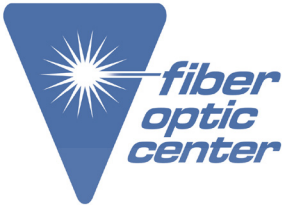


QUICK START GUIDE



Manufacturer:
Dymax

Product Name:
Dymax BlueWave® 200 UV Curing Spot Lamp with Foot Switch (V3.1)

Manufacturer Part Number:
41015

▶ [Click here for more details on the Dymax BlueWave® 200 UV Curing Spot Lamp with Foot Switch \(V3.1\)](#)

Click the thumbnail below to navigate to the Quick Start Guide

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BlueWave® 200 Lightguide Installation Instructions

- Remove the Fiber Optic Cover from the BlueWave 200 Lightguide.
- Remove the Fiber Optic Cover from the Lightguide. Carefully inspect the end of the Lightguide for any damage. If any damage is present, the Lightguide should be replaced with a new one.
- Insert the end of the Lightguide into the Lightguide Mount.
- Adjust the Lightguide to be parallel to the Lightguide Mount. The Lightguide should be parallel to the Lightguide Mount. The Lightguide should be parallel to the Lightguide Mount.

NOTE: BlueWave Lightguide should be used for curing the Lightguide Mount. The Lightguide Mount should be used for curing the Lightguide Mount.

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[Bluewave® 200 Lightguide Installation Instructions](#)

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BlueWave® 200 Version 3.1 Quick Start Instructions

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BlueWave® 200 Bulb Installation Procedures

NOTE: This replacement bulb is sold as a spare part to be used only in the original Dymax lamp system.

Bulb replacement is only accomplished by following the steps below. Refer to the manual diagrams under the light source cover.

- Remove the Top Cover from the BlueWave 200 by turning the Top Cover.
- Remove the Bulb from the BlueWave 200 by turning the Bulb Mount.
- Insert the new Bulb into the BlueWave 200 by turning the Bulb Mount.
- Replace the Top Cover.

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[Bluewave® 200 Bulb Installation Procedures](#)

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Using a Foot Pedal Connector to Control a Shutter with Auxiliary Controllers

The foot pedal receptacle located in the rear right-hand corner of the Dymax light holders, and most Dymax shutters, can be utilized to open and close the shutter with auxiliary controllers other than the supplied foot pedal. Operating and closing shutters with an auxiliary controller can be achieved in several different configurations.

The simplest is to replace the foot pedal or foot switch with another switch. Also, to wire around the common end of the switch to wire the foot pedal or foot switch receptacle. Depending on the application, wire the 12V (Normally Open) or 12V (Normally Closed) contact switch to the second pin of the receptacle. The switch should be rated for a maximum of 12V AC, 5 A, recommended switch is single throw.

To use a PLC, Computer, or similar control device with the light holder or shutter the control device must be isolated. Isolation can be achieved with use of a relay. Relay (NC) contacts are required. Wire the control device to the common end of the relay. Wire the common contact of the relay to the first pin of the foot pedal receptacle and the (NO) contact to pin 2. The relay switch only must be rated for 12V AC, 5 A.

An isolated switch may be wired into the foot pedal or foot switch receptacle. The switch may be connected to a door or sensor which when open or broken closes the shutter. This method only works with relay mode. Wire the NC switch to series with auxiliary controller and between pins 1 and pin 2. The receptacle should be rated for 12V AC and rated for 5A/50W.

To wire multiple units to one foot pedal or auxiliary actuator, a multiple pin relay must be used. Wire each unit to a separate pin on the relay.

To wire multiple foot pedals or auxiliary actuators simply wire them in parallel. For example, to wire a switch and a foot pedal, wire both the foot pedal common and switch common to pin 1, the other end of the contacts to pin 2.

