

## Telescoping Monitor Mount on an A-dec Inspire® Treatment Console

### Product Models and Versions Covered in this Document

Models	Versions	Description
A-dec Telescoping Monitor Mount	A	Monitor Mount
391/591	A	Dental Furniture

### Recommended Tools

- Standard and Phillips head screwdrivers with magnetic bit
- 1/8", 5/64", 3/16", 5/16" and hex keys
- 7/16" combination wrench
- Step ladder

### Important Information



**CAUTION** To prevent damage to the monitor or monitor mount:

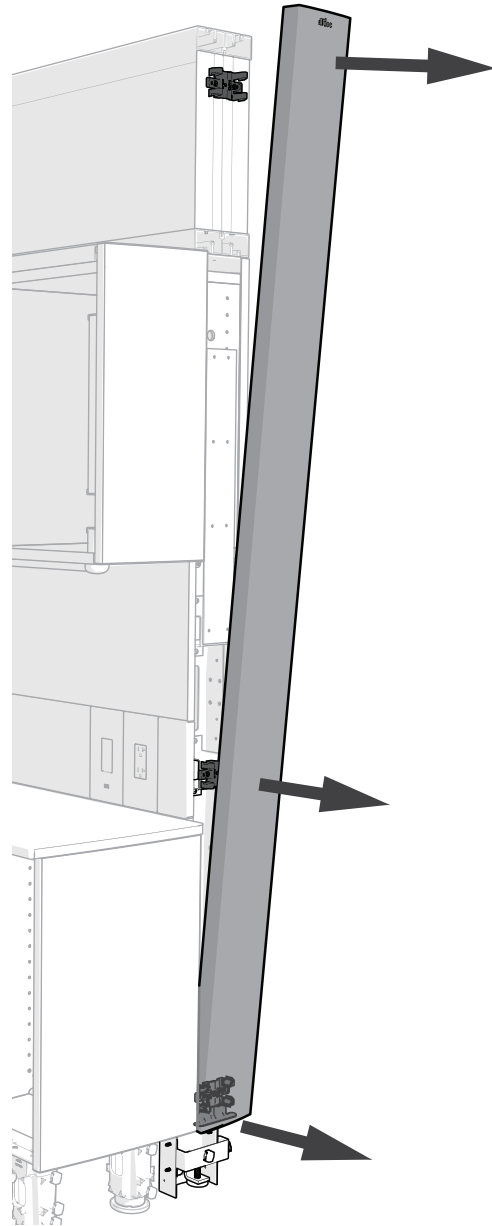
- Do not use a monitor that weighs more than 20 lb.
- Use a monitor that fits a 75 mm or 100 mm VESA pattern mount.
- Always follow local building and electrical codes.
- Refer to the *A-dec Inspire® Dental Furniture Pre-Installation Guide* (p/n 86.0528.00) for regulated and non-regulated air requirements.



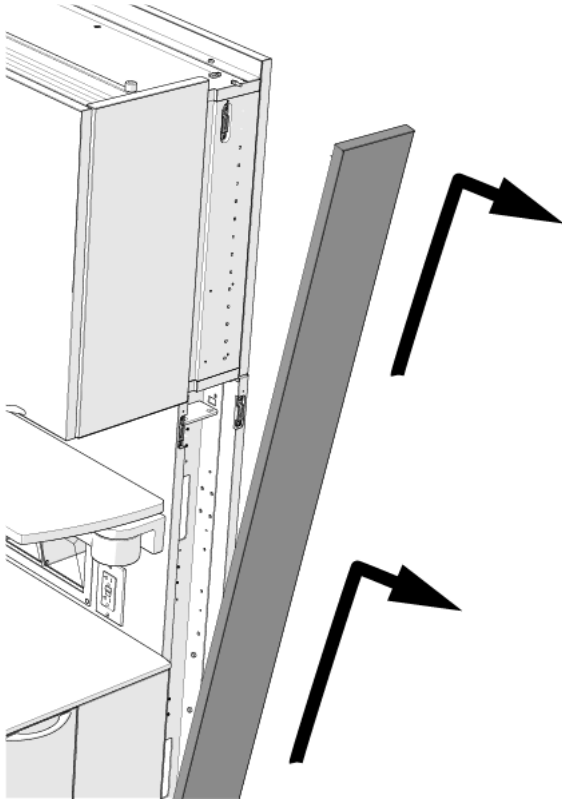
**WARNING** Shock hazard. When you remove or replace the covers, take care not to damage any wiring or tubing. Verify that the covers are secure after you replace them.

### Prepare the Treatment Console

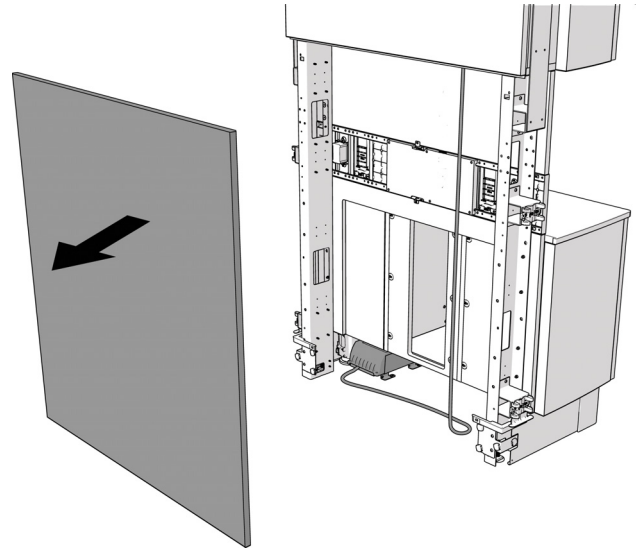
1. Complete the instructions for the type of cabinet for the column cover to remove.
  - 591 – Unclip the column covers to remove them.



