



ZGUARD® FOOD SHIELDS LIGHTS & WARMERS

Thank you for choosing products from BSI. We appreciate your business and are available to assist you with all of your needs.

This manual has been designed to help you better understand your product and its proper usage.

If you have questions that go beyond this detailed manual, please contact our Customer Service Department at 1.800.662.9595.

Thank you, The BSI Team

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NOTES		





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The BSI, LLC manual is an important part of your equipment. This document should be stored in a safe location, as it will be useful for the life of your product. It contains important safety information concerning the maintenance, operation, and servicing of these products.

Failure to properly use this manual may result in serious injury. Do not operate this equipment unless you have read and understood the contents of this manual.

№ IMPORTANT OWNER INFORMATION

Record the model number(s) of your ZGuard and serial number(s), of your warming units to use as a reference when contacting your local representative or BSI headquarters in Colorado.

Model No.:	BSI, LLC	
Serial No.:	Business Hours:	8:00 a.m. to 4:30 p.m. MST
Model No.:		
Serial No.:	Telephone:	800.662.9595
Date of	Fax:	303.331.8444
Purchase:	Web Address:	www.bsidesigns.com
Other:	WCD / laaress.	www.baideaigha.com

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SAFETY PRECAUTIONS



The ZGuard® food shield must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.

➢ ZGUARD MODELS

ZGuard food shields are manufactured in many different configurations. While the components are all similar, your model's glass and posts may not be. Post will either be aluminum or stainless steel. The models shown below and on the following page should be maintained in the same manner based on the instructions within this manual.

If you have questions regarding a ZGuard or are interested in custom configurations please contact BSI, LLC at 1.800.662.8777.

➢ RECEIVING AND INSPECTING THE EQUIPMENT

Even though most equipment is shipped crated, care should be taken during unloading so the equipment is not damaged while being moved into your facility.

- 1. Visually inspect the exterior of the package and skid or container. Any damage should be noted and reported to the delivering carrier immediately.
- 2. If damaged, open and inspect the contents with the carrier.
- 3. In the event that the exterior is not damaged, yet, upon opening, there is concealed damage to the equipment, notify the carrier. Notification should be made verbally as well as in written form.
- 4. Request an inspection by the shipping company of the damaged equipment. This should be done within 10 days from receipt of the equipment.
- 5. Be sure to check that there is no broken glass.
- **6.** Be sure to check that all materials are received.
- 7. Freight carriers can supply the necessary damage forms upon request.
- **8.** Retain all crating materials until an inspection has been made or waived.
- All ZGuard packages contain drawings for your installer.
- All ZGuard packages contain this Owner's Manual and Warranty.



ZG9500



ZG9500-2



ZG9500-3



ZG9500-4



ZG9500-5



ZG9500-6



ZG9560



ZG9560-2

All ZGuard® models are certified by NSF.





ZGUARD® MODELS



ZG9600



ZG9900



ZG9915



ZG9930



ZG9930-2



ZG9930-3



ZG9930-5



ZG9945



ZG9945-3



ZG9945-4



ZG9945-5



ZG9950



ZG9950-2



BASIC COMPONENTS & LAYOUT End Cap Glass Panel **CUSTOMER SIDE** Glass Panel Left Bracket (see inset) Center Bracket Heavy-Duty Flange and Cover Right Bracket 1" Post SERVER SIDE Fig. 1 shows a two-panel ZG9500 with a center bracket. Center bracket may be substituted with Oval Knob a stacked left/right bracket combination for a (for height different configuration. adjustment) Round Knob

ZGUARD® BRACKETS



Center Bracket Assembly



Fig. 2 shows section view of Fig. 1.

SEE EXPLODED VIEW AND PART NUMBERS ON PAGE 7.