Contacts on the foot pedal receptacle are as follows:
Pin 1 is 12V AC
Pin 2 is 12V AC

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[Using a Foot Pedal Connector](#)

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QUICK START GUIDE



Manufacturer:

Dymax

Product Name:

Dymax BlueWave® 200 UV Curing Spot Lamp with Foot Switch (V3.1)

Manufacturer Part Number:

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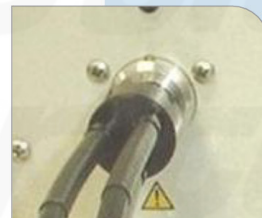
▶ [Click here for more details on the Dymax BlueWave® 200 UV Curing Spot Lamp with Foot Switch \(V3.1\)](#)

BlueWave® 200 Lightguide Installation Instructions

1. Remove the Protective Cover from the BlueWave 200's Lightguide Holder.
2. Remove the Protective End Caps from the Lightguide. Visually inspect the two ends of the Lightguide to verify no foreign material is present. The Dymax liquid-filled Lightguide ends can be cleaned with isopropyl alcohol as required to remove foreign material and deposition from outgassing.
3. Insert the large end of the Lightguide into the Lightguide Holder until it snaps into place.
4. If desired, the Lightguide may be fastened into place by tightening the securing Setscrew installed in the Lightguide Holder. A hex wrench is provided with the *BlueWave* for this purpose. The Setscrew should be tightened gently to prevent damaging the Lightguide.

NOTE: Multi-leg Lightguides should be balanced by rotating the Lightguide to obtain the desired UV intensity of each leg before tightening the Setscrew.

5. The Lightguide is now installed and is ready for use. The end of the Lightguide should be periodically cleaned with isopropyl alcohol. Adhesive build-up may be removed from the end of the Lightguide by using a razor blade or razor knife.



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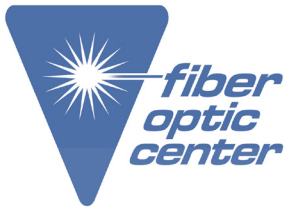
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BlueWave® 200 Version 3.1 Quick Start Instructions

1. Remove the protective cover from the Lightguide Mount.
2. Insert the large end of the Lightguide into the Lightguide Mount until it snaps into place (Figure 1). Fasten the Lightguide into place by lightly tightening the Setscrew located on the Lightguide Mount (Figure 2). A Hex Wrench is provided with the system for this purpose. The Setscrew should be tightened gently to prevent damage to the Lightguide.

NOTE: Multi-Leg Lightguides should be balanced by rotating the Lightguide to obtain the desired UV intensity of each leg before lightly tightening the Setscrew.



Figure 1. Insert Lightguide into Lightguide Mount



Figure 2. Gently Tighten Setscrew on Lightguide Mount with Hex Wrench

3. Connect the Power Cord to the Power Receptacle on the rear of the *BlueWave 200*. Plug the Power Cord into a grounded wall outlet.
4. If you will be using a Foot Pedal, connect the Foot Pedal to the Foot Pedal Connection (Figure 3) on the rear of the unit. A ground stud is also provided on the back of the *BlueWave 200* if additional grounding is desired.
5. Turn the Power Switch on (located on the rear of the unit) and press the “Bulb On” button (Figure 4). Allow the Bulb to warm up for 5 minutes.
6. The unit is ready for operation. The Shutter is opened and closed by means of the Foot Pedal.



Figure 3. Rear Connections

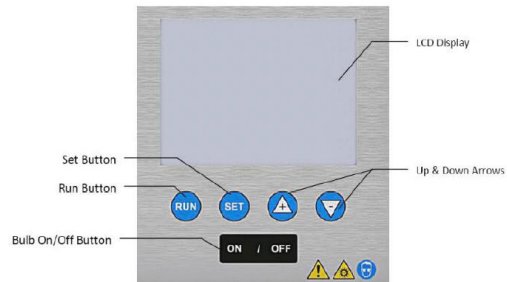


Figure 4. Front Panel Controls

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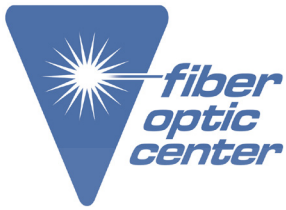
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BlueWave® 200 Bulb Installation Procedures

NOTE: This replacement bulb is sold as a spare part to be used only in the relevant Dymax lamp system.

