

Installation and Set-up

Setting Up

The Midget HP #1209 comes in two cartons. One contains the head and the other the base/yoke assembly. Assemble the base using the instructions included in the carton. Lower the spotlight head into the yoke checking that all the washers are on the outside of the yoke arms. The two gold height levers, (not shown in the illustration) located on the base pole, are used to adjust the height of the spotlight and both should be tightened after the required height is obtained.

CAUTION!!

Physically support the spotlight while this adjustment is being made.

Lamp Installation

HIGH VOLTAGES INSIDE MAY CAUSE ELECTRICAL SHOCK !!

CAUTION!
ULTRAVIOLET RADIATION
DO NOT VIEW OPERATING BULB
MAY CAUSE EYE DAMAGE

DO NOT CONNECT SPOTLIGHT TO AC POWER UNTIL LAMP IS COMPLETELY INSTALLED AND THE LAMPHOUSE CLOSED.

This unit uses either a Phillips MSR 575HR or an OSRAM 575 HMI/SE lamp.

To open the lamp house drawer, remove the three phillips screws located around the nameplate. Slowly slide out the lamp drawer. The lamp house safety switch will disengage with a low "click". Reactivate when the lamp house is reinserted and fully seated. Note: the safety switch is a delicate switch and care should be taken not to damage it. **DO NOT ATTEMPT TO DISABLE THIS SWITCH.**

When handling the lamp, follow lamp manufacturer's instructions and safety precautions. With the drawer open, insert the lamp firmly into the socket and slide the drawer in, but do not install the phillips screws. Connect spotlight to the applicable power source which is indicated on the input voltage label. (Do not connect to a dimmable outlet.) The power switch (#27), located on the operator's side of the lamp, turns on the spotlight. A "hum" of the fans and a "zap" will be heard initially. The lamp takes about 1 1/2 minutes to come to full intensity. The lamp is focused at the factory for a flat field; however, manufacturing variation in the lamps may require an adjustment to this focus.

On the back of the spotlight there are three adjustment screws on the nameplate: lamp vertical, lamp horizontal, and field. Adjust the field for the desired flatness. Once this is done, with the lamp operating, withdraw the lamp drawer approximately 1/4" maximum. The projected field should darken in the center. If this does not occur, the field may be flattened further if desired. Note: a slightly hot (bright) center is usually desirable to give the best light in a 6' circle for the average throw. Adjustments of the lamp vertical and horizontal may have to be made at this time to keep the hot spot centered. Replace the three phillips screws in the rear door. Make any final adjustments to the horizontal, vertical or field.

Color Boomerang

A five color boomerang with spread lens and dowser is included in the spotlight. It is recommended that only high heat color gels be used. Colors are inserted by lifting the boomerang arm. Inserting one color frame will release a previously inserted frame. Actuating the release lever on the right will release all the frames. The spread lens will elongate the beam in one direction for flood lighting purposes. This lens may be rotated to align it with the front of the stage. The dowser should be the means to fade or blackout the spotlight.

Gelling

Five color gels are provided. Remove the color boomerang by unscrewing the two plastic knobs and lifting the assembly up and out. Place the gels in the color boomerang - the lightest colors towards the lamp, the darkest farther away - sandwiching each gel between the two circular halves of each frame in the assembly. Insert the brass fasteners provided through the small holes in the frames, piercing gels and spreading the feet of the fasteners to secure gels. An alternative method of securing gels to frames is using wire tie wraps. Return boomerang assembly to spotlight and replace retaining knobs.

Operation

The beam is shaped by an iris (#3 forward) and chopping shutter (#3 rear). A gobo slot is also provided for pattern projection.

A dowser is located in the color boomerang to gradually dim the beam. This control is the only shutter to be used to maintain a blackout for any length of time.

Hard or soft focus is obtained by loosening, adjusting and retightening the focus knob (#2).

Lamp Life

For best lamp life, it is recommended that the lamp be allowed long burning cycles. For example, if the show requires the use of the spotlight most of the time, the lamp should be lit for the entire show with the dowser in. It is not recommended that the shutter be used for blackout purposes.

Maintenance

Periodic cleaning of the spotlight is required for long life. The lenses may be cleaned with soap and water, alcohol, or optical lens cleaner.

Trouble Shooting

If the lamp does not light...

1. Check that the safety switch operates.
2. Check for defective or old lamp.
3. Check that power is applied to the spotlight and that fan and pilot light (in switch) are operating.
4. Check that circuit breaker (#26) is fully depressed.

To Remove Power Supply

To Remove 120926A Power Supply From 1209 Midget H.P.

Tools Needed:

1/8" narrow flat blade screwdriver
standard phillips screwdriver,
5/16" wrench

1. Remove lamp by removing 3 phillips screws from back cover. Slide cover back and remove lamp.
2. Remove 4 screws from top plate (with yellow caution label). Note the direction of plate position and remove.
3. Remove 2 screws that mount safety switch. Again note the position in which the switch is mounted and the way blue wires are routed. Leave wires and mounting screws attached to switch.
4. Remove high and low voltage lamp leads from lamp socket. Two set screws hold each lead. Loosen just enough to slide out wire so as not to loose the set screws.
5. Disconnect green ground wire from lamp socket plate and save screws and lock washer by screwing back into plate.
6. Power tray can now be removed from unit by removing 4 phillips head screws - two on either end of the power tray. Be sure safety switch is not caught on any surface when dropping the tray.

Install new power tray using the same procedure in reverse.