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WARRANTY POLICIES

Lifetime Limited Warranty for Lifetime Illuminator™

Lifetime Limited Part Replacement

Should any Lifetime Illuminator™ component fail during the initial five(5) years of recommended use from the date of installation, Fiberstars will replace the failed component(s) without charge. At anytime after the initial five(5) year period, Fiberstars will replace the failed component(s) for a nominal charge. The nominal charge will be based on 50% (fifty percent) of the manufacturer's suggested retail price of the component at the time of replacement. The failed component(s) must be returned to Fiberstars, or any Fiberstars Authorized Service Center.

On-site Limited Labor Warranty

Should the Fiberstars Lifetime Illuminator™ fail during the first two(2) years from date of installation, Fiberstars will provide on-site repair at no charge if a Fiberstars Authorized Service Center exists in the immediate area. If no Fiberstars Authorized Service Center exists in the immediate area, the Lifetime Illuminator™ must be shipped to Fiberstars, Fremont, CA at the owner's expense for repair.

This warranty applies only to the original owner for as long as they own the Lifetime Illuminator™. This warranty is non-transferrable.

General Warranty for Lighting Products

Fiberstars, Inc. ("Fiberstars"), warrants the Lighting Systems (illuminator and fiber), excluding the lamp, to be free from defects in material and/or workmanship, under normal use and service, for a period of ONE YEAR from the date of installation.

A Lighting System is defined as a Fiberstars Illuminator coupled with Fiberstars fiber to deliver fiber optic lighting. The use of a Fiberstars component (illuminator or fiber tubing) with a non-Fiberstars component voids all warranties. Fiberstars components are designed to be part of a Fiberstars system. Their use with other components will affect their performance and therefore will not be warranted.

In the event of a defect in material or workmanship during the warranty period, Fiberstars will repair or replace (at its option) the Lighting System under the conditions of the Warranty. Fiberstars will do so at its expense for the materials but not for shipping. THIS REMEDY IS THE SOLE AND EXCLUSIVE REMEDY FOR ANY AND ALL CLAIMS RELATING TO ANY BREACH OF WARRANTY BY FIBERSTARS.

LIMITATIONS, EXCLUSIONS AND OTHER RIGHTS:

A. EXCEPT AS PROVIDED HEREIN, FIBERSTARS MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND ALL SUCH WARRANTIES ARE EXPRESSLY DISCLAIMED. SOME STATES DO NOT ALLOW THE EXCLUSION OF AN IMPLIED WARRANTY, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.

B. IN NO EVENT SHALL FIBERSTARS BE LIABLE FOR INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, EVEN IF FIBERSTARS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. THIS DISCLAIMER APPLIES DURING AND AFTER THE WARRANTY PERIOD. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

C. Fiberstars is not responsible for defects or malfunctions in and/or damage to Lighting Systems where a sale is specifically made without warranty. In such sales the disclaimers of warranty and liability, set forth above, shall continue to apply.

D. This warranty covers normal consumer use and does not cover damage which occurs in shipment or failure with results from alteration, accident, theft, misuse, abuse, abnormal use, negligent installation, improper maintenance or where adequate care has not been taken to prevent damage to the Lighting System.

E. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

If you discover a defect or malfunction during the period to which the Warranty applies, write or phone Fiberstars for information on receiving warranty service. See address below.

SALES REPRESENTATIVES

Territory	Name	Phone	Fax
B & P SALES			
President	Brad Pitts	(800) 542-6321 Ext. 15	(760) 929-0507
Corporate Office	Tim May	(800) 542-6321 Ext. 11	(760) 929-0507
	Vicki Pitts	(800) 542-6321 Ext. 14	(760) 929-0507
	Linda Posten	(800) 542-6321 Ext. 10	(760) 929-0507
	Angela O'Neill	(800) 542-6321 Ext. 12	(760) 929-0507
Southern CA	Mike Walker	(800) 542-6321 Ext. 28	(909) 783-1205
Metro Los Angeles	Dan Nickles	(800) 542-6321 Ext. 24	(909) 786-0681
Northern CA East	Forrest Chandler	(800) 542-6321 Ext. 31	(916) 415-0394
Northern CA West	Tim Moore	(800) 542-6321 Ext. 25	(510) 713-9622
TX, LA, AR	Cliff Davis	(800) 542-6321 Ext. 22	(972) 222-7353
Arizona, New Mexico	Tracy Thornburg	(800) 542-6321 Ext. 23	(623) 869-0064
Nevada, Utah	Dan Talmidge	(800) 542-6321 Ext. 33	
West TX, Ft. Worth, OK	Jeff Methner	(800) 542-6321 Ext. 27	(817) 491-8766
Houston, South LA	Tom Spikerman	(800) 542-6321 Ext. 29	(713) 271-0994
Southern IN, Southern OH, KY	Dave Sams	(800) 542-6321 Ext. 30	(317) 577-1292
Southern IL Western IA MO, NE KS CO	Mark Jokerst	(800) 542-6321 Ext. 32	(314) 646-0320
ND, SD, MN, WI Northern IL, East IA	Dan Bakotic	(800) 542-6321 Ext. 26	(815) 836-1003
BYRD MORETON			
President	Tim Moreton	(888) 976-9100	(606) 341-7133
General Manager	Brenda Brennan	(727) 595-5768	(727) 595-6684
Northeast FL, Melbourne Orlando, Daytona	Tim Sherry	(407) 380-2360	(407) 380-5311
Northern FL	Chris Crockett	(321) 433-3138	(321) 433-3138
Southwest FL Bradenton to Marco Island	Dave Jeroski	(727) 595-6663	(727) 595-6664
Southeast FL Miami to Vero Beach	Jean Haggerty	(954) 423-9746	(954) 236-8613
SENNE SALES			
AL, GA, MS, TN Pensacola, FL	Tod Senne	(770) 446-6990	(770) 446-6495
	Gary Thomas	(770) 446-6990	(770) 446-6495
	Teresa Hale	(770) 446-6990	(770) 446-6495
NC, SC	Jerry Kisgen	(704) 333-1329	(704) 333-1329
HYDROQUAL CORP.			
ME, NH, VT, MA, RI, CT, NY	Norm Cardinal	(315) 454-4543	(315) 454-3387
Long Island, NY	Audrey Green	(315) 454-4543	(315) 454-3387
NY, NJ, PA, DE, MD, VA, WV	Carl Bastedo	(315) 454-4543	(315) 454-3387
Canada			
LEISURE PRODUCTS MKTG			
Ontario	Ray Cloutier	(519) 621-6553	(519) 621-6553
Canada			
Quebec	Christian Patron	(450) 641-3514	(450) 641-3841

FREQUENTLY ASKED QUESTIONS

1) What does *fiber optic* mean?

Fiber optic is simply defined as the transmission of light through glass or polymer strands. To be more specific to our industry, fiber optic lighting is achieved by passing large amounts of light through polymer strands starting at a remotely located electric *illuminator*. Since only pure light energy is transmitted, there is no electricity and virtually no heat in the light.

2) Why use fiber optics?

Besides the obvious safety value of no electricity near water, a remote light source means we are able to utilize a rotating color wheel to add exciting color changes to the light. And because the illuminator is away from the pool and readily accessible, servicing becomes a breeze.

Energy savings is also a great benefit of fiber optics. We are able to use the light to illuminate multiple fixtures. Our newest illuminators, which use Metal-Halide technology, produce great amounts of brilliant light from only 150 watts! This is a huge improvement over under water electric lights which gobble up 300 to 500 watts of energy for an unimpressive yellowish tinted light. These old-fashioned electric lights are also hard to service, usually requiring a service technician or electrician to get wet to retrieve the unit.

3) What can be lit with fiber optics?

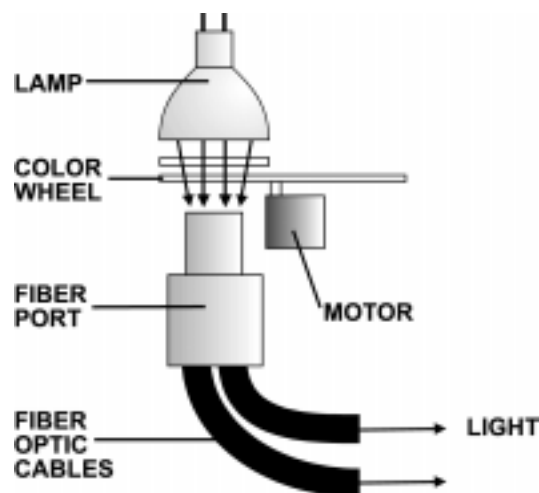
Virtually anything can be lit with fiber. We currently sell products to light the pool, spa, water features, wall features, deck features, landscape, and even perimeter strip lighting.

4) What is the difference between traditional electric pool lights and fiber optics?

Traditional electric lights, the large glass fixtures used in pools for decades, use an incandescent lamp. This lamp is similar to the screw-in flood light used in backyard lighting. This type of lamp has a yellowish tint, or in lighting terms, a "warm" color temperature. This is a good color temperature for, say, a patio. Swimming pools, however, should use a light with a "cooler" or whiter color. This helps enhance the bluish tints, the splashing water, and generally gives the appearance of more brightness.

Moreover, fiber optic lenses make the light more directional, allowing a more even lighting of the pool's interior. Different fixtures and fiber sizes also mean the lighting is more flexible and helps create a total backyard environment.

Combine all of these advantages with the fact that there is no electricity in the water, pleasing color changes, and easy serviceability, fiber optics truly is the lighting of tomorrow, available today!



COMMON MISCONCEPTIONS ABOUT FIBER OPTICS

MISCONCEPTION #1 - “It’s not bright enough”

Any lighting system must be properly designed, and that applies to fiber optic lighting systems as well. Our fiber optic pool lighting systems, when designed to our guidelines and installed properly, are indeed bright enough to light the pool safely and adequately. This Product Book offers design assistance, suggestions, and installation hints that will help insure that your lighting needs are met.

Other external factors, such as existing ambient lighting, street lights, patio lights, house-pool location relationship, and pool surface color must all be taken into consideration when design any lighting system; fiber optic or electric.

MISCONCEPTION #2 - “It’s too expensive”

When compared “apples to apples” (one white fiber optic light versus one electric light), fiber optic lighting may be slightly more costly than a traditional electric light. When you add a spa light and feature lighting, the cost is more comparable and sometimes, less than using electric lights.

The reputation that fiber optic lighting gets for being too expensive stems from the fact that some fiber optic lighting jobs contain multiple lights, perimeter lights, wireless remote control or other options that raise the cost. These are options not available when using electric lights.

MISCONCEPTION #3 - “It’s too complicated to design”

Simply not true. Fiber optic lighting is as simple or as complex as you want to make it. Just like the pool’s plumbing, fiber optics can be simple and straight forward, or full of options and features. Look at the design examples and fiber sizing chart in this Product Book for help. We also offer a fax-back service to help with the design, simply fax your plan to (510) 490-3247.

MISCONCEPTION #4 - “It’s too hard to install”

Fiberstars is always improving the installation of fiber optics. The advent of pre-cut fiber kits and user-friendly light boxes have cut installation times by 50% in the last few years. In addition, most Fiberstars fiber optic installation only require one hot knife cut. Perimeter fiber installations can literally be a “snap” with all of the latest deck forms, copings and tracks available in the market today.

As with any piece of equipment, we require the same care and NEC code compliance procedure. A standard fiber optic pool light installation takes no more time than a traditional electric light.

In short, keeping the fiber optic design simple, following our guidelines for design and installation, faxing us your plan if you need to, and keeping this Product Book handy will ensure that all of your fiber optic lighting jobs will be bright, cost effective and easy to install.

INSTALLATION HINTS:

HOW TO DESIGN YOUR PROJECT

1. Choose an Illuminator

Fiberstars makes it easy. We offer you the System 2000 Quartz-halogen illuminator , or the NEW Metal-Halide Lifetime Illuminator™ . Both are available with 4 and 8 position color wheels and remote control.

2. Choose a Fiber Kit For the Pool

The fiber sizes we recommend to light a pool are: B150, B225 or B300. See the examples in this book, or FAX a copy of your pool to us at (510)490-3247. Fiberstars' Manufacturer's Representatives can also help you with proper placement of your light kits. Either way, we will help you select the proper size fiber optics for your pool.

3. Choose a Fiber Kit For Spa , Wall Feature, or Water Feature Lighting.

Spa and supplemental light kits are available in 25, 50, 75, and 100 strands and in several lengths. Choose your kit based on brightness level desired and fiber run distance. Fiberstars also makes landscape lighting kits and flexible spot light kits to help you complete your fiber optic effect. See the examples in this book, or FAX us a plan of your pool for assistance.

Please read and follow the installation manuals included with the fiber optic illuminator before you begin.

Illuminator Placement

It is recommended to place the Illuminator at the end of the pool on the short wall at either the deep end or the shallow end. The Illuminator should be placed a minimum of 5 ft. and a maximum of 15 ft. from the main pool lens location. This will allow for maximum brightness and lowest cost.

For multiple light systems, Please consult with Fiberstars Customer Support Department or your local Fiberstars Sales Representative (page 3).

Illuminator Fiber Capacity

You can operate numerous lights from the Fiberstars system, but you must stay under 450 total fibers for the Lifetime Illuminator™, and 410 fibers for the System 2000™.

Listed below are the amounts of fiber in each light. You can mix and match these lights into one Illuminator system as long as you **do not exceed the maximum amount of fibers.**

Darker pool surfaces such as Pebble Tec™, gray plaster, Diamond Brite™ finishes or dark blue vinyl liners allow for much less light reflection than white plaster surfaces. More lights would be required to light this type of pool. Please fax in your plan to us for light placement and a list of materials. Specify type of surface being used.

<u>Type of Light</u>	<u>Part#</u>	<u>#Fibers</u>	<u>Color of tubing</u>
Ultra-Duty Fiber Glo™	B300	300	Brown tube
Heavy Duty Fiber Glo	B225 (FGF-HD)	225	Black tube (large)
Fiber Glo	B150 (FGF)	150	Red tube
Accessory Pool/Spa Light	B100	100	Black tube (medium-large)
Accessory Pool/Spa Light	B75 (BPF)	75	Black tube (medium)
Accessory Pool/Spa Light	B50	50	Black tube (medium-small)
Accessory/Spa Light	B25 (BSF)	25	Blue tube
Accessory Accent Light	B12 (BAF)	12	Brown tube
30 Strand Perimeter	FSSB/FSCA	60*	Clear frosted tube, flat back
42 Strand Cabled Flat	FSSB-CABL-42	84*	Clear frosted tube, flat back
42 Strand Cabled Round	FS-CABL-42	84*	Clear tube, round
Fiberstix™ Fiber	FSPT-3	3	Black tube (very small)

*Perimeter fiber has either 30 or 42 strands of fiber running through it, but both ends connect at the optical port so it counts as 60 or 84 fibers, respectively.

FIBER SIZING CHART

POOLS

Plaster Color	Pool Length					
	Up to 32'	Up to 34'	Up to 36'	Up to 38'	Up to 40'	Up to 42'
White	150	225	225	225	225	300
Light/Medium Color	225	225	225	300	2 x 225	2 x 225
Dark Color	225	225	300	2 x 225	2 x 225	2 x 300
Black (Use white light box ONLY!)	225	225	300	2 x 225	2 x 225	2 x 300

FIBER STRAND SIZE						
Pebble Finish Color						
Light/Medium Color	225	225	225	300	2 x 225	2 x 225
Dark Color	225	225	300	2 x 225	2 x 225	2 x 300
Black (Use white light box ONLY!)	225	225	300	2 x 225	2 x 225	2 x 300

FIBER STRAND SIZE						
Vinyl Liner Color						
Light/Med. Blue and Patterns	225	225	225	300	2 x 225	2 x 225
Dark Blue and Patterns	225	225	300	2 x 225	2 x 225	2 x 300
Black (Use white light box ONLY!)	225	225	300	2 x 225	2 x 225	2 x 300

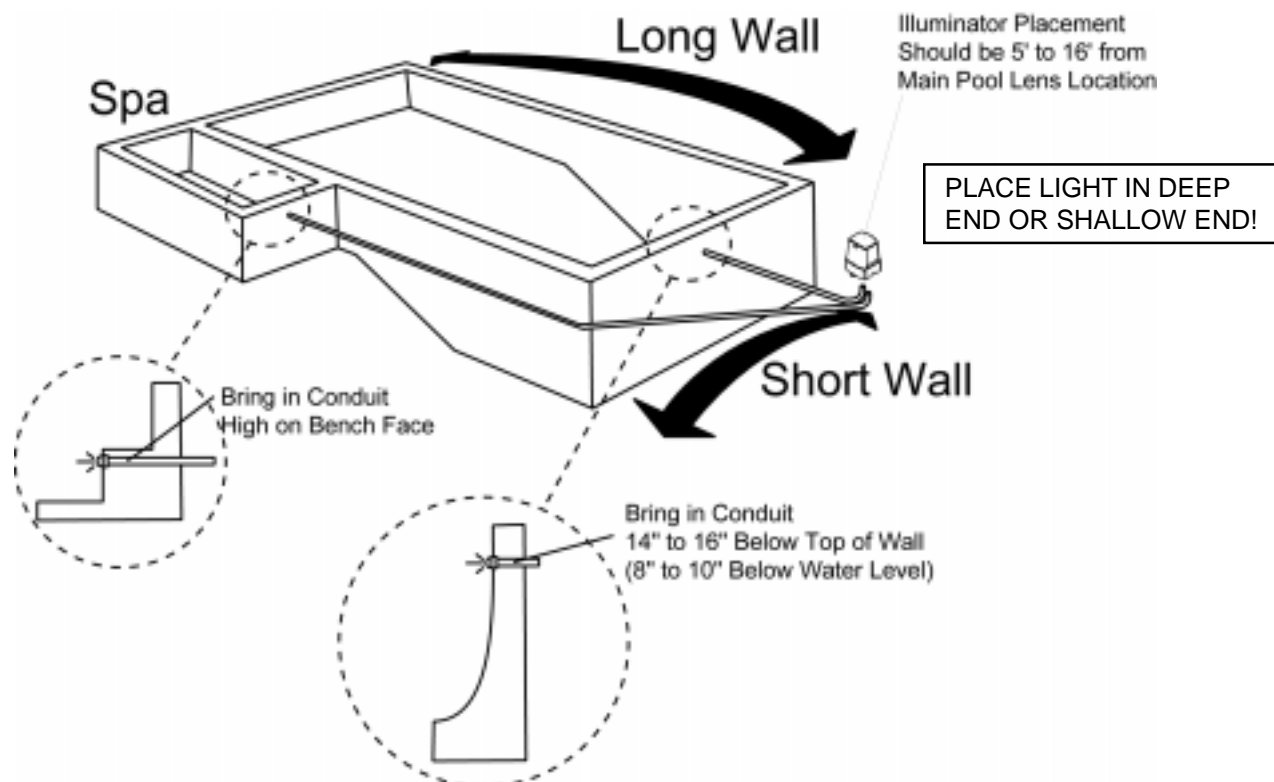
FIBER STRAND SIZE						
Fiberglass/Acrylic Color						
White/Light Blue	150	225	225	225	225	300
Medium Colors	225	225	300	300	2 x 225	2 x 225

SPAS

Spa Color	Spa Diameter		
	Up to 8'	Up to 10'	Up to 12'
White and Light Colors	25	50	75
Medium to Dark Colors	50	75	100
Black	75	100	100

REQUIRES 2 ILLUMINATORS
SEE EXAMPLES ON PAGE 9-10

PREFERRED LENS AND CONDUIT PLACEMENT



BUILDING A BACKYARD ENVIRONMENT

16 x 32 White Plaster Pool

Lighting:

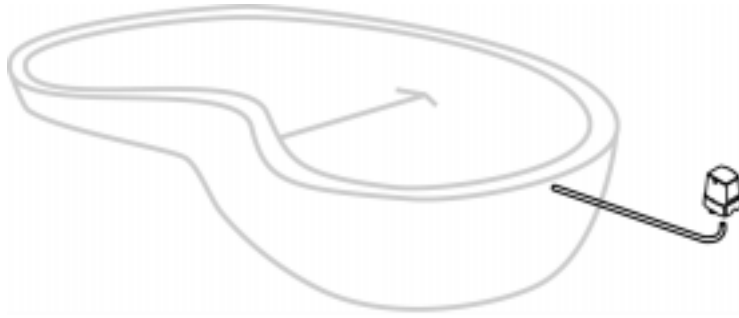
Fiber Optic Pool Light Only

Material:

- 1 Illuminator
- 1 Pool Fiber Kit
- 1 Lens Assembly

Benefit:

Safe, Colorful Underwater Lighting



Lighting:

Fiber Optic Pool Light

+ Perimeter Lighting

+ DeckStars™

Material:

- 1 Illuminator
- 1 Pool Fiber Kit
- 1 Lens Assembly
- 1 Perimeter Fiber Kit
- 2 DeckStars™ Fixtures
- 1 Fiberstix® Kit

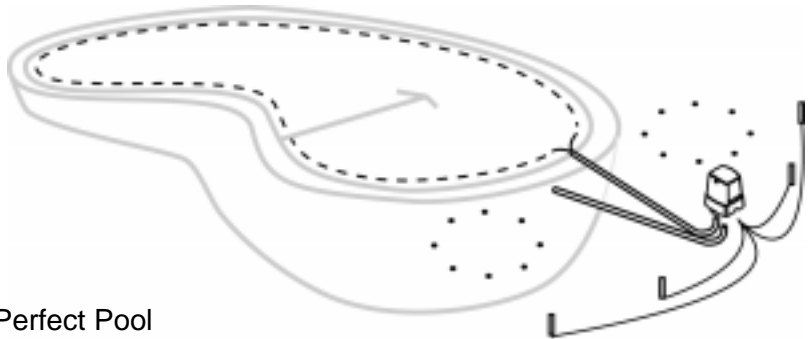
Benefit:

Safe, Colorful Underwater Lighting

plus Perimeter Fiber to Frame the Picture-Perfect Pool

plus DeckStars™ Accent Lighting for Safety and Visual Appeal

plus Easy to Use Landscape Accent Lighting



W/ Raised Bond Beam

Lighting:

Fiber Optic Pool Light

+ Perimeter Lighting

+ DeckStars™

+ Fiberstars® Falls Water Features

Material:

- 2 Illuminators
- 1 Pool Fiber Kit
- 1 Lens Assembly
- 1 Perimeter Fiber Kit
- 2 DeckStars™ Fixtures
- 2 Fiberstars® Falls

Benefit:

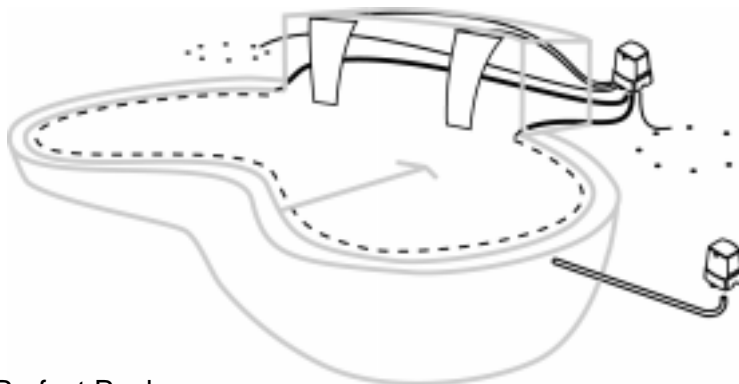
Safe, Colorful Underwater Lighting

plus Perimeter Fiber to Frame the Picture-Perfect Pool

plus DeckStars™ Accent Lighting for Safety and Visual Appeal

plus Beautiful Lighted Waterfalls

plus Contrasting Color Effects



Use two illuminators for contrasting colors in the features and the pool. Also allows consumer to turn off pool light while all features are lit in beautiful color!

Ask about our full-color Design Kit for an amazing consumer presentation!