- **391** – Lift the column cover up and out to release the installation pins from the retaining clips.



- 2.** Remove the back panel by pulling out from the bottom of the 42" (106.7 cm) section.

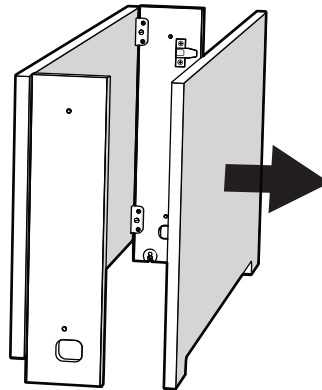


**Remove the Soffit or Clerestory (591 Only)**

You must remove the soffit or clerestory to access the bracket that is used to secure the umbilical.

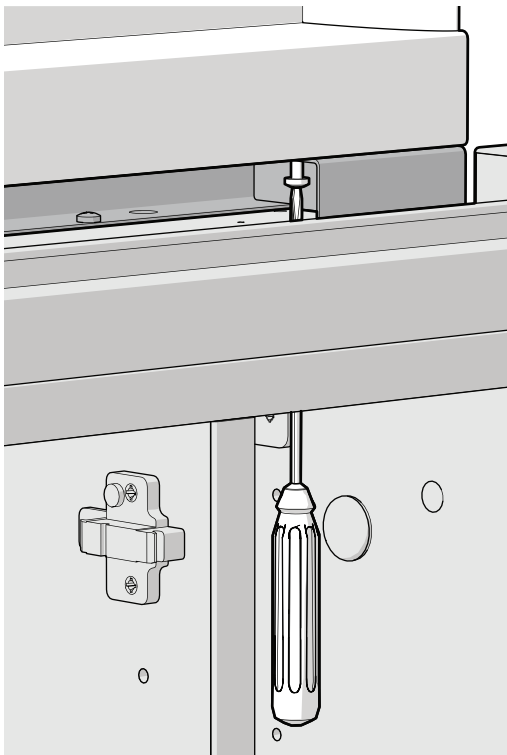
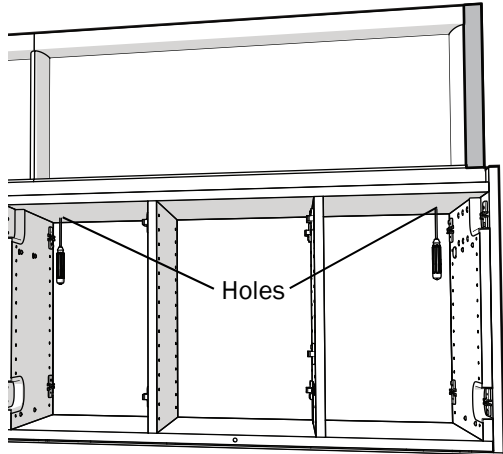
**Soffit**

- 1.** Remove the front panels.

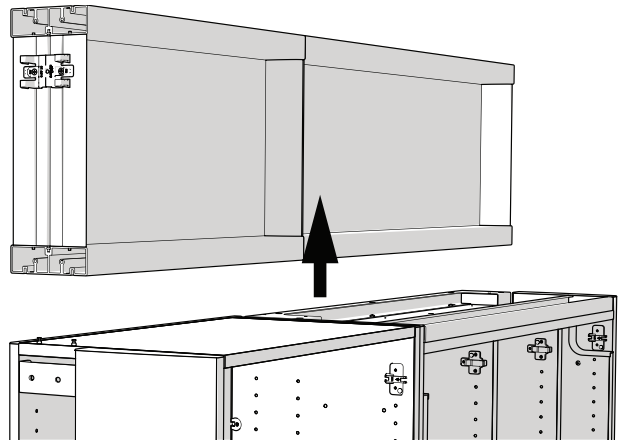


## Clerestory

1. If there are multiple sections to the clerestory, remove the cover caps from each screw, and then remove the two screws per section that secure the clerestory to the top of the cabinet. Use a Phillips head screwdriver with extension to remove the screw securing the clerestory to the metal bracket.



2. Lift the clerestory from the top of the uppers.

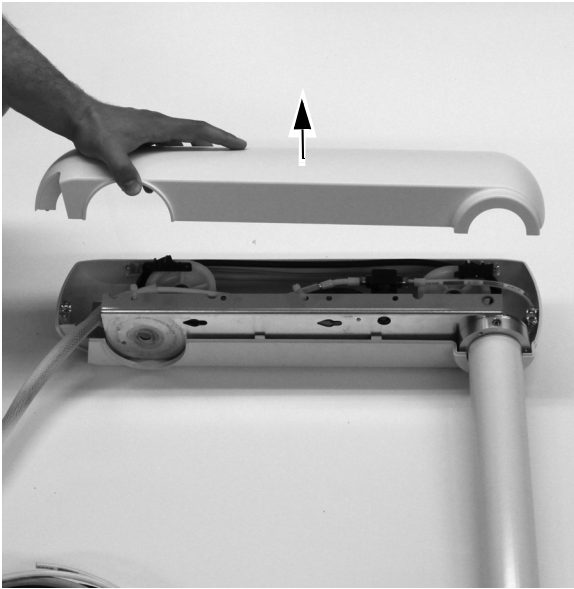


**NOTE** Continue with your cabinet and configuration:

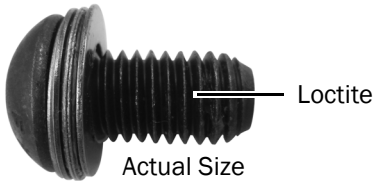
- **391 and 591 with a trolley**—"Install the Monitor Mount" on page 4.
- **591 without a trolley**—"Install the Trolley" on page 9.