Bulb replacement is easily accomplished by following the steps below. Refer to the labeled diagrams under the light source cover.

1. Ensure that the Power Cord is unplugged from the rear of the unit.
2. Remove the top cover from the *BlueWave 200* by loosening the four cover fasteners.
3. Unplug the Bulb and Lift the Bulb Mounting Bracket (Figure 3) from it. Remove the Bulb from the Bulb Mount (Figure 4).



Figure 1. BlueWave 200



Figure 2. Bulb Installed in Bulb Mount

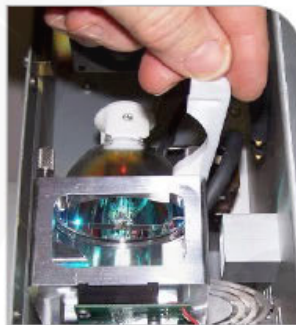


Figure 3. Lift Bulb Mounting Bracket

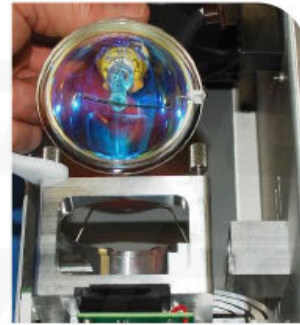


Figure 4. Remove Bulb from Bulb Mount

4. Unpack the new Bulb. Take care not to bend the flat Electrode in the center of the Bulb.



Figure 5. Bulb Package (Closed)



Figure 6. Bulb Package (Open)



Figure 7. Remove Bulb from Box



Figure 8. Bulb

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5. Install the new Bulb into the unit (Figure 9), plug the Bulb in (Figure 10), and tighten the two Mounting Bracket Thumbscrews (Figure 11). Re-install the *BlueWave 200's* cover. Make sure that the center Electrode is positioned as shown in Figure 12.



Figure 9. Install Bulb



Figure 10. Plug in Bulb



Figure 11. Tighten Mounting Bracket Thumbscrews

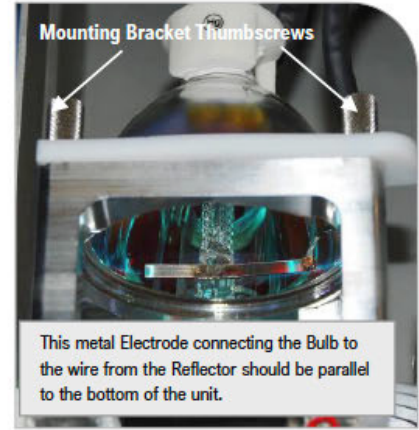


Figure 12. Bulb Electrode

6. Plug in and turn on the *BlueWave 200*. Press and release the red Reset Button on the back of the unit (Figure 25).
7. This completes Bulb installation. The Bulb will now ignite. If the Bulb does not light, repeat instruction 5. The unit is now reset to operate for 2,000 hours.
8. Allow the Bulb to warm up for five minutes and then the unit is ready for use.

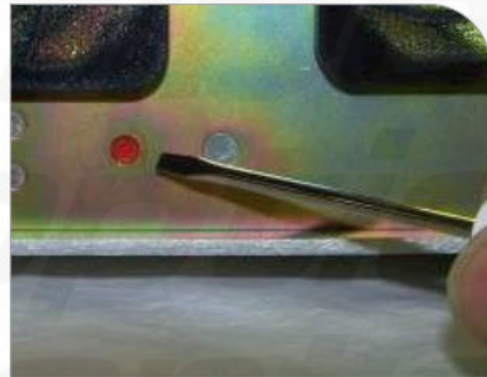


Figure 25. Reset Button

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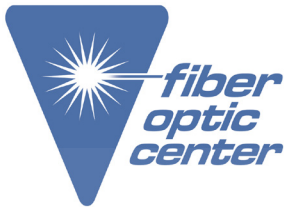
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Using a Foot Pedal Connector to Control a Shutter with Auxiliary Controllers

The foot-pedal receptacle located in the rear right-hand corner of the Dymax light welders, and rear Dymax shutters, can be utilized to open and close the unit's shutter with auxiliary controllers other than the supplied foot pedal. Opening and closing shutters with an auxiliary controller can be achieved in various different configurations.