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(for angle adjustment)



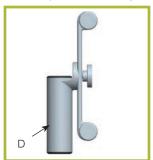
➢ ZGUARD® BRACKET ASSEMBLY AND PARTS

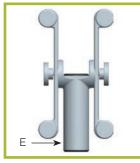
В

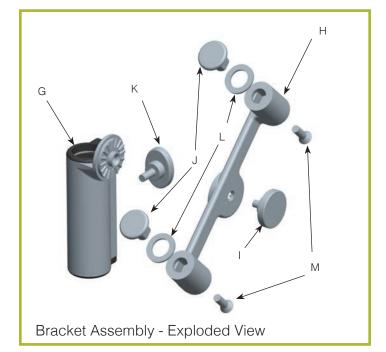
Full Assembly

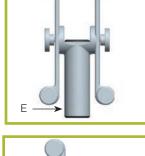














Location Part Name Part # 553 Left Bracket Assembly В 554 Center Bracket Assembly С 555 Right Bracket Assembly D 322 Left Post Clamp Ε 424 Center Post Clamp F 323 Right Post Clamp G 324 Post Clamp Insert Н 321 Glass Mounting Clamp 326 Round Knob J 336 Decorative Nut Κ 457 Oval Knob L 484 Clear Mylar Spacer 1/4-20 x 1-1/4" Machine Screw Flat M **Phillips** Ν 553RX Left Bracket Right Half Arm Assy. Center Bracket Half Arm Assembly 0 554X Ρ 555LX Right Bracket Left Half Arm Assy.

Half Arm Assembly









In the event your ZGuard product needs service and requires major repairs, contact your local installer for assistance.

If you have questions about the products or need to replace minor parts, contact BSI, LLC at 800.662.9595.



GLASS AND BRACKET POSITION

Glass panels can be tilted forward or backwards in 22 .5° increments. The panels (glass and bracket combination) can be raised or lowered by adjusting the brackets. As detailed in Figure #1 (page 6), the bracket's Oval Knob is shown on the Server Side. Oval Knob location varies based on food shield configuration. The bracket's Round Knob, which holds the Glass Mounting Clamp in place, always faces the food.

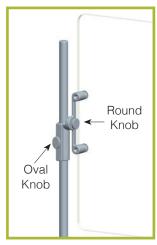


Illustration #1: Bracket and glass in 'Home' position.

ZGuard brackets allow you to adjust the food shield height and angle of glass.

Referred to as the 'home' position, bracket and glass will be in vertical position.

With the assistance from a second person, take the following steps to adjust your ZGuard.

- 1. To raise or lower the bracket, loosen the Oval Knob from the Post Clamp. Slide to new position and tighten. (See Illustration #1)
- To adjust angle of the glass, loosen the Round Knob and then adjust the glass angle to desired location. (See Illustration #1)

CLEANING INSTRUCTIONS

Cleaning your new ZGuard product is key to its long life.

BSI recommends the following for keeping your product clean:

- Wipe the surface with a clean, damp cloth to remove fingerprints, dust, etc.
- Spray with a light coating of glass cleaner to remove grease or other dirt. Use a non-ammonia cleaner.
- Do not polish ZGuard with any brass polish. Your ZGuard has a durable finish and will maintain its finish for years if well maintained. (Polishing the finish with a polishing agent of any kind will destroy the coating.)
- Do not scrub the surface with any abrasive substance such as steel wool, pot scrubbers, abrasive powders, or similar products, as it will remove the protective coating.
- If unit is fitted with a BSI Stealth warmer, do not clean the glass or housing when warmer is hot.
 Cleaning warmer when hot can cause staining or damage to warmer finish.



ॐ GLASS LIMITATIONS

ZGuard food shield systems that are equipped with a shelf are not intended to withstand heavy weights. Do not exceed **75lbs.** total weight of all display items across a 36" panel of 3/8" thick glass.

TESTING PARAMETERS

Food Shield: ZG9500

(glass panel positioned at 90° to post)

Posts & Brackets: Brushed Aluminum
Glass: 36" x 14" (3/8" thick)
Mounting: Above Counter
Time: 24 hours

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ZG9600 Assembly Instructions

- 1. From the underside, use the provided screws to attach the stabilizer to each foot. There are two alternate locations for stabilizer placement.
- 2. Right side up, screw in the two posts. There are two alternate locations for post placement.
- 3. In the non-used post holes screw in the provided foot plugs.
- 4. Affix the glass panel to the left and right bracket assemblies.
- 5. Slide the brackets onto the left and right post. Tighten bracket at level height for secure hold.
- 6. With the brackets parallel to counter, screw glass panel to the brackets.
- 7. Adjust glass angle and height as needed.

