

Track Light with Monitor Installation Guide

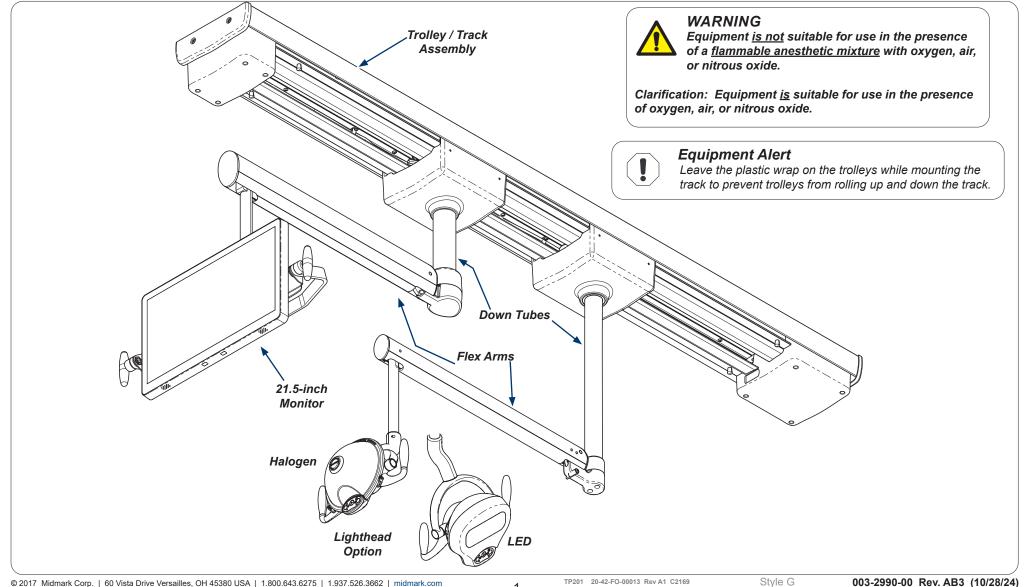


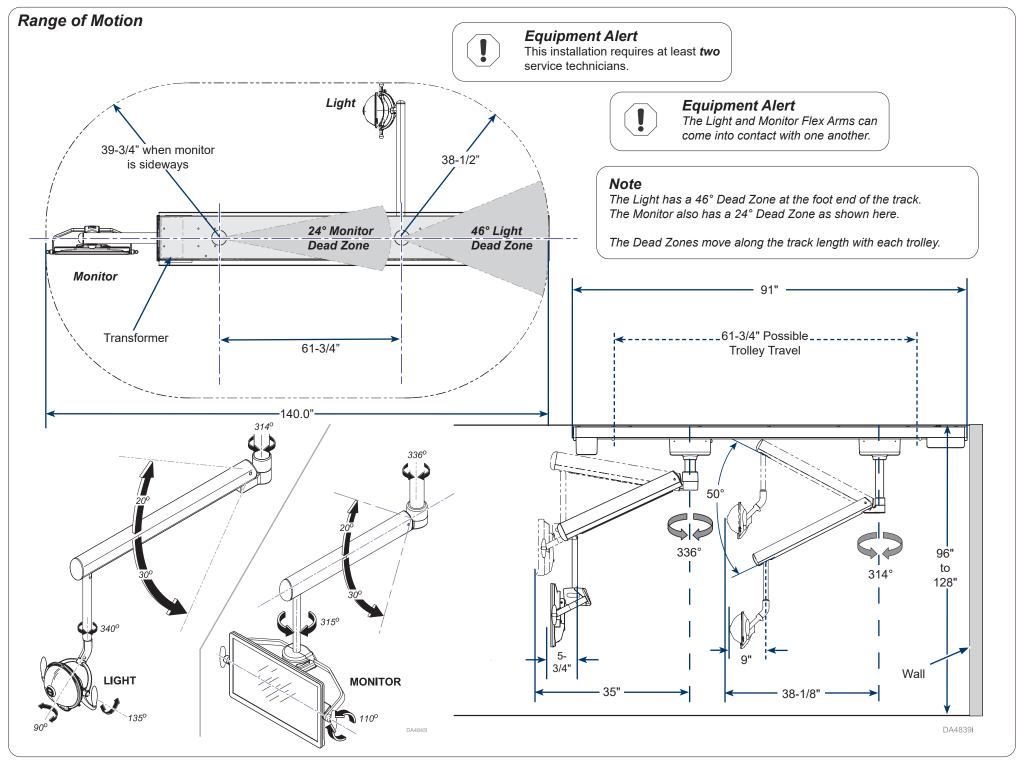
Equipment Alert

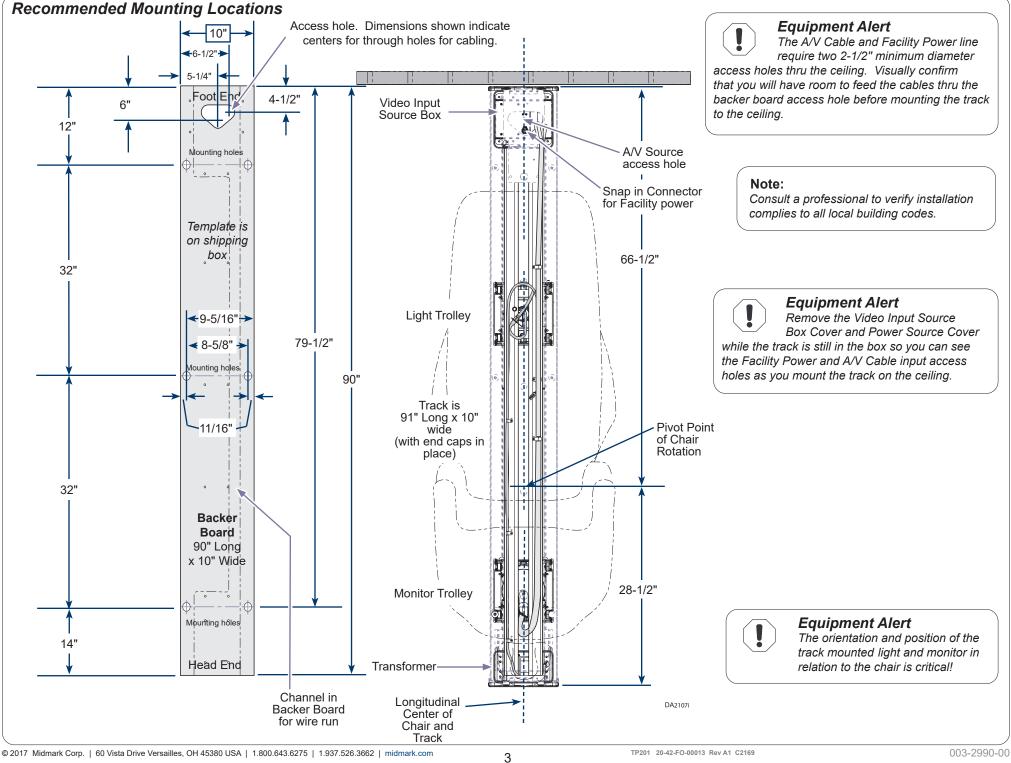
This installation requires at least two service technicians. Track with light and monitor weight is (max.) 157 Lbs. (71 kgs).

Applies to Models:

1531017 (-000 thru -008) 1531018 (-010 thru -018) 153963 (-000 thru -008) 153964 (-010 thru -018) 153829 (000 thru - 008) 153906 (-010 thru - 018) 153830 (-000 thru -008) 153907 (-010 thru -018)







Recommended Ceiling Support Structure



WARNING

Use only the Lag Bolts (3 1/2" x 5/16") supplied with the track assembly. Do not substitute a lower grade. All 6 Lag Bolts and Washers must be used to secure track to support structure and they each must be anchored in a supporting stud. Pre-drill pilot holes in structure with a 7/32" diameter drill bit to prevent cracking the support structure. Drill holes 2 3/8" deep.

