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CHECK WITH LOCAL CODE AUTHORITIES ABOUT INSTALLATION REQUIREMENTS FOR THIS PRODUCT

INSTALLATION INSTRUCTIONS CASCADE® DENTAL LIGHT

FOR CASCADE CHAIR-MOUNTED UNITS

(Applicable only to units factory equipped with the Dental Light Wiring Harness)

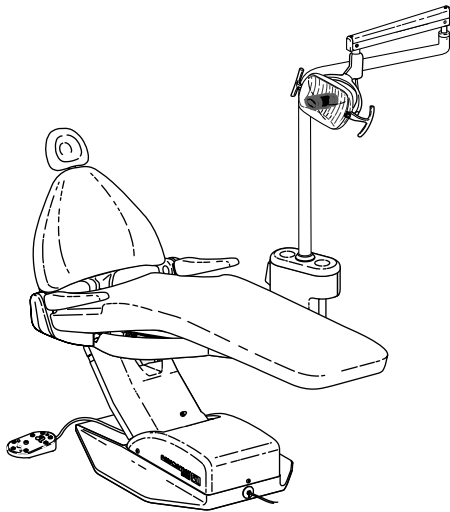


FIGURE 1: CASCADE DENTAL LIGHT

BEFORE YOU BEGIN THIS INSTALL

1. Raise the chair base to its maximum height and move the chair back down to its lowest position.

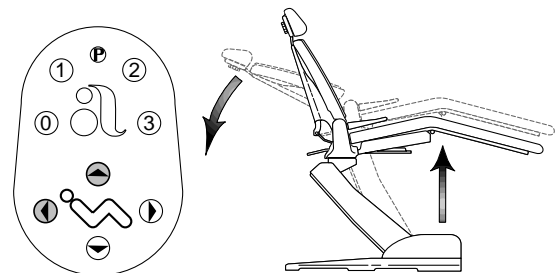


FIGURE 2

2. Remove the floor box cover.

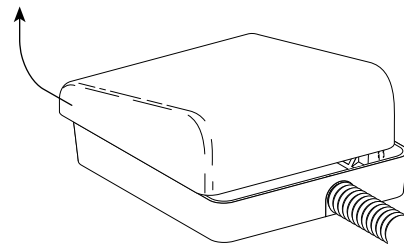


FIGURE 3

YOU WILL NEED:

- Utility knife
- 3/16-inch hex key
- Magnetic leveling device
- Ball-peen hammer

This kit adds the A-dec Model 6300 Cascade Dental Light to A-dec Cascade post box. Power to the light is provided from the floor box, via the dental light wiring harness, by a 300 watt power supply.

For installation of the power supply, refer to the instructions that came with the power supply.

3. Unplug the power supply(s) and chair power cords.

ELECTRICAL WARNING

Failure to unplug the power supply and the chair power cords could result in serious injury.

4. If the upholstery has been installed, loosen the four socket-head screws under the toeboard and remove the seat upholstery. Rest the seat frame and pivot lever against the chair back. **Ensure the seat frame and tilt roller assembly are secure and will not fall.**
5. Using a Ball-peen hammer, knock out the center hole in the post box top (see Figure 4).

WARNING

Wear safety glasses when knocking out the center hole. Although the broken material should fall into the post box, small particles may fly about.

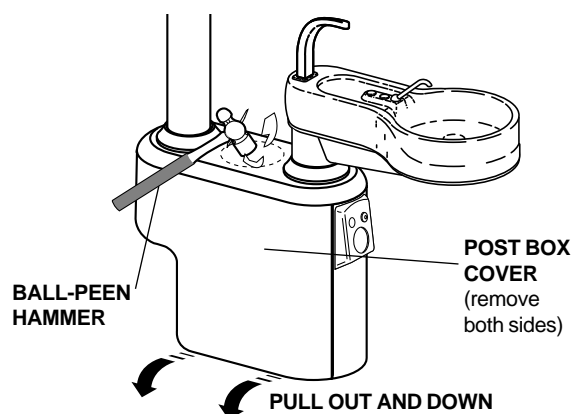


FIGURE 4

6. Remove the post box side covers (see Figure 4).
7. Collect and discard all of the broken material. Be careful not to cut yourself on any sharp edges.

UNPACK THE DENTAL LIGHT

1. Unpack the dental light (see Figure 5). The light is packed with the flex arm separated from the rigid arm. Locate the ship kit and remove the bearing hub assembly and mounting screws (see Figure 6).