BUILDING A BACKYARD ENVIRONMENT

20 x 40 Pebble-Finish Gunite Pool with Spa

Lighting:

Fiber Optic Pool Lights and Spa Light

Material:

2 Synchronized Illuminators

2 Pool Fiber Kits

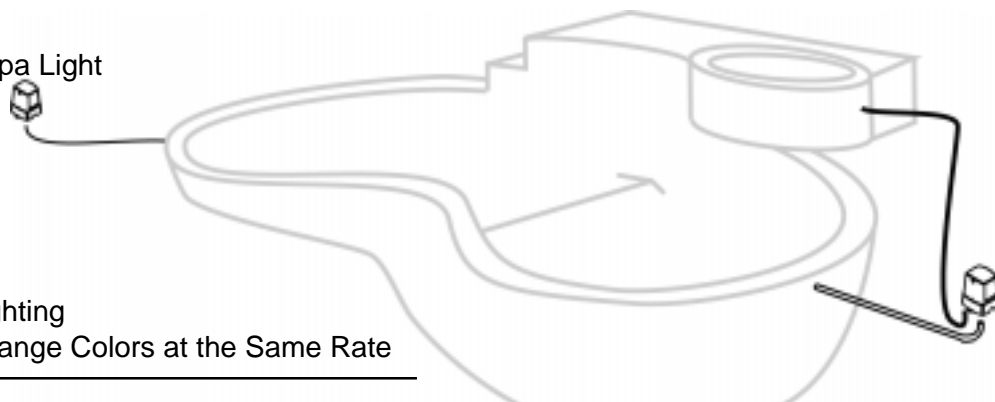
1 Spa Fiber Kit

3 Lens Assemblies

Benefit:

Safe, Colorful Underwater Lighting

Synchronized Illuminators Change Colors at the Same Rate



Lighting:

Fiber Optic Pool Lights and Spa Light

+ Fiberstars® Falls

+ DeckStars™

+ Rock Waterfall Lighting

Material:

2 Synchronized Illuminators

1 Feature Illuminator

2 Pool Fiber Kits

1 Spa Fiber Kit

2 Supplemental Light Kits

5 Lens Assemblies

1 DeckStars™ Fixture

1 Fiberstars® Falls

Benefit:

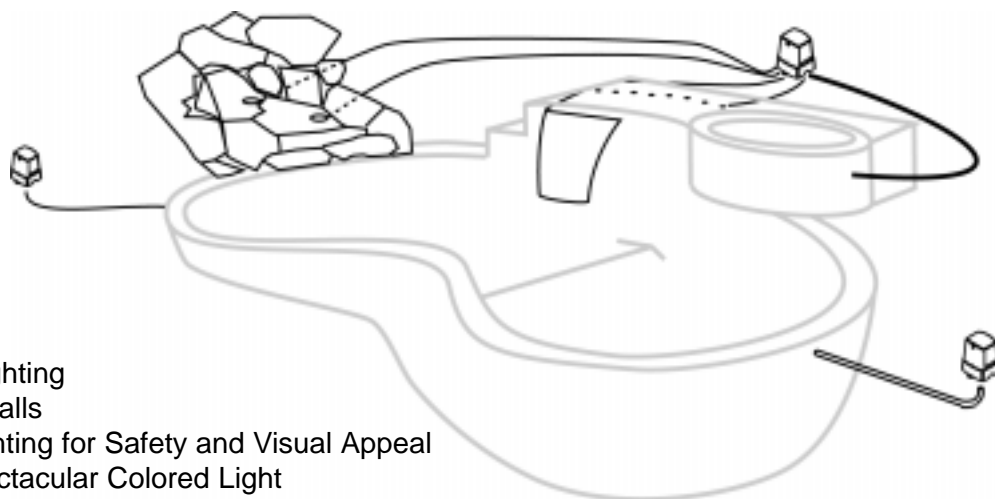
Safe, Colorful Underwater Lighting

plus Beautiful Lighted Waterfalls

plus DeckStars™ Accent Lighting for Safety and Visual Appeal

plus Rock Waterfall with Spectacular Colored Light

plus Contrasting Color Effects



Synchronized illuminators are only necessary when lighting one body of water with two or more illuminators. Use a separate illuminator for spa and feature lighting for a great color contrast effect!

Lighting:

Fiber Optic Spa Light

Fiberstars® Falls

DeckStars™

Rock Waterfall Lighting

Material:

1 Feature Illuminator

2 Supplemental Light Kits

3 Lens Assemblies

1 DeckStars™ Fixture

1 Fiberstars® Falls

1 Spa Fiber Kit

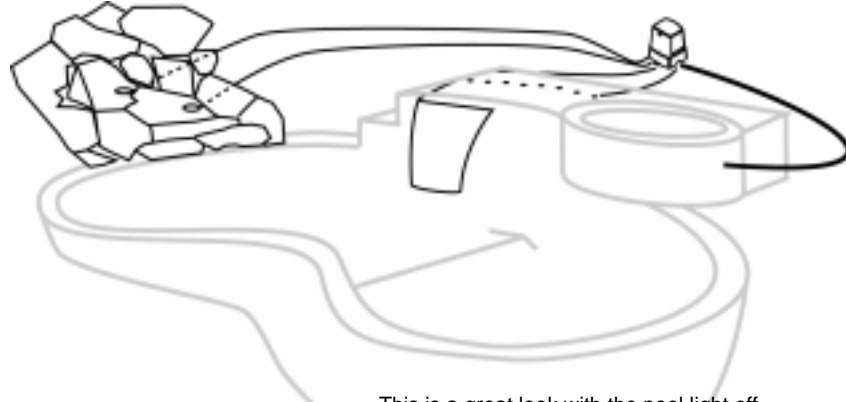
Benefit:

Safe, Colorful Feature Lighting

- Beautiful Lighted Waterfalls

- DeckStars™ Accent Lighting for Safety and Visual Appeal

- Rock Waterfall with Spectacular Colored Light



This is a great look with the pool light off. It is a great way to add the exciting color of fiber optics to just the features of an otherwise dark surfaced pool.

Ask about our full-color Design Kit for an amazing consumer presentation!

BUILDING A BACKYARD ENVIRONMENT

18 X 34 Vinyl Liner with L

Lighting:

Fiber Optic Pool Lights

Material:

1 Illuminator

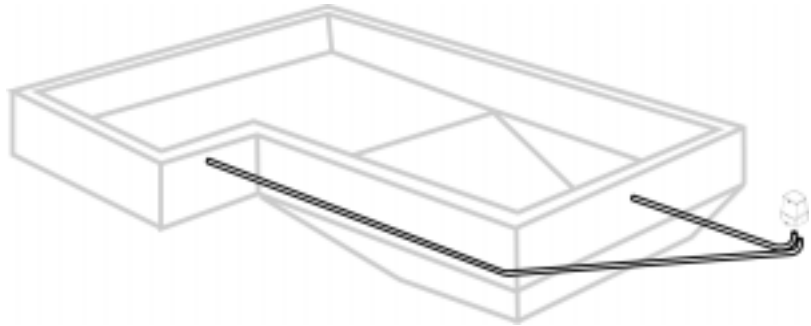
1 Pool Fiber Kit

1 Supplemental Fiber Kit

2 Lens Assemblies

Benefit:

Safe, Colorful Underwater Lighting



Lighting:

Fiber Optic Pool Lights

+ Perimeter Lighting

+ DeckStars™

Material:

1 Illuminator for Pool

1 Feature Illuminator

1 Pool Fiber Kit

1 Supplemental Fiber Kit

1 Perimeter Fiber kit

2 Lens Assemblies

2 DeckStars™ Fixtures

Benefit:

Safe, Colorful Underwater Lighting

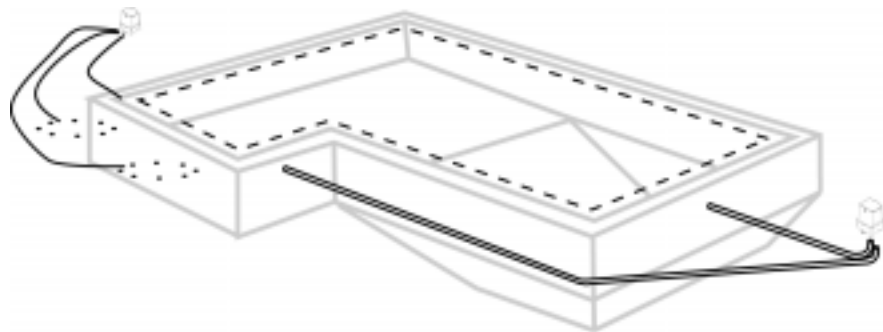
plus DeckStars™ Accent Lighting for Safety and Visual Appeal

plus Perimeter Fiber to frame a Picture-Perfect Pool

plus Contrasting Color Effects



Many vinyl liner pool manufacturers make a fiber optic-ready coping or track. This is an easy way to install perimeter fiber; it just snaps in!



Large 20 x 44 Vinyl Liner with L

Lighting:

Fiber Optic Pool Lights

+ Perimeter Lighting

Material:

2 Synchronized Illuminators

2 Pool Fiber Kits

2 Perimeter Fiber Kits

2 Lens Assemblies

Benefit:

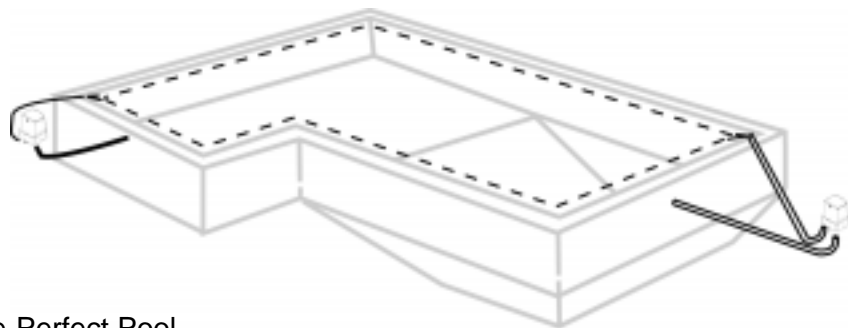
Safe, Colorful Underwater Lighting

plus Perimeter Fiber to frame a Picture-Perfect Pool

plus Synchronized Illuminators Change Color at the Same Rate



Fiberstars offers a FAX-back service for all pool builders to make sure you have the brightest pool at the lowest cost. Try it today by faxing your plan to (510) 490-3247.

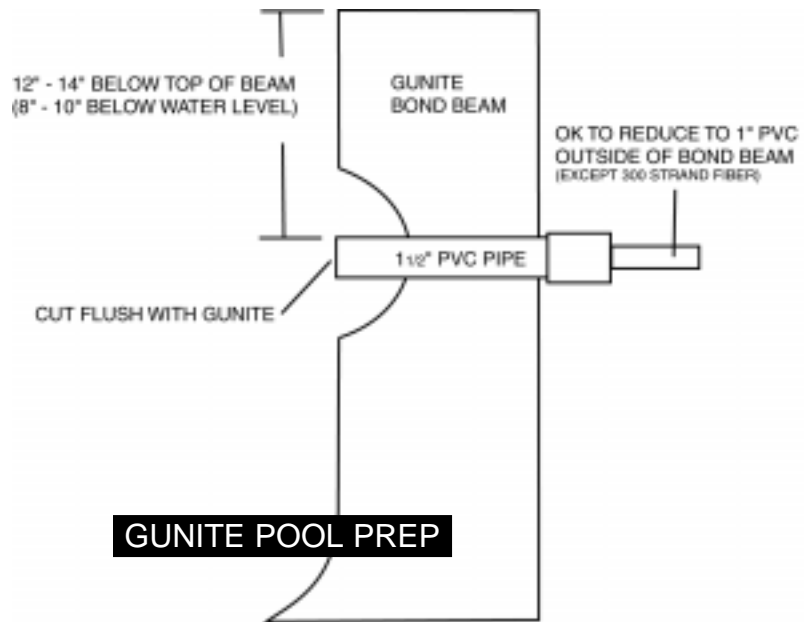


Ask about our full-color Design Kit for an amazing consumer presentation!

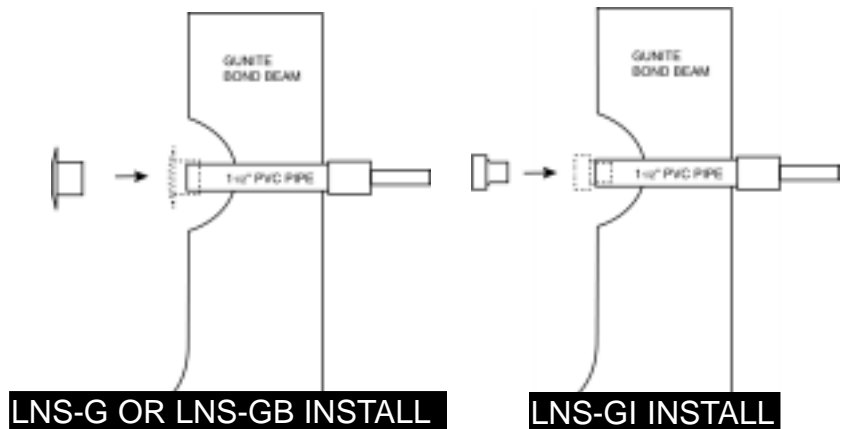
LENS HOUSING PREP GUNITE POOLS

**For: LNS-G (white)
LNS-GB (black)
LNS-GI (insider)**

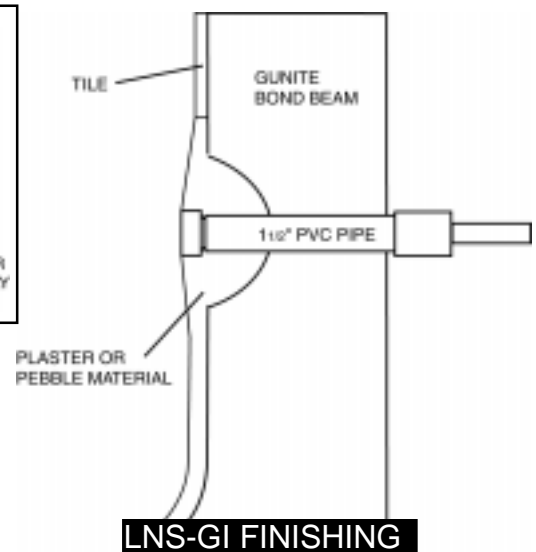
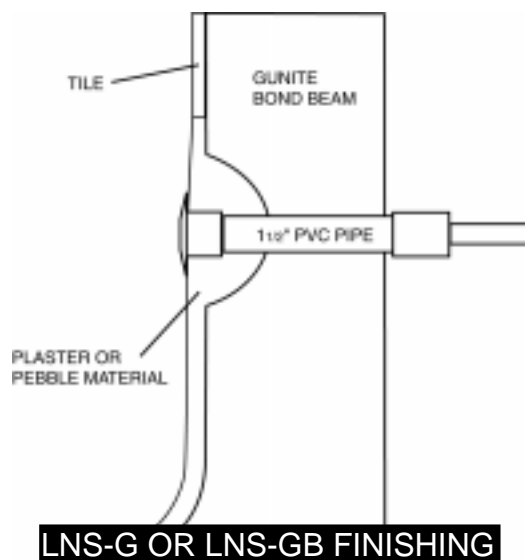
1) BEFORE GUNITE: Run PVC conduit from illuminator location to lens locations as demonstrated on page 7. Pool light conduits should enter the pool shell 12" to 14" inches below the top of the bond beam as shown at right (For gunite spa lights, see next page). Shoot gunite and scoop out around the ends of the conduit.



2) AFTER GUNITE, BEFORE PLASTER: Cut the conduit flush with the gunite wall as shown. Follow the instruction manual for the lens assembly and glue it on to the end of the conduit.



3) Plaster or apply pebble surface and trowel the material flush with the lens assembly as shown. It is acceptable if the plaster or pebble material rises slightly to meet the lens housing as shown. **DO NOT CREATE A CONCAVE "BOWL"**, it will create a shadow on the bottom of the pool.

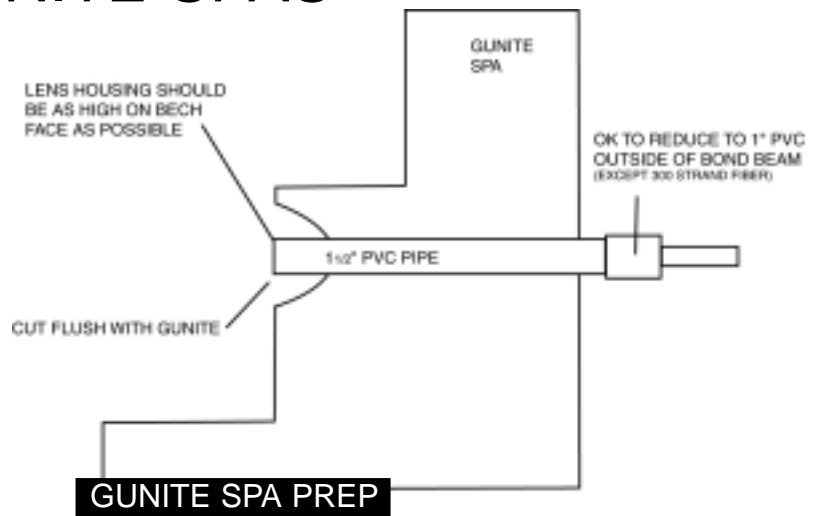


LENS HOUSING PREP

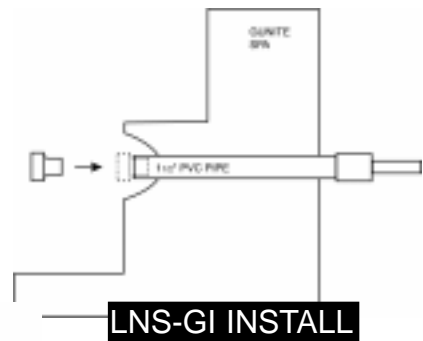
GUNITE SPAS

For: **LNS-G (white)**
LNS-GB (black)
LNS-GI (insider)

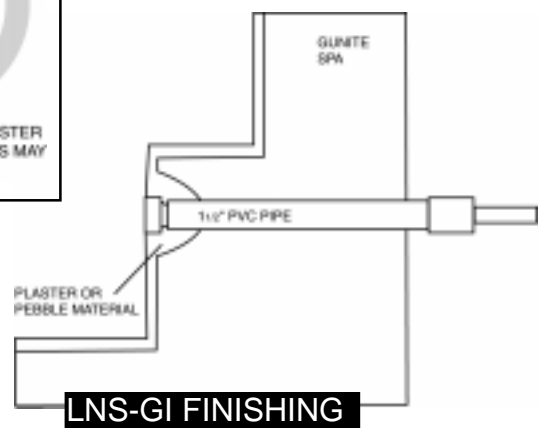
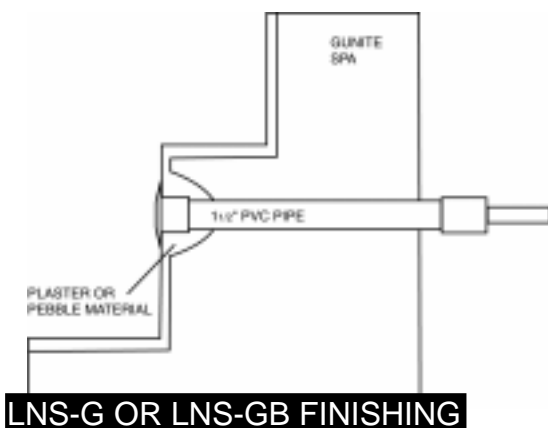
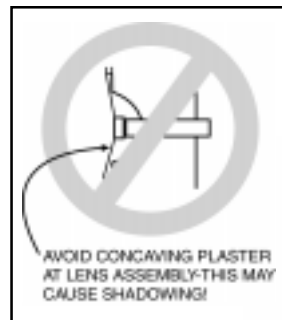
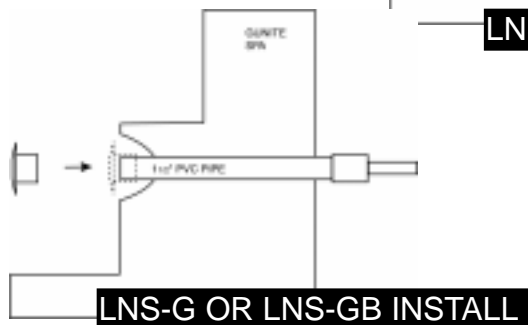
1) BEFORE GUNITE: Run PVC conduit from illuminator location to lens locations as demonstrated on page 7. Spa light conduits should enter the spa shell high on the bench face as shown at right. Shoot gunite and scoop out around the ends of the conduit.



2) AFTER GUNITE, BEFORE PLASTER: Cut the conduit flush with the gunite wall as shown. Follow the instruction manual for the lens assembly and glue it on to the end of the conduit.



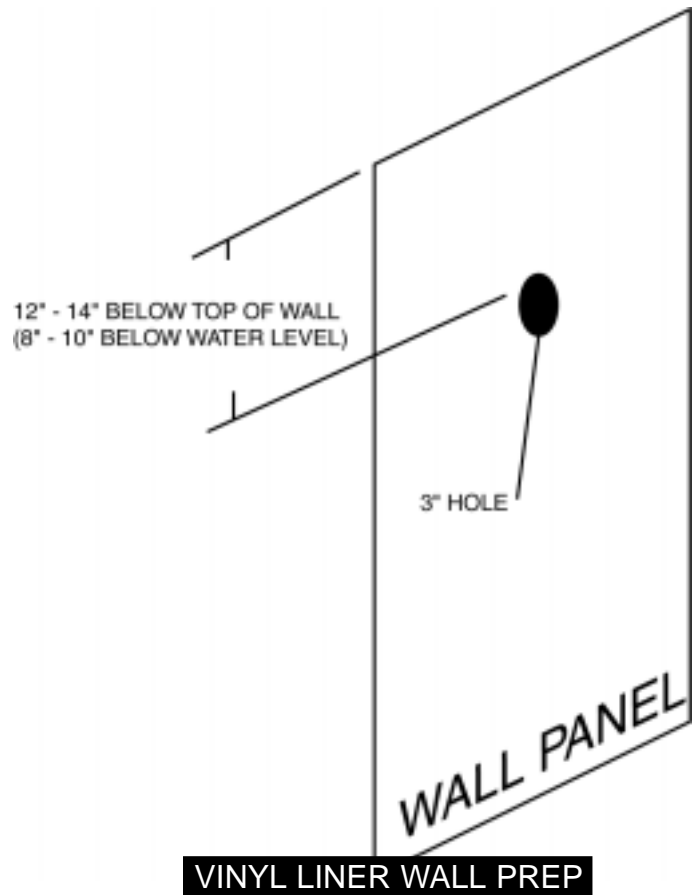
3) Plaster or apply pebble surface and trowel the material flush with the lens assembly as shown. It is acceptable if the plaster or pebble material rises slightly to meet the lens housing as shown. DO NOT CREATE A CONCAVE "BOWL", it will create a shadow on the bottom of the spa.



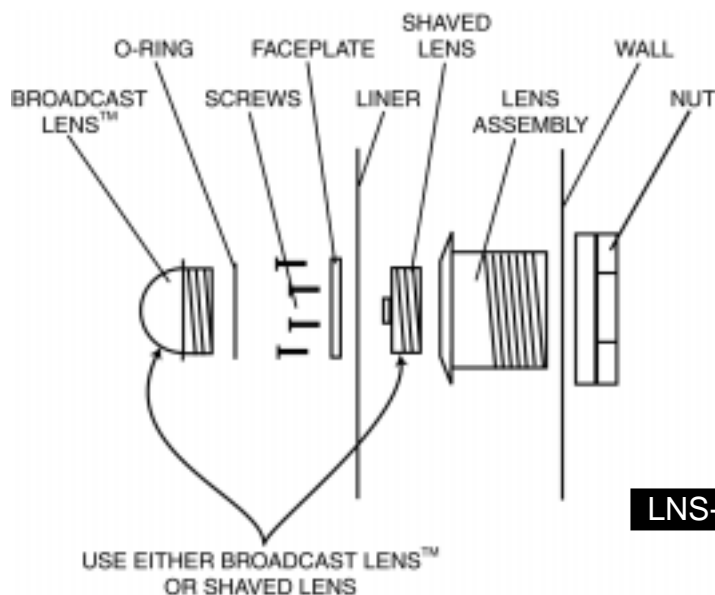
LENS HOUSING PREP VINYL LINER POOLS

For: LNS-V

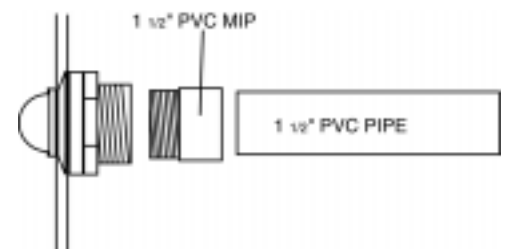
- 1) Following the placement guidelines on page 7, locate the wall panel where the lens assembly will be placed. Drill a 3" hole 12" to 14" down from the top of the wall.
- 2) Install the lens housing as described in the LNS-V instruction manual. Attach a 1 1/2" PVC Male adapter (MIP) to the lens housing. Run 1 1/2" PVC back to the illuminator location (you may reduce to 1" PVC for all fiber sizes except 300).
- 3) To install lens and fiber **BEFORE LINER** installation; feed the fiber kit through the lens housing and pipe as shown in the LNS-V manual. Thread in the shaved lens and proceed with the liner installation.
- 4) To install lens and fiber **AFTER LINER** installation; Place the liner in the pool and begin filling. When the water is a few inches below the lens housing, attach the face plate with the screws. Cut out the liner in the center of the faceplate and run the fiber through. Finish by threading in the Broadcast Lens™ and tighten securely. Proceed with filling the pool.