7 4 → 5	Alternate Post Location
Alternate Crossbar Location	1

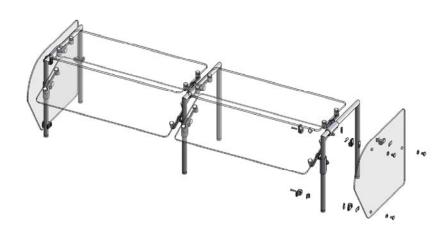
Location	Part #	Part Name	
1		Market Stabilizer Screw	
2	415	Market Stabilizer	
3	416	Market-Style Foot	
4	348	Post	
5	361	Foot Plug	
6		Glass Panel	
7	553	Left Bracket Assembly	
8	555	Right Bracket Assembly	

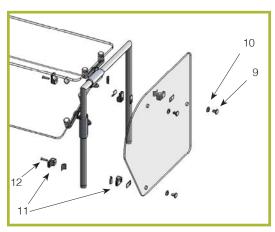
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➢ NSF REQUIRED END PANELS FOR ZGUARD®

To meet NSF guidelines, end panels are included on all BSI quotations unless otherwise specified.





Location	Part #	Part Name
9	336	Decorative Nut
10	484	Clear Mylar Spacer
11	15756	End Panel Bracket Assembly
12		1/4-20 x 1-1/4" Machine Screw Flat Phillips

NSF End Panel Requirement Exemption

NSF/ANSI Standard 2 - 2018

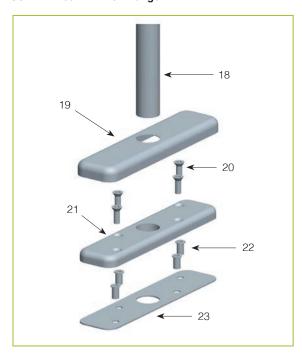
5.36.1.6.2 A food shield intended to be installed a maximum of 3 inches (76 mm) from a building wall perpendicular to the food shield is exempt from the requirements of 5.36.1.6.1 provided that the height of the building wall is not lower than the overall height of the food shield. The manufacturer's specification sheet, brochure, installation instructions, and/or shop drawings shall include these building wall and proximity requirements.



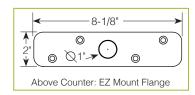


➢ ABOVE-COUNTER INSTALLATION FOR 1" ZGUARD® POSTS

For Stainless Steel Counter SS1: EZ Mount 2" x 8" Flange



Location	Part #	Part Name
18	348	1" Threaded Post
19	485	EZ Mount Center Flange Cover
20		10-32 x 1" S/S Screw Flat Phillips
21	470	EZ Mount Base Flange Centered
22		Rivet Nut
23	473	EZ Mount Flange Plate Centered
24	464	Heavy-Duty Flange Cover
25		#12 x 2" A Tapping Screw Flat Phillips
26	471	Heavy-Duty Flange
27	465	Narrow Flange Cover
28	378	Narrow Flange
29	442	Grommet

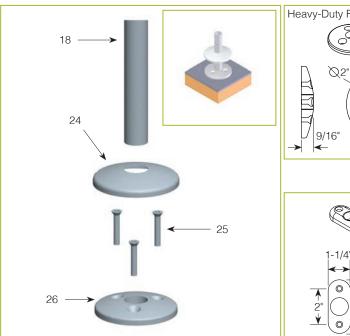


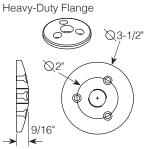
For Millwork Counter

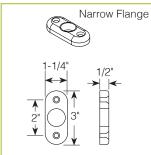
MW2: Narrow Flange



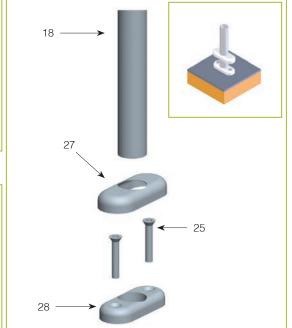
For Millwork Counter MW1: Heavy-Duty Flange







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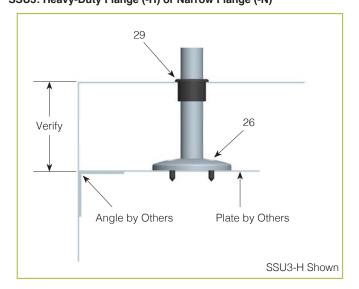


▶ UNDER-COUNTER INSTALLATION FOR 1" ZGUARD® POSTS

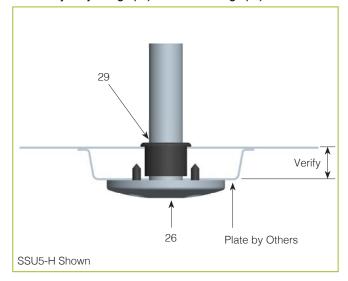
Refer to page 11 for part numbers.