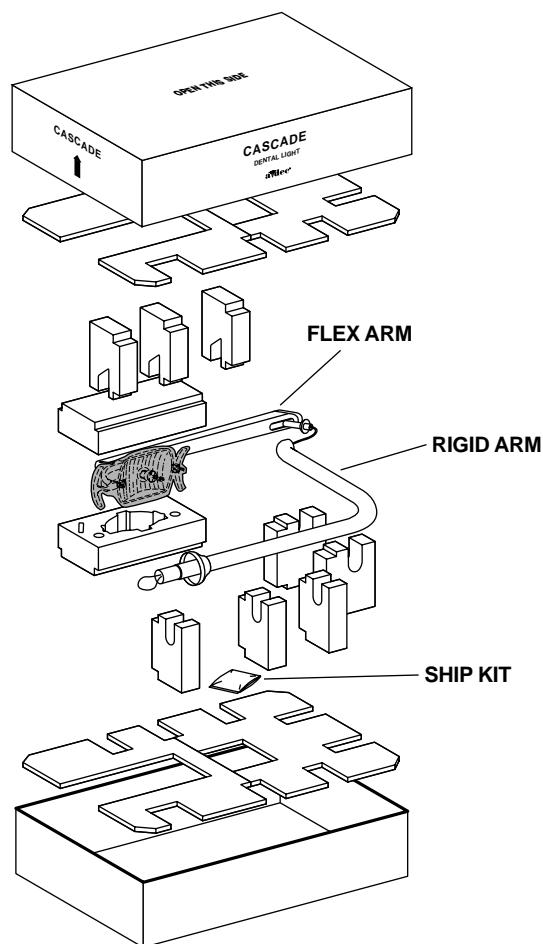


FIGURE 5

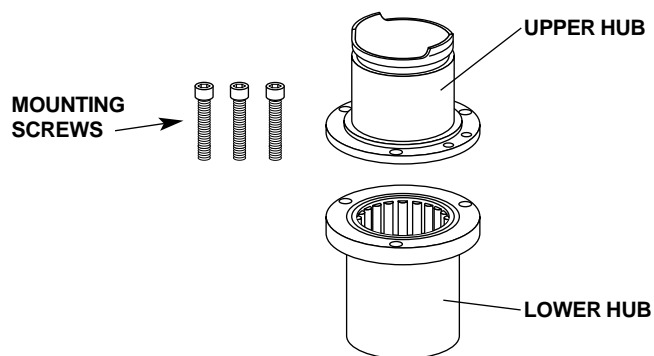


FIGURE 6

INSTALL THE BEARING HUB ASSEMBLY IN THE POST BOX

1. Position the lower hub in the post box (see *Figure 7*). Line up the mounting holes in the hub assembly with those in the post box frame.

