

# CHAPMAN-HUFFMAN, INC.

## LIGHT CONTROL SYSTEM



### Light Control System

55-810-00

- System incl. light control, remote intensity control, transformer, transformer cord and installation kit
- **NOTE! Handpiece tubing must be ordered separately (See list below)**
- This system operates a bright white light with a small lamp in the handpiece connector
- Halogen Lamp 3.5 V 720 MA
- Power Transformer 120 VAC 60Hz 17 W Output 12 VAC 830 MA
- Light control output 3.0 to 4.5 VDC
- The light can be activated by either foot control or automatic handpiece holder pilot air with the flick of a switch
- Operates up to two handpieces
- Time delay feature built-in (twelve second time delay when installed in foot control activation mode)
- Adjustable intensity control can be remote mounted
- Compact size 1 1/16 high X 4 3/8 long X 2 3/4 wide



Note: Conventional tubing used on both straight and coiled tubing assemblies listed below

### ORDER SEPARATELY HANDPIECE ILLUMINATION TUBING WITH LAMP

<b>Black Coiled</b>	<b>55-055-00</b>
<b>Black Straight</b>	<b>55-015-00</b>
<b>Gray Coiled</b>	<b>55-455-00</b>
<b>Gray Straight</b>	<b>55-415-00</b>
<b>Surf Coiled</b>	<b>55-355-00</b>
<b>Surf Straight</b>	<b>55-315-00</b>
<b>Sterling Coiled</b>	<b>55-555-00</b>
<b>Sterling Straight</b>	<b>55-515-00</b>
<b>Surf 6 Coiled</b>	<b>55-655-00</b>
<b>Surf 6 Straight</b>	<b>55-615-00</b>

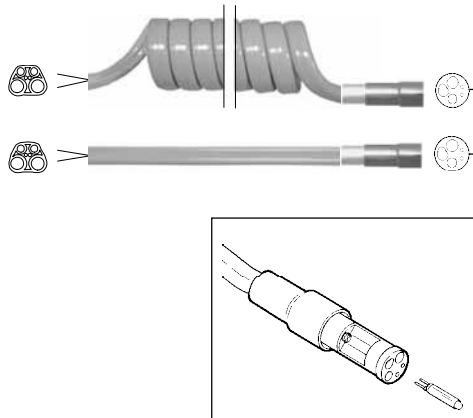
### REPLACEMENT PARTS

<b>Light Control Only</b>	<b>55-811-00</b>
<b>Halogen Lamp</b>	<b>16-056-00</b>
<b>Remote Intensity Control</b>	<b>55-812-00</b>
<b>Transformer</b>	<b>55-813-00</b>
<b>Transformer Cord Assembly</b>	<b>55-814-00</b>
<b>Installation Kit</b>	<b>55-815-00</b>

**800-225-4621**

# CHAPMAN-HUFFMAN, INC.

## HANDPIECE ILLUMINATION SYSTEM - LAMP STYLE W/ CONVENTIONAL ASEPSIS TUBING



Note: Conventional tubing used on handpiece tubing assemblies listed

### LAMP SYSTEM WITH COILED OR STRAIGHT CONVENTIONAL HANDPIECE TUBING

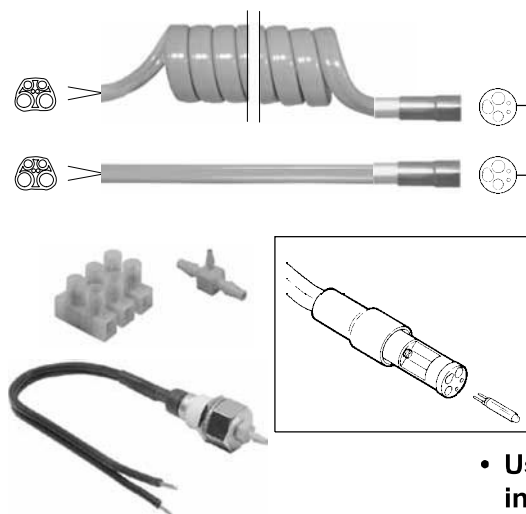
<u>TUBING TYPE</u>	<u>120 VOLT</u>
<i>Black Coiled</i>	<i>55-050-00</i>
<i>Black Straight</i>	<i>55-010-00</i>
<i>Gray Coiled</i>	<i>55-450-00</i>
<i>Gray Straight</i>	<i>55-410-00</i>
<i>Surf Coiled</i>	<i>55-350-00</i>
<i>Surf Straight</i>	<i>55-310-00</i>
<i>Sterling Coiled</i>	<i>55-550-00</i>
<i>Sterling Straight</i>	<i>55-510-00</i>