VINYL LINER WALL PREP



LNS-V LENS ASSEMBLY



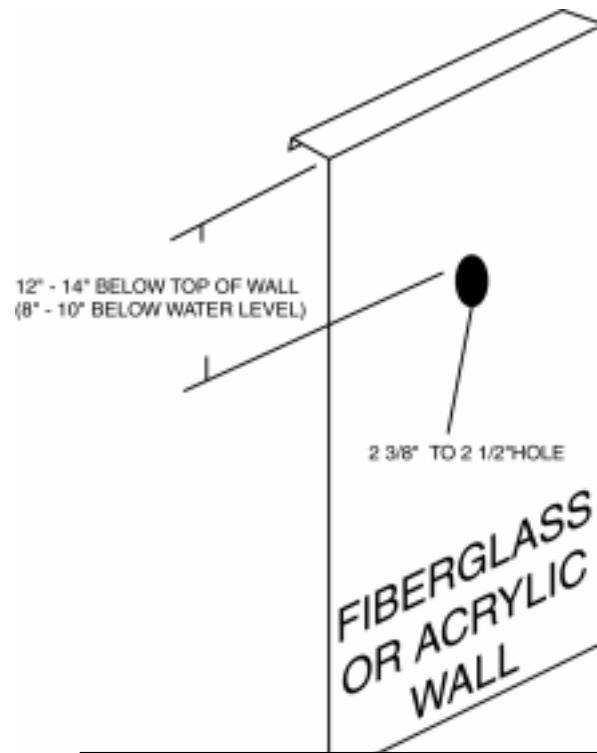
LENS HOUSING PREP

FIBERGLASS OR ACRYLIC POOLS

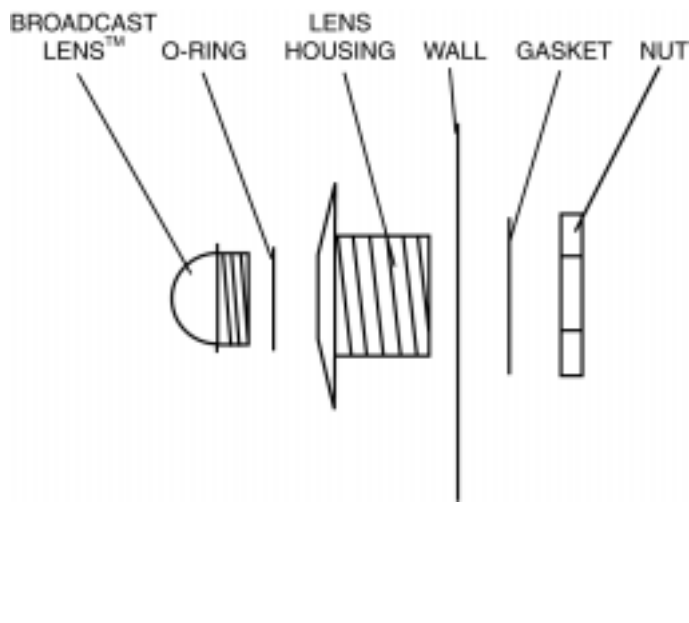
For: LNS-A

1) Following the placement guidelines on page 7, locate the wall panel where the lens assembly will be placed. Drill a 2 3/8" TO 2 1/2" hole 12" to 14" down from the top of the wall.

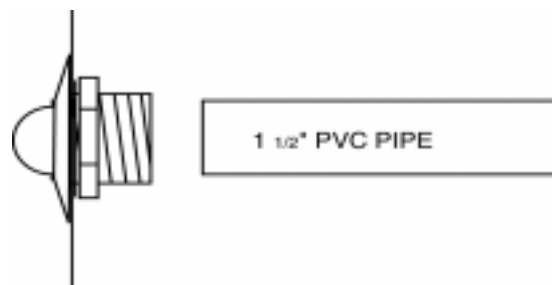
2) Install the lens housing as described in the LNS-A instruction manual. Glue 1 1/2" PVC pipe into the back of the housing. Run the pipe back to the illuminator location. (You may reduce to 1" PVC for all fiber sizes except 300. Use at least 6" of pipe before reducing to 1").



FIBERGLASS/ACRYLIC WALL PREP



LNS-A LENS ASSEMBLY

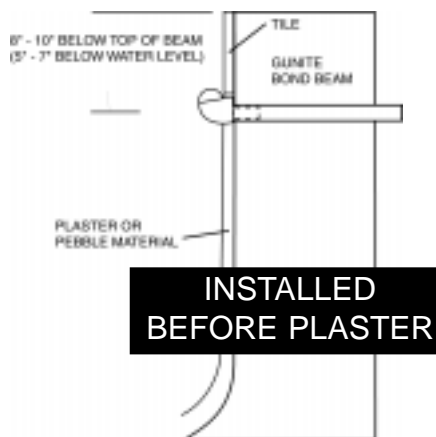


FEATURE LIGHT PREP

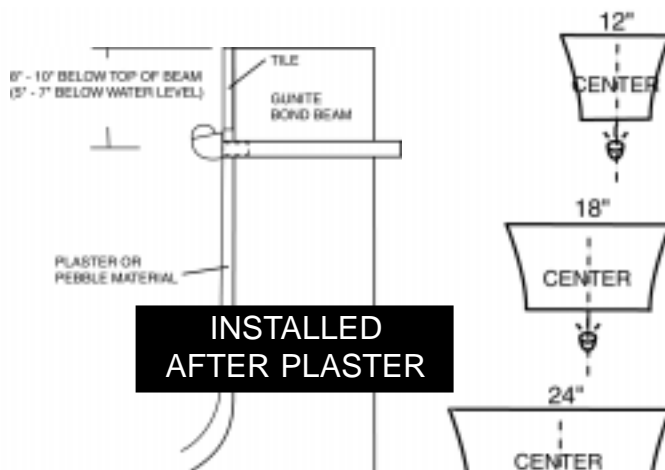
INSTALLATION HINTS

For: FLW (white) for gunite
FLG (grey) for gunite

1) **TO INSTALL BEFORE PLASTER:** Run 1" PVC SCH 40 to the Feature Light location so the pipe will be 5"-7" below water level. The pipe should be **DIRECTLY** under the water feature it is lighting. See illustration at right for locations under sheer-type waterfalls. Gunite the pool as normal, then cut the 1" pipe flush with the gunite. Install the Feature Light according to the instructions included with it. Plaster the pool and trowel the plaster around the Feature Light, leaving room for removal of the lens.

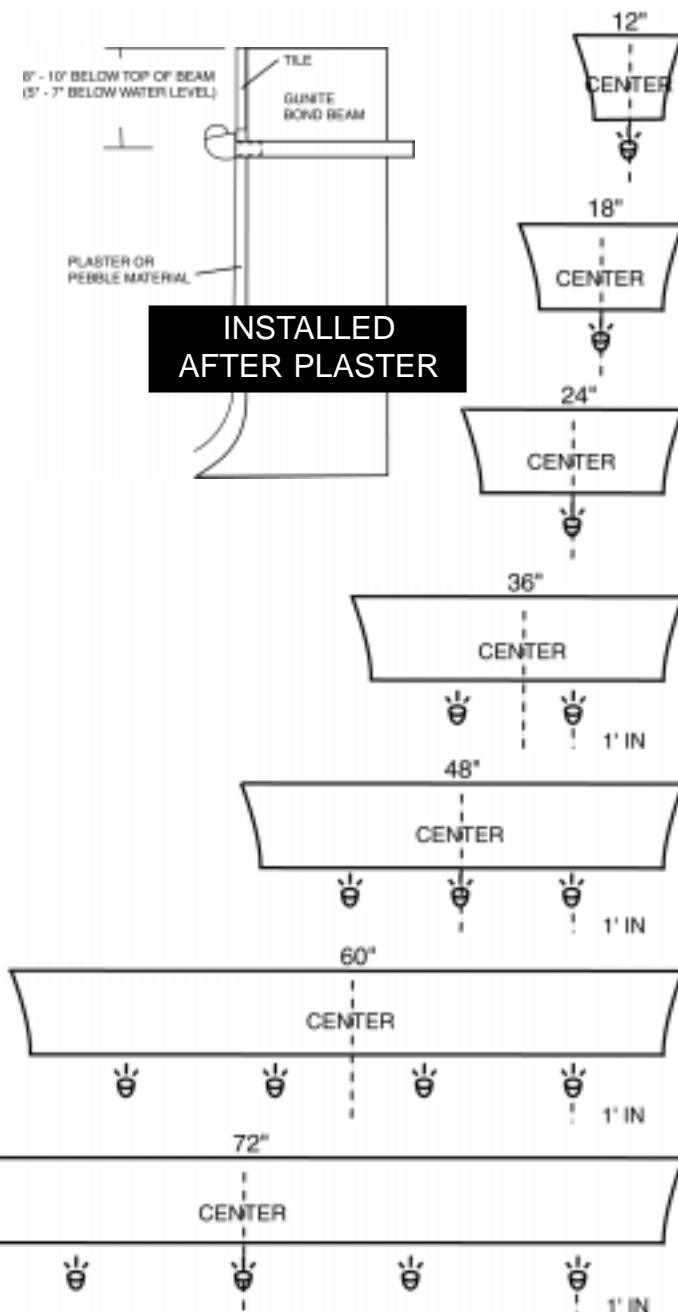


2) **TO INSTALL AFTER PLASTER:** Run 1" PVC SCH 40 to the Feature Light location so the pipe will be 5"-7" below water level. The pipe should be **DIRECTLY** under the water feature it is lighting. See illustration at right for locations under sheer-type waterfalls. Gunite the pool as normal, leaving the pipe extended into the pool a few inches. Plaster the pool, cut the pipe flush with the plaster, and trowel around it smoothly. Install the Feature Light according to the instructions included with it.



For: FLW-V (white) for vinyl liners

1) Install the LNS-V housing included with the Feature Light so it is 5"-7" below water level (8"-10" below top of wall). The Feature Light should be directly under the water feature. See illustration at right for locations under sheer-type waterfalls.



For: FLW-A (white) for fiberglass/acrylic

1) Install the LNS-A housing included with the Feature Light so it is 5"-7" below water level (8"-10" below top of wall). The Feature Light should be directly under the water feature. See illustration at right for locations under sheer-type waterfalls.

INSTALLATION HINTS

FOR FiberDisk™ AND FiberSconce™

FiberDisk™

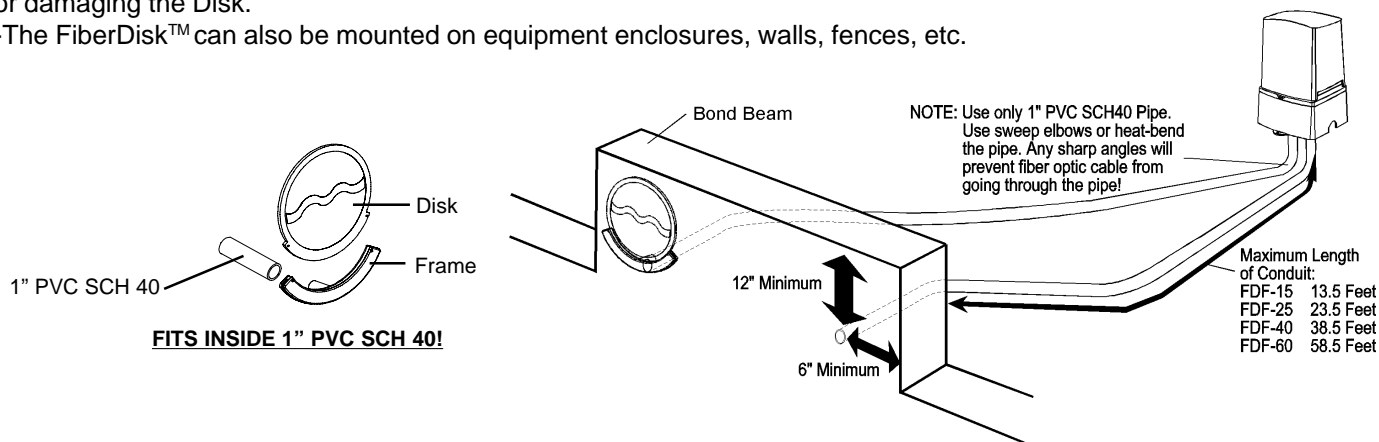
HOW TO PREPARE THE PIPE

1" SCH 40 PVC should be the only pipe type used for the FiberDisk™. The stub that is on the back of the FiberDisk™ will only fit inside 1" SCH 40. Make sure any bends in the pipe are done with sweep-type fittings or gently heat-bend the pipe. DO NOT use 90° fittings or 45°s.

The pipe should be placed before gunite in the position shown below. If two FiberDisk™ fixtures are to be used opposed to each other, take care to make the pipe ends level with each other. After gunite, any tile or bond beam facing should be done first around the end of the pipe. Then cut the pipe flush with the wall and install the FiberDisk™ per the included instructions.

SUGGESTIONS

- Make sure that the FiberDisk™ fixtures are installed on a flat surface.
- Install the FiberDisk™ frame first. Wait until the pool is complete before installing the Disk portion to avoid scratching or damaging the Disk.
- The FiberDisk™ can also be mounted on equipment enclosures, walls, fences, etc.



FiberSconce™

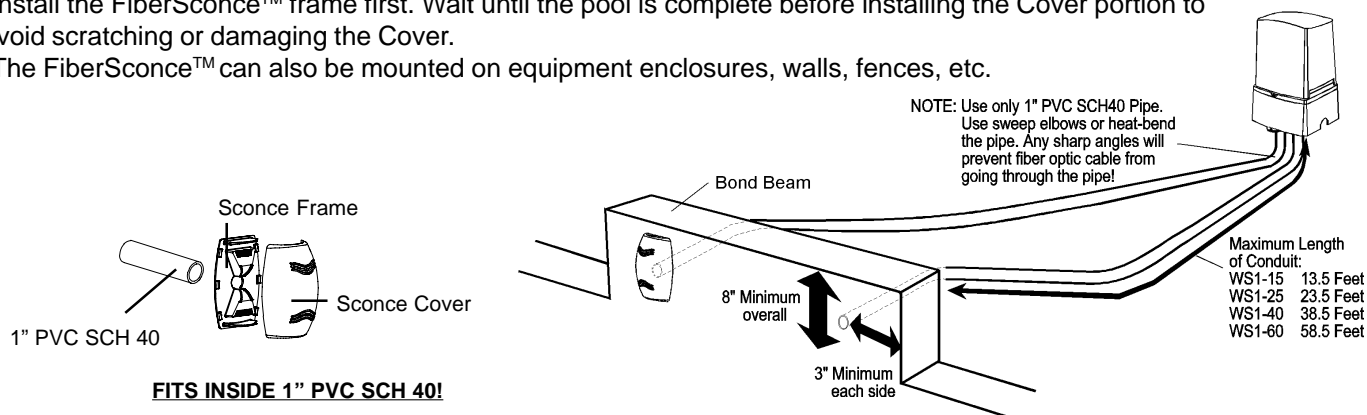
HOW TO PREPARE THE PIPE

1" SCH 40 PVC should be the only pipe type used for the FiberSconce™. The stub that is on the back of the FiberSconce™ will only fit inside 1" SCH 40. Make sure any bends in the pipe are done with sweep-type fittings or gently heat-bend the pipe. DO NOT use 90° fittings or 45°s.

The pipe should be placed before gunite in the position shown below. If two FiberSconce™ fixtures are to be used opposed to each other, take care to make the pipe ends level with each other. After gunite, any tile or bond beam facing should be done first around the end of the pipe. Then cut the pipe flush with the wall and install the FiberSconce™ per the included instructions.

SUGGESTIONS

- Make sure that the FiberSconce™ fixtures are installed on a flat surface.
- Install the FiberSconce™ frame first. Wait until the pool is complete before installing the Cover portion to avoid scratching or damaging the Cover.
- The FiberSconce™ can also be mounted on equipment enclosures, walls, fences, etc.



INSTALLATION HINTS FOR ROCK WATERFALLS

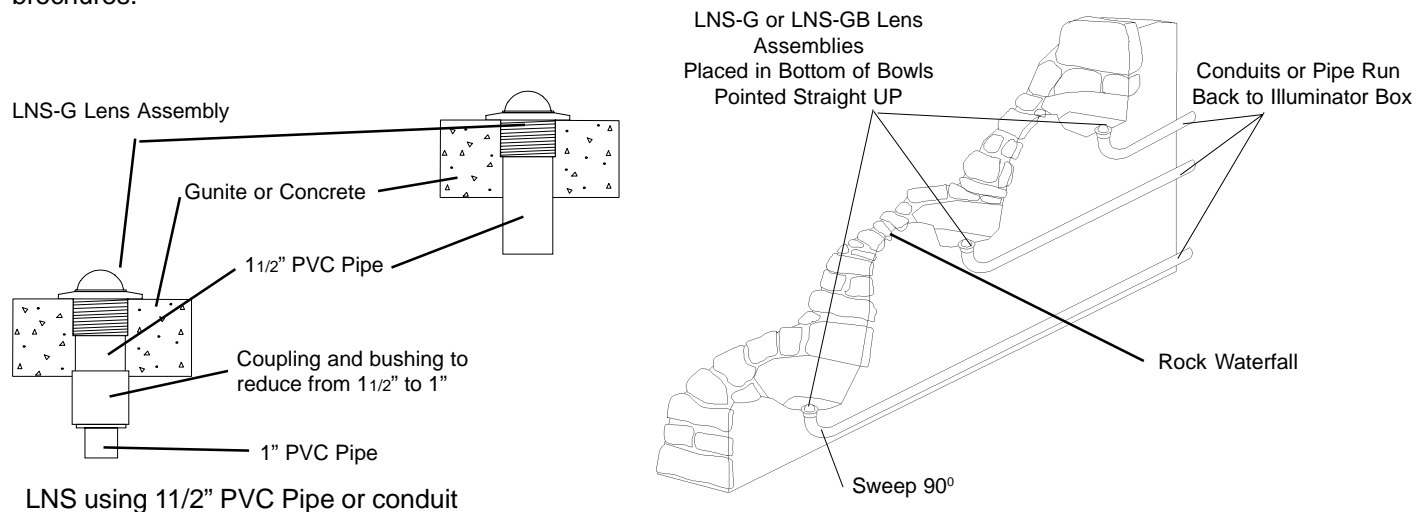
BOWL LIGHTING METHOD

HOW TO DO IT

This method must be done during the construction of the waterfall. Using standard LNS-G and LNS-GB Lens assemblies, you can light any "bowls" of water in the waterfall. These bowls should have at least 4" of water depth. The Lens assemblies should be placed facing straight UP and glued onto 1 1/2" PVC pipe or conduit. The 1 1/2" pipe can be then reduced to 1", if desired (see illustration). **DO NOT GLUE A REDUCER BUSHING DIRECTLY INTO THE LNS-G OR LNS-GB FITTING!** Always use sweep 90° fittings to allow the fiber to be installed easily. 25 or 50 strand fiber is used typically, with 75 or 100 strands as a brighter option.

WHAT IT DOES

This method will make the bowls of water glow with color. It is a spectacular effect, and is featured in many of our brochures.



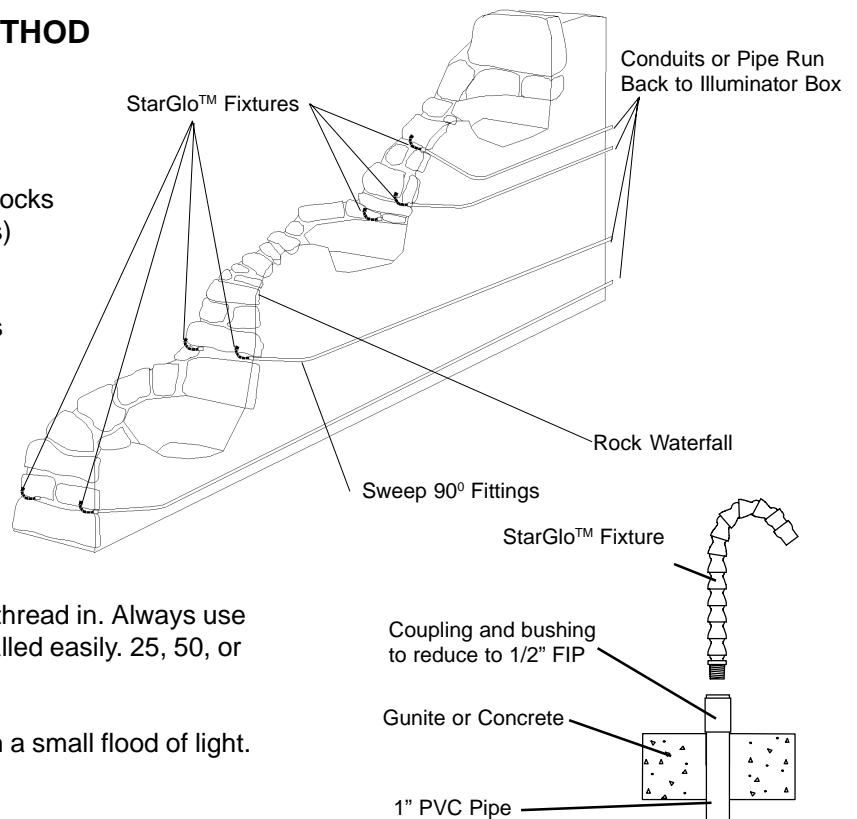
CASCADING WATER LIGHTING METHOD

HOW TO DO IT

This method should be done during the construction of the waterfall, but can be done afterwards by hiding the pipe or conduit with rocks and concrete. Using StarGlo™ fixtures (or kits) you can light areas of cascading water in the waterfall. The StarGlo™ fixtures should be placed above water level and pointed towards areas where the most water action will occur. This will typically be at the bottom of a waterfall with the StarGlo™ pointed back towards the cascading water. **Do NOT place the StarGlo™ submerged under water! It is NOT a watertight fitting!** Use 1" PVC pipe or conduit from the illuminator to each StarGlo™ location, then reduce to 1/2" FIP to allow the fixture to thread in. Always use sweep 90° fittings to allow the fiber to be installed easily. 25, 50, or 75 strands of fiber may be used.

WHAT IT DOES

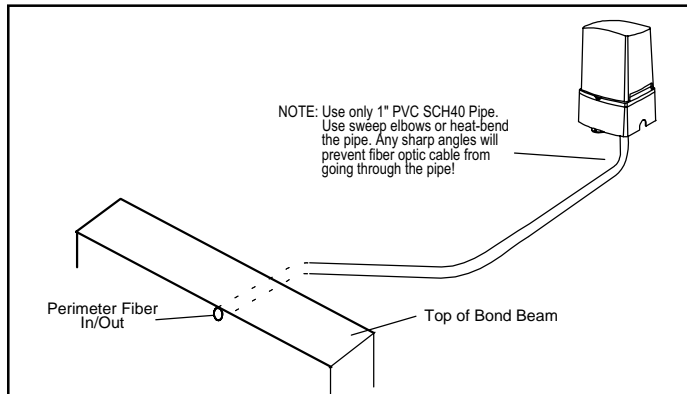
This method will light the splashing water with a small flood of light.