The simplest is to replace the foot-pedal or foot switch with another switch. Also, to wire connect the common contact of the switch via wire to the first pin of the foot-pedal receptacle. Depending on the application, wire the NO (Normally Open) or NC (Normally Closed) contact on switch to the second pin of the receptacle. The switch should be rated for a minimum of 12V 3A. It is recommended that the switch be single throw.

To use a PLC, Computer, or similar control device with the light welder or shutter the control device must be isolated. Isolation can be achieved with use of a relay. Most PLC's provide relay outputs. Wire the control device to operate the coils of the relay. Wire the common contact of the relay to the first pin of the foot-pedal receptacle and the NO (NC) contact to pin 2. The relay's contacts must be rated to handle 12V 3A.

An interlock switch may be wired into the foot-pedal or different auxiliary actuator. The interlock may be connected to a door or sensor which when open or broken closes the shutter. This method only works with manual mode. Wire the NC switch in series with auxiliary controllers and between pin 1 and pin 2. The interlock should be rated for 12V 3A and must be a NC type.

To wire multiple units to one foot-pedal or auxiliary actuator, a multiple pole relay must be used. Wire each unit to a separate pole on the relay.

To wire multiple foot-pedals or auxiliary actuators simply wire them in parallel. For example, to wire a switch and a foot-pedal, wire both the foot-pedal common and switch common to pin 1; the other end of the contacts to pin 2.

Contacts on the foot-pedal receptacle are as follows:

Pin 1 is 12V out

Pin 2 in 12V return

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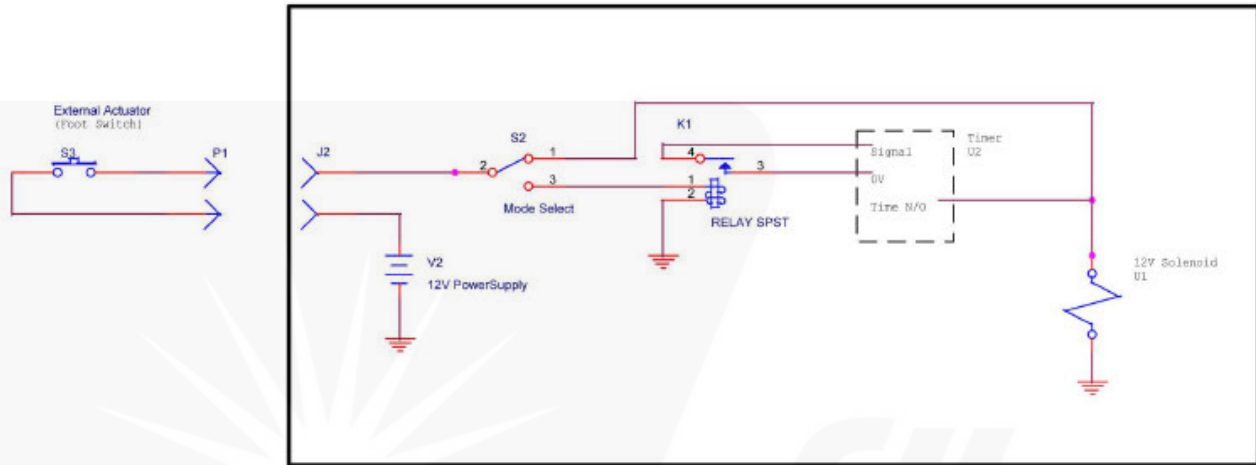
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Figure 1. BlueWave® 200 Shutter Circuit



200W BlueWave

File		200W BlueWave Shutter Circuit	
Size	A	Document Number	(Doc)
Date	Wednesday, September 19, 2001	Sheet	1 of 1

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