(7 Ft. tubing standard, 12 Ft. special available)

- This Handpiece Illumination System Kit is easily installed to any handpiece control.
- System is activated from handpiece drive air line back pressure. Handpiece connector will adapt to all standard (5 hole MIDWEST) pattern fiber optic handpieces. Halogen lamp provides intense white light for intra-oral use.
- ISO standard metal fiber optic handpiece terminal 5 hole MIDWEST pattern with stainless steel nut
- Conventional asepsis style lightweight, flexible 7 ft. handpiece tubing (12 ft. special available)
- Halogen lamp 3.5V, 720MA
- Power transformer 120VAC, output 3.7 VAC, 720MA
- Air electric switch
- Installation hardware and instructions

# CHAPMAN-HUFFMAN, INC.

## HANDPIECE ILLUMINATION TUBING KIT



<b>Black Coiled</b>	<b>55-057-00</b>
<b>Black Straight</b>	<b>55-017-00</b>
<b>Gray Coiled</b>	<b>55-457-00</b>
<b>Gray Straight</b>	<b>55-417-00</b>
<b>Surf Coiled</b>	<b>55-357-00</b>
<b>Surf Straight</b>	<b>55-317-00</b>
<b>Sterling Coiled</b>	<b>55-557-00</b>
<b>Sterling Straight</b>	<b>55-517-00</b>

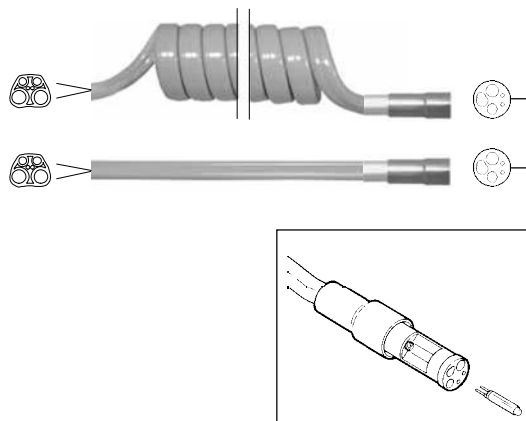
(7 Ft. tubing standard,  
12 Ft. special available)



Note: Conventional tubing  
used on handpiece tubing  
assemblies listed

- Used to add extra handpiece Illumination Tubing Assembly to the Chapman-Huffman Handpiece Illumination Lamp Style System
- ISO standard metal fiber optic handpiece terminal (5 hole MIDWEST) pattern with stainless steel nut
- Conventional asepis style lightweight, flexible 7 ft. handpiece tubing (12 ft. special available)
- Halogen lamp 3.5V, 720MA
- Air electric switch
- Installation hardware and instructions

## HANDPIECE ILLUMINATION REPLACEMENT TUBING WITH LAMP



<b>Black Coiled</b>	<b>55-055-00</b>
<b>Black Straight</b>	<b>55-015-00</b>
<b>Gray Coiled</b>	<b>55-455-00</b>
<b>Gray Straight</b>	<b>55-415-00</b>
<b>Surf Coiled</b>	<b>55-355-00</b>
<b>Surf Straight</b>	<b>55-315-00</b>
<b>Sterling Coiled</b>	<b>55-555-00</b>
<b>Sterling Straight</b>	<b>55-515-00</b>
<b>Surf 6 Coiled</b>	<b>55-655-00</b>
<b>Surf 6 Straight</b>	<b>55-615-00</b>

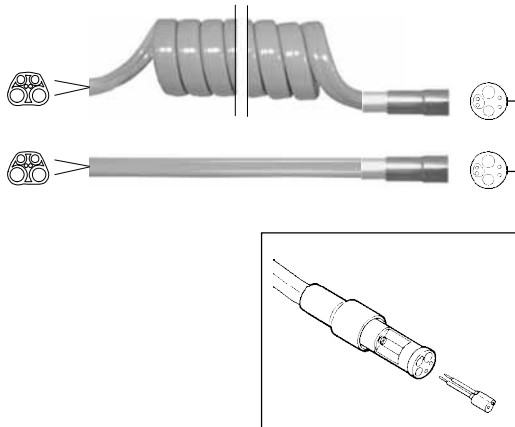
(7 Ft. tubing standard, 12 Ft. special available)