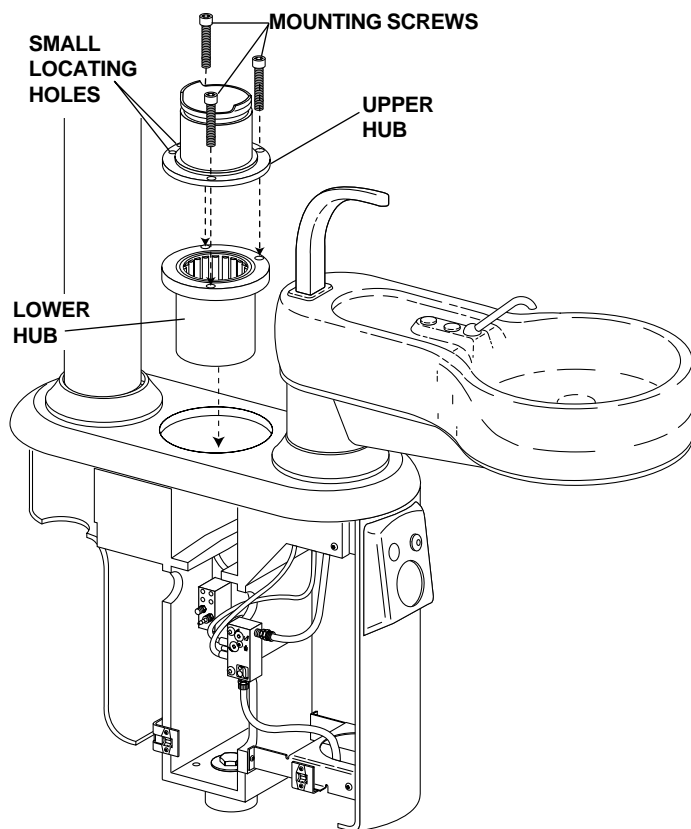


FIGURE 7

2. Position the upper hub in the post box (see *Figure 7*) making sure to install the small locating holes toward the toe of the chair. Line up the mounting holes in the hub assembly with those in the post box.
3. Install the mounting screws as shown in *Figure 8*. Firmly tighten the screws. If possible, torque the screws to 120 inch pounds.

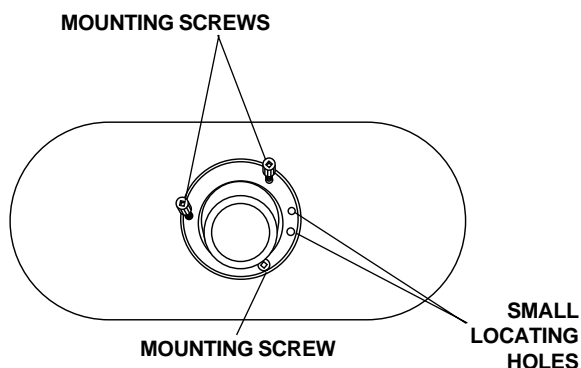


FIGURE 8

INSTALL THE LIGHT ON THE POST BOX

1. Apply a light coating of Lubriplate® lubricant (from the ship kit) to the flex arm knuckle and the pivot post.

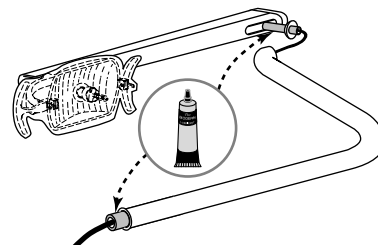


FIGURE 9

2. Align the notch in the flex arm knuckle with the pin inside the rigid arm elbow. Gently rock the flex arm and push the knuckle into the rigid arm elbow.

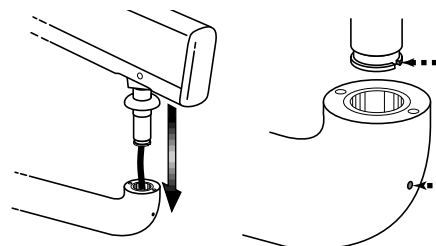


FIGURE 10

3. Apply a light coating of lubricant to the lower end of the rigid arm (see *Figure 9*).

4. Insert the rigid arm in the center hole of the post box (see Figure 11). *Cascade Master Dental Light*, see **NOTE** and Figure 10 before installing the light to the post box.

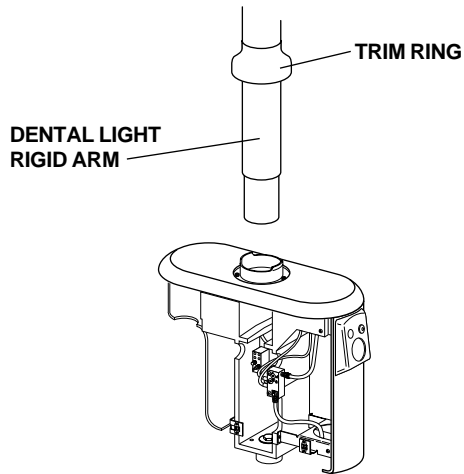


FIGURE 11

5. Position the light and arms over the chair; the light should be positioned over the head of the dental chair.
6. Remove the two safety stop pins (see Figure 13) from the dental light ship kit and install them in the rigid arm (see Figure 13).

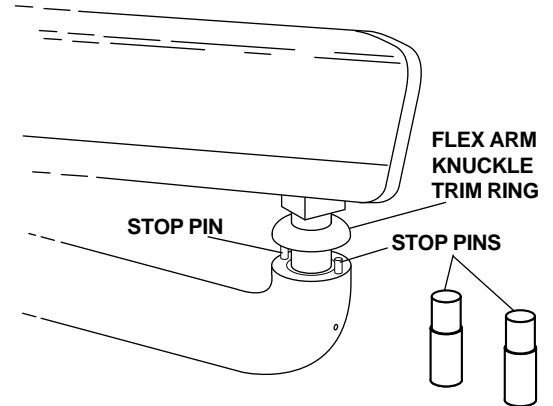


FIGURE 13

NOTE

When installing the Cascade Master Dental Light to the post box, remove the Master circuit board assembly by pulling the entire assembly away from the post box frame. Pull the light cable through the space behind the circuit board. Reinstall the circuit board assembly.