Equipment Alert

The A/V Cable and Facility Power line require two 2-1/2" minimum diameter access holes thru the ceiling. Visually confirm that you will have room to feed the cables through the backer board access hole before mounting the track to the ceiling.

Equipment Alert

Midmark does not supply the ceiling support structure; these illustrations show suggestions only. Consult a qualified professional to install the appropriate support structure. The weights listed apply only to the track system, not the ceiling support. To prevent the flex arms from drifting, the track assembly must be level and not deflect more than 1/16" over a 12" span ceiling.



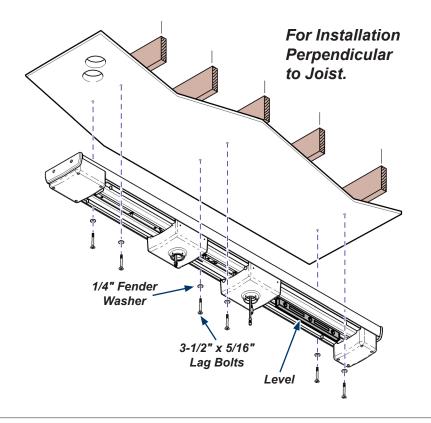
Equipment Alert

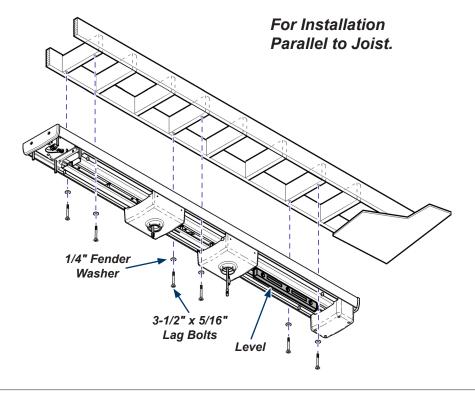
Leave the plastic wrap on the Trolleys while mounting the track to prevent them from rolling up and down the track.



Equipment Alert

Track with Light and Monitor Weight (Max.)......157 Lbs. (71 kgs)





Recommended Ceiling Support Structure...continued

Note

Midmark does not supply the ceiling support structure; these illustrations show suggestions only. Consult a qualified professional to install the appropriate support structure. The weights listed apply only to the track system, not the ceiling support. To prevent the suspension arms from drifting, the track assembly must be level and not deflect more than 1/16" over a 12" span.

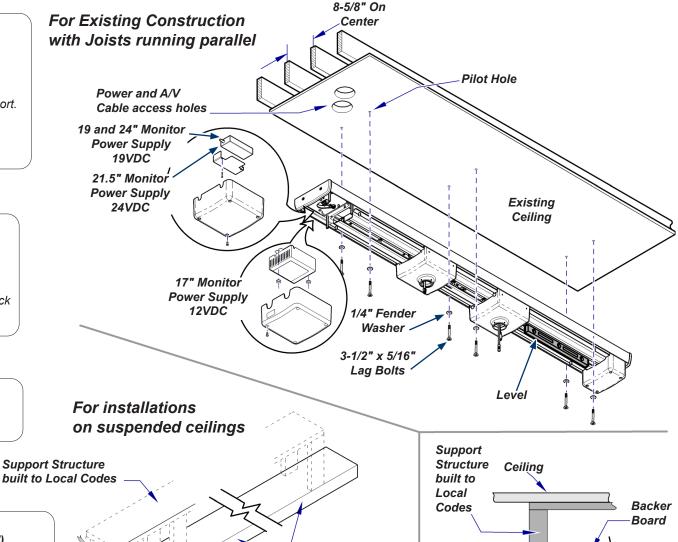
Equipment Alert

The A/V Cable and Facility Power line require two 2-1/2" minimum diameter access holes thru the ceiling. Visually confirm that you will have room to feed the cables thru the backer board access hole before mounting the track to the ceiling.