## Install the Monitor Mount

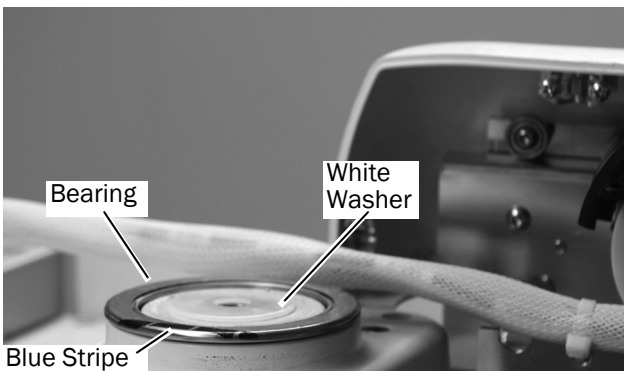
1. Remove the half of the monitor mount arm cover that snaps on.



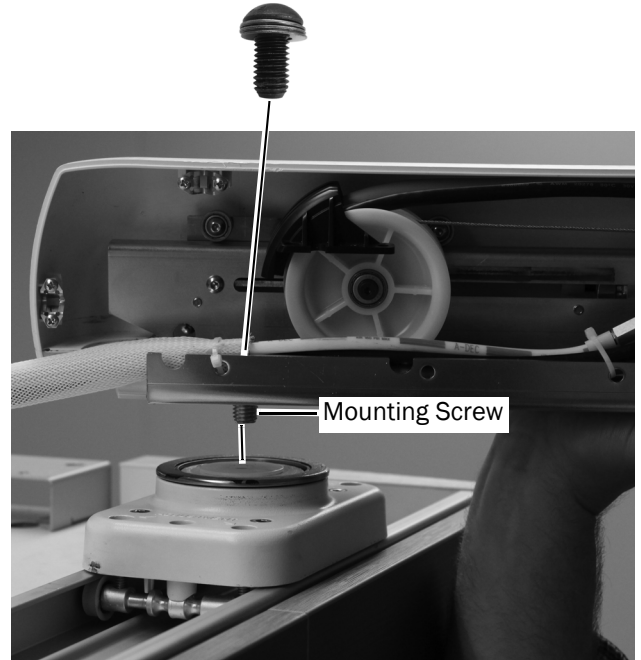
2. Apply Loctite® to the threads of the mounting screw.



3. Place the bearing on the trolley's hub with the blue stripe facing up.
4. Place the white washer on the hub.



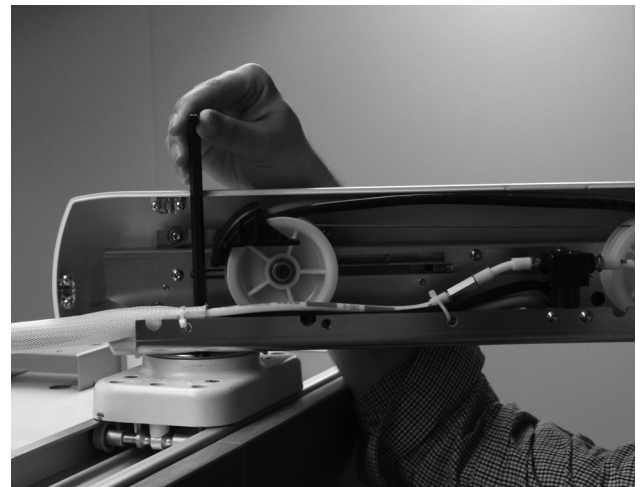
5. Install the mounting screw through the holes at the end of the monitor mount arm and center of the hub.



6. Use a 5/16" hex key to secure the monitor mount.

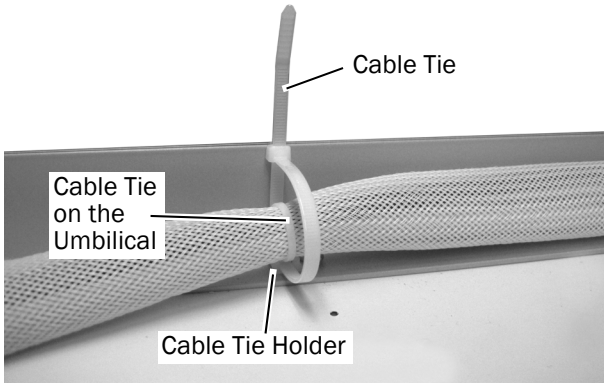


**NOTE** Tighten the mounting screw so the monitor mount moves smoothly but does not drift.





7. Place the umbilical with the cables on top of the cabinet.
8. Use the cable tie on the umbilical as the mark for installing the cable tie in the cable tie holder located at the top of the cabinet behind the track.

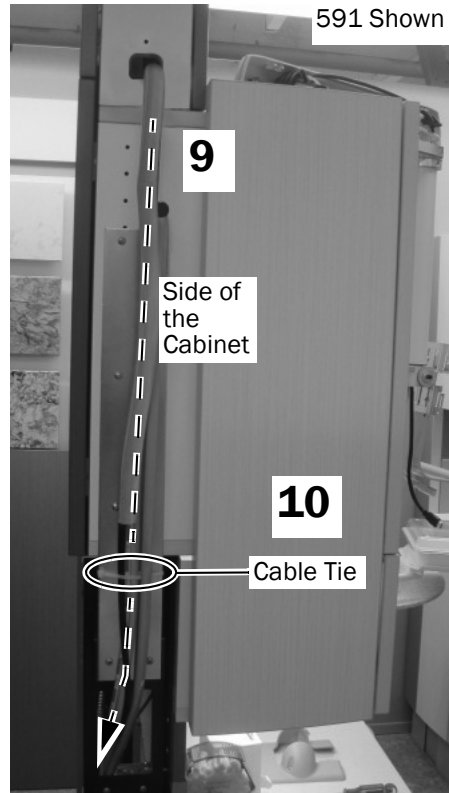


**NOTE** If your configuration requires an additional cable, see “Install an Additional Cable (optional)” on page 10 to install it now.