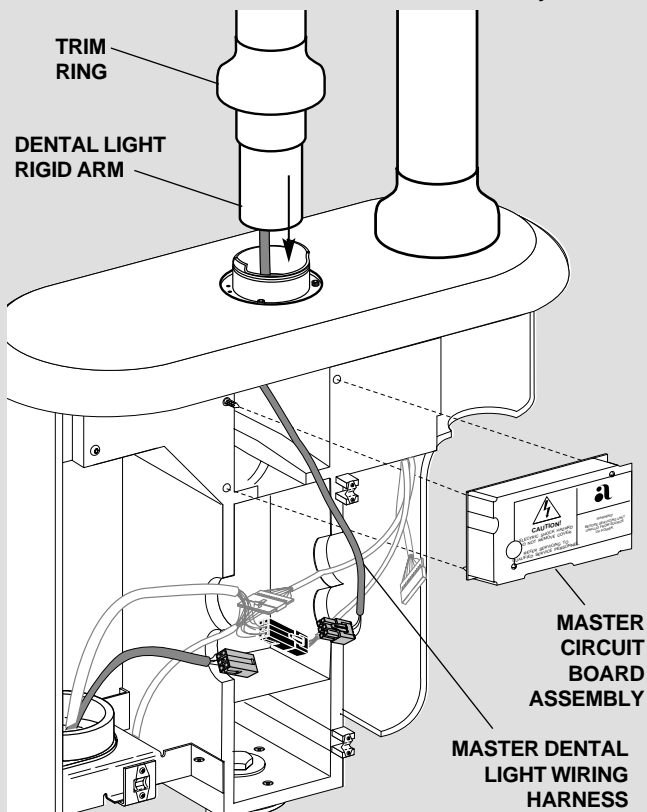


FIGURE 12

LEVEL THE POST BOX

1. Place a magnetic leveling device on the light post (see Figure 14). Check for level parallel to the chair first, then for level perpendicular to the chair.

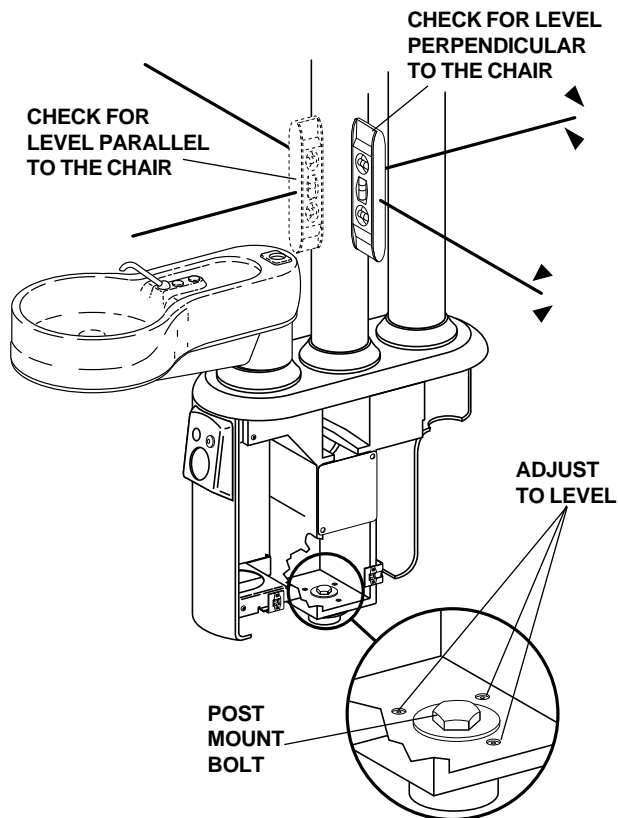


FIGURE 14

2. If the post box is not level, loosen the post mount bolt (see Figure 14) and adjust for level parallel to the chair first, then for level perpendicular to the chair.
3. Tighten the post mount bolt. If possible, torque to 55 ft-lbs using a torque wrench.