For Stainless Steel Counter

(requires under-counter reinforcement and access) SSU3: Heavy-Duty Flange (-H) or Narrow Flange (-N)

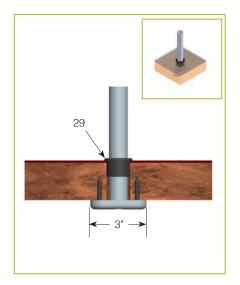


For Stainless Steel Counter (requires under-counter reinforcement and access) SSU5: Heavy Duty Flange (-H) or Narrow Flange (-N)

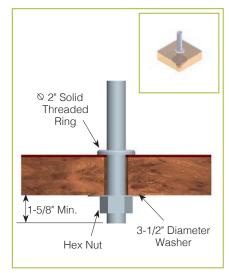


Verify Counter Thickness or Under-Counter Installation Depth in Inches

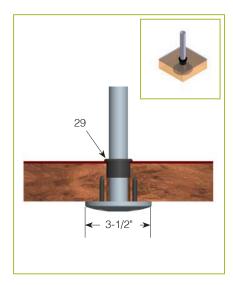
For Millwork Counter MWU3: Narrow Flange



For Millwork Counter
MWU4: Compression Installation
(not recommended for solid surfaces)



For Millwork Counter MWU5: Heavy Duty Flange



Verify Counter Thickness or Under-Counter Installation Depth in Inches

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For below-counter installation a 1-1/4" diameter grommet is required. (Part #442)

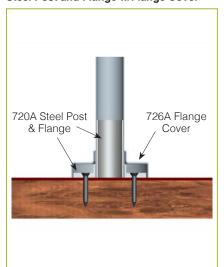
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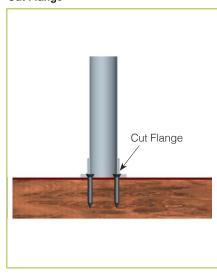
ABOVE-COUNTER INSTALLATION FOR 1-1/2" ZGUARD® POSTS

Refer to page 11 for part numbers.

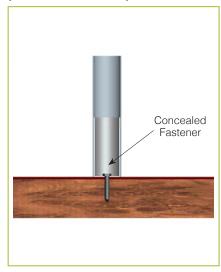
For Millwork Counter
Surface Installation 720A/726A:
Steel Post and Flange w/Flange Cover



For Millwork Counter Surface Installation 725A: Cut Flange



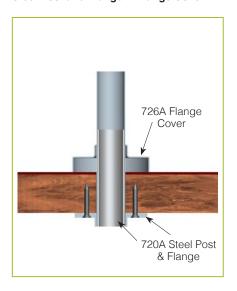
For Millwork Counter Concealed Fastener (not for cantilever units)



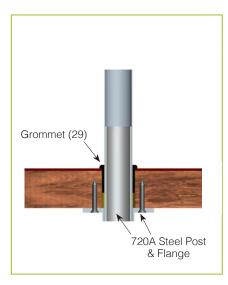
▶ UNDER-COUNTER INSTALLATION FOR 1-1/2" ZGUARD POSTS

(requires under-counter reinforcement and access)

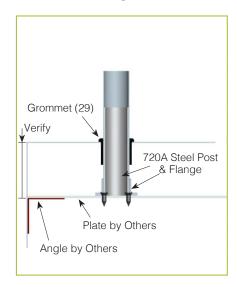
Under-Counter Installation 720A/726A: Steel Post and Flange w/Flange Cover



Under-Counter Installation 720A: Steel Post and Flange w/out Flange Cover

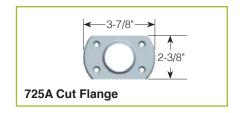


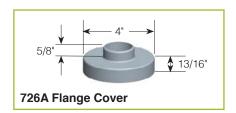
Under-Counter Installation 725A: Narrow Custom Flange



FLANGE AND FLANGE COVER DIMENSIONS











LIGHTS & WARMERS



LIGHTS & WARMERS

Food shield systems can be built with lights, warmers or a combination of the two. Proper maintenance for these products is very important for safety. The following pages will detail the proper methods of keeping your product clean, how and where to exchange parts, and include diagrams for proper wiring.