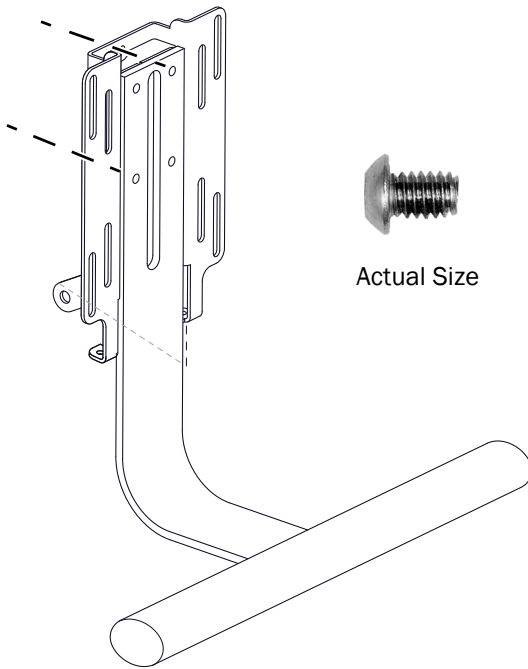
**NOTE** If you are performing an initial 591 cabinet installation, return to the *A-dec Inspire 591 Treatment Console Installation Guide* (p/n 86.0522.00) to install the extension or clerestory. Continue with step 9 after you finish installing the extension or clerestory.

9. Route the umbilical with the power cord, HDMI cable, and yellow air tubing through the hole in the side of the soffit or underneath the clerestory and down the column to the base of the cabinet.
10. Use a cable tie to secure the power cord, HDMI cable, and yellow air tubing to the cabinet.



## Secure the Handle to the Bracket

1. Use the two screws provided to attach the handle to the VESA bracket.

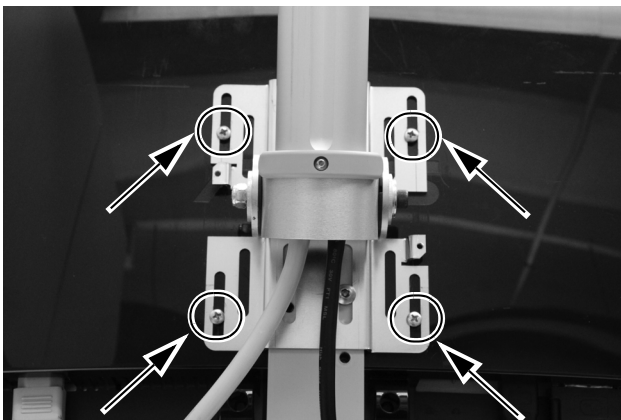


## Secure the Monitor to the Bracket

1. Use the screws that came with the monitor to attach the monitor to the bracket.



**NOTE** If the mounting holes on the monitor are recessed, use four 10-32 x 3/8" socket head screws and nuts to install the recessed adaptor that shipped in the kit.



## Connect to Power and Air

The air supply can be regulated or unregulated. Unregulated air supports heavier monitors.

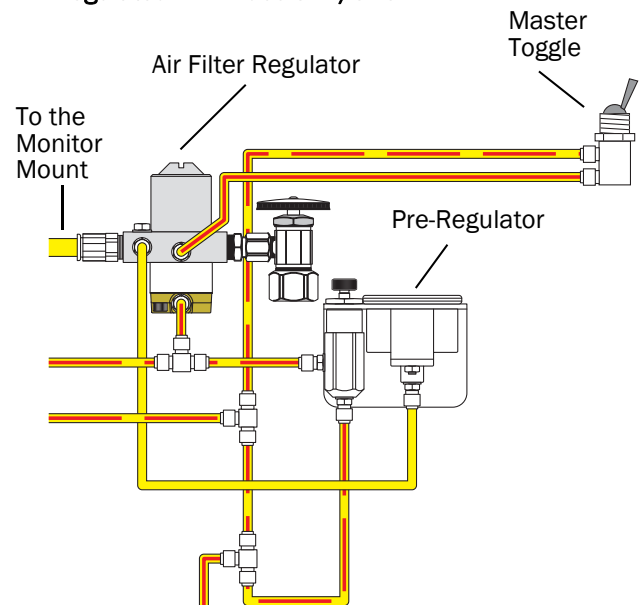
1. Plug in the power cord.
2. Plug the HDMI cable into the computer and monitor.

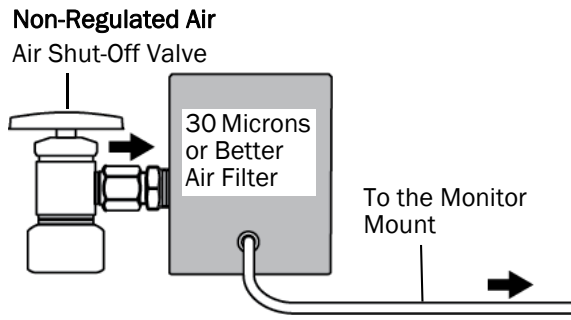
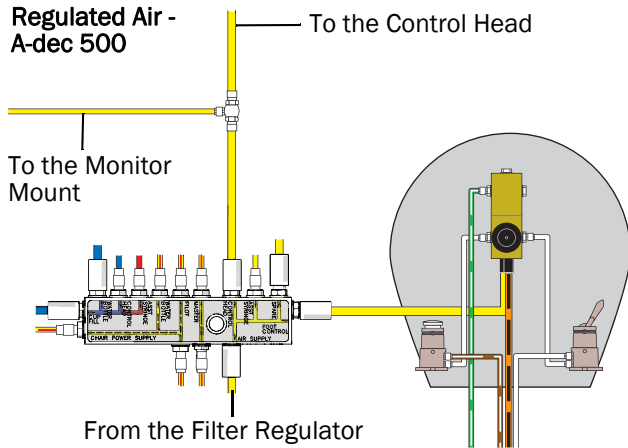


**CAUTION** The air must be filtered with either an A-dec filter regulator or an air filter rated at 30 microns or better. This ensures the air line and the regulator in the telescoping arm function are not damaged.