- Conventional tubing as pictured with separate drive air, water, chip air & exhaust, extruded in one tubing
- Replaces tubing assembly in Chapman-Huffman's Handpiece Illumination system Lamp Style & others
- ISO Standard metal fiber optic Handpiece terminal (5 hole MIDWEST) pattern with stainless steel nut.
- Conventional asepis style lightweight flexible 7 ft. handpiece tubing (12 ft. special available)
- Halogen Lamp 3.5V, 720MA, may be used with AC or DC voltage

**800-225-4621**

# CHAPMAN-HUFFMAN, INC.

## HANDPIECE ILLUMINATION REPLACEMENT TUBING W/ ISO TYPE C ADAPTER



<b>Black Coiled</b>	<b>55-056-00</b>
<b>Black Straight</b>	<b>55-016-00</b>
<b>Gray Coiled</b>	<b>55-456-00</b>
<b>Gray Straight</b>	<b>55-416-00</b>
<b>Surf Coiled</b>	<b>55-356-00</b>
<b>Surf Straight</b>	<b>55-316-00</b>
<b>Sterling Coiled</b>	<b>55-556-00</b>
<b>Sterling Straight</b>	<b>55-516-00</b>
<b>Surf 6 Coiled</b>	<b>55-656-00</b>
<b>Surf 6 Straight</b>	<b>55-616-00</b>

**(7 Ft. tubing standard, 12 Ft. special available)**

- Conventional tubing as pictured with separate drive air, water, chip air and exhaust, extruded in one tubing
- Replaces 7 ft. tubing assembly in systems requiring ISO-C adapter (12 ft. special available)
- ISO-C standard metal fiber optic handpiece terminal with stainless steel nut
- Adapts BIEN-AIR, KAVO, W&H, MIDWEST XGT and other handpieces

## SWIVEL COUPLER

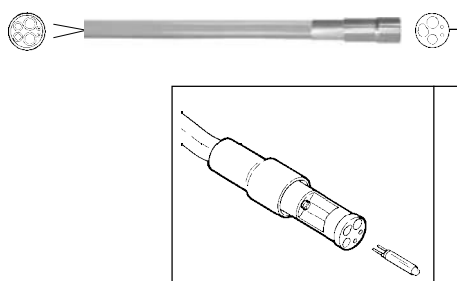


	<b>20-079-00</b>
<b>Replacement Bulb Only</b>	<b>16-061-00</b>

- KAVO style handpiece Coupler
- 6-Pin, Bulb in Coupler Style Swivel
- Bulb included with Coupler
- Fits Chapman-Huffman 6-Pin tubing and others
- KAVO Cross ref. # 465LRN/553-1550

# CHAPMAN-HUFFMAN, INC.

## EURO HANDPIECE ILLUMINATION SYSTEM - LAMP STYLE

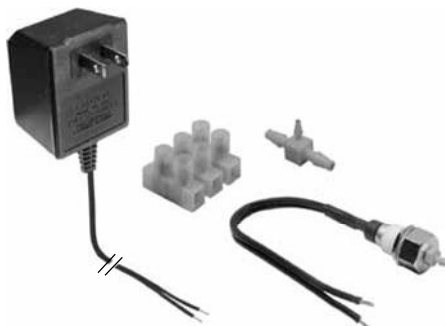


### LAMP SYSTEM STRAIGHT TUBING TYPE

**120 VOLT**

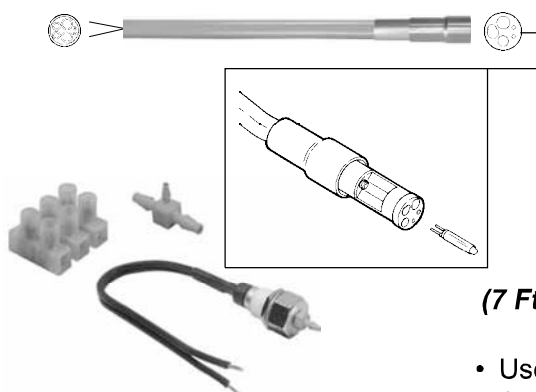
<b>Black Straight</b>	<b>55-001-00</b>
<b>Gray Straight</b>	<b>55-400-00</b>
<b>Surf Straight</b>	<b>55-300-00</b>
<b>Surf 6 Straight</b>	<b>55-600-00</b>