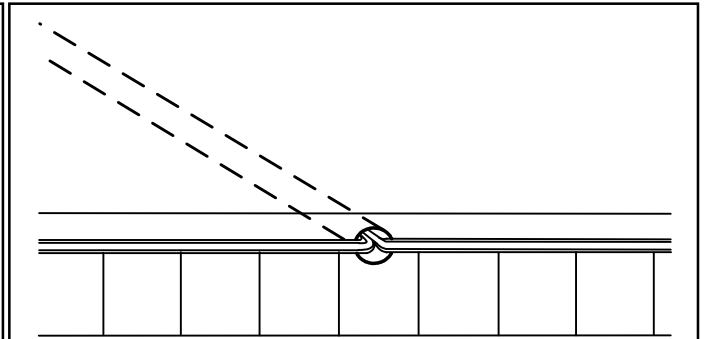
EASY-INSTALL TRACKS FOR PERIMETER FIBER

Supplier	Application	Part Number	Perimeter Fiber	Description
Fiberstars	Gunitite, Tile	TRK-OVW	FSSB, FSEO, FS-CABL-42	White, flexible track
	Gunitite, Tile	TRK-OVC	FSSB, FSEO, FS-CABL-42	Clear, flexible track.
	Gunitite, Tile w/ Brick, Stone or Coping	TRK-BBW	FSSB, FSEO, FS-CABL-42	White, flexible track for use on top of bond beam, brick or coping mud locks it in.
	Vinyl Liner	TRK-VLW	FSSB, FSEO, FS-CABL-42	White, flexible track that inserts into most vinyl liner bead receivers
Stegmeier	Gunitite, Cantilever Deck	7FS112	FSSB, FSEO, FS-CABL-42	Capstone profile deck form, pre-formed corners available
	Gunitite, Cantilever Deck	77SV112	FS-CABL-42	Capstone profile deck form, pre-formed corners available
	Gunitite, Cantilever Deck	17FS112	FSSB, FSEO, FS-CABL-42	Regular profile deck form, pre-formed corners available.
	Gunitite, Cantilever Deck	17SV112	FS-CABL-42	Regular profile deck form, pre-formed corners available.
	Vinyl Liner, Cantilever Deck	8CF112	FSSB, FSEO, FS-CABL-42	Capstone profile deck form, pre-formed corners available
	Vinyl Liner, Cantilever Deck	8CF152	FS-CABL-42	Capstone profile deck form, pre-formed corners available
	Vinyl Liner, Cantilever Deck	18CF112	FSSB, FSEO, FS-CABL-42	Regular profile deck form, pre-formed corners available.
	Vinyl Liner, Cantilever Deck	18CF152	FS-CABL-42	Regular profile deck form, pre-formed corners available.
	Gunitite, Coping and Tile	3FOR2	FSSB, FSEO, FS-CABL-42	Attaches to top of tile with supplied adhesive, brick or coping mud locks it in.
	Gunitite, Coping and Tile	3FOR6	FS-CABL-42	Attaches to top of tile with supplied adhesive, brick or coping mud locks it in.
	Gunitite Renovation	7REN4F	FSSB, FSEO, FS-CABL-42	Requires a 1/8" wide x 5/8" deep saw cut.
	Gunitite Renovation	7REN6S	FS-CABL-42	Requires a 1/8" wide x 5/8" deep saw cut.
Mortex	Gunitite, New or Renovation	TAC-IT	FSSB, FSEO, FS-CABL-42	Unique clip system that attaches to cove strip
	Vinyl Liner Top Mount	Flat	FSSB, FSEO, FS-CABL-42	Liner track with integral perimeter track.
	Vinyl Liner Top Mount	Round	FS-CABL-42	Liner track with integral perimeter track.
Ft. Wayne	Vinyl Liner	EdgeLite	Ft. Wayne Round Fiber	Proprietary coping and fiber system.
Cinderella	Vinyl Liner	CP-7	All	Vinyl liner coping with integral track.
	Vinyl Liner	HM-7	All	Liner track with integral perimeter track.
	Vinyl Liner	VM-7	All	Extrusion mounts on any vertical surface
Cardinal Systems	Vinyl Liner	Coping	FSCA	Vinyl liner coping with integral track.
Arbor Aluminum	Vinyl Liner	Coping	FSCA	Vinyl liner coping with integral track.
Pacific Pools	Vinyl Liner	Coping	FSCA	Vinyl liner coping with integral track.
Esther Williams	Vinyl Liner	Coping	FSSB, FSEO, FS-CABL-42	Vinyl liner coping with integral track.
Fox	Vinyl Liner	Coping	FSSB, FSEO, FS-CABL-42	Vinyl liner coping with integral track.
Kalko	Vinyl Liner	Coping	FSSB, FSEO, FS-CABL-42	Vinyl liner coping with integral track.
Modern Pool Systems	Vinyl Liner	Coping	All	Vinyl liner tracks with integral track.
Pleasure Way	Vinyl Liner	Coping	FSSB, FSEO, FS-CABL-42	Vinyl liner coping with integral track.
Technican-Pacific	Vinyl Liner	Coping	FSSB, FSEO, FS-CABL-42	Vinyl liner coping with integral track.
Imperial Pools	Vinyl Liner	Coping	FSSB, FSEO, FS-CABL-42	Vinyl liner coping with integral track.
Sentry Pools	Vinyl Liner	Coping	FSSB, FSEO, FS-CABL-42	Vinyl liner coping with integral track.
Quaker Plastics	Vinyl Liner	Coping	FSSB, FSEO, FS-CABL-42	Vinyl liner coping with integral track.

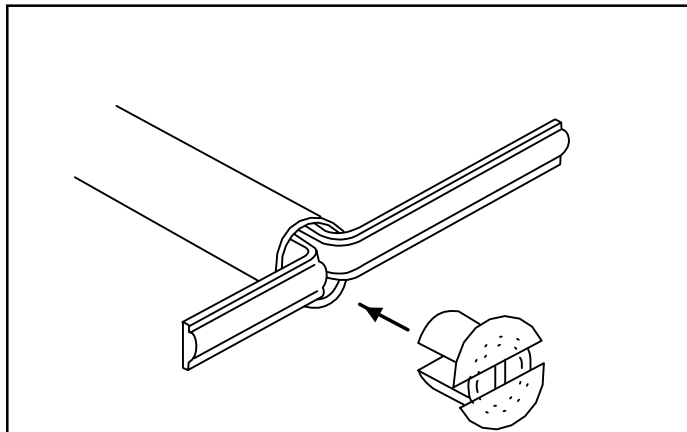
INSTALLATION HINTS FOR PERIMETER FIBER



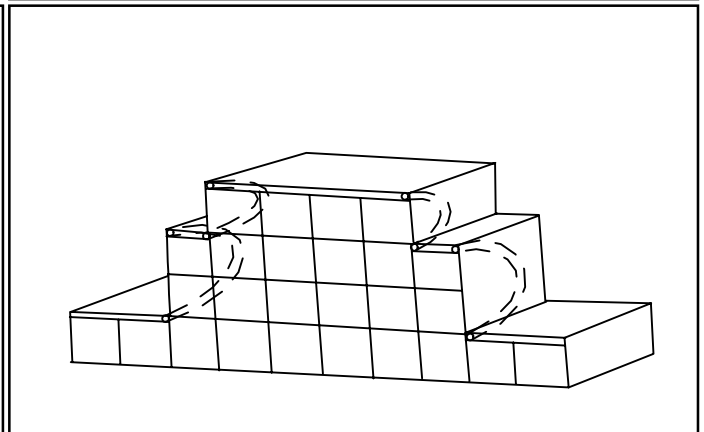
The basic concept behind perimeter lighting is to run the fiber from the illuminator; around the pool, spa, or other application; then back to the illuminator. This allows the fiber to be lit from both ends for maximum brightness.



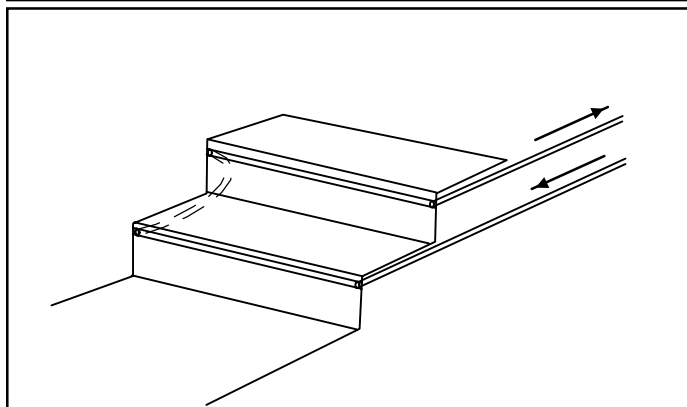
1" PVC Conduit should be run to the pool wall at the same level the fiber is to be located. The fiber can go to and from the illuminator in this same conduit.



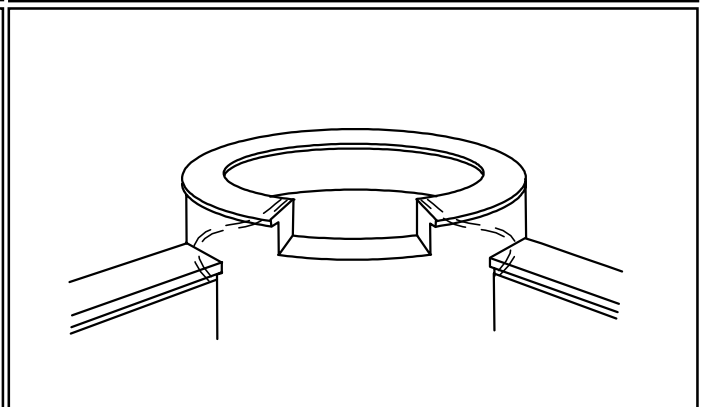
Fiberstars' FS-120 wall fitting slides into 1" PVC after the fiber is run through it, to give the entry point a finished look.



1" flexible PVC conduit may also be used to transition the fiber through elevation changes, as shown here for a raised bond beam...

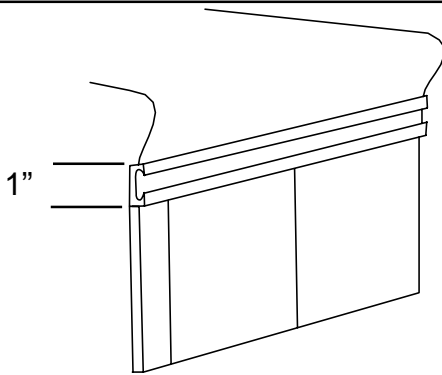


...or for step transitions...

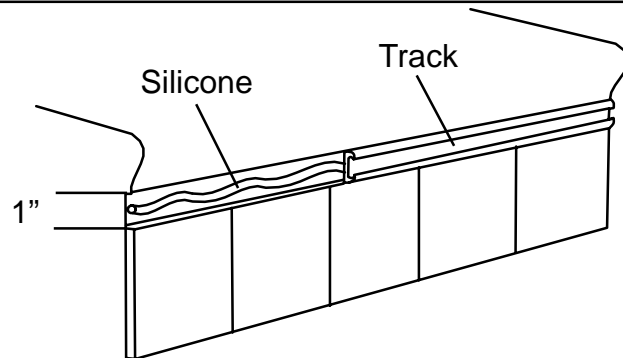


...or for raised spas.

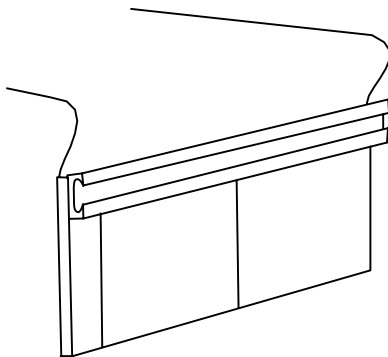
INSTALLATION HINTS FOR PERIMETER FIBER



Preparation is the key to a successful Fiberstars perimeter lighting installation. This shows one method where the tile is installed 1" lower than normal, allowing for TRK-OVW(white) or TRK-OVC(clear) track to be flush with the tile. The fiber is then snapped into the track.

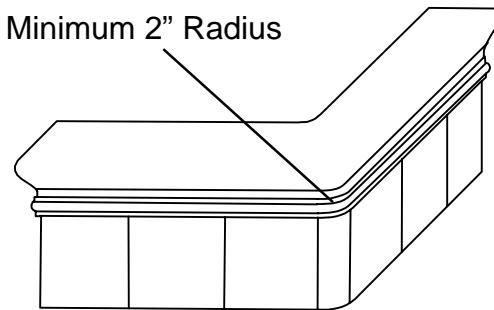


When installing TRK-OVW or TRK-OVC in a recess or when dropping the tile 1", put a bead of FS-136 silicone at the bottom of the recess and put the track in place. Finish the installation by running a bead of silicone on the top and bottom of the track.

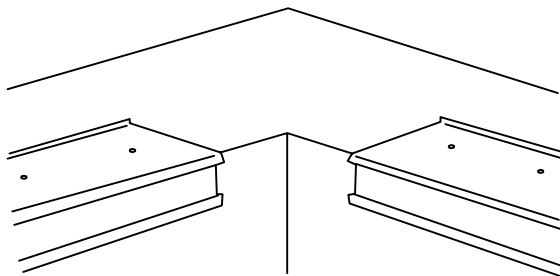


This is another method, using TRK-OVW or TRK-OVC directly on top of the tile. FS-130 double-sided tape is put on first temporarily, then the track is pressed in place. FS-136 silicone is then used on the top and bottom of the track to finish the installation. The fiber is then snapped in place.

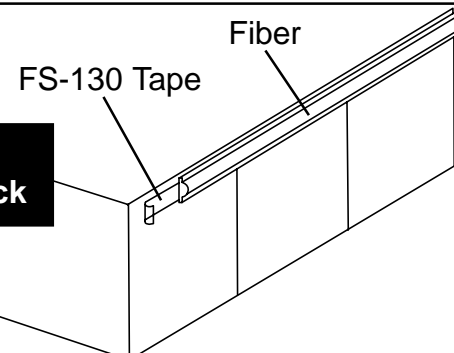
Minimum 2" Radius



When preparing for perimeter lighting, a 2" radius should be maintained on all corners. This will allow the fiber to lay flat. If using track, stop the track 1" from the beginning of a corner to allow the fiber tubing to lay flat.



TRK-BBW is a track for use on top of the bond beam (after brown-out). The track is nailed directly to the bond beam, and brick or coping is installed on top. The fiber is then snapped into the track. Note that the track is stopped short of the corners to allow the fiber to make a radius and lay flat. Silicone should be used to hold the fiber in the corner.



**FSSB
with No Track**

Using FSSB fiber with no track is the simplest way to install perimeter fiber. FS-130 double-sided tape is applied to the top of the tile, then the fiber is pressed in place temporarily. Neutral-cure silicone is then used on the top and bottom of the fiber to hold it permanently. You should use about one tube for every 30 linear feet. Oxime-based, neutral-cure silicone is the only approved adhesive for Fiberstars fiber.

6000 SERIES LIFETIME ILLUMINATOR™

SPECIFICATIONS

CONSTRUCTION

Enclosure: High-Impact Outdoor Grade Polycarbonate
Ventilation: 110 ft³ /min.
Acoustic Rating: 50dB (A)
Weight: 20 lbs.

ELECTRICAL

Voltage Requirement: 120VAC, 60 Hz
Power Consumption: 200 Watts max
Start Current Load: 4.4 amps
Run Current Load: 1.8 amps

LAMP

Type: Metal-Halide H.I.D., Proprietary Design
Life: 6000 Hours Average
Cool Down/Restrike Period: 2-3 minutes
Replacement Lamp Assembly No.: Y20-6000
Color Temperature: 4300° K

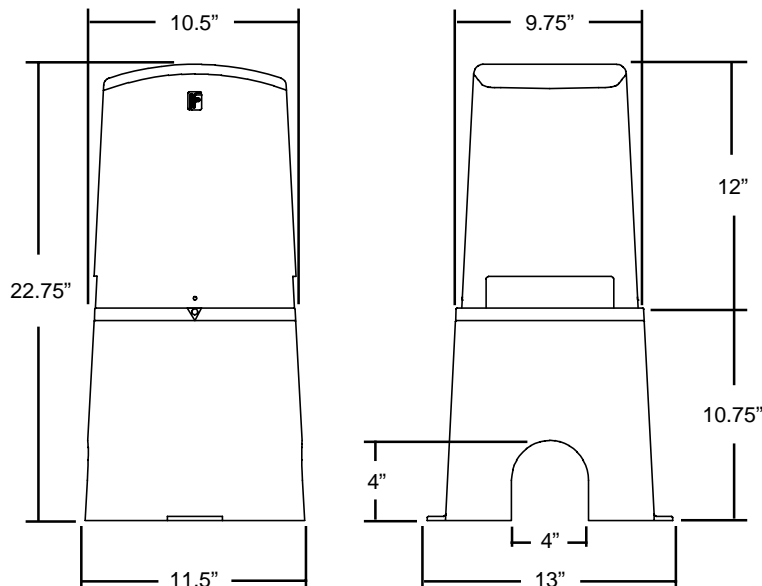
MISC

Fiber Capacity: 450 strands
Options: Wireless Remote Control (RM6000)

CONFIGURATIONS

6000 - White Light Only
6004 - Four Position Color Wheel
White, Green, Magenta, Blue
6008 - Eight Position Color Wheel
White #1, Dark Green, Dark Blue, White #2,
Cyan, Light Green, Light Blue, Magenta
6008-M - Eight Position Color Wheel, Master Synch
6008-S - Eight Position Color Wheel, Slave Synch
6008-MR - Eight Position Color Wheel, Master Synch
with Wireless Remote Control Pre-installed
6008-SR - Eight Position Color Wheel, Slave Synch
with Wireless Remote Control Pre-installed

DIMENSIONS



The 6000 Series Lifetime Illuminator™ installed with the base backfilled to it's maximum height. The vent holes on either side must be clear to allow proper ventilation. Note: The enclosure portion is identical to the System 2000™ Illuminator.



IN THE BOX:

- Complete Fiber Optic Illuminator
- Installation Base
- Fiber Optic Port Assembly
- Installation Manual
- Owner's Manual

See Page 30 for replacement parts



Underwriters Laboratories Inc.®
LISTED

HID FIXTURE LUMINAIRE
SUITABLE FOR WET LOCATIONS
FILE NO. E122894
Fiber Optic Lighting Fixture for
Swimming Pools and Spas

2000 SERIES SYSTEM 2000™

SPECIFICATIONS

CONSTRUCTION

Enclosure: High-Impact Outdoor Grade Polycarbonate

Ventilation: 110 ft³ /min.

Acoustic Rating: 50dB (A)

Weight: 15 lbs.

ELECTRICAL

Voltage Requirement: 120VAC, 60 Hz

Power Consumption: 250 Watts Max

Current Load: 2.0 amps

LAMP

Type: Quartz-Halogen, Proprietary Design

Life: 400-700 Hours Average

Replacement Lamp Number: HI-111

Color Temperature: 2800° K

MISC

Fiber Capacity: 385 strands

Options: Wireless Remote Control (RM1)

CONFIGURATIONS

2000 - White Light Only

2004 - Four Position Color Wheel
White, Green, Magenta, Blue

2008 - Eight Position Color Wheel
White #1, Dark Green, Dark Blue, White #2,
Cyan, Light Green, Light Blue, Magenta

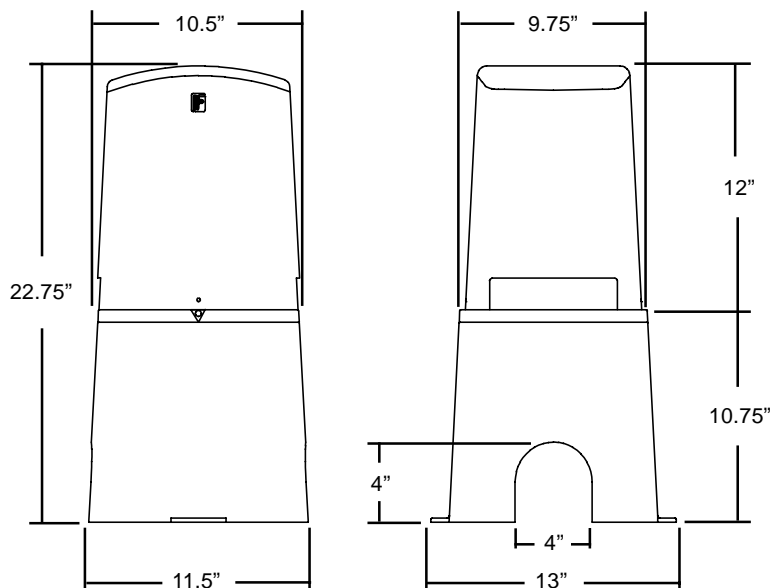
2008-M - Eight Position Color Wheel, Master Synch

2008-S - Eight Position Color Wheel, Slave Synch

2008-MR - Eight Position Color Wheel, Master Synch
with Wireless Remote Control

2008-SR - Eight Position Color Wheel, Slave Synch
with Wireless Remote Control

DIMENSIONS



The 2000 Series System 2000™ installed with the base backfilled to it's maximum height. The vent holes on either side must be clear to allow proper ventilation. Note: The enclosure portion is identical to the 6000 Series Lifetime Illuminator™.



IN THE BOX:

- Complete Fiber Optic Illuminator
- Installation Base
- Fiber Optic Port Assembly
- Installation Manual
- Owner's Manual

See Page 31 for replacement parts



Underwriters Laboratories Inc.®
LISTED

INCANDESCENT FIXTURE
SUITABLE FOR WET LOCATIONS
FILE NO. E173545
Fiber Optic Lighting Fixture for
Swimming Pools and Spas

1500 SERIES FEATURE ILLUMINATOR

SPECIFICATIONS

CONSTRUCTION

Enclosure: High-Impact Outdoor Grade Polycarbonate
Ventilation: 110 ft³ /min.
Acoustic Rating: 50dB (A)
Weight: 15 lbs

ELECTRICAL

Voltage Requirement: 120VAC, 60 Hz
Power Consumption: 250 Watts Max
Current Load: 2.0 amps

LAMP

Type: Quartz-Halogen, Proprietary Design
Life: 1000 Hours Average
Replacement Lamp Number: HI-109
Color Temperature: 2800° K

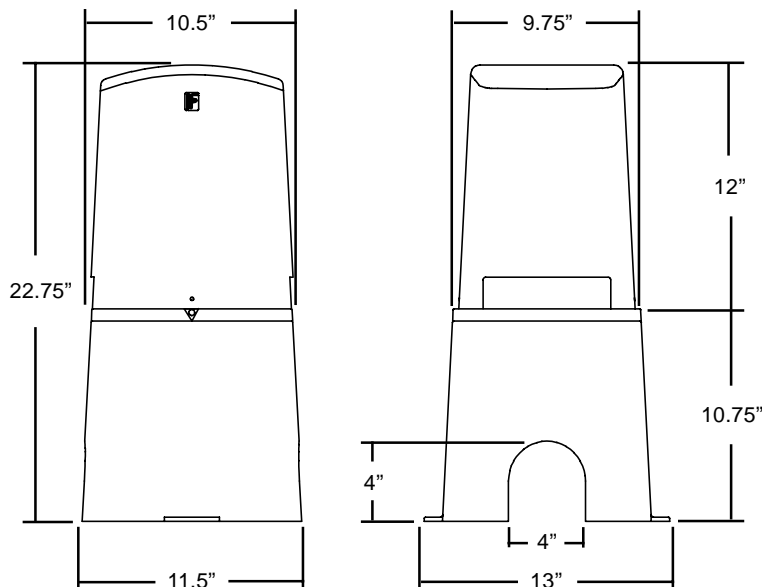
MISC

Fiber Capacity: 300 strands
Options: Wireless Remote Control

CONFIGURATIONS

FI - 1500 Series White Light Only
FI-C - 1504 Series Color Wheel - White, Green, Magenta, Blue
FI-CJ - 1504 Series Color Wheel - External Auto Control Compatible
FI-CR - 1504 Series Color Wheel - Internal Remote Control, X-10 Type
FI-RM1 - 1504 Series Color Wheel - Internal Remote Control, WIRELESS

DIMENSIONS



The 1500 Series Feature Illuminator installed with the base backfilled to it's maximum height. The vent holes on either side must be clear to allow proper ventilation. Note: The enclosure portion is identical to the 6000 Series Lifetime Illuminator™.



IN THE BOX:

- Complete Fiber Optic Illuminator
- Installation Base
- Fiber Optic Port Assembly
- Installation Manual
- Owner's Manual



Underwriters Laboratories Inc.®
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INCANDESCENT FIXTURE
SUITABLE FOR WET LOCATIONS
FILE NO. E173545
Fiber Optic Lighting Fixture for
Swimming Pools and Spas

FIBER OPTIC KITS FOR UNDERWATER LIGHTING

SPECIFICATIONS

FIBER CONSTRUCTION

Type: High Quality LK Grade Fiber Optic Strands

Individual Fiber Thickness: .75mm

OUTER CASING

Material: PVC based polymer

DIMENSIONS

BAF(12 Strand)now B12: .22" Dia

B50(50 strand): .32" Dia

B100(100 Strand): .44" Dia.