3. For regulated air, use a tee to connect the monitor mount's 1/4" yellow air tubing to the available air supply tubing that is 1/4" or larger. For non-regulated air, use an air filter. See the diagrams below and on page 5. The air supply may be:
  - The delivery system air supply such as a 12 O'clock delivery or the air supply in the chair's floor box
  - Air supply in the 591 cabinet sub-base

### Regulated Air - A-dec 541/545





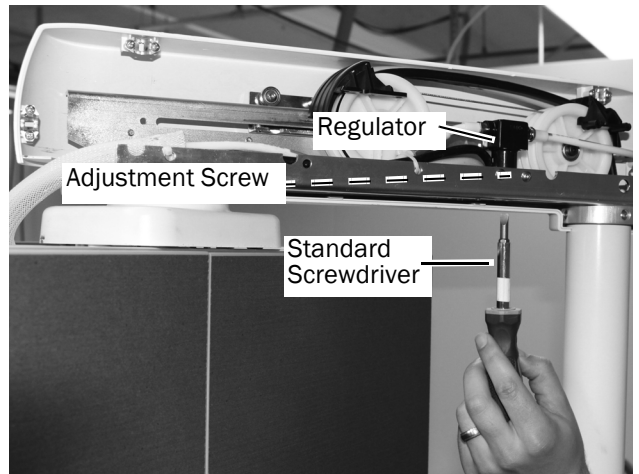
4. Turn on the air.

## Test and Adjust the Telescoping Arm



**CAUTION** Turning the adjustment screw too far clockwise or counterclockwise will damage the regulator. Stop turning the adjustment screw if it does not turn easily. Be sure air is connected before adjusting the air pressure. See “Connect to Power and Air” on page 6.

1. Move the monitor up and down. If it does not drift, do not adjust the regulator’s air pressure.
2. If the monitor drifts up after moving and releasing it, decrease the air pressure by using a standard screwdriver to turn the adjustment screw counterclockwise. Make small adjustments until the monitor stops drifting.
3. If the monitor drifts down after moving and releasing it, increase the air pressure by using a standard screwdriver to turn the adjustment screw clockwise. Make small adjustments until the monitor stops drifting.



**TIP** If someone else will install the monitor on the mount, consider leaving this document to guide the installer to make necessary adjustments.

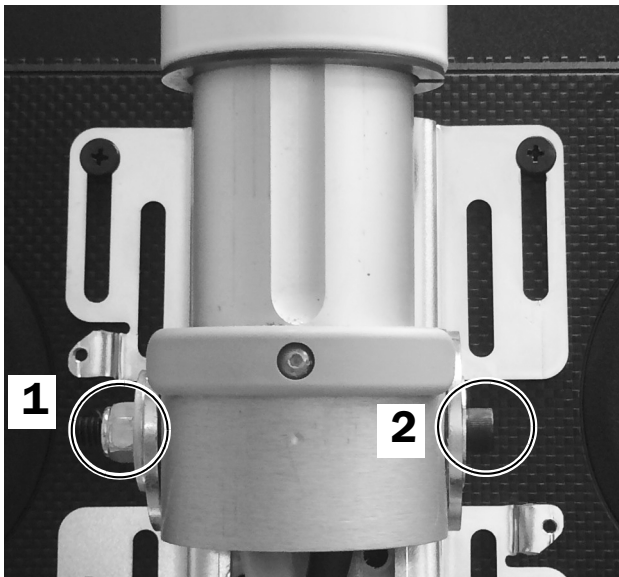
4. To adjust the tilt clutch mechanism:

- (1) Use a 7/16" combination wrench to loosen the locking nut a half turn and enable the adjustment feature. Use the 3/16" hex key to stop the screw turning while loosening the nut.
- (2) Use a 3/16" hex key to adjust the tilt clutch mechanism so that the monitor can be placed in the desired position without drifting. Clockwise increases the tension.
- (3) Use a 7/16" hex key to tighten the locking nut. Use the 3/16" hex key to stop the screw turning while tightening the nut.

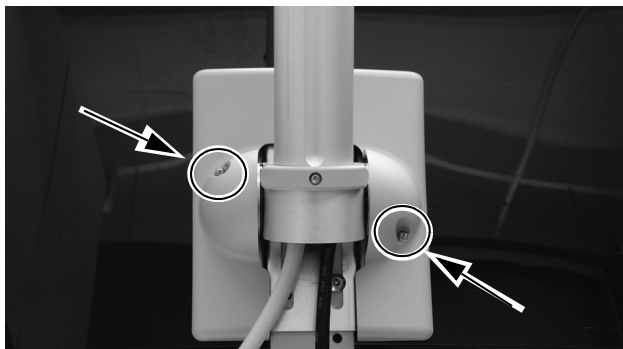


**CAUTION** The channel in the clerestory may strip if too much torque is used when installing screws. Do not use a power screwdriver or over tighten the screws. If the holes become stripped, the clerestory may be rotated and new holes tapped.

