on contacting SSCI, refer to *SSCI Contact Information* on Page 2.

Part numbers for available replacement parts for the lighting system are shown in the table on Page 23. To order replacement parts, refer to *Parts Ordering Procedure* on Page 24.

Possible problems are listed below:

- One or both lights do not come on..... Page 46
- 24-hour timer cannot be programmed with rapid method..... Page 47
- 24-hour timer does not turn lights on or off automatically. Page 48
- 24-hour timer does not turn lights on or off using the pushbutton. Page 49
- 24-hour timer is warm to the touch..... Page 50
- 15-minute timer does not operate..... Page 51
- Controlled light flickers or goes to half brightness..... Page 52

Returning Isolation Cubicle Components for Repairs

RMA Numbers

If components of your Isolation Cubicle should require return to SSCI for repairs, discuss the problem with one of our Customer Service Representatives. Obtain an RMA number (Return Merchandise Authorization) from him before shipping the item back. **Note:** SSCI will *not* accept merchandise returned without an RMA number.

Packing and Shipment

Pack the component securely in a suitable container. If the component is large and heavy, consider shipping it securely mounted to a pallet. Ship documentation with the unit including:

- Destination
- RMA Number
- Your name, company and address
- Your telephone number
- A description of the reason for returning the component

One or both lights do not come on.

Remedial Action

First: If both lights do not come on, make sure the power plug is plugged in and that no fuses have blown or circuit breakers tripped.

Second: If only one light does not come on, replace the fluorescent bulb (refer to *Page 20*). If this does not fix the problem, replace the ballast in that light fixture (refer to *Ballast on Page 31*).

Third: Check the wires and connections at the switchplate for damage or loose connections. Refer to *24-hour Timer, Removal, Steps 1 and 2 on Page 34* to access the wiring at the rear of the plate. Refer to Figure 34 for correct wire connections.

Fourth: Check the wiring at each light fixture for damaged wires or loose connections. Refer to *Translucent Panel, Removal, Steps 1 through 3 on Page 28* to access the wiring in the fixture.

Fifth: The 24-hour timer may be bad. Replace the timer (refer to *24-hour Timer on Page 34*).

Sixth: If these actions do not resolve the problem, call SSCI Customer Service at (800) 323-7366.

24-hour timer cannot be programmed with rapid method.

Remedial Action

First: Programmer may not have been programmed correctly. Try programming the timer again, paying close attention to the instructions.

Second: Control lever was not in ON position. Check position of the control lever and reprogram the timer.

Third: Is red indicator light flashing at beginning of programming sequence? Try programming the timer again, paying close attention to the instructions.

Fourth: Pushbutton/time dial is not being fully depressed fully. Try programming the timer again, paying close attention to the instructions, and fully pressing the pushbutton/timer dial at the appropriate times.

Fifth: If these actions do not resolve the problem, call SSCI Customer Service at (800) 323-7366.

24-hour timer does not turn lights on or off automatically.

Remedial Action

First: Programmer may not have been programmed correctly. Try programming the timer again, paying close attention to the instructions.

Second: Is timer in the MANUAL mode instead of the AUTOMATIC mode? Try programming the timer again, paying close attention to the instructions.

Third: Are the light bulbs good and properly mounted? Make sure that the bulb(s) is not burned out and is mounted tightly in its socket.

Fourth: Loose wiring. Check all wiring for secure connections and undamaged wires.

Fifth: If these actions do not resolve the problem, call SSCI Customer Service at (800) 323-7366.

24-hour timer does not turn lights on or off using the pushbutton

Remedial Action

First: Are the light bulbs good and properly mounted? Make sure that the bulb(s) is not burned out and is mounted tightly in its socket.

Second: Loose wiring. Check all wiring for secure connections and undamaged wires.

Third: Is incoming power correct? Check the office power panel for blown fuses or tripped circuit breakers.

Fourth: If these actions do not resolve the problem, call SSCI Customer Service at (800) 323-7366.

24-hour timer is warm to the touch.

Remedial Action

First: Some warmth is normal. If heat appears to be excessive, check the bulbs to make sure they do not exceed the correct ratings.

Second: If these actions do not resolve the problem, call SSCI Customer Service at (800) 323-7366.

15-minute timer does not operate.

Remedial Action

First: Check the wires and connections at the switchplate for damage or loose connections. Refer to *15-minute Timer, Removal, Steps 1 and 2* on *Page 37* to access the wiring at the rear of the plate. Refer to *Figure 34* for correct wire connections.

Second: You might have a bad timer. Replace the timer (refer to *15-minute Timer* on *Page 37*).

Third: If these actions do not resolve the problem, call SSCI Customer Service at (800) 323-7366.

Controlled light flickers or goes to half brightness.

Remedial Action

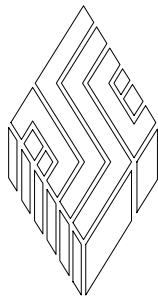
First: This is usually the symptom of defective wiring. Check all wiring and wiring diagram for damaged wires or loose connections.

Second: If these actions do not resolve the problem, call SSCI Customer Service at (800) 323-7366.

Inside back cover

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***For more information on SSCI's fine line of products
and accessories, talk to your SSCI sales representative.***



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