FGF-HD(225 Strand)now B225: .73" Dia.

BSF(25 Strand)now B25: .25" Dia.

BPF(75 Strand)now B75: .38" Dia.

FGF(150 Strand)now B150: .55" Dia.

B300(300 Strand): .75" Dia.

SPA/SUPPLEMENTAL KIT CONFIGURATIONS

SF-KIT-8(25 Strands, 8' Kit)

SF-KIT-25(25 Strands, 25' Kit)

now known as B25K series

SF-KIT-15(25 Strands, 15' Kit)

SF-KIT-40(25 Strands, 40' Kit)

SHD-KIT-8(50 Strands, 8' Kit)

SHD-KIT-25(50 Strands, 25' Kit)

SHD-KIT-50(50 Strands, 50' Kit)

now known as B50K series

SHD-KIT-15(50 Strands, 15' Kit)

SHD-KIT-40(50 Strands, 40' Kit)

BPF-KIT-8(75 Strands, 8' Kit)

BPF-KIT-25(75 Strands, 25' Kit)

BPF-KIT-50(75 Strands, 50' Kit)

now known as B75K series

BPF-KIT-15(75 Strands, 15' Kit)

BPF-KIT-40(75 Strands, 40' Kit)

BPF-KIT-60(75 Strands, 60' Kit)

B100-KIT-8(100 Strands, 8' Kit)

B100-KIT-25(100 Strands, 25' Kit)

B100-KIT-50(100 Strands, 50' Kit)

now known as B100K series

B100-KIT-15(100 Strands, 15' Kit)

B100-KIT-40(100 Strands, 40' Kit)

B100-KIT-60(100 Strands, 60' Kit)

POOL KIT CONFIGURATIONS

150 Strand (FGF Fiber)

FG-150-7(150 Strands, 7' Kit)

FG-150-12(150 Strands, 12' Kit)

now known as B150K series

FG-150-9(150 Strands, 9' Kit)

FG-150-14(150 Strands, 14' Kit)

225 Strand (FGF-HD Fiber)

FG-225-7(225 Strands, 7' Kit)

FG-225-12(225 Strands, 12' Kit)

FG-225-18(225 Strands, 18' Kit)

now known as B225K series

FG-225-9(225 Strands, 9' Kit)

FG-225-14(225 Strands, 14' Kit)

300 Strand (B300 Fiber)

FG-300-7(300 Strands, 7' Kit)

FG-300-12(300 Strands, 12' Kit)

FG-300-18(300 Strands, 18' Kit)

now known as B300K series

FG-300-9(300 Strands, 9' Kit)

FG-300-14(300 Strands, 14' Kit)

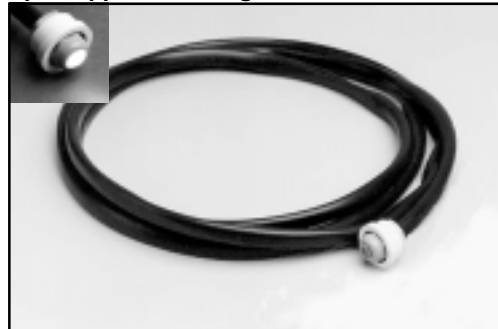
Pool Light Kit



IN THE BOX:

- Fiber optic cable cut to length & polished
- Centering device pre-attached

Spa/Supplemental Light Kit



IN THE BOX:

- Fiber optic cable cut to length & polished
- Centering device pre-attached

New Fiber Kit Part Numbers

Fiberstars is using new, simplified part numbers to denote its fiber optic cable kits. Here is a diagram to explain the numbers.

Fiber Size (# of Strands)	Kit	Fiber Length (in feet)	Old Part Number
B50K	-	40	(SHD-KIT-40)



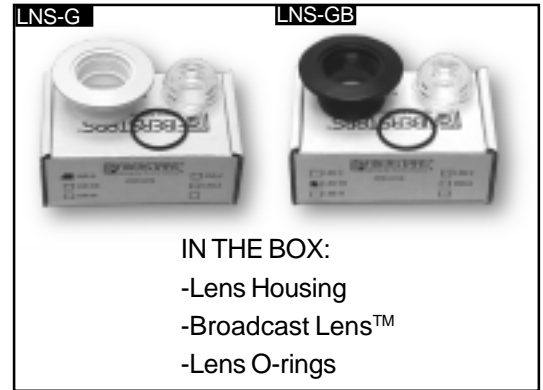
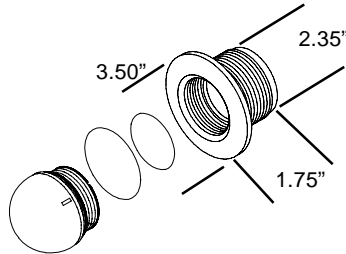
Underwriters Laboratories Inc.®
LISTED

OFN Fiber Optic Cable
PMMA type
FILE NO. E166561

LENS HOUSINGS

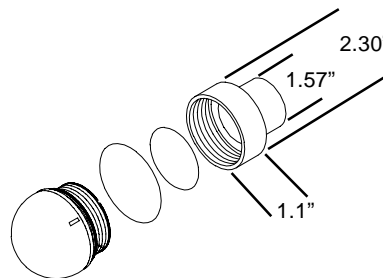
LNS-G (white, for gunite pools)
LNS-GB (black, for gunite pools)

These lens housings glue onto 1 1/2" PVC pipe. Our centering device (included on all fiber kits) seats in the housing, and is completed by the Broadcast Lens™. 1 1/2" slip connection.



LNS-GI (insider for gunite pools)

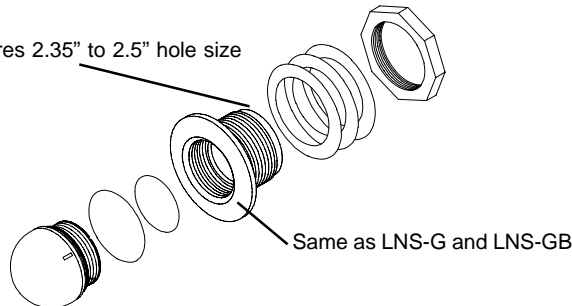
These lens housings glue inside 1 1/2" PVC SCH 40 pipe. Our centering device (included on all fiber kits) seats in the housing, and is completed by the Broadcast Lens™. 1 1/2" SCH 40 INSIDE connection.



LNS-A (white, for acrylic/fiberglass)

These lens housings glue onto 1 1/2" PVC SCH 40 pipe. Includes nuts and gaskets for sealing on acrylic and fiberglass vessels. Our centering device (included on all fiber kits) seats in the housing, and is completed by the Broadcast Lens™. 1 1/2" slip connection.

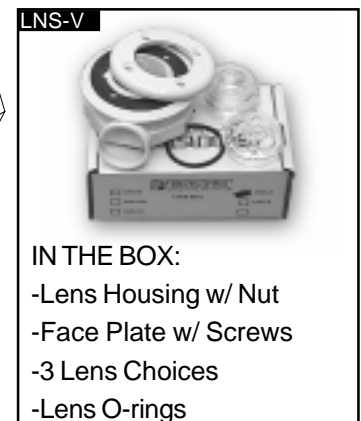
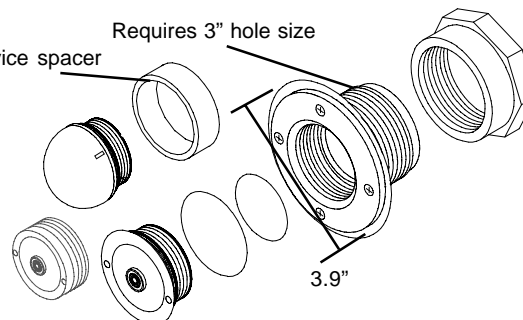
Requires 2.35" to 2.5" hole size



LNS-V (white, for vinyl liners)

These lens housings have 1 1/2" FIP threads. Includes nut, faceplate and screws for sealing on the liner. Our centering device (included on all fiber kits) seats in the housing, and is completed by your choice of three lenses. 1 1/2" FIP connection

Centering device spacer
Requires 3" hole size



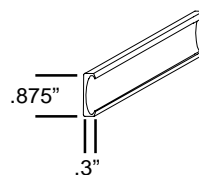
NEW! INSTALLS BEFORE OR AFTER LINER!

SEE PAGES 11-14 FOR INSTALLATION HINTS

PERIMETER FIBER TRACK & ACCESSORIES

TRK-OVC TRACK

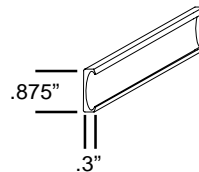
Clear track for our flat-back perimeter fiber. Made of a PVC material for durability and boxed in 50 foot rolls. Fits all FSEO and FSSB style fibers. See pages 19-20 for installation hints.

**TRK-OVC50**

IN THE BOX
-50' Clear Track

TRK-OVW TRACK

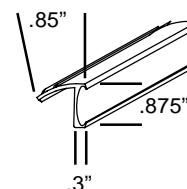
White track for our flat-back perimeter fiber. Made of a PVC material for durability and boxed in 50 foot rolls. Fits all FSEO and FSSB style fibers. See pages 19-20 for installation hints.

**TRK-OVW50**

IN THE BOX
-50' White Track

TRK-VLW TRACK

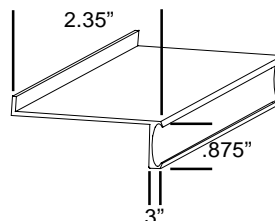
White track for our flat-back perimeter fiber. Snaps into most vinyl-liner bead receivers. Made of a PVC material for durability and boxed in 4 foot sections, 100 feet to a box. Fits all FSEO and FSSB style fibers.

**TRK-VLW100**

IN THE BOX
-100' White Track

TRK-BBW TRACK

White track for our flat-back perimeter fiber. For use on top of gunite bond beam. Made of a PVC material for durability and boxed in 50 foot rolls. Fits all FSEO and FSSB style fibers. See pages 19-20 for installation hints.

**TRK-BBW50**

IN THE BOX
-50' White Track

FS-130 TAPE

Clear, double-sided tape for temporarily holding flat-backed perimeter fiber to tile. Follow with FS-136 for a permanent installation. See Page 20 for installation hints.

FS-130**FS-136 SILICONE**

Clear silicone adhesive for permanently attaching flat-backed perimeter fiber. Oxime-based adhesives are the ONLY silicones tested and approved by Fiberstars. See page 20 for installation hints. Also available in cases of 24 (FS-138).

FS-136

Also Available in Cases of
24 (FS-138)

FS-120 FITTING

Clear fitting to finish off the entrance/exit of perimeter fiber in the conduit. A nice touch to make your installation look professional. Fits inside 1" pipe and conduit. Use FS-136 silicone to seal.

FS-120**FS-134 FITTING**

Entrance/exit fitting for acrylic steps on vinyl liner pools. Place the fitting at the same level as the fiber and glue 1" pipe or conduit into the back. Finish the installation with the FS-120 fitting (above).

FS-134**FS-139 ACRYLIC STEP KIT**

A complete kit to run flat-backed perimeter fiber around an acrylic step. Includes the TRK-OVW track, FS-136 silicone, FS-120 fitting, and FS-134 fitting. See page 19-20 for alternatives to this kit.

FS-139

IN THE BOX
-25' White Track
-1) FS-136
-1) FS-120
-1) FS-134

SPECIFICATIONS

Fiber Optics:	50 Strands, attached to 12", 18", and 24" Falls 100 Strands attached to 24", 36" Falls
Construction:	Outdoor grade PVC
Max Flow:	20 GPM (LF12), 30 GPM (LF18), 40 GPM (LF24)
Approvals:	NSF, CE

CONFIGURATIONS

LF12-15	12" Fiberstars® Fall w/ 15' 50 Strand Fiber Attached
LF12-25	12" Fiberstars® Fall w/ 25' 50 Strand Fiber Attached
LF12-40	12" Fiberstars® Fall w/ 40' 50 Strand Fiber Attached
LF18-15	18" Fiberstars® Fall w/ 15' 50 Strand Fiber Attached
LF18-25	18" Fiberstars® Fall w/ 25' 50 Strand Fiber Attached
LF18-40	18" Fiberstars® Fall w/ 40' 50 Strand Fiber Attached
LF24-15	24" Fiberstars® Fall w/ 15' 50 Strand Fiber Attached
LF24-25	24" Fiberstars® Fall w/ 25' 50 Strand Fiber Attached
LF24-40	24" Fiberstars® Fall w/ 40' 50 Strand Fiber Attached
LF36-15	36" Fiberstars® Fall w/ 15' 100 Strand Fiber Attached
LF36-25	36" Fiberstars® Fall w/ 25' 100 Strand Fiber Attached
LF36-40	36" Fiberstars® Fall w/ 40' 100 Strand Fiber Attached
LF48-15	48" Fiberstars® Fall w/ 15' 100 Strand Fiber Attached
LF48-25	48" Fiberstars® Fall w/ 25' 100 Strand Fiber Attached
LF48-40	48" Fiberstars® Fall w/ 40' 100 Strand Fiber Attached

HYDRAULIC GUIDELINES

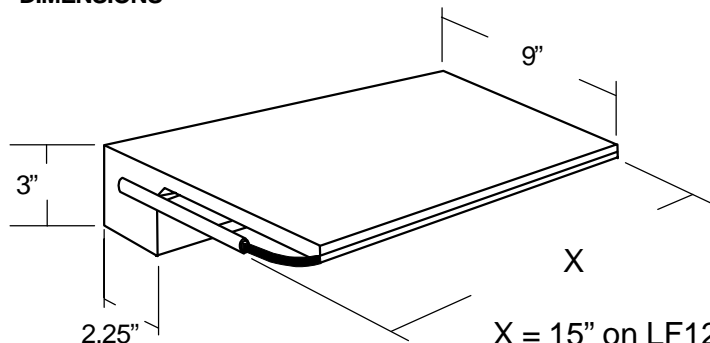
- Use minimum 1.5" pipe
- Use minimum 2" pipe for runs in excess of 60'
- Dedicated plumbing lines are recommended
- Recommended maximum flow for a typical installation:

60 GPM in 1.5" pipe
100 GPM in 2" pipe

TYPICAL PUMP PERFORMANCE AT 50' HEAD

.5 hp = 26 GPM
.75 hp = 58 GPM
1 hp = 68 GPM
1.5 hp = 93 GPM
2 hp = 106 GPM

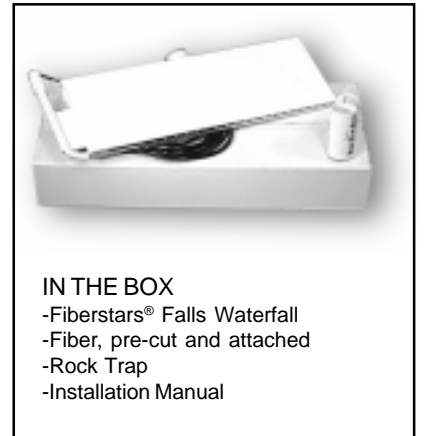
DIMENSIONS



X = 15" on LF12
X = 21" on LF18
X = 27" on LF24
X = 39" on LF36
X = 51" on LF48



The Fiberstars® Fall includes 50 or 100 strand fiber and installs just like a standard sheer-type water fall. It can be used as a stand alone fixture, or as a compliment to the fiber optic pool light. Compatible with any Fiberstars fiber optic illuminator.



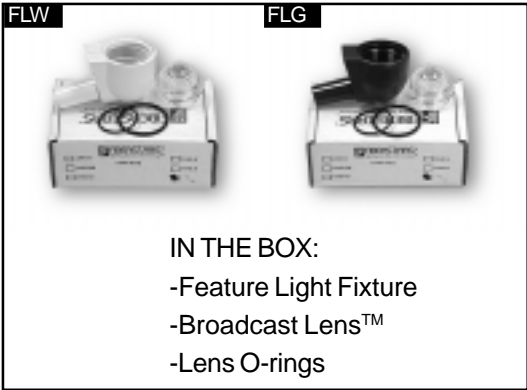
IN THE BOX

- Fiberstars® Falls Waterfall
- Fiber, pre-cut and attached
- Rock Trap
- Installation Manual



FEATURE LIGHT FIXTURES

FLW (white, for gunite pools)
FLG (black, for gunite pools)
These feature lights glue inside 1" PVC pipe. Use with our standard spa/
supplemental light kits in 25, 50 or 75 strand. Broadcast Lens™ included.



FLW-A (white, for fiberglass pools)
These feature lights glue inside a bushing that threads into our LNS-A (included).
Use with our standard spa/supplemental light kits in 25, 50 or 75 strand. Broadcast
Lens™ included.



FLW-V (white, for vinyl liner pools)
These feature lights glue inside a bushing that threads into our LNS-V (included).
Use with our standard spa/supplemental light kits in 25, 50 or 75 strand. Broadcast
Lens™ included.

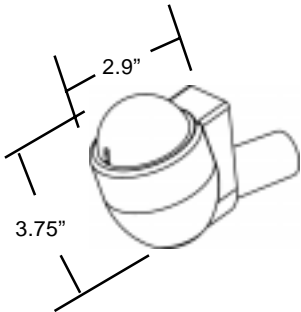


SPECIFICATIONS

Construction: High-Impact Outdoor Grade Polymer

CONFIGURATIONS
FLG, FLW, FLW-A, FLW-V

DIMENSIONS



SEE PAGE 15 FOR INSTALLATION HINTS

DeckStars™

SPECIFICATIONS

CONSTRUCTION

High-Impact Outdoor Grade Polycarbonate
Weight: 3 lbs.

CONFIGURATIONS

DS-R8 24" Round DeckStars™

DS-F8 84" Flexible DeckStars™

FIBER

Attaches to any 25 strand fiber kit:

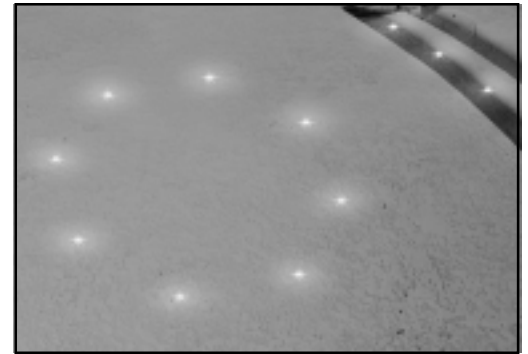
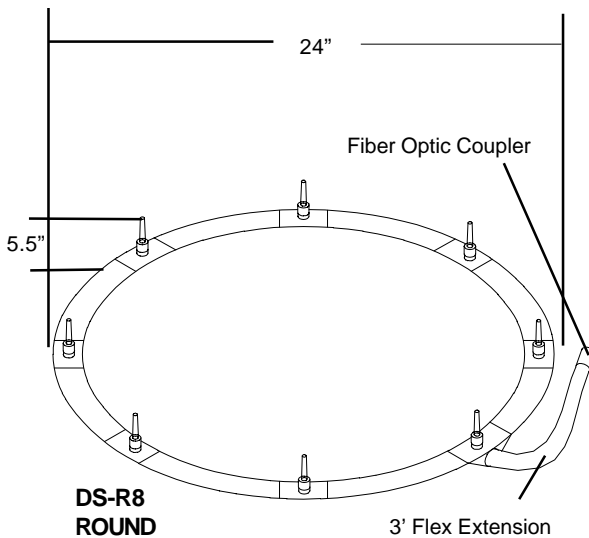
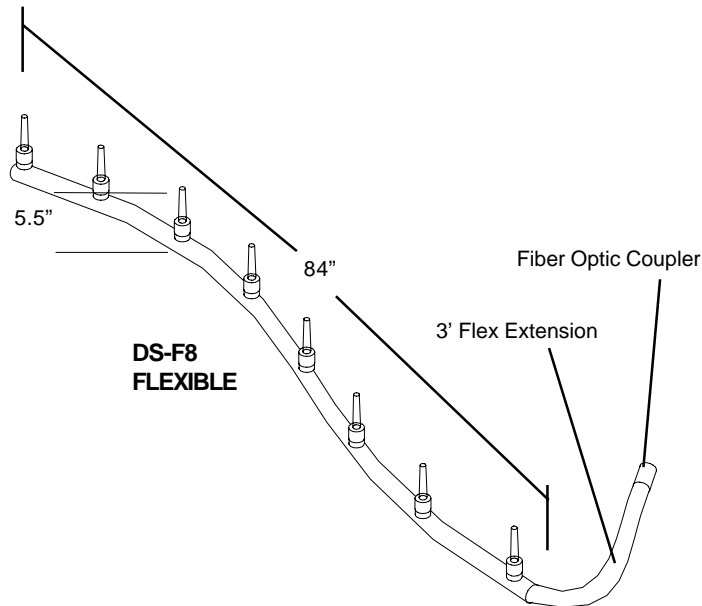
B25K-8 (SF-KIT-8)

B25K-15 (SF-KIT-15)

B25K-25 (SF-KIT-25)

B25K-40 (SF-KIT-40)

DIMENSIONS



DS-F8



IN THE BOX:

- Complete Deck Stars™ Fixture
- Fiber Coupling for 25 Strand Kits
- Installation Manual

DS-R8

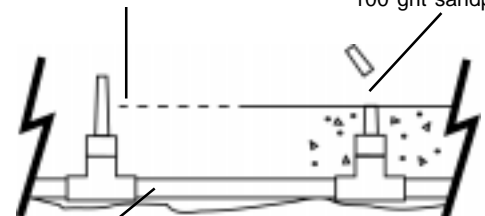


IN THE BOX:

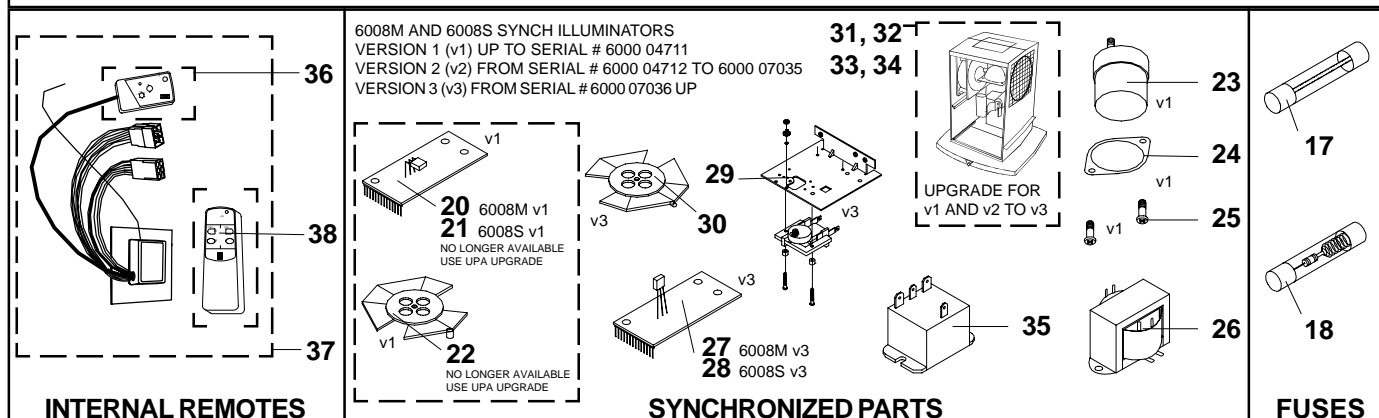
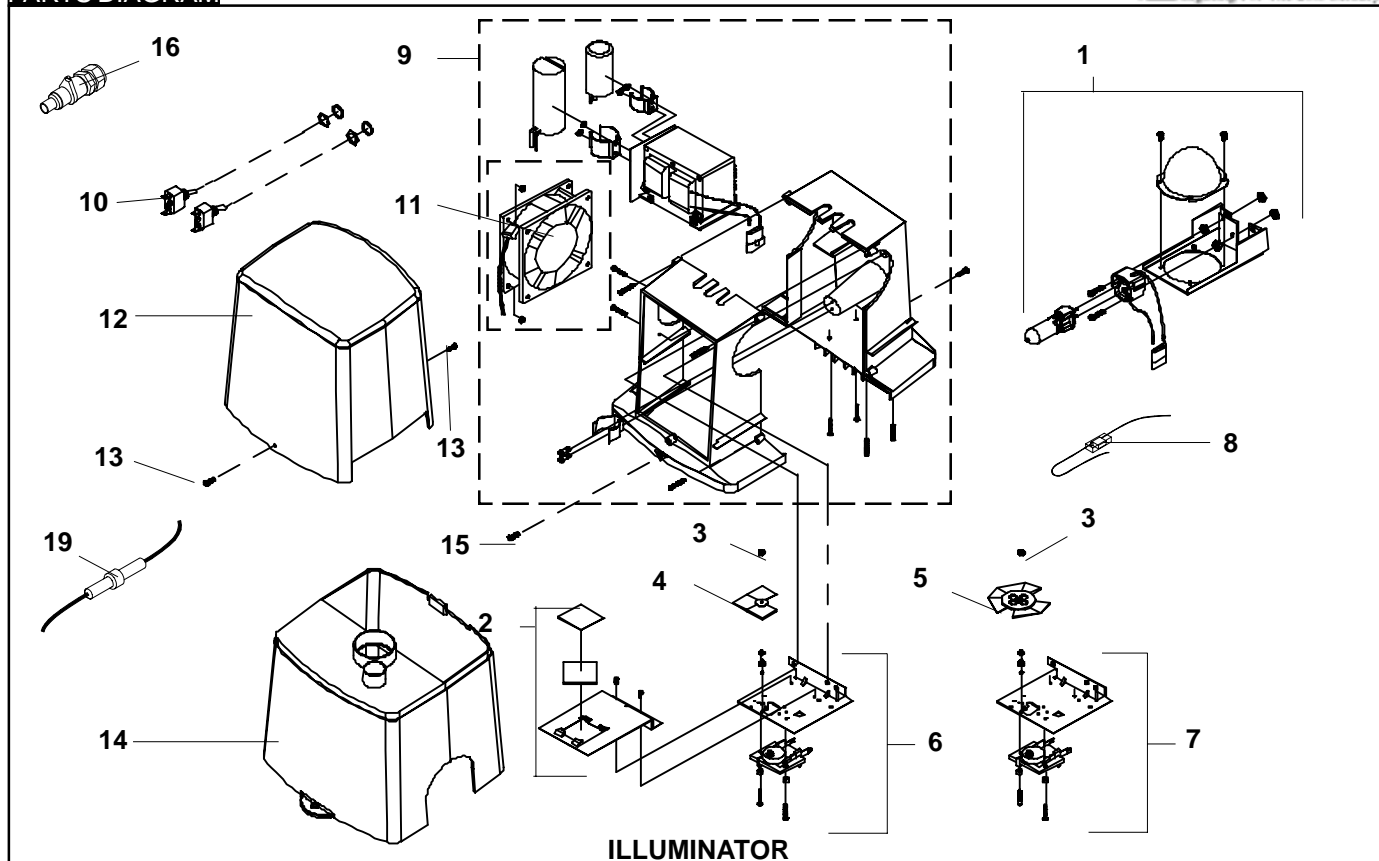
- Complete Deck Stars™ Fixture
- Fiber Coupling for 25 Strand Kits
- Installation Manual

2) Pour concrete so 1/4" to 1 5/8" is protruding.