RECEIVING AND INSPECTING THE EQUIPMENT

Even though most equipment is shipped crated, care should be taken during unloading so the equipment is not damaged while being moved into your facility.

- 1. Visually inspect the exterior of the package and skid or container. Any damage should be noted and reported to the delivering carrier immediately.
- 2. If damaged, open and inspect the contents with the carrier.
- 3. In the event that the exterior is not damaged, yet, upon opening, there is concealed damage to the equipment, notify the carrier. Notification should be made verbally as well as in written form.
- 4. Request an inspection by the shipping company of the damaged equipment. This should be done within 10 days from receipt of the equipment.
- 5. Be sure to check that there is no broken glass.
- 6. Be sure to check that all materials are received.
- 7. Freight carriers can supply the necessary damage forms upon request.
- 8. Retain all crating materials until an inspection has been made or waived.
- 9. All packages contain drawings for your installer.
- 10. All Light and Warmer packages contain this Owner's Manual and Warranty.



ALL LIGHTS, WARMERS AND COMBO UNITS
ARE SHIPPED USING ZIPTIES TO SECURE
UNITS DURING TRANSIT. AFTER INSTALLATION,
CAREFULLY REMOVE ALL ZIPTIES.



This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.

All Light and Warmer models are certified by NSF.



MODELS



Slimline Light Model 2580



Stealth Warmer Model 790



Stealth Warmer & Light Combo Model 705



Stealth Double Warmer & Light Combo Model 500



CLEANING INSTRUCTIONS

Once your Food Shield has been properly installed and you have removed all zip ties from transportation, it will be important to keep your light, warmer or combo unit clean to prolong the life of the product.

BSI recommends the following for keeping your product clean:

- Be sure to turn the power on your light or warmer off before cleaning. Only clean when stealth warmer is cool. Cleaning when the warmer is hot can cause staining or damage to food warmer finish.
- Wipe the surface with a clean, damp cloth to remove fingerprints, dust, etc.
- Spray with a light coating of glass cleaner to remove grease or other dirt. Use a non-ammonia cleaner.
- Be sure not to spray any cleaning product directly into the bulbs, fixtures or heating elements.

≫ IDENTIFYING YOUR PRODUCT

Each BSI light, warmer or combo unit contains an Identification Sticker. This sticker provides the customer with the following information:

- Serial Number
- Model Number
- Manufacture Date
- Electrical Information

Sample Stealth Warmer Sticker with everything you need to know about your unit.



EXAMPLE 2 CHANGING THE FLUORESCENT BULB

When a fluorescent bulb burns out and needs to be replaced you will need to do the following:

- Turn off power to all lights and warmers.
- Carefully push the white lever to the opposite side, rotating the bulb 90°.
- Rotating the lever will unlock the bulb. The pins will now be visible through the open slots at each end. Caution: At this position, bulbs are free to fall down through open slots.
- If the bulb does not easily slide out from the holders, tap lightly on housing first, then carefully use needle-nose pliers to grab the bulb, evenly pulling it down and out.
- Once the defective bulb is removed, remove the white lever end cap from the bulb prongs and proceed to place it on the new bulb prongs.
- With the new bulb in hand, evenly push the pins on both ends up and into the open slots of the lamp holders.
- Carefully push the white lever to the opposite side, rotating the bulb 90° and locking it into place. Pins will no longer be visible.





Do not use high-output bulbs. Use coated, shatter-proof bulbs.



ॐ CHANGING THE LED BULB

When a LED bulb burns out and needs to be replaced you will need to do the following:

- Turn off power to all lights and warmers.
- Carefully unscrew the end plate and slide out the entire LED light.
- If mutiple lights are connected to each other carefully disconnect Serial Connector or Power Connector.
- Once dead light is removed, replace with new LED light. Carefully reconnect the connector and slide in the light bar.
- Replace end cover and the two screws.



End Plate

⇒ PARTS & SERVICE

In the event that your Lights or Warmers need service and require major repairs, contact your local installer for assistance.