CONNECT THE DENTAL LIGHT WIRING HARNESS

NOTE

If a Cascade 6300 Master Dental Light is being installed, complete the steps in this NOTE before proceeding with the connection of the wiring harness.

If a standard Cascade 6300 Dental Light is being installed, go to step 1 on page 5.

Remove the light air-electric switch and two Phillips screws from the light kit. Install the light air-electric switch in the post box (see Figure 15). To ease installation, remove the post box panel. Reinstall the panel when installation is complete.

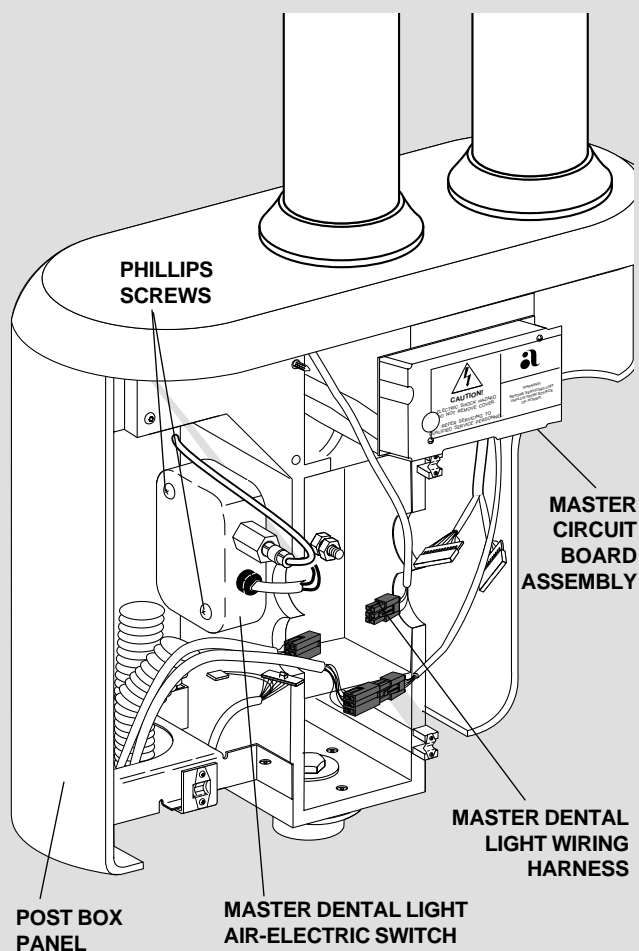


FIGURE 15

1. Inside the electrical box, locate the dental light wiring harness red 6-pin connector (see Figure 16).
2. Connect the dental light wiring harness coming from the dental light to the dental light wiring harness coming from the utilities.

If you are installing a dental light without the Master function, go to TEST THE DENTAL LIGHT, step 1 on page 7.

3. **Cascade Master Dental Lights:** Connect the red 6-pin connectors coming from the dental light wiring harness to the red 6-pin connectors coming from the master air-electric switch (see **NOTE**, Figure 15 on page 5).