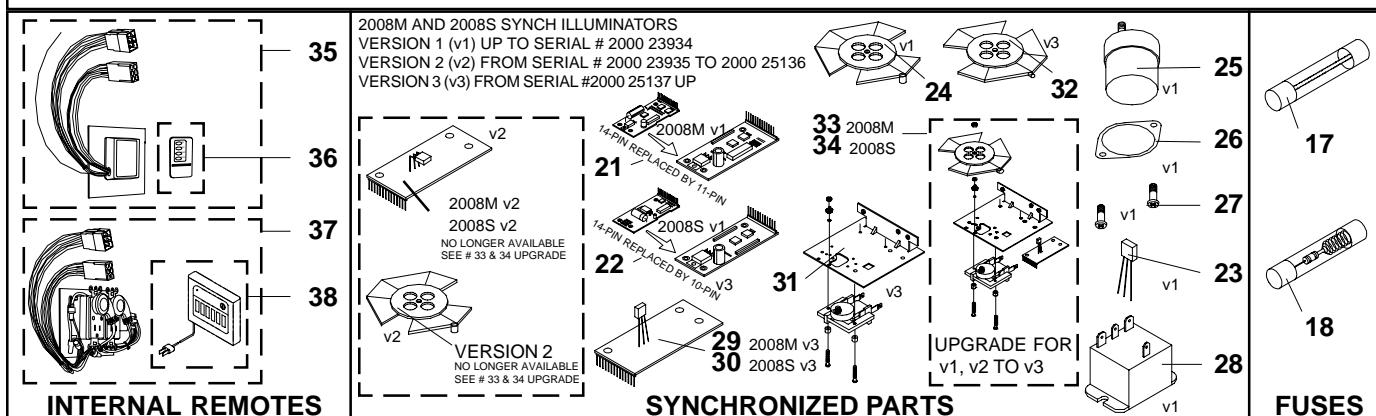
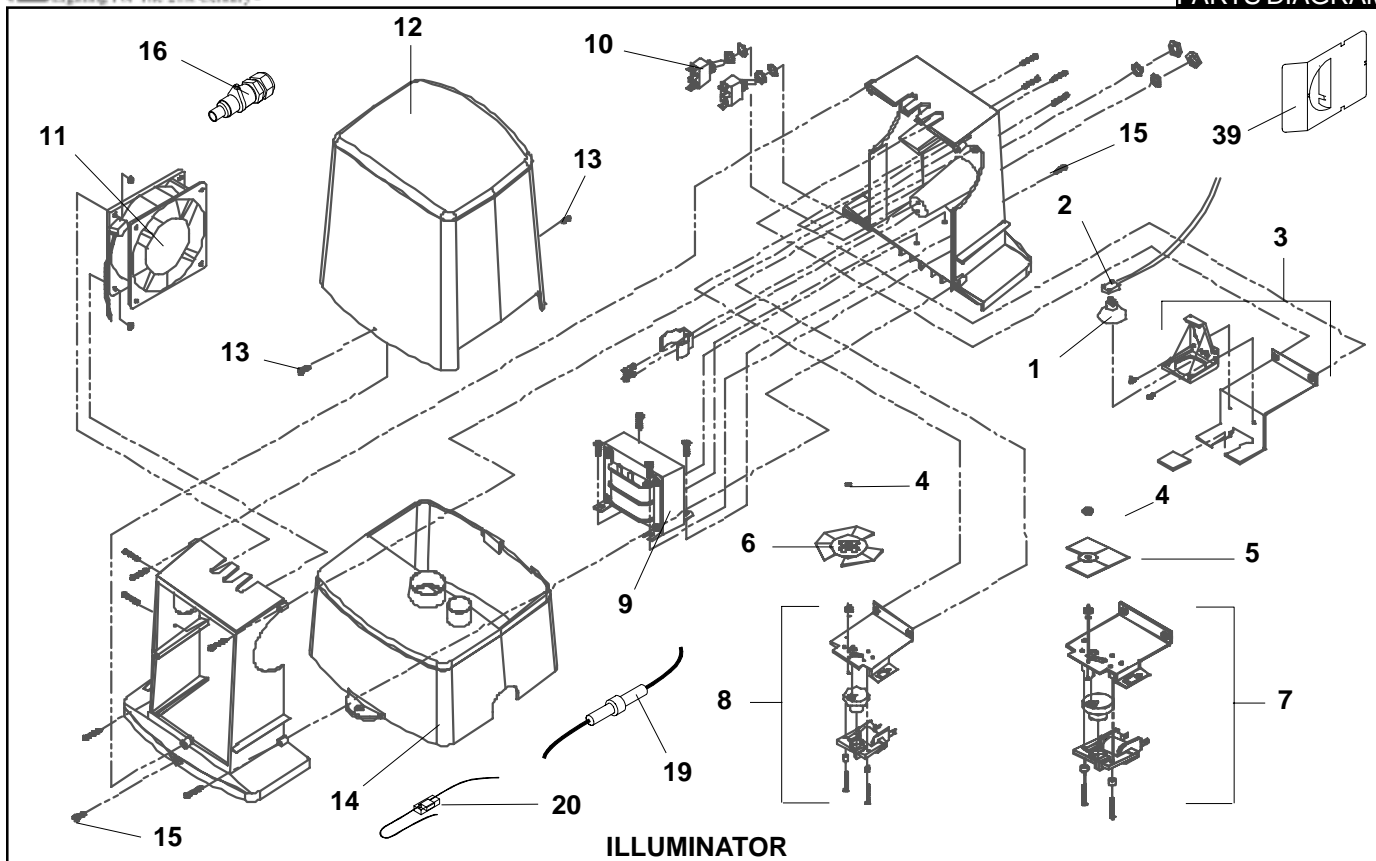
3) Cut each DeckStar™ spot flush and sand with 100 grit sandpaper



1) Set DeckStars™ fixture on ground. Tie to steel if necessary

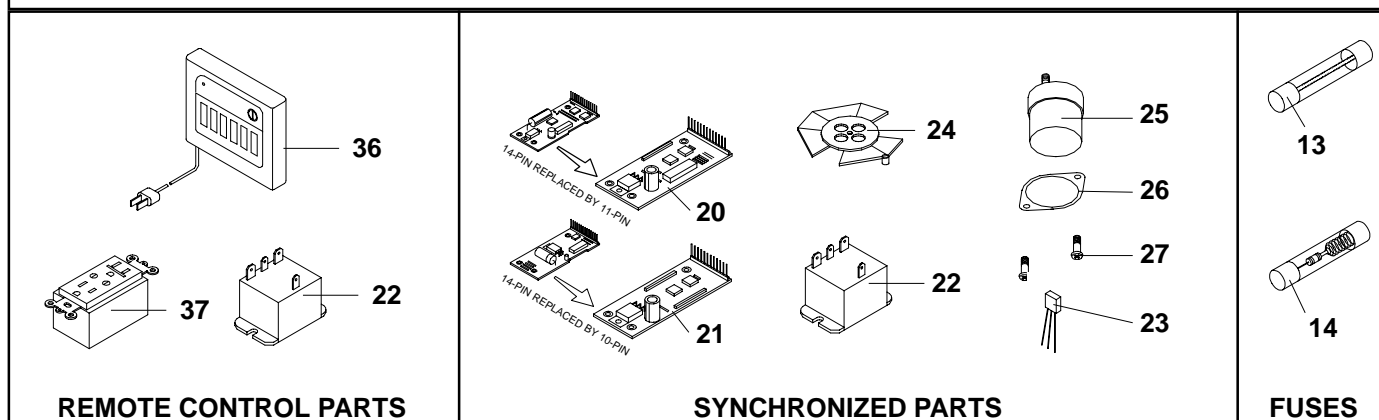
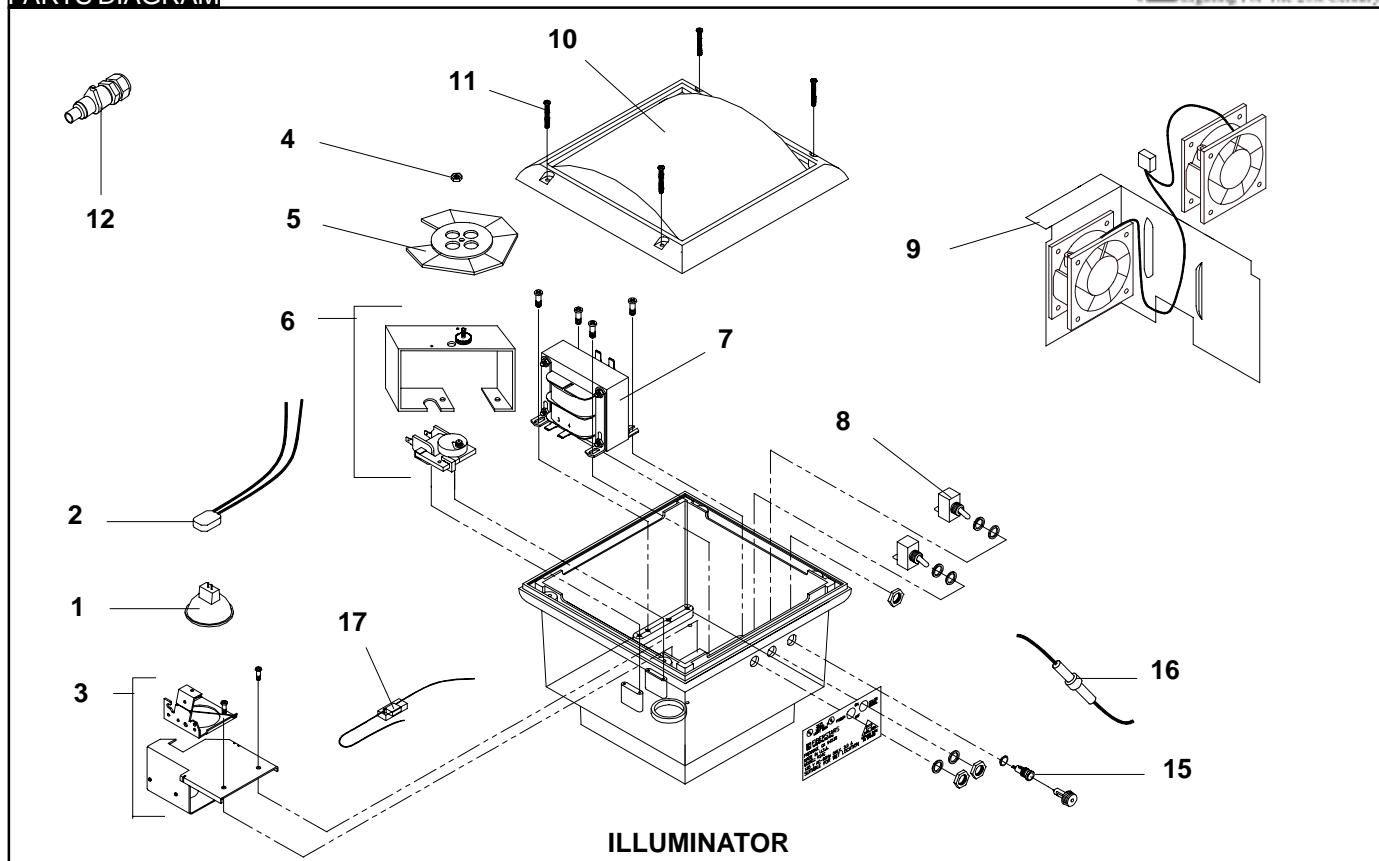


KEY	DESCRIPTION	PART#		KEY	DESCRIPTION	PART#
1	LAMP ASSEMBLY	Y20-6000	v 1	20	SYNCH MASTER BOARD (6008M v 1)NOT AVAILABLE	N/A
2	HOT MIRROR BRACKET ASSEMBLY	Y20-6050		21	SYNCH MASTER BOARD (6008M v 1)NOT AVAILABLE	N/A
3	COLOR WHEEL NUT	A8092		22	SYNCH COLOR WHEEL ONLY (v 1) NOT AVAILABLE	N/A
4	COLOR WHEEL ONLY (6004)	PTO3D		23	SYNCH COLOR WHEEL MOTOR (v 1)	A8935
5	COLOR WHEEL ONLY (6008)	A11213		24	SYNCH COLOR WHEEL MOTOR FLANGE (v 1)	A8633
6	COLOR WHEEL MOTOR ASSY. (6004)	Y10-4010		25	SYNCH COLOR WHEEL MOTOR SCREW (v 1)	A9150
7	COLOR WHEEL MOTOR ASSY. (6008)	Y10-8010		26	SYNCH COLOR WHEEL TRANSFORMER	C9516
8	THERMAL OVERLOAD ASSEMBLY, UNIVERSAL	Y30-0020	v 3	27	SYNCH MASTER BOARD (6008M v 3) W/SENSOR	Y10-8040
9	CHASSIS-BALLAST-FAN ASSEMBLY	Y30-6500		28	SYNCH SLAVE BOARD (6008S v 3) W/SENSOR	Y10-8041
10	TOGGLE SWITCH, 3-POSITION	A11526		29	SYNCH COLOR WHEEL MOTOR ASSY. (v 3)	Y10-8011
11	FAN	A7002		30	SYNCH COLOR WHEEL ONLY (v 3)	A12679
12	TOP COVER	A11604	UPGRADE	31	SYNCH UPGRADE TO v 3, MASTER	6008-M-UPA
13	TOP COVER SCREW (#8-32 X .5)	A11603		32	SYNCH UPGRADE TO v 3, SLAVE	6008-S-UPA
14	BASE	E12312		33	SYNCH UPGRADE TO v 3, MASTER REMOTE	6008-MR-UPA
15	BASE TO CHASSIS SCREW (#8 X .5 SELF DRILLING)	A11246		34	SYNCH UPGRADE TO v 3, SLAVE REMOTE	6008-SR-UPA
16	FIBER PORT ASSY.	A12240		35	SYNCH COLOR WHEEL RELAY	A9163
17	FUSE, MAIN POWER, 7 AMP	A12269		36	RM6000 SENSOR PACK ONLY	Y30-6110
18	FUSE, COLOR WHEEL MOTOR, . 1 AMP	A11598		37	RM6000 AUTOMATIC OPERATING SYTEM PKG.	RM6000
19	FUSE HOLDER, UNIVERSAL (NO FUSE INCLUDED)	Y30-6900		38	RM6000 TRANSMITTER ONLY	Y30-6010

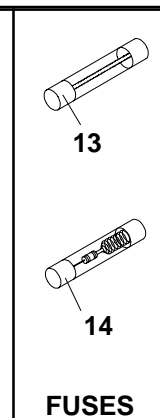
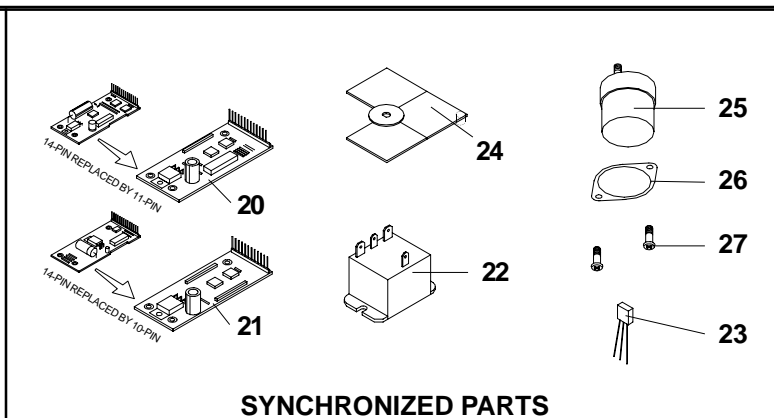
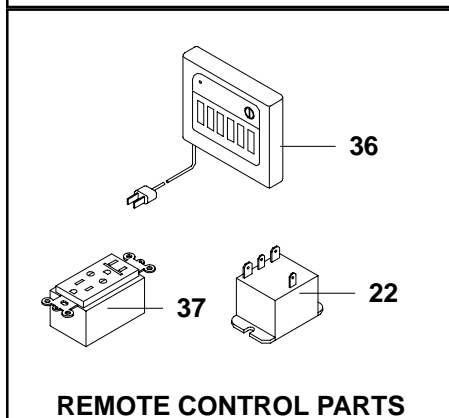
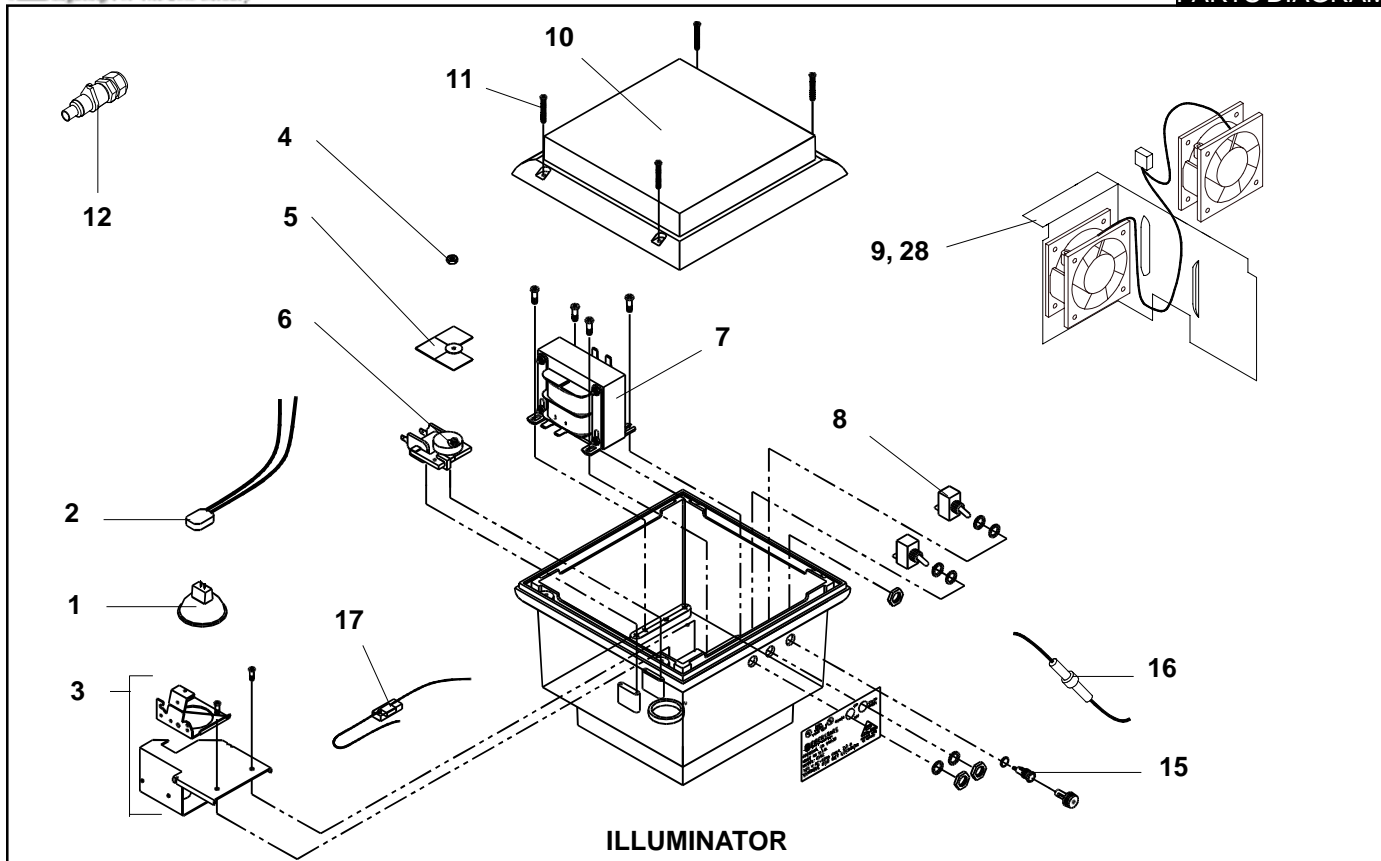