If you have questions about the products or need to replace minor parts you may contact BSI, LLC at 1.800.662.9595.

ORDERING NEW FLUORESCENT BULBS





Part #	Description (All bulbs 4100K)		
508-8-C	F8-T5/CW - 12" Long		
508-14-C	F14-T5/CW - 22" Long		
508-21-C	F21-T5/CW - 34" Long		
508-28-C	F28-T5/CW - 46" Long		
508-35-C	F35-T5/CW - 58" Long		
512	Bulb Installation Lever		

ORDERING NEW LED LIGHTS

Part #	Description		
16289	Kelly LED:_12"_LED_Light_Bar		
16290	Kelly LED:_18"_LED_Light_Bar		
16292	Kelly LED:_36"_LED_Light_Bar		
16505	Kelly LED:_48"_LED_Light_Bar		
16293	Kelly LED:_10'_Power_Cord_w/o_Plug		
16294	Kelly LED:_Serial_Connector		
16295	Kelly LED:_6" Power_Connector		



On all three Stealth Warmer units the tubular heating element can burn out, similar to a light bulb.

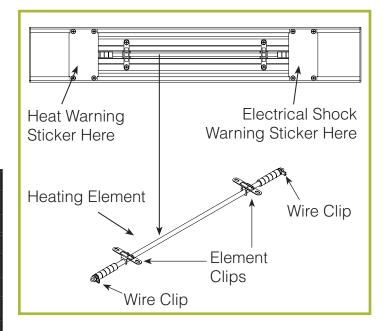
Replacing the tubular heating element should be completed by a Professional Service Technician. If you have additional questions please contact BSI at 1.800.662.9595.

ॐ ORDERING NEW HEATING ELEMENTS

Part #	Description		
492-18-BK	Element:_18"_120V_Heater_350W		
492-24-BK	Element:_24"_120V_Heater_500W		
492-30-BK	Element:_30"_120V_Heater_660W		
492-36-BK	Element:_36"_120V_Heater_800W		
492-42-BK	Element:_42"_120V_Heater_950W		
492-48-BK	Element:_48"_120V_Heater_1100W		
492-54-BK	Element:_54"_120V_Heater_1250W		
492-60-BK	Element:_60"_120V_Heater_1400W		
492-66-BK	Element:_66"_120V_Heater_1560W		

Part # Description 496-24-BK Element:_24"_208V_Heater_500W 496-30-BK Element: _30"_208V_Heater_660W 496-36-BK Element:_36"_208V_Heater_800W 496-42-BK Element:_42"_208V_Heater_950W 496-48-BK Element:_48"_208V_Heater_1100W 496-54-BK Element: 54" 208V Heater 1250W 496-60-BK Element: _60"_208V_Heater_1400W 496-66-BK Element: 66" 208V Heater 1560W

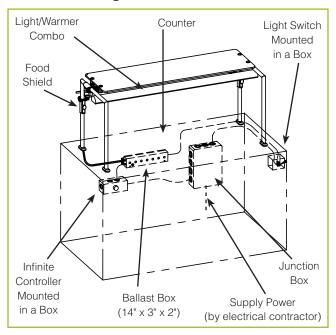
240V Heat Elements are a Special Order Item. Contact BSI at 1.800.662.9595 to place an order.



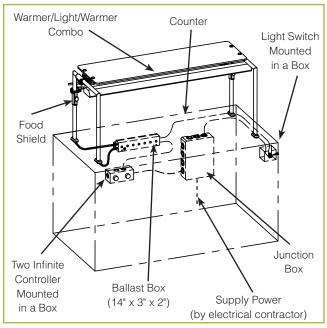


WIRING INSTALLATIONS

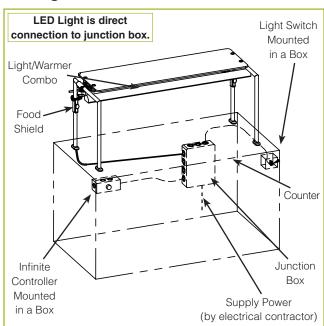
Fluorescent Light/Stealth™ Warmer Combo



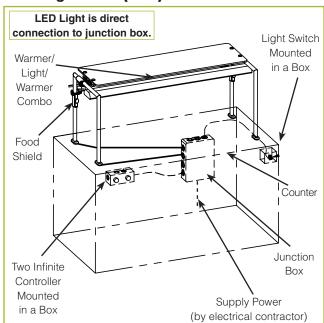
Stealth[™] Warmer Combo Heat Light Heat (Fluorescent)