**(7 Ft. tubing standard, 12 Ft. special available)**



- This Handpiece Illumination System Kit is easily installed to any handpiece control.
- System is activated from handpiece drive air line back pressure. Handpiece connector will adapt to all standard 5 hole MIDWEST pattern fiber optic handpieces. Halogen lamp provides intense white light for intra-oral use.
- ISO standard metal fiber optic handpiece terminal (5 hole MIDWEST) pattern with stainless steel nut
- Euro asepsis style lightweight, flexible 7 ft. handpiece tubing (12 ft. special available)
- Halogen lamp 3.5V, 720MA
- Power transformer 120 VAC output 3.7 VAC, 720 MA
- Air electric switch
- Installation hardware and instructions

## EURO HANDPIECE ILLUMINATION TUBING KIT



<b>Black Straight</b>	<b>55-007-00</b>
<b>Gray Straight</b>	<b>55-407-00</b>
<b>Surf Straight</b>	<b>55-307-00</b>
<b>Surf 6 Straight</b>	<b>55-607-00</b>

**(7 Ft. tubing standard, 12 Ft. special available)**

- Used to add extra handpiece Illumination Tubing Assembly to the Chapman-Huffman Euro Illumination Lamp Style System
- ISO standard metal fiber optic handpiece terminal. (5 hole MIDWEST) pattern with stainless steel nut
- Euro asepsis style lightweight, flexible 7 ft. handpiece tubing (12 ft. special available)
- Halogen lamp 3.5V, 720MA
- Air electric switch
- Installation hardware and instructions

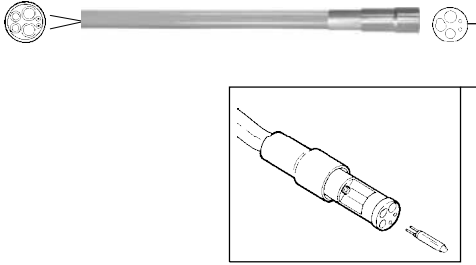
**800-225-4621**

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FIBER OPTICS

# CHAPMAN-HUFFMAN, INC.

## EURO HANDPIECE ILLUMINATION REPLACEMENT TUBING WITH LAMP



**Black Straight** 55-005-00

**Gray Straight** 55-405-00

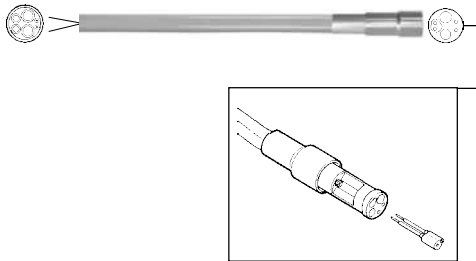
**Surf Straight** 55-305-00

**Surf 6 Straight** 55-605-00

**(7 Ft. tubing standard, 12 Ft. special available)**

- Used to replace tubing assembly in Chapman-Huffman's Handpiece Illumination System - Lamp Style and others
- ISO standard metal fiber optic handpiece terminal (5 hole MIDWEST) pattern with stainless steel nut
- Euro asepsis style lightweight, flexible 7 ft. handpiece tubing (12 ft. special available)
- Halogen lamp 3.5V, 720MA
- Lamp may be used with AC or DC voltage

## EURO HANDPIECE ILLUMINATION REPLACEMENT TUBING WITH ISO TYPE C ADAPTER



**Black Straight** 55-006-00

**Gray Straight** 55-406-00

**Surf Straight** 55-306-00

**Surf 6 Straight** 55-606-00

**(7 Ft. tubing standard, 12 Ft. special available)**

- Used to replace tubing assembly in systems requiring ISO-C adapter
- Euro style 7 ft. tubing (12 ft. special available)
- ISO-C standard metal fiber optic handpiece terminal with stainless steel nut
- Adapts BIEN-AIR, KAVO, W&H, MIDWEST XGT and other handpieces