KEY	DESCRIPTION	PART#		KEY	DESCRIPTION	PART#
1	LAMP	HI-111	v 1	21	SYNCH MASTER BOARD (2008M v1)	C12467
2	LAMP SOCKET	B9155		22	SYNCH SLAVE BOARD (2008S v1)	C12468
3	LAMP BRACKET ASSY.	Y20-2050		23	SYNCH SENSOR (v1)	A9811
4	COLOR WHEEL NUT	A8092		24	SYNCH COLOR WHEEL ONLY (v1)	A11690
5	COLOR WHEEL ONLY (2004)	PTO3D		25	SYNCH COLOR WHEEL MOTOR (v1)	A8935
6	COLOR WHEEL ONLY (2008)	A11213		26	SYNCH COLOR WHEEL MOTOR FLANGE (v1)	A8633
7	COLOR WHEEL MOTOR ASSY. (2004)	Y10-4005		27	SYNCH COLOR WHEEL MOTOR SCREW (v1)	A9150
8	COLOR WHEEL MOTOR ASSY. (2008)	Y10-8005		28	SYNCH COLOR WHEEL RELAY (v1)	A9163
9	TRANSFORMER, 120VAC - 19.7VAC	D9144E	v 3	29	SYNCH MASTER BOARD (2008M v3) W/SENSOR	Y10-8040
10	TOGGLE SWITCH, 3-POSITION	A11526		30	SYNCH SLAVE BOARD (2008S v3) W/SENSOR	Y10-8041
11	FAN	A7002		31	SYNCH COLOR WHEEL MOTOR ASSY. (v3)	Y10-8011
12	TOP COVER	A11604		32	SYNCH COLOR WHEEL ONLY (v3)	A12679
13	TOP COVER SCREW (#8-32 X.5)	A11603		33	SYNCH COLOR WHEEL ASSY. UPGRADE (2008M v3)	Y10-8030
14	BASE	E12312		34	SYNCH COLOR WHEEL ASSY. UPGRADE (2008S v3)	Y10-8031
15	BASE TO CHASSIS SCREW (#8 X .5 SELF DRILLING)	A11246		35	RM1 REMOTE CONTROL PKG., WIRELESS	RM1
16	FIBER PORT ASSY.	A10980		36	RM1 TRANSMITTER ONLY, WIRELESS	Y30-6005
17	FUSE, MAIN POWER, 2.5 AMP	A9182		37	RM2 REMOTE CONTROL PKG., X-10 TYPE	RM2
18	FUSE, COLOR WHEEL MOTOR, .1 AMP	A11598		38	RM2 TRANSMITTER ONLY, PLUG-IN	FS-126
19	FUSE HOLDER, UNIVERSAL (NO FUSE INCLUDED)	Y30-6900		39	AIR BAFFLE, ALL UNITS	D12028
20	THERMAL OVERLOAD ASSEMBLY, UNIVERSAL	Y30-0020				

FS5 SERIES ILLUMINATOR



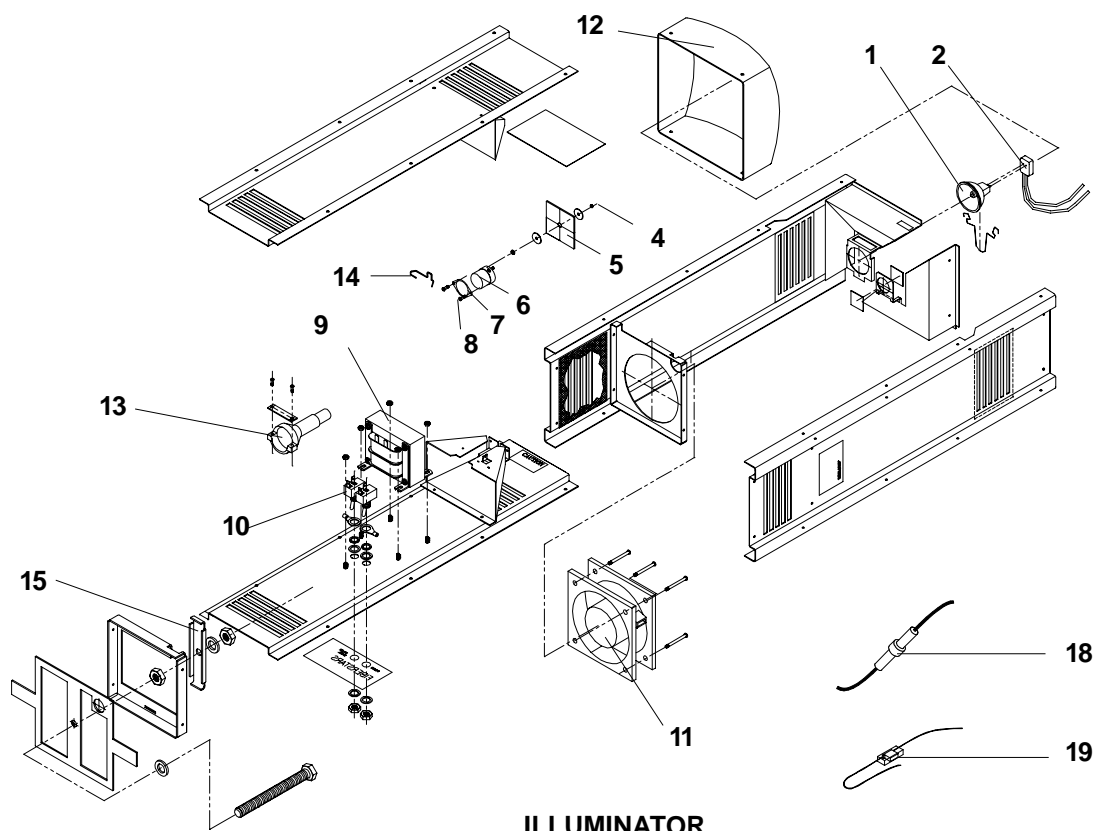
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1	LAMP	HL-111	20	SYNCH MASTER BOARD	C12467
2	LAMP SOCKET	B9155	21	SYNCH SLAVE BOARD	C12468
3	LAMP BRACKET ASSY.	A11285	22	COLOR WHEEL RELAY	A9163
4	COLOR WHEEL NUT	A8092	23	SYNCH SENSOR	A9811
5	COLOR WHEEL ONLY	A11213	24	SYNCH COLOR WHEEL ONLY	A11690
6	COLOR WHEEL MOTOR ASSY.	A11218	25	SYNCH COLOR WHEEL MOTOR	A8935
7	TRANSFORMER, 120VAC - 19.7VAC	D9144E	26	SYNCH COLOR WHEEL MOTOR FLANGE	A8633
8	TOGGLE SWITCH, 2-POSITION	A9173	27	SYNCH COLOR WHEEL MOTOR SCREW	A9150
9	FAN KIT (DUAL FAN UPGRADE)	FSRT-D			
10	TOP COVER	A11216			
11	TOP COVER SCREW (#6-32 X .75")	A10711			
12	FIBER PORT ASSY.	A11212			
13	FUSE, MAIN POWER, 2.5 AMP	A9182			
14	FUSE, COLOR WHEEL MOTOR, .1 AMP	A11598			
15	FUSE HOLDER FOR MAIN POWER (USE W/ A9182)	A7012			
16	FUSE HOLDER FOR COLOR WHEEL (USE W/ A11598)	Y30-6900			
17	THERMAL OVERLOAD ASSEMBLY, UNIVERSAL	Y30-0020			
	INSTALLATION BASE	FS-162	36	REMOTE CONTROL TRANSMITTER	FS-126
	BASE TO CHASSIS SCREW (#8 X .5" THD FORMING)	A11246	37	REMOTE CONTROL RECEIVER	A9161



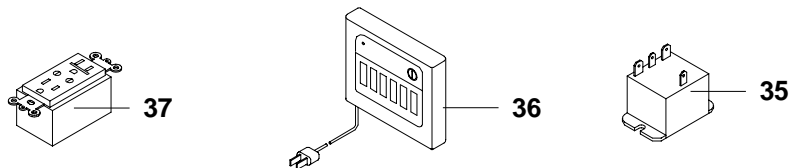
KEY	DESCRIPTION	PART#
1	LAMP	HL-111
2	LAMP SOCKET	B9155
3	LAMP BRACKET ASSY.	A11285
4	COLOR WHEEL NUT	A8092
5	COLOR WHEEL ONLY	PTO3D
6	COLOR WHEEL MOTOR ASSY.	A10689
7	TRANSFORMER, 120VAC - 19.7VAC	D9144E
8	TOGGLE SWITCH, 2-POSITION	A9173
9	FAN KIT (DUAL FAN UPGRADE)	FSRT-D
10	TOP COVER	A10759
11	TOP COVER SCREW (#6-32 X .75")	A10711
12	FIBER PORT ASSY.	A10751
13	FUSE, MAIN POWER, 2.5 AMP	A9182
14	FUSE, COLOR WHEEL MOTOR, .1 AMP	A11598
15	FUSE HOLDER FOR MAIN POWER (USE W/ A9182)	A7012
16	FUSE HOLDER FOR COLOR WHEEL (USE W/ A11598)	Y30-6900
17	THERMAL OVERLOAD ASSEMBLY	Y30-0020
	INSTALLATION BASE	FS-162
	BASE TO CHASSIS SCREW (#8 X .5" THD FORMING)	A11246

KEY	DESCRIPTION	PART#
20	SYNCH MASTER BOARD	C12467
21	SYNCH SLAVE BOARD	C12468
22	COLOR WHEEL RELAY	A9163
23	SYNCH SENSOR	A9811
24	SYNCH COLOR WHEEL ONLY	PTO-3C
25	SYNCH COLOR WHEEL MOTOR	A8630
26	SYNCH COLOR WHEEL MOTOR FLANGE	A8633
27	SYNCH COLOR WHEEL MOTOR SCREW	A9150
28	FAN KIT FOR SYNCH (DUAL FAN UPGRADE)	FSRT-DSYNCH
36	REMOTE CONTROL TRANSMITTER	FS-126
37	REMOTE CONTROL RECEIVER	A9161

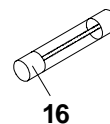
FS3 SERIES ILLUMINATOR



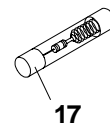
ILLUMINATOR



REMOTE CONTROL PARTS



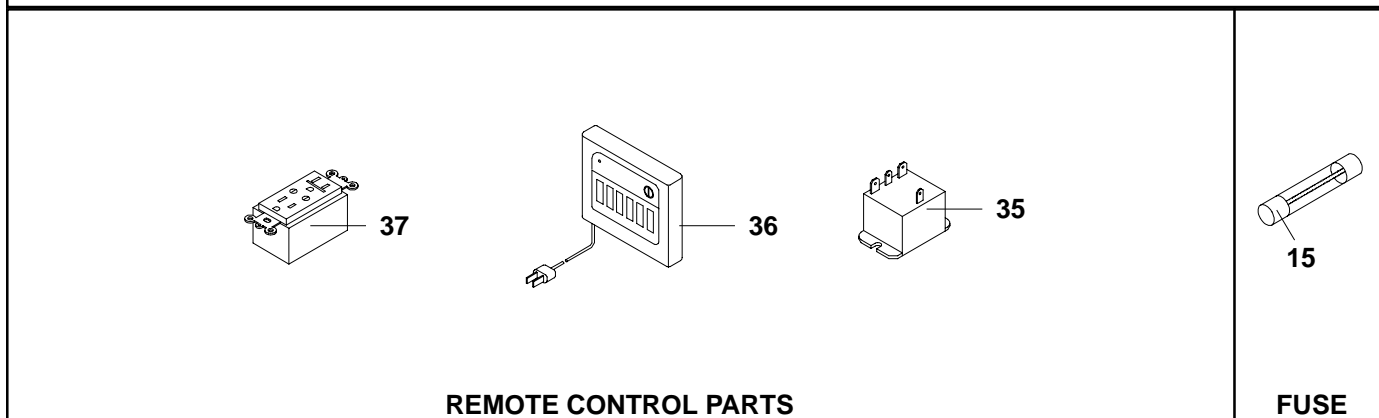
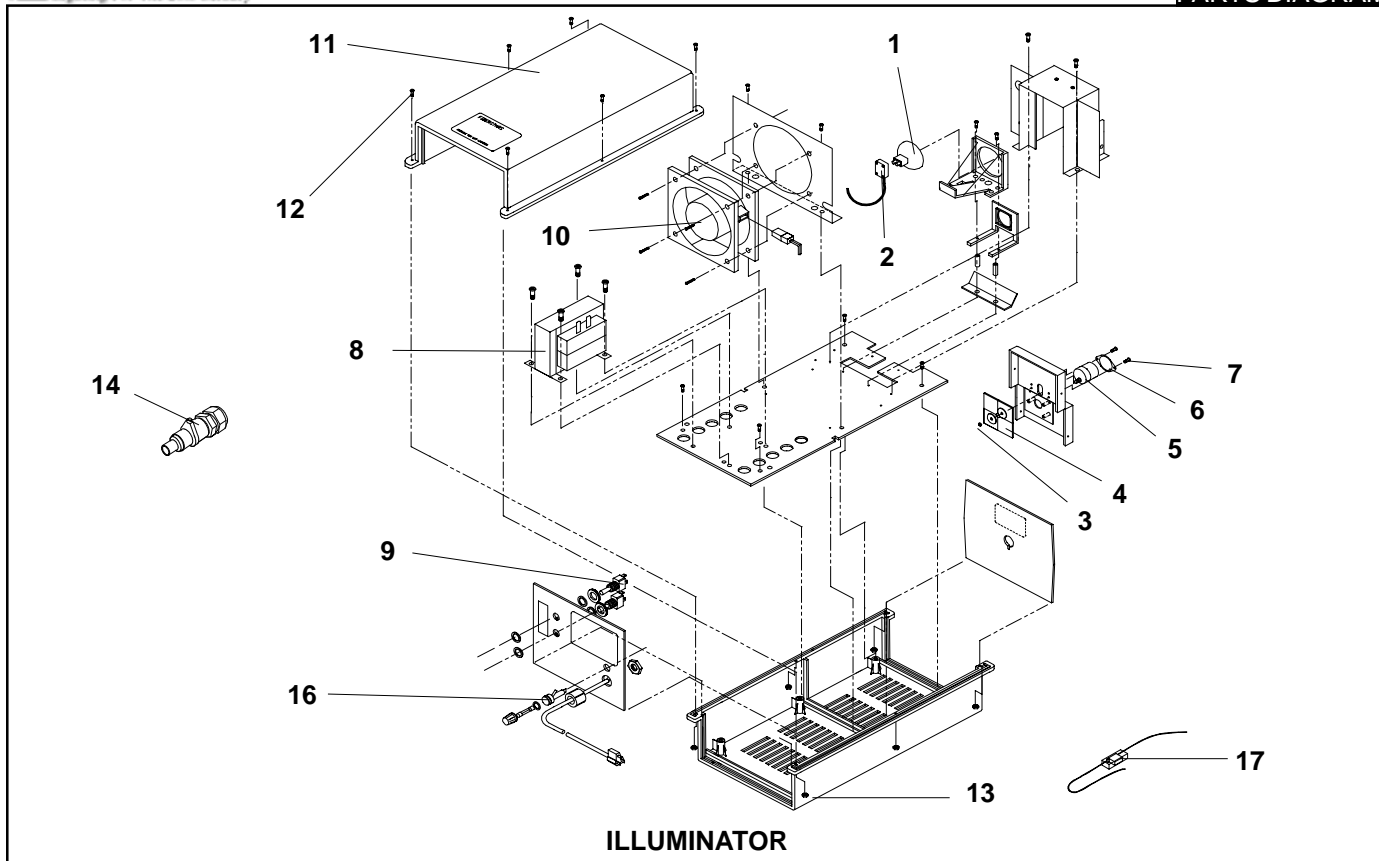
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17

FUSES

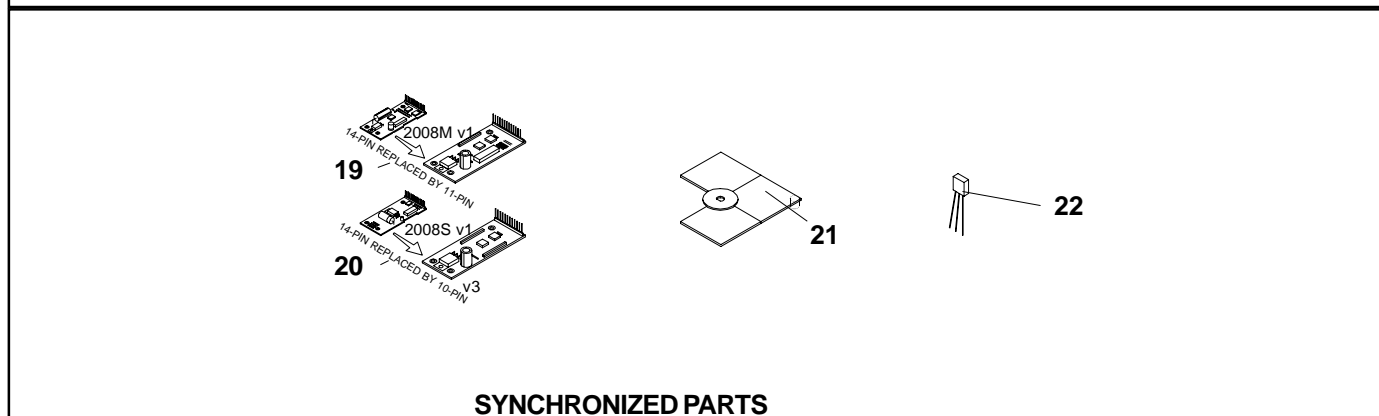
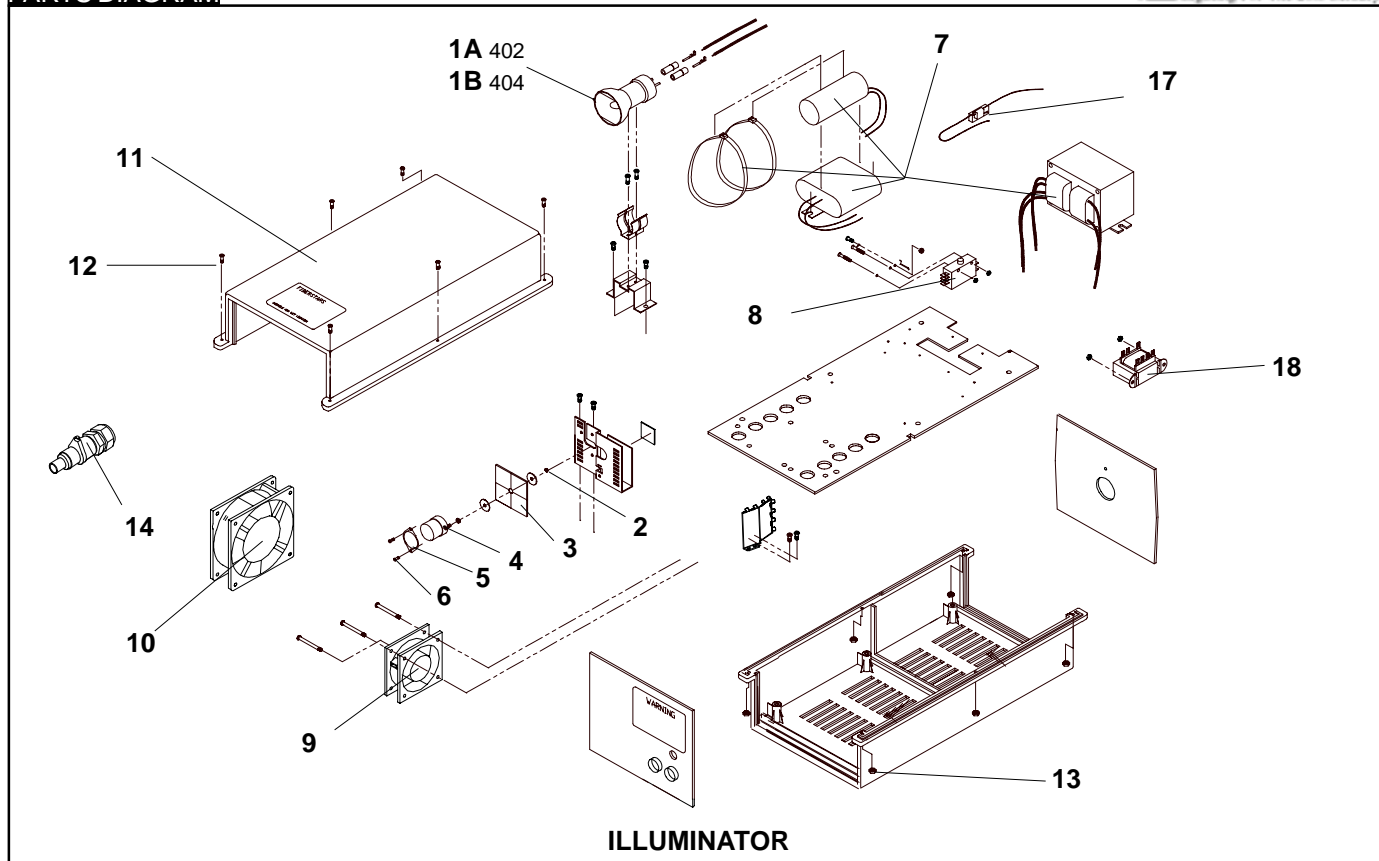
KEY	DESCRIPTION	PART#	KEY	DESCRIPTION	PART#
1	LAMP	HL-111	15	BASE/TEMPLATE BAR KIT	D9790
2	LAMP SOCKET	B9155	16	FUSE, MAIN POWER, 2.5 AMP	A9182
3	LAMP SPRING CLIP	A9521	17	FUSE, COLOR WHEEL MOTOR, .1 AMP	A11598
4	COLOR WHEEL NUT	A8092	18	FUSE HOLDER, REPLACEABLE (SPICE-IN)	Y30-6900
5	COLOR WHEEL ONLY (v1)	PTO3C	19	THERMAL OVERLOAD ASSEMBLY, UNIVERSAL	Y30-0020
5a	COLOR WHEEL ONLY (v2)	PTO3D			
6	COLOR WHEEL MOTOR (v1)	A10690			
6a	COLOR WHEEL MOTOR (v2)				
7	COLOR WHEEL MOTOR FLANGE (v1)	A8633			
8	COLOR WHEEL MOTOR FLANGE SCREW (v1)	A9150			
9	TRANSFORMER, 120VAC - 19.7VAC	D9144E			
10	TOGGLE SWITCH, 2-POSITION	A9173			
11	FAN	A7002			
12	TOP COVER	D9577			
	PANEL SCREWS (#6 X .375" THD FORMING)	A9506			
13	FIBER PORT ASSY.	FS-122			
14	FIBER PORT CLIP	B9084	35	COLOR WHEEL RELAY	A9163
			36	REMOTE CONTROL TRANSMITTER	FS-126
			37	REMOTE CONTROL RECEIVER	A9161