7. Reinstall the soffit or clerestory.
8. Reinstall the column cover and the back panel, if necessary.



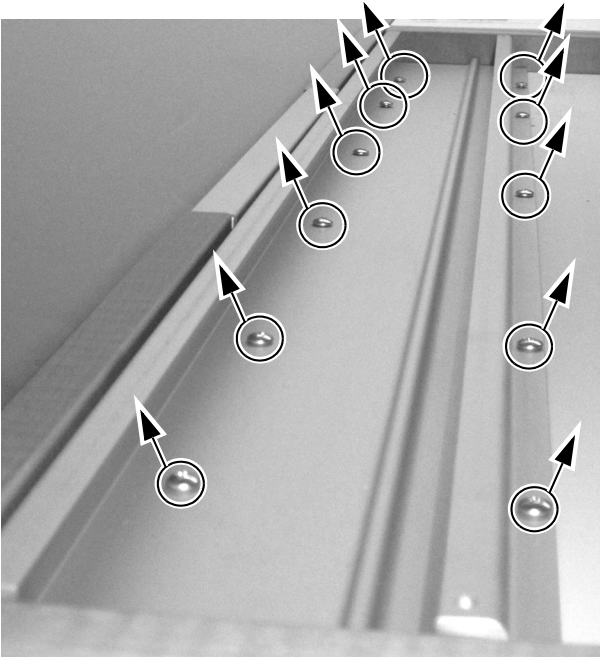
5. Install the monitor mount arm cover.
6. Use a 5/64" hex key to install the monitor mount bracket cover.



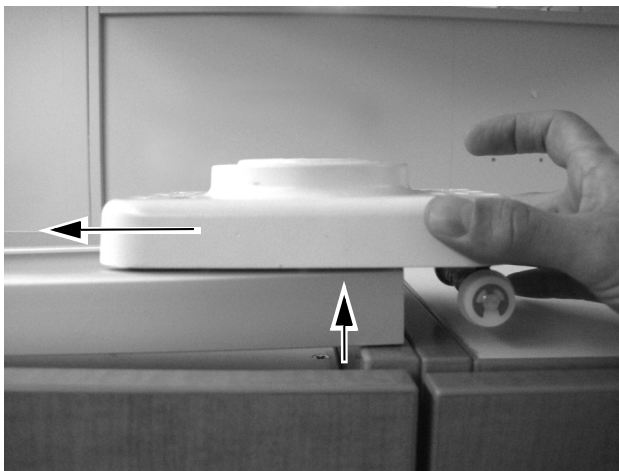
**TIP** Slightly flex the cover to position it on the hub assembly.

## Install the Trolley

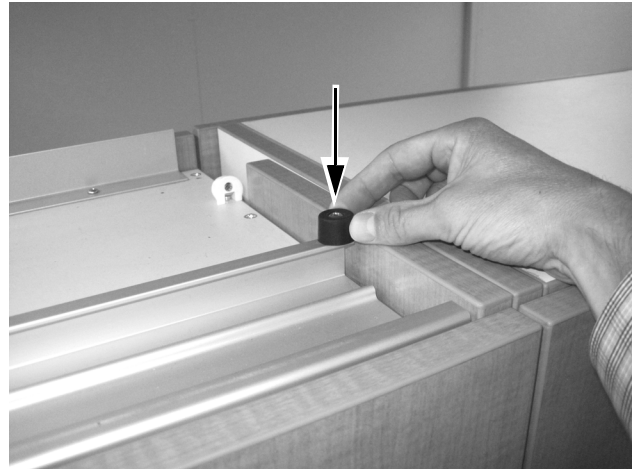
1. Use a Phillips head screwdriver to remove the eleven screws securing the track to the top of the cabinet.



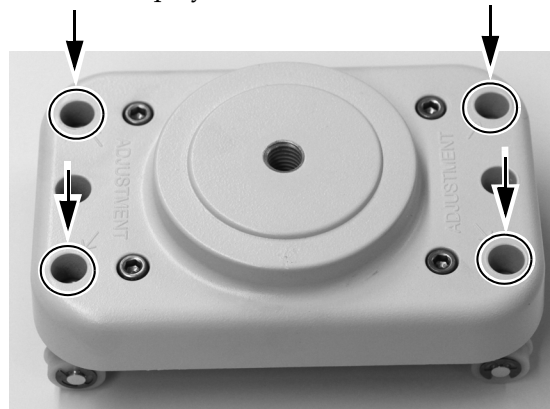
2. Lift the end of the track and slide the trolley onto it until the wheels of the axles are seated in the channels on the track.



3. Install the black stops on each end of the track.

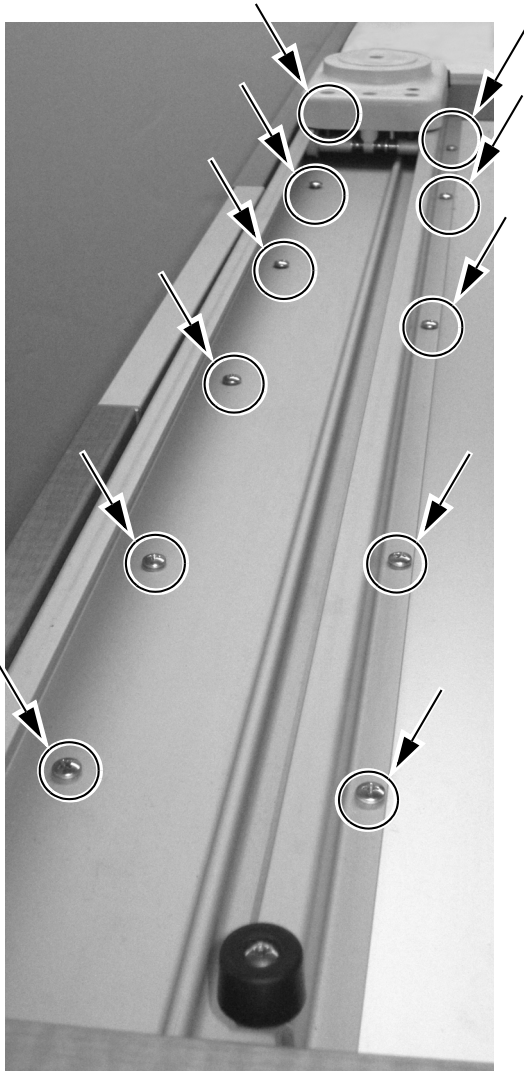


4. Use the four screws in the corner of the trolley to ensure the trolley slides on the track smoothly with a minimum of play.