## HALOGEN LAMP



**16-056-00**

- Use in Chapman-Huffman handpiece Illumination System - Lamp Style
- Lamp specifications:  
3.5 V, 720 MA Body Dia, .160" (4.07mm)  
Overall Length .856" (21.74mm) Pin Length .170" (4.32mm) Pin Dia, .020" (.51mm)  
May be used with AC or DC voltage

## ISO TYPE C ADAPTER



**016-75-00**

- Easily converts Chapman-Huffman handpiece illumination tubing **connectors** from American ISO standard to European ISO-C standard. Adapts to BIEN-AIR, KAVO, W&H, MIDWEST XGT and other handpieces

# CHAPMAN-HUFFMAN, INC.

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## SWIVEL COUPLER



### Replacement Bulb Only

20-079-00

16-061-00

- KAVO style handpiece Coupler
- 6-Pin, Bulb in Coupler Style Swivel
- Bulb included with Coupler
- Fits Chapman-Huffman 6-Pin tubing and others
- KAVO Cross ref. # 465LRN/553-1550

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## TRANSFORMER



### 120 Volt

016-84-00

- Replaces transformers used in Chapman-Huffman Handpiece Illumination System - Lamp Style
- Output 3.7 VAC @ 720MA (**When installed in Chapman-Huffman system with lamp lit**)

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## HANDPIECE ILLUMINATION SYSTEM INSTALLATION KIT



95-326-00

- Power transformer 120VAC, Output 3.7 VAC, 720MA
- Air Electric Switch
- Installation hardware and instructions
- With this kit, and ordering **separately** any 55 Series Handpiece Illumination replacement tubing with ISO Type C adapter, you can make your own Handpiece Illumination System with conventional tubing or Euro style tubing.

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## HANDPIECE ADD ON INSTALLATION KIT



95-310-00

- With this kit and ordering **separately** any 55 Series Handpiece Illumination Replacement Tubing, with ISO-C type adapter, or lamp style replacement tubing, you can make your own Handpiece Illumination Tubing Kit, with conventional tubing or Euro style tubing

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## AIR ACTUATED ELECTRIC SWITCH ASSEMBLY



### Normally Open

12-725-00

- 120V, 5 amp switch
- Requires 10 PSI for activation
- 1/16" barb fitting
- 18 AWG wire, 6"
- Mounting hardware 15/32-32 thread with nut

**800-225-4621**



# CHAPMAN-HUFFMAN, INC.

## TERMINAL STRIP ASSEMBLY



**95-002-00**

- 3 pole terminal strip accepts 20-14 AWG wire with screw clamp connections
- Used for Chapman-Huffman Illumination System wire connections
- Includes mounting tape and mounting screw

## KAVO KL700 ELECTROTORQUE PLUS STYLE TUBING ASSEMBLY

**55-730-00**



- Fits KAVO KL701 Brushless Electric Motor
- Features water flow control at connector
- Very light gray in color
- Supplied without 5-position green electrical connector or ferrite bead.
- KAVO cross ref. # 1001.9081

## 5-POSITION ELECTRICAL CONNECTOR

**016-58-00**



**NEW!**

- Fits KAVO KL700 ELECTROTORQUE PLUS Tubing

## FERRITE BEAD

**016-59-00**



**NEW!**

- Suppression filter used to reduce electrical noise
- Used on KAVO KL700 ELECTROTORQUE PLUS Tubing

## REPLACEMENT TUBING LAMP MODULE STYLE WITH LONG NUT

**Gray**

**55-715-00**



- Straight replacement tubing ISO - B lamp module style (internal) for the following:  
MIDWEST old style light-pak system  
KINETIC # 1211 ISO -B Light source straight tubings  
HENRY SCHEIN MASTERLIGHT ISO-B (5 hole) tubing
- Long stainless steel handpiece nut to accept lamp module
- Includes lamp module assembly 5-hole 16-070-00 (sold on pg. 17) 3.5V 720MA
- Standard length 5 ft.