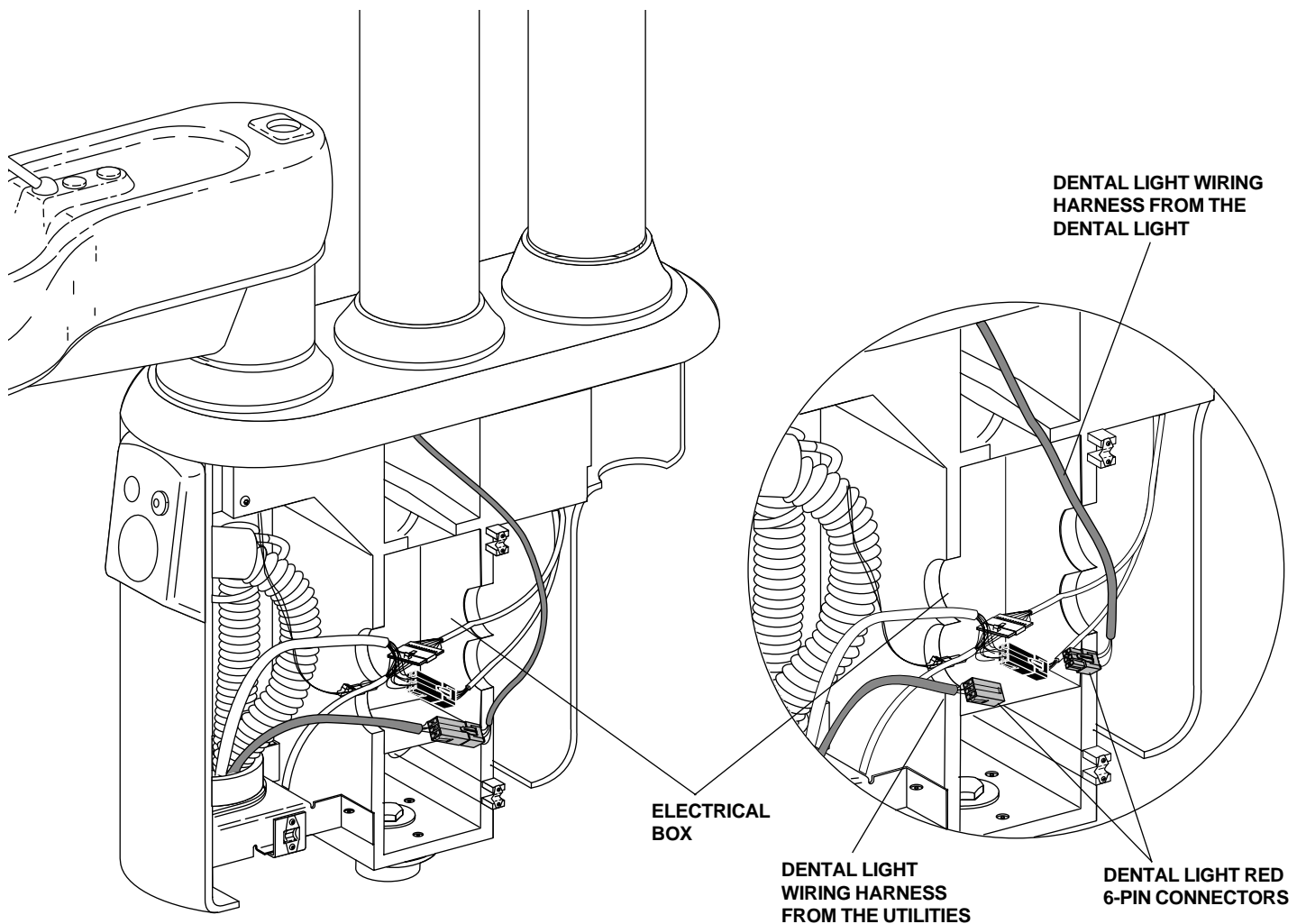


FIGURE 16

4. Connect the white tubing coming from the master air-electric switch to the white tubing coming from the Master light air-signal valve (see *Figure 17*).
5. Carefully place the connections into the electrical box.