5. Use the eleven screws and a Phillips head screwdriver to secure the track to the top of the cabinet.



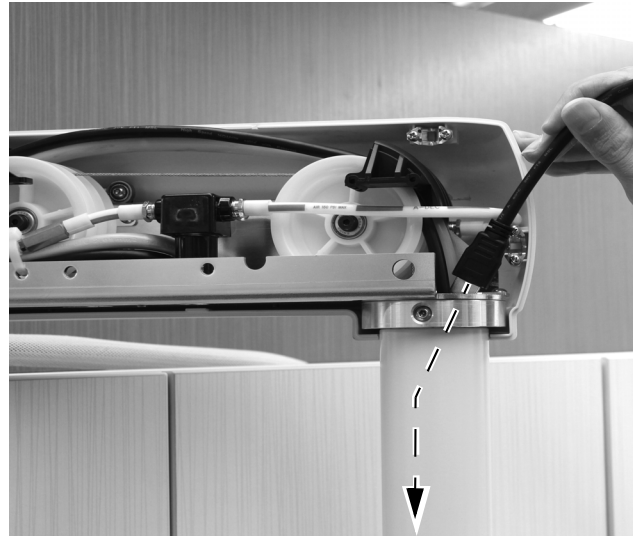
**Next Step** See “Install the Monitor Mount” on page 4.

## Install an Additional Cable (optional)

1. Route the cable down the monitor mount post to the monitor.

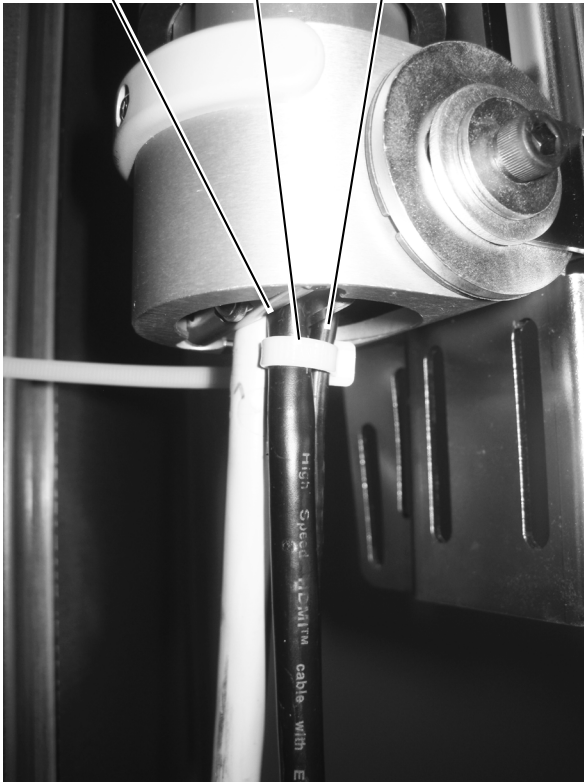


**TIP** Use a snake to pull the cable through the post.

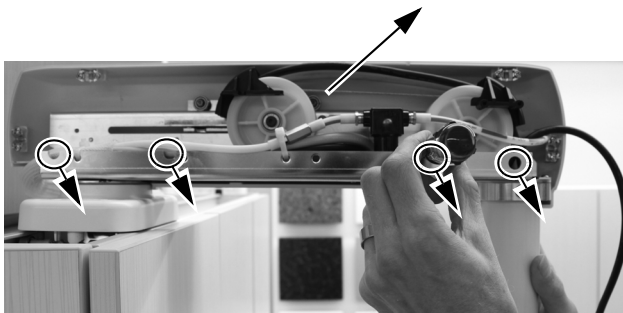


2. Create a strain relief for the additional cable at the monitor end of the post. The routing of the cable and type of strain relief you create will depend on the size of cable and its connector. In the picture below, a cable tie is used to secure the additional cable to the main cable.

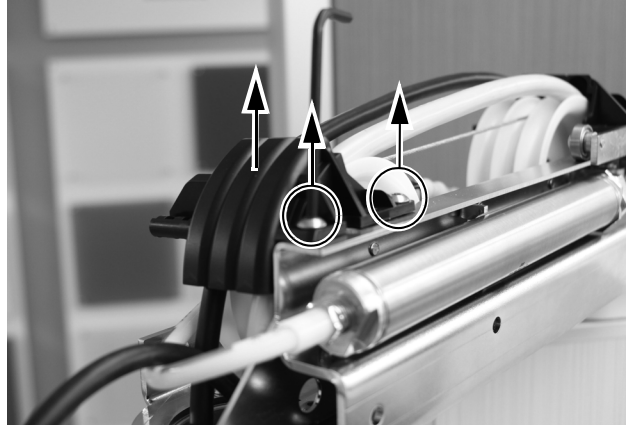
Main Cable      Cable Tie      Additional Cable



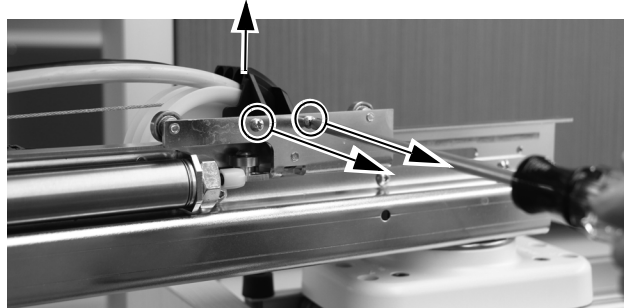
3. Use a Phillips head screwdriver with a magnetic bit to remove the four screws that secure the half of the monitor mount cover attached to the monitor mount arm.