LED Light/Stealth™ Warmer Combo



Stealth[™] Warmer Combo Heat Light Heat (LED)



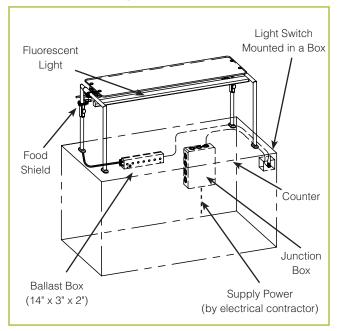
Typical Food Shield Light and Warmer Installations

- All wiring should be performed by a certified technician.
- Wires are routed through wire chase/support legs per approved shop drawings.
- Mount the ballast box, infinite controllers near the wire chase/support leg.
- The ballast box, infinite controllers, light switch and 6 feet of conduit/wiring exiting support legs are all provided with all models of BSI, LLC Food Shields. All other components are provided by others.

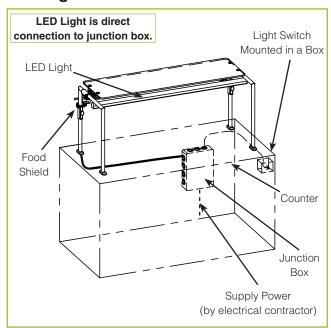


WIRING INSTALLATIONS

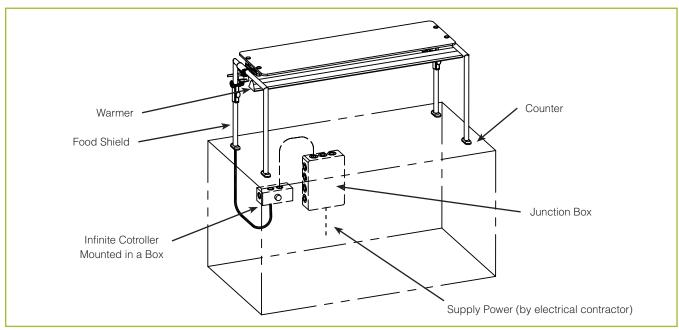
Fluorescent Lights



LED Lights



Stealth[™] Warmer



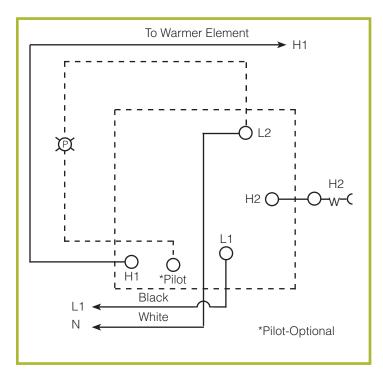
Typical Food Shield Light and Warmer Installations

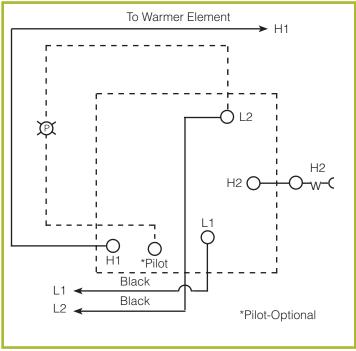
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- Mount the ballast box, infinite controllers near the wire chase/support leg.
- The ballast box, infinite controllers, light switch and 6 feet of conduit/wiring exiting support legs are all provided with all models of BSI, LLC Food Shields. All other components are provided by others.



WIRING DIAGRAMS

Remote Infinite Control for Stealth™ Warmer/Combo Units





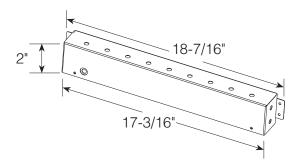
INFINITE SWITCH (120V) - PART #581

INFINITE SWITCH (208V/240V) - PART #582

FLUORESCENT LIGHT BALLASTS



As a standard, all BSI fluorescent lights are supplied with a remote ballast (internal ballasts are available). This UL Listed ballast is supplied in a UL approved box that needs to be located and installed below the counter.