# CHAPMAN-HUFFMAN, INC.

## FIBER OPTIC ILLUMINATOR AND TRANSFORMER

60-535-00



### REPLACEMENT COMPONENTS

**Fiber Optic Illuminator** 60-540-00

**Illuminator Transformer** 60-545-00

**Connecting Cable Assembly** 60-546-00

**Lamp Replacement** 16-411-00



- More compact size for additional applications
- Connections for one, two, or three fiber optic handpiece tubings
- Designed to mount to new or existing dental units
- Fiber Optic Illuminator mounts near the unit head to provide illumination through a fiber optic tubing assembly with a fiber optic bundle (**tubing assembly not included**)
- A switch on the Illuminator selects between medium and high intensity
- The fiber optic Illuminator can be set for auto holder or foot control activation, at time of installation
- Includes 120 VAC transformer with power cord
- Connecting cable supplies low voltage electrical power to the Illuminator from the transformer
- Installation hardware packet and instruction booklet included
- Illuminator Dimensions 2" high X 3" wide X 6 1/4" long
- Transformer Dimensions 2 7/8" high X 3 3/8" wide X 3 1/2" long
- White finish

## LIGHT SOCKET ASSEMBLY

60-542-00



- Light socket fits Chapman-Huffman 60-540-00, Fiber Optic Illuminator

FIBER OPTICS

**800-225-4621**

FAX 800-836-2765 • WWW.CHAPMAN-HUFFMAN.COM • EMAIL: [ORDERS@CHAPMAN-HUFFMAN.COM](mailto:ORDERS@CHAPMAN-HUFFMAN.COM)

# CHAPMAN-HUFFMAN, INC.

## LIGHT SOURCE FOOT CONTROL ACTIVATED



(2 HP LIGHT SOURCE SHOWN)

**2 HP Foot Control Activated 60-575-00**

**3 HP Foot Control Activated 60-580-00**

- Foot control activated
- Connections for two or three handpieces
- High intensity adjustable white light
- Uses standard bulb (16-410-00)
- Compact size
- Dimensions: 7 1/2" X 3 1/2" X 4 1/2"
- Weighs 3 pounds
- Fan cooled
- White housing

## LIGHT SOURCE AUTO HOLDER ACTIVATED



(3 HP LIGHT SOURCE SHOWN)

**2 HP Auto Holder Activated 60-585-00**

**3 HP Auto Holder Activated 60-590-00**

- Auto holder activated (when fiber optic handpiece is picked up from auto pilot valve holder, light source will turn on automatically)
- Connections for two or three handpieces
- High intensity adjustable white light
- Uses standard bulb (16-410-00)
- Compact size
- Dimensions: 7 1/2" X 3 1/2" X 4 1/2"
- Weighs 3 pounds
- Fan cooled
- White housing

## SWIVEL COUPLER

**20-077-00**



- **This coupler works on the four Fiber Optic Handpiece Tubings on the next page (pg. 79)**
- KAVO style handpiece Coupler
- 5 hole Fiber Optic Standard Swivel
- Used with a fiber optic tubing having a fiber optic bundle to convey light to the Coupler & Handpiece
- KAVO Cross ref. # 1390/553-1390

FIBER OPTICS

**800-225-4621**

# CHAPMAN-HUFFMAN, INC.

## STANDARD STRAIGHT 'WITH' TOUCH CONTROL WIRE - ASEPSIS TUBING



### TUBING SIZE      PART NUMBER BY COLOR ALL WITH METAL CONNECTORS

5' tubing w/ 7' bundle	Surf	54-300-00
	Gray	54-400-00
7' tubing w/ 9' bundle	Black	54-002-00
	Surf	54-301-00
10' tubing w/ 12' bundle	Gray	54-401-00
	Black	54-003-00
12' tubing w/ 14' bundle	Surf	54-302-00
	Gray	54-402-00
	Black	54-004-00
	Surf	54-303-00
	Gray	54-403-00
	Surf 6	54-603-00

## STANDARD COILED 'WITH' TOUCH CONTROL WIRE - ASEPSIS TUBING



7' tubing w/12' bundle	Black	54-051-00
7' tubing w/ 14' bundle	Black	54-052-00
	Surf	54-352-00
	Gray	54-452-00
	Surf 6	54-652-00