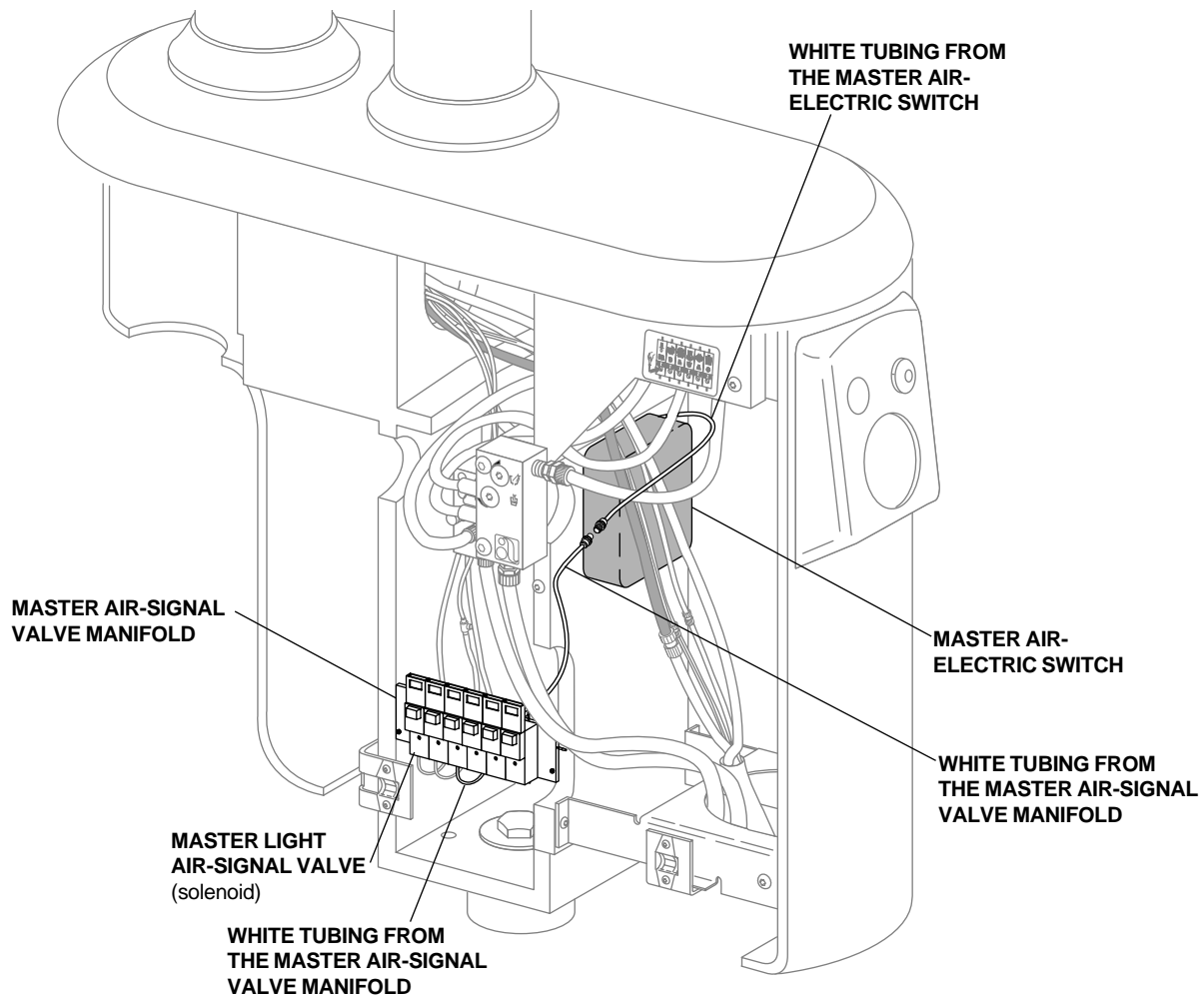


FIGURE 17

TEST THE DENTAL LIGHT

1. If the power supply has not been installed, do so now.
2. Plug in the chair and power supply.
3. Turn ON the delivery system. The dental light will not work unless the delivery system is on.

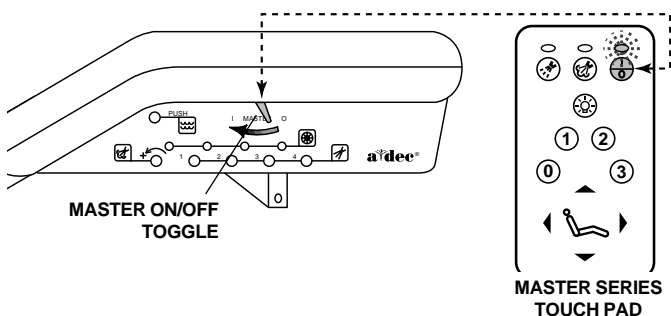


FIGURE 18

4. Turn ON the dental light.

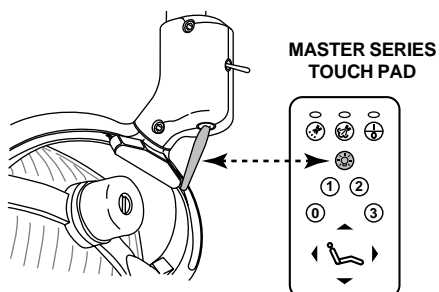


FIGURE 19

5. Test all three intensity levels of the light.

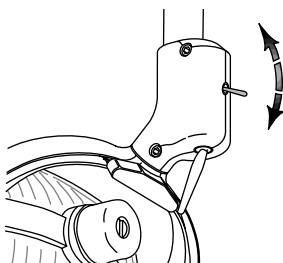


FIGURE 20

6. If the light requires focus adjustment, refer to **6300 Dental Light Owner's Guide**, A-dec Publication No. 85.2602.00 for instructions.
7. Reinstall the floor and post box covers. Be careful not to pinch any wiring or tubing in the covers.

BEFORE LEAVING THE FACILITY

Distribute the **Owner's Guide** and instruct the dental team in the operation and maintenance of the dental light.



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Conserve
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