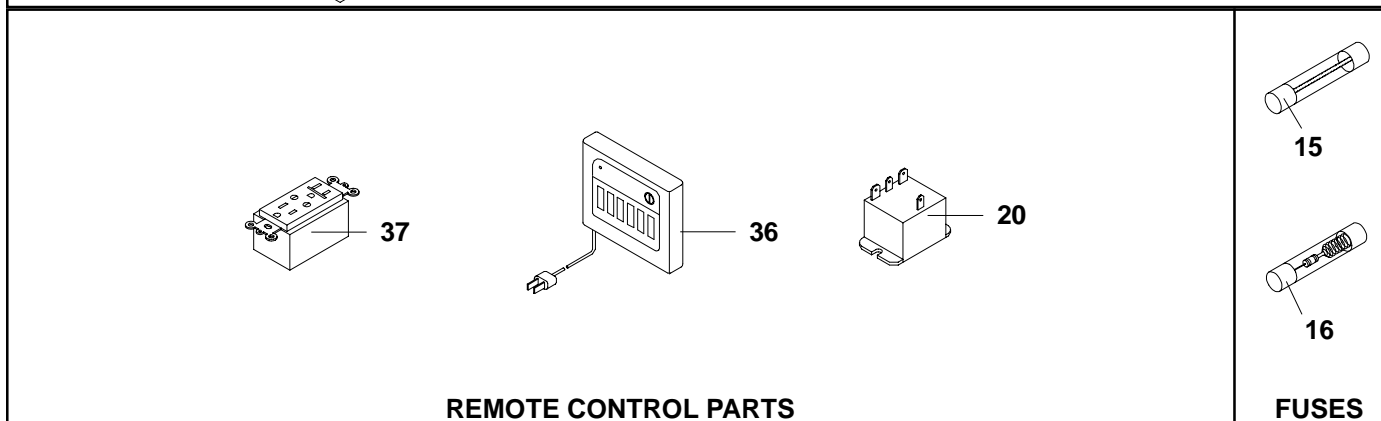
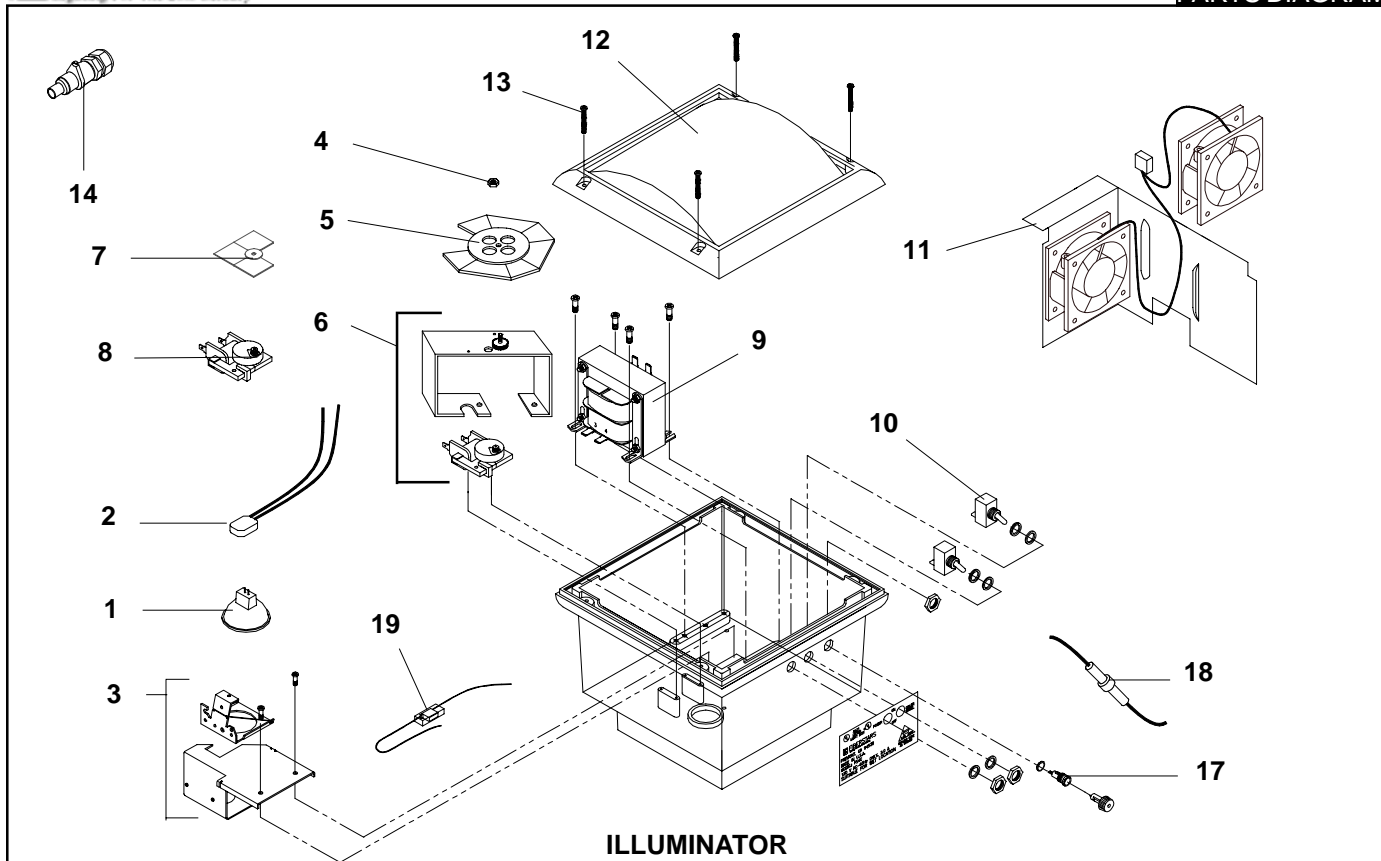
KEY	DESCRIPTION	PART#
1	LAMP	HI-111
2	LAMP SOCKET	B9155
3	COLOR WHEEL NUT	A8092
4	COLOR WHEEL ONLY	PTO3C
5	COLOR WHEEL MOTOR	A8935
6	COLOR WHEEL MOTOR FLANGE	A8633
7	COLOR WHEEL MOTOR FLANGE SCREW	A9150
8	TRANSFORMER, 120VAC - 19.7VAC	D9144E
9	TOGGLE SWITCH, 2-POSITION	A11526
10	FAN	A7002
11	TOP COVER	A11246
12	TOP COVER SCREW (#6-32 X .5")	A11603
13	TOP COVER NUT (#6-32)	A8092
14	FIBER PORT ASSY.	FS-108
15	FUSE, MAIN POWER, 2.5 AMP	A9182
16	FUSE HOLDER	A7012
17	THERMAL OVERLOAD ASSEMBLY, UNIVERSAL	Y30-0020

KEY	DESCRIPTION	PART#
35	COLOR WHEEL RELAY	A9163
36	REMOTE CONTROL TRANSMITTER	FS-126
37	REMOTE CONTROL RECEIVER	A9161

402/404 SERIES ILLUMINATOR



KEY	DESCRIPTION	PART#	KEY	DESCRIPTION	PART#
1A	LAMP/REFLECTOR ASSEMBLY-402	HID-304	19	SYNCH MASTER BOARD	C12467
1B	LAMP/REFLECTOR ASSEMBLY-404	HID-440	20	SYNCH SLAVE BOARD	C12468
2	COLOR WHEEL NUT	A8092	21	SYNCH COLOR WHEEL ONLY	A11690
3	COLOR WHEEL ONLY	PTO3C	22	SYNCH SENSOR	A9811
4	COLOR WHEEL MOTOR	A8935			
5	COLOR WHEEL MOTOR FLANGE	A8633			
6	COLOR WHEEL MOTOR FLANGE SCREW	A9150			
7	BALLAST/IGNITOR/CAPACITOR ASSEMBLY	B8150			
8	LIMITING SWITCH	A8151			
9	FAN (SMALL)	A8154			
10	FAN (LARGE)	B9467			
11	TOP COVER	A11246			
12	TOP COVER SCREW (#6-32 X .5")	A11603			
13	TOP COVER NUT (#6-32)	A8092			
14	FIBER PORT ASSY.	A9765			
17	THERMAL OVERLOAD ASSEMBLY, UNIVERSAL	Y30-0020			
18	COLOR WHEEL TRANSFORMER	C9516			



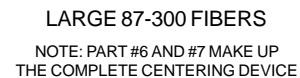
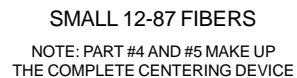
KEY	DESCRIPTION	PART#
1	LAMP	HI-109
2	LAMP SOCKET	B9155
3	LAMP BRACKET ASSY.	A11678
4	COLOR WHEEL NUT	A8092
5	COLOR WHEEL ONLY, 8 COLOR	A11213
6	COLOR WHEEL MOTOR ASSY., 8 COLOR	Y10-8005
7	COLOR WHEEL ONLY, 4 COLOR	PTO3D
8	COLOR WHEEL MOTOR, 4 COLOR	
9	TRANSFORMER, 120VAC - 19.7VAC	D9144E
10	TOGGLE SWITCH, 2-POSITION	A11526
11	FAN KIT (DUAL FAN UPGRADE)	FSRT-D
12	TOP COVER	A11604
13	TOP COVER SCREW (#6-32 X .75")	A11603
14	FIBER PORT ASSY.	A11212
15	FUSE, MAIN POWER, 2.5 AMP	A9182
16	FUSE, COLOR WHEEL MOTOR, .1 AMP	A11598
17	FUSE HOLDER FOR MAIN POWER (USE W/ A9182)	A7012
18	FUSE HOLDER FOR COLOR WHEEL (USE W/ A11598)	Y30-6900
19	THERMAL OVERLOAD ASSEMBLY, UNIVERSAL	Y30-0020

KEY	DESCRIPTION	PART#
	INSTALLATION BASE	E12312
	BASE TO CHASSIS SCREW (#8 X .5" THD FORMING)	A11246
20	COLOR WHEEL RELAY	A9163
36	REMOTE CONTROL TRANSMITTER	FS-126
37	REMOTE CONTROL RECEIVER	A9161



1A

1B



KEY	DESCRIPTION	PART#
1	BROADCAST LENS (TM)	B11458
1A	FIBER GLO LENS (R)	B10724
1B	EVEN GLO LENS (R)	B9937
2	O-RING, LARGE	A8892
3	O-RING, SMALL	A8891
	SMALL CENTERING DEVICE	
4	SMALL COMPRESSION FITTING WITH NUT	A9904
5	SMALL CENTERING DISK	A9787
	LARGE CENTERING DEVICE	
6	LARGE COMPRESSION FITTING WITH NUT	A9903
7	LARGE CENTERING DISK	A9792

[illegible]

ILLUMINATORS

Illuminators	<i>Lifetime</i>	6000	Lifetime Illuminator - Metal Halide White Light Only
	<i>Illuminator</i>	6004	Lifetime Illuminator - Metal-Halide 4-Position Color Wheel
		6008	Lifetime Illuminator - Metal-Halide 8-Position Color Wheel
		NEW! RM-6000	WIRELESS Remote Control System for Lifetime Illuminator
	NEW!	RM-6000-SP	Plug-in Sensor Pack For Auto Operation
	NEW!	RM-6000-TC	Plug-in Time Clock
		6008-M	Lifetime Illuminator - Metal-Halide MASTER SYNCH
		6008-S	Lifetime Illuminator - Metal-Halide SLAVE SYNCH
		6008-MR	Lifetime Illuminator - Metal-Halide MST SYNCH REMOTE
		6008-SR	Lifetime Illuminator - Metal-Halide SLV SYNCH REMOTE
<i>System</i> <i>2000</i>		2000	System2000 Quartz-Halogen White Light Only
		2004	System2000 Quartz-Halogen 4-Position Color Wheel
		2008	System2000 Quartz-Halogen 8-Position Color Wheel
		RM1	Remote Control - WIRELESS for System2000
		2008-M	System2000 Quartz-Halogen MASTER SYNCH
		2008-S	System2000 Quartz-Halogen SLAVE SYNCH
		2008-MR	System2000 Quartz-Halogen MST SYNCH REMOTE
		2008-SR	System2000 Quartz-Halogen SLV SYNCH REMOTE
<i>Feature</i> <i>Illuminator</i>		1500 (FI-W)	Feature Illuminator White Light Only
		1504 (FI-C)	Feature Illuminator Color, Manual
		RM1	Remote Control - WIRELESS for 1500 Series
<i>FS-250</i> <i>"shoe box"</i>		FS250-EG	Quartz-Hlgn 4-Position, Manual
		FS250-EGR	Quartz-Hlgn 4-Position, Remote



FIBER OPTIC CABLE

Pool Fiber Kits

150 Strand	B150K-7 (FG-150-7)	150 Strand, 7' kit.
	B150K-9 (FG-150-9)	150 Strand, 9' kit.
	B150K-12 (FG-150-12)	150 Strand, 12' kit.
	B150K-14 (FG-150-14)	150 Strand, 14' kit.
225 Strand	B225K-7 (FG-225-7)	225 Strand, 7' kit.
	B225K-9 (FG-225-9)	225 Strand, 9' kit.
	B225K-12 (FG-225-12)	225 Strand, 12' kit.
	B225K-14 (FG-225-14)	225 Strand, 14' kit.
300 Strand	B225K-18 (FG-225-18)	225 Strand, 18' kit.
	B300K-7 (FG-300-7)	300 Strand, 7' kit.
	B300K-9 (FG-300-9)	300 Strand, 9' kit.
	B300K-12 (FG-300-12)	300 Strand, 12' kit.
NEW!	B300K-14 (FG-300-14)	300 Strand, 14' kit.
	B300K-18 (FG-300-18)	300 Strand, 18' kit.


Supplemental Fiber Kits

25 Strand	B25K-8 (SF-KIT-8)	25 Strand, 8' Kit
	B25K-15 (SF-KIT-15)	25 Strand, 15' Kit
	B25K-25 (SF-KIT-25)	25 Strand, 25' Kit
50 Strand	B25K-40 (SF-KIT-40)	25 Strand, 40' Kit
	B50K-8 (SHD-KIT-8)	50 Strand, 8' Kit
	B50K-15 (SHD-KIT-15)	50 Strand, 15' Kit
	B50K-25 (SHD-KIT-25)	50 Strand, 25' Kit
75 Strand	B50K-40 (SHD-KIT-40)	50 Strand, 40' Kit
	B50K-50 (SHD-KIT-50)	50 Strand, 50' Kit
	B75K-8 (BPF-KIT-8)	75 Strand, 8' Kit
	B75K-15 (BPF-KIT-15)	75 Strand, 15' Kit
100 Strand	B75K-25 (BPF-KIT-25)	75 Strand, 25' Kit
	B75K-40 (BPF-KIT-40)	75 Strand, 40' Kit
	B50K-50 (BPF-KIT-50)	75 Strand, 50' Kit
	B75K-60 (BPF-KIT-60)	75 Strand, 60' Kit
	B100K-8 (B100-KIT-8)	100 Strand, 8' Kit
	B100K-15 (B100-KIT-15)	100 Strand, 15' Kit
	B100K-25 (B100-KIT-25)	100 Strand, 25' Kit
	B100K-40 (B100-KIT-40)	100 Strand, 40' Kit
	B100K-50 (B100-KIT-50)	100 Strand, 50' Kit
	B100K-60 (B100-KIT-60)	100 Strand, 60' Kit


Bulk Fiber Rolls

12 Strand	BULK	B12-250 (BAF-250)	12 strand fiber, 250' roll
		B12-125 (BAF-125)	12 strand fiber, 125' roll
		B-12 (BAF)	12 strand fiber, by the foot
25 Strand	BULK	B25-250 (BSF-250)	25 Strand Fiber, 250' Roll
		B25-125 (BSF-125)	25 Strand Fiber, 125' Roll
		B25 (BSF)	25 Strand Fiber, By The Foot
50 Strand	BULK	B50-500	50 Strand Fiber, 500' Roll
		B50-250	50 Strand Fiber, 250' Roll
		B50-125	50 Strand Fiber, 125' Roll
		B50	50 Strand Fiber, By The Foot
75 Strand	BULK	B75-500 (BPF-500)	75 Strand Fiber, 500' Roll
		B75-250 (BPF-250)	75 Strand Fiber, 250' Roll
		B75-125 (BPF-125)	75 Strand Fiber, 125' Roll
		B75 (BPF)	75 Strand Fiber, By The Foot
100 Strand	BULK	B100-500	100 Strand Fiber, 500' Roll
		B100-250	100 Strand Fiber, 250' Roll
		B100-125	100 Strand Fiber, 125' Roll
		B100	100 Strand Fiber, By The Foot
150 Strand	BULK	B150-250 (FGF-250)	150 Strand Fiber, 250' Roll
		B150 -50 (FGF-50)	150 Strand Fiber, 50' Roll
		B150 (FGF)	150 Strand Fiber, By The Foot
225 Strand	BULK	B225-250 (FGF-HD-250)	225 Strand Fiber, 250' Roll
		B225-50 (FGF-HD-50)	225 Strand Fiber, 50' Roll
		B225 (FGF-HD)	225 Strand Fiber, By The Foot
300 Strand	BULK	B300-250	300 Strand Fiber, 250' Roll
		B300-50	300 Strand Fiber, 50' Roll
		B300	300 Strand Fiber, By The Foot

LENS HOUSINGS AND FEATURE LIGHTS

Lens Kits

Gunite-White

LNS-G

Lens Housing for Gunite - White



Gunite-Black

LNS-GB

Lens Housing for Gunite - Black



Gunite-Insider

LNS-GI

Lens Housing for Gunite - Insider



Vinyl Liner

LNS-V

Lens Housing for Vinyl - White



Acrylic/Fib

LNS-A

Lens Housing for Acrylic - White



Feature Light

FLG

Feature Light for Gunite, Grey



FLW

Feature Light for Gunite, White



FLW-V

Feature Light for Vinyl, White



FLW-A

Feature Light for Fib., White



WATER FEATURES AND ACCESSORIES

Fiberstars Falls	12" Wide	LF12-15	Fiberstars Falls, 12" Wide, with 15'
		LF12-25	Fiberstars Falls, 12" Wide, with 25'
		LF12-40	Fiberstars Falls, 12" Wide, with 40'
	18" Wide	LF18-15	Fiberstars Falls, 18" Wide, with 15'
		LF18-25	Fiberstars Falls, 18" Wide, with 25'
		LF18-40	Fiberstars Falls, 18" Wide, with 40'
	24" Wide	LF24-15	Fiberstars Falls, 24" Wide, with 15'
		LF24-25	Fiberstars Falls, 24" Wide, with 25'
		LF24-40	Fiberstars Falls, 24" Wide, with 40'
	NEW! 36" Wide NEW! NEW!	LF36-15	Fiberstars Falls, 36" Wide, with 15'
		LF36-25	Fiberstars Falls, 36" Wide, with 25'
		LF36-40	Fiberstars Falls, 36" Wide, with 40'
	NEW! 48" Wide NEW! NEW!	LF48-15	Fiberstars Falls, 48" Wide, with 15'
		LF48-25	Fiberstars Falls, 48" Wide, with 25'
		LF48-40	Fiberstars Falls, 48" Wide, with 40'



Wall Features	<i>FiberDisk</i>	FD-WAVE	FiberDisk Clear Disk-Wave
		FD-DOLP	FiberDisk Clear Disk-Dolphin
		FD-PALM	FiberDisk Clear Disk-Palm Tree
		FDF-15	FiberDisk Frame with 15' fiber
		FDF-25	FiberDisk Frame with 25' fiber
		FDF-40	FiberDisk Frame with 40' fiber
		FDF-60	FiberDisk Frame with 60' fiber

<i>FiberSconce</i>	WS1-15	FiberSconce with 15' fiber
	WS1-25	FiberSconce with 25' fiber
	WS1-40	FiberSconce with 40' fiber
	WS1-60	FiberSconce with 60' fiber

Fiber Fountain	<i>Fiber Fountain</i>	FF-G	Fiber Fountain, for Gunite
		FF-V	Fiber Fountain, for Vinyl
		FF-A	Fiber Fountain, for Fib/Acrylic

Landscape Lighting	<i>StarGlo</i>	SG-100	Star Glo Landscape Fixture
		SG-KIT-15	Star Glo Kit - 25 strand, 15'
		SG-KIT-25	Star Glo Kit - 25 strand, 25'
		SG-KIT-40	Star Glo Fixture Kit - 25 strand, 40'
	<i>Fiberstix</i>	FSTX-6	Fiberstix Landscape Fixture
		STX-KIT-4A	Fiberstix kit with 4 fixtures
		STX-KIT-4B	Fiberstix kit with 4 fixtures
		STX-KIT-6	Fiberstix kit with 6 fixtures

PERIMETER FIBER

Perimeter Fiber	<i>Flat-Back</i>	FSSB-1000	30 Strand, 1000' Roll
		FSSB-500	30 Strand, 500' Roll
		FSSB-200	30 Strand, 200' Roll
		FSSB-150	30 Strand, 150' Roll
		FSSB-125	30 Strand, 125' Roll
		FSSB	30 Strand, by the foot
	<i>Flat-Back</i>	FSEO-1000	21 Strand, 1000' Roll
		FSEO-500	21 Strand, 500' Roll
		FSEO-200	21 Strand, 200' Roll -
		FSEO-150	21 Strand, 150' Roll
		FSEO-125	21 Strand, 125' Roll
		FSEO	21 Strand, by the foot
<i>Flat-Back</i>		FSCA-200	30 Strand, 200' Roll
		FSCA-150	30 Strand, 150' Roll
		FSCA-125	30 Strand, 125' Roll
		FSCA	30 Strand, by the foot
<i>Flat-Back</i>		FSSB-CBL42-1000	42 Strand CABLED, 1000' Roll
		FSSB-CBL42-500	42 Strand CABLED, 500' Roll
		FSSB-CBL42-200	42 Strand CABLED, 200' Roll
		FSSB-CBL42-150	42 Strand CABLED, 150' Roll
		FSSB-CBL42-125	42 Strand CABLED, 125' Roll
		FSSB-CBL42	42 Strand CABLED, by the foot
	<i>Round</i>	CBL42-1000	42 Strand CABLED, 1000' Roll
		CBL42-500	42 Strand CABLED, 500' Roll
		CBL42-200	42 Strand CABLED, 200' Roll
		CBL42-150	42 Strand CABLED, 150' Roll
		CBL42-125	42 Strand CABLED, 125' Roll
		CBL42	42 Strand CABLED, by the foot

Perimeter Track	TRK-OWW50	50' White Track
	TRK-OVC50	50' Clear Track
	TRK-BBW50	50' White Bond Beam Track
	TRK-VLW100	100' Vinyl Liner Track 4' sections
	FS-130	165' Roll clear double-sided tape
	FS-136	10.3 oz. tube of Oxime-cure silicone
	FS-138	Case of 24 Oxime-cure silicone
	FS-120	Clear finish fitting for perimeter
	FS-134	Acrylic step entry fitting
	FS-139	Acrylic step kit
	FS-156	White adapter disk for LNS-A

TOOLS AND PARTS

Tools/Misc

Parts

FS-118	Heavy Duty Hot Knife, 60 Watt
FS-118A	Pkg. Of 5 Replacement Blades
FS-115	Disposable Epoxy Kit
FS-117	Lens Tightening Tool NEW!
A9792/A9903	Centering device "large"
A9787/A9904	Centering device "small"
B10724	Fiber Glo® lens only
B11458	Broadcast lens only
B9937	Even Glo® lens only
A8891	Lens o-ring, small
A8892	Lens o-ring, large
A10689	COLOR WHEEL MOTOR FS4
A10690	COLOR WHEEL MOTOR 3.6 RPM 19.7V FS250/ FS3 (LATE)
A10711	SCREW COVER FS4/FS5
A10751	PORT ASSEMBLY FS4
A10759	TOP ASSEMBLY FS4
A10980	PORT ASSEMBLY 2000
A11212	PORT ASSEMBLY FS5
A11213	COLOR WHEEL FS5/2008
A11216	TOP ASSEMBLY FS5
A11218	COLOR WHEEL MOTOR ASSEMBLY FS5
A11246	SCREW CHASSIS TO BASE FS4/FS5/2000/6000
A11285	LAMP BRACKET ASSEMBLY FS4/FS5
A11526	TOGGLE SWITCH 3 POSITION
A11598	FUSE 1/10A AUTO-CONTROL 2000/6000
A11603	SCREW COVER 2000/6000
A11604	TOP ASSEMBLY 2000
A11678	LAMP HOLDER ASSEMBLY FOR 2000
A11690	COLOR WHEEL FS5/2008 SYNC UNITS
A12240	PORT ASSEMBLY 6000
A12269	FUSE 7A MAIN POWER 6000
A12679	COLOR WHEEL SYNC UNITS (6000 VER.3)/(2000 VER.2)
A7002	FAN (FS250, FS3, ALL 2000, ALL 6000)
A7003	FAN CORD
A7012	FUSE HOLDER
A8092	COLOR WHEEL NUT (ALL MODELS)
A8122	SCREW COVER FS250
A8154	FAN 120V FS4/FS5 (OLD STYLE) REPLACE WITH FSRT-D
A8630	COLOR WHEEL MOTOR 3.6 RPM 19.7V
A8633	COLOR WHEEL MOTOR FLANGE
A8935	COLOR WHEEL MOTOR 1.0 RPM 19.7V
A9150	SCREW FOR COLOR WHEEL MOTOR FLANGE
A9161	X-10 RECEIVER MODULE
A9163	RELAY COLOR WHEEL
A9173	TOGGLE SWITCH 2 POSITION
A9182	FUSE 2.5A MAIN POWER
A9506	SCREWS FOR PANEL/ LID FS3
A9521	SPRING CLIP FOR LAMP FS3
A9547	MAGNET FOR SYNC COLOR WHEEL
A9811	SENSOR FOR SYNC UNITS
A9881	THERMAL OVERLOAD/FUSE ASSEMBLY FS3
B7094	FRONT PANEL (PORT END) FOR FS250
B9084	CLIP FOR FIBER PORT FS3
B9155	LAMP SOCKET - ALL QUARTZ-HALOGEN UNITS
NLA	LEXAN COVER SHADED FS3
C12467	CIRCUIT BOARD MASTER (REPLACES C11227)
C12468	CIRCUIT BOARD SLAVE (REPLACES C-9514)
C9171	BACK PANEL (CORD END) FOR FS250
C9516	TRANSFORMER C/W MOTOR 6008 SYNC UNITS
D10638	TOP ASSEMBLY SOLID BLACK FS4/FS5
D12028	FAN BAFFLE 2000
D9144E	TRANSFORMER 125V, FOR ALL QUARTZ-HALOGEN UNITS
D9577	TOP ASSEMBLY FS3
E12312	BOTTOM ASSEMBLY 2000/6000
E8004	BOTTOM ENCLOSURE FS250
E9167	TOP ENCLOSURE FS250
FS-108	PORT ASSEMBLY FS250
FS-115	DISPOSABLE EPOXY KIT
FS-122	PORT ASSEMBLY FS3
FS-126	X-10 4 BUTTON TRANSMITTER
FS-128	X-10 2 BUTTON WIRELESS OPTION
FS-162	INSTALLATION BASE FS4/FS5