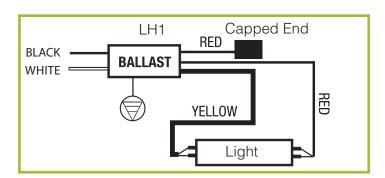
Ballast Box for

LH1 - Part #509-1 & LH2 - Part #509-2

LH4 - Part #509-4



➢ DIAGRAMS FOR FLUORESCENT LIGHTS AND LIGHT/WARMER COMBO UNITS



LONGHORSE 1 - LINEAR

On Stealth Heat/Light Combo

Description	Lamp Type
16"-18" T5 Fluorescent Fixture	F6 / T5
19"-27" T5 Fluorescent Fixture	F8 / T5
28"-39" T5 Fluorescent Fixture	F14/T5
40"-51" T5 Fluorescent Fixture	F21/T5
52"-62" T5 Fluorescent Fixture	F28/T5

LONGHORSE 2 - LINEAR

On Stealth Heat/Light Combo

Description	Lamp Type
65"-74" T5 Fluorescent Fixture	F35 / T5

LONGHORSE 2 - LINEAR

On Stealth Heat/Light Combo

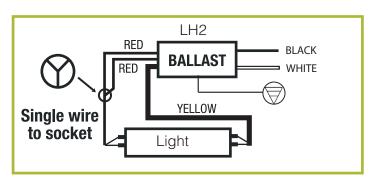
Description	Lamp Type
75"-86" T5 Fluorescent Fixture	(2) F21 / T5

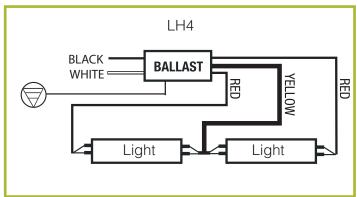
This is the LH2 Ballast but is wired like an LH4.

LONGHORSE 4 - LINEAR

On Stealth Heat/Light Combo

Description	Lamp Type
87"-98" T5 Fluorescent Fixture	(1) F21 & (1) F28 / T5
99"-110" T5 Fluorescent Fixture	(2) F28 / T5
111"-121" T5 Fluorescent Fixture	(1) F28 & (1) F35 / T5
122"-144" T5 Fluorescent Fixture	(2) F35 / T5







BSI, LLC WARRANTY

BSI, LLC warrants its products to be free from defects in material and workmanship from the date of their original purchase for normal use and for the applicable warranty periods set forth below. BSI, LLC's warranty extends only to original purchasers acquiring new products purchased in the United States directly from BSI, LLC, its authorized dealers or other companies specifically authorized by BSI, LLC to act as resellers of its products.

STFALTH WARMERS

BSI, LLC warrants the Stealth Warmer against defects in material and workmanship for a period of two years from invoice date. The warming element is warranted for two years from invoice date.

FLUORESCENT LIGHT BALLAST

The Slimline Light warranty is for material and workmanship for the period of two years from invoice date. The fluorescent bulb itself is not covered under warranty.

LED LIGHT

The LED Light warranty is for material and workmanship for the period of two years from invoice date. The fluorescent bulb itself is not covered under warranty.

THERE ARE NO WARRANTIES EXCEPT AS EXPRESSLY STATED ABOVE, WHETHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. These warranties do not apply to any products which have been altered in any way or to products which have been subject to misuse, abuse, neglect, accident, or which have been damaged in transit. Warranty is void if products are used, held or stored in an unsupervised environment. BSI, LLC's liability for its products shall be limited to the repair or replacement of products or, at BSI, LLC's option, to refunding the purchase price. BSI, LLC will not be liable, under any circumstances, for incidental or consequential damages (including, without limitation, to lost profits) arising in connection with the sale, use, inability to use, repair or replacement of BSI, LLC's products. The liability of BSI, LLC arising from any cause shall not exceed the price paid for the products.

Any claim for breach of the foregoing warranties shall be deemed waived unless submitted to BSI, LLC in writing within 30 days of the date the alleged defect was discovered, or by reasonable inspection should have been discovered. The merchandise must be returned to the BSI, LLC factory from which it was purchased, freight prepaid, and will not be accepted unless prior written authorization to return the merchandise has been issued by BSI, LLC. A copy of the original invoice must accompany the returned merchandise to prove the date of original purchase and warranty entitlement. Any cause of action for breach of the foregoing warranties shall be deemed waived unless brought within one year of the date of the claim submission.