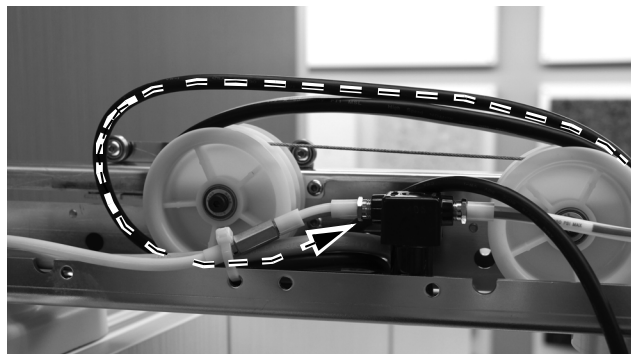
4. Use a 1/8" hex key to remove the two screws that secure the cable guide nearest the post.



5. Use a Phillips head screwdriver to remove the two screws that secure the cable guide farthest from the post.



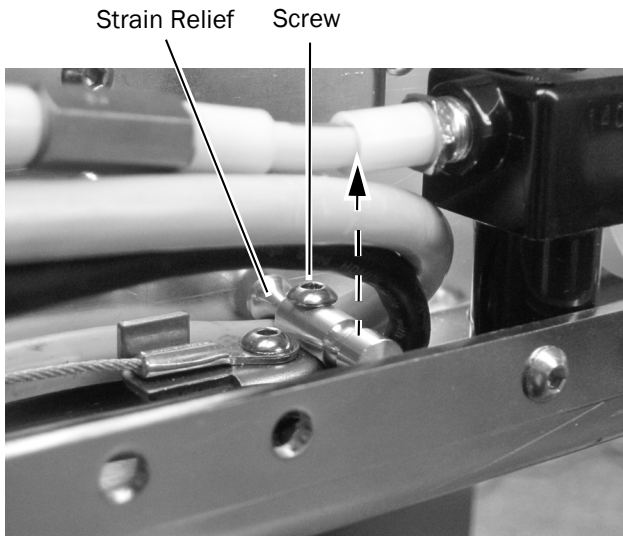
6. Route the new cable over, under and in the groove of the wheel farthest from the post.



**TIP** Lift and lower the monitor to help route the cable.

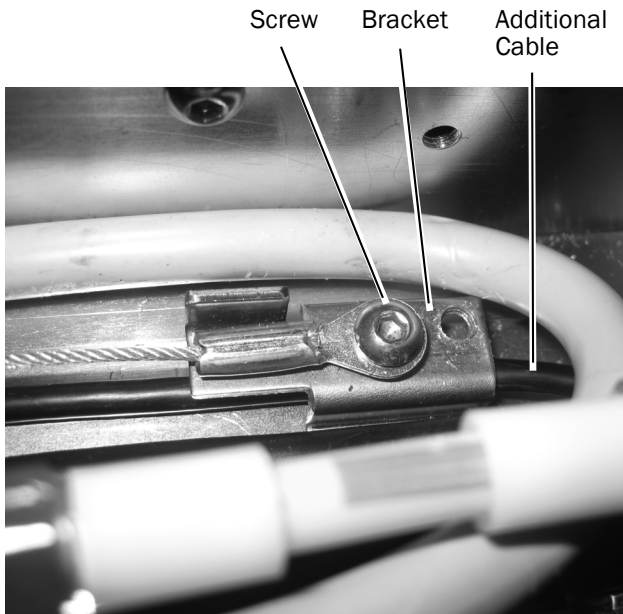


7. Use a 1/8" hex key to remove the strain relief for the cable and air tubing.



8. Use a 1/8" hex key to loosen the screw on top of the bracket.

9. Route the new cable under the bracket between the existing cable and air tubing.

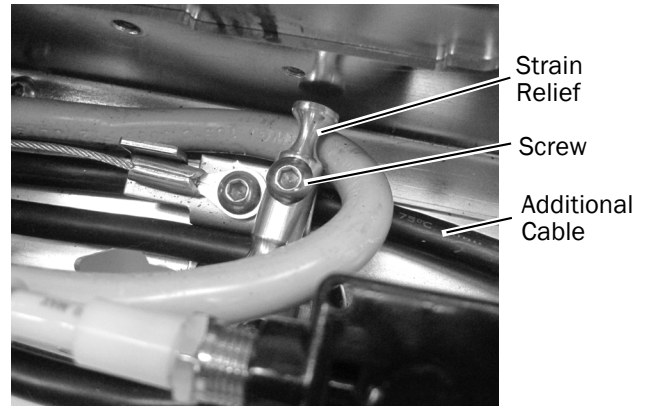


**TIP** Use a cable tie to secure the new cable to the bracket.

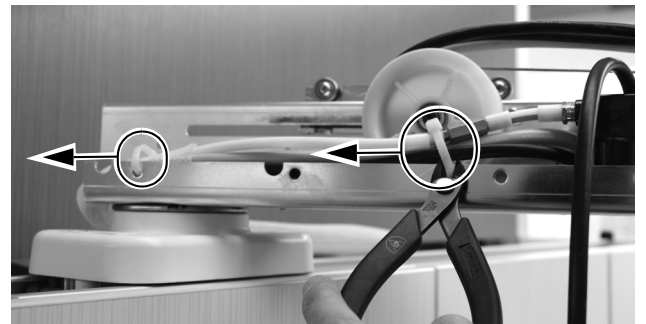


**NOTE** Ensure the strain relief for the new cable matches the strain relief of the other cable and air tubing.

10. Use a 1/8" hex key and the screw to secure the strain relief.



11. Remove the cable ties that secure the cables and tubing to the monitor mount arm.



12. Route the new cable into and through the snake skin.



13. Use cable ties to secure the cables and tubing to the monitor mount arm.

**Next Step** See step 9 on page 5.







## Regulatory Information and Warranty

For required regulatory information and the A-dec warranty, see the *Regulatory Information, Specifications, and Warranty* document (p/n 86.0221.00) available in the Resource Center at [www.a-dec.com](http://www.a-dec.com).



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