## STANDARD STRAIGHT - ASEPSIS TUBING



5' tubing w/ 7' bundle	Gray	53-400-00
7' tubing w/ 9' bundle	Surf	53-301-00
	Gray	53-401-00
10' tubing w/ 12' bundle	Surf	53-302-00
	Gray	53-402-00
12' tubing w/ 14' bundle	Black	53-004-00
	Surf	53-303-00
	Gray	53-403-00

## STANDARD COILED - ASEPSIS TUBING



7' tubing w/ 14' bundle	Black	53-052-00
	Surf	53-352-00
	Gray	53-452-00

**800-225-4621**

# CHAPMAN-HUFFMAN, INC.

## LAMP HOLDER SOCKET ASSEMBLY HIGH VOLTAGE

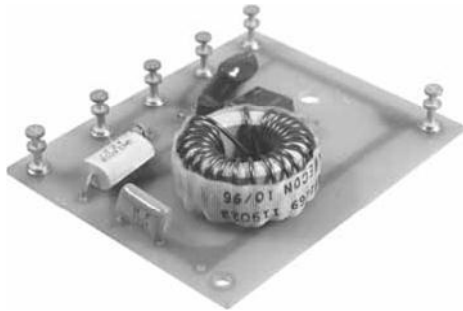
60-601-00



- Fits Chapman-Huffman Light Source 60-575-00, 60-580-00, 60-585-00 and 60-590-00 and others
- 120 volt - **high voltage** rated
- 300 volt max
- Also fits other high voltage applications
- Socket is designed to the ANSI codes and international standards
- Lamp holders are UL and CSA approved

## DIMMER CIRCUIT BOARD

60-610-00



- Fits Chapman-Huffman light sources 60-575-00, 60-580-00, 60-585-00 and 60-590-00
- 120 volt

## FAN MOTOR

60-606-00



- Fits Chapman-Huffman light sources 60-575-00, 60-580-00, 60-585-00 and 60-590-00
- Keeps light source cool
- 120 VAC

## FAN MOTOR IMPELLER

60-607-00



- Fits Chapman-Huffman light sources 60-575-00, 60-580-00, 60-585-00 and 60-590-00
- Black color

## POTENTIOMETER WITH SWITCH

60-604-00



- Fits Chapman-Huffman light sources 60-575-00, 60-580-00, 60-585-00 and 60-590-00
- Light intensity adjustment component
- 250K potentiometer with DPST switch
- Knob not included

# CHAPMAN-HUFFMAN, INC.

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## THERMAL FUSE



**60-605-00**

- Fits Chapman-Huffman light sources 60-575-00, 60-580-00, 60-585-00 and 60-590-00
- Protects light source by opening circuit if unit over heats
- Reattach using Loctite 414
- **Warning: Only replacing this fuse may not correct your light source problem, as this fuse opens when some other component has failed and made unit overheat**

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## PLASTIC LIGHT SOURCE DOOR



**60-600-00**

- Fits fiber optic light source 60-575-00, 60-580-00, 60-585-00 and 60-590-00

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## DOOR LOCK ASSEMBLY



**60-615-00**

- Fits Chapman-Huffman light sources 60-575-00, 60-580-00, 60-585-00 and 60-590-00
- Secures light source door to unit housing
- White plastic construction

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## PLASTIC BARB FITTING



**Black- Pkg. of 10**

**95-134-00**

**White - Pkg. of 10**

**95-135-00**

- Fits Chapman-Huffman light sources 60-575-00, 60-580-00, 60-585-00 and 60-590-00
- 10-32 male thread X 1/16 barb, plastic construction

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## ILLUMINATOR AIR ELECTRIC SWITCH



**Normally Open (Positive)**

**12-625-00**

**Normally Closed (Negative)**

**12-630-00**

- Heavy duty air electric switch for the repair of fiber optic light source controls 60-575-00, 60-580-00, 60-585-00, and 60-590-00

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## HANDPIECE ILLUMINATION SYSTEM INSTANT ON KIT



**95-325-00**

- **One kit required for each Fiber Optic Handpiece**
- Converts foot control activated Illuminator to Auto Holder Activated Illuminator
- Incl. valve, fittings, tubing & installation instructions

**800-225-4621**

FAX 800-836-2765 • WWW.CHAPMAN-HUFFMAN.COM • EMAIL: [ORDERS@CHAPMAN-HUFFMAN.COM](mailto:ORDERS@CHAPMAN-HUFFMAN.COM)