Equipment Alert

Track with Light and Monitor Weight (Max.)......157 Lbs. (71 kgs)

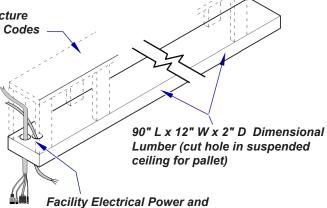




WARNING

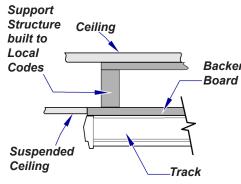
Use only the Lag Bolts (3-1/2" x 5/16") supplied with the track assembly. Do not substitute a lower grade. All 6 Lag

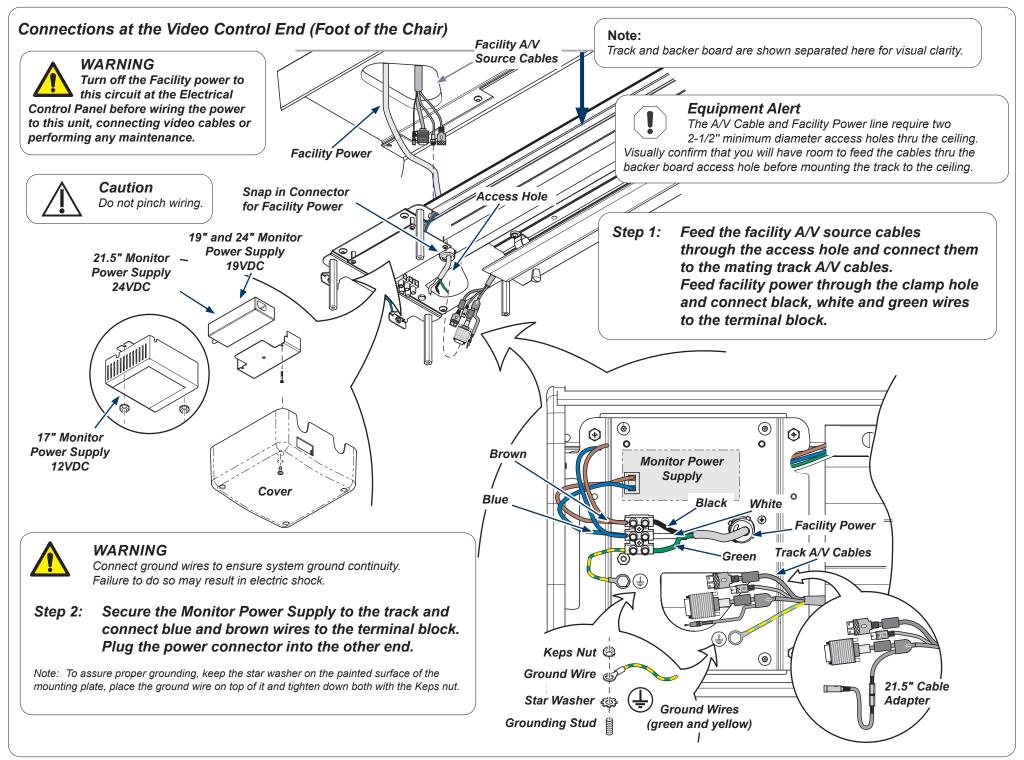
Bolts and Washers must be used to secure track to support structure and they each must be anchored in a supporting stud. To prevent cracking of support structure, pre-drill pilot holes in structure using a 7/32" diameter drill bit. Drill holes 2-3/8" deep.



Audio/Video Source Access Hole

5





Recommendations - Multiple Track Light Monitors to a Single Cable Input Connections



Equipment Alert - Wall Mounted Light Switch Used to Power Multiple Track Light MonitorsDo not use a wall mounted light switch for powering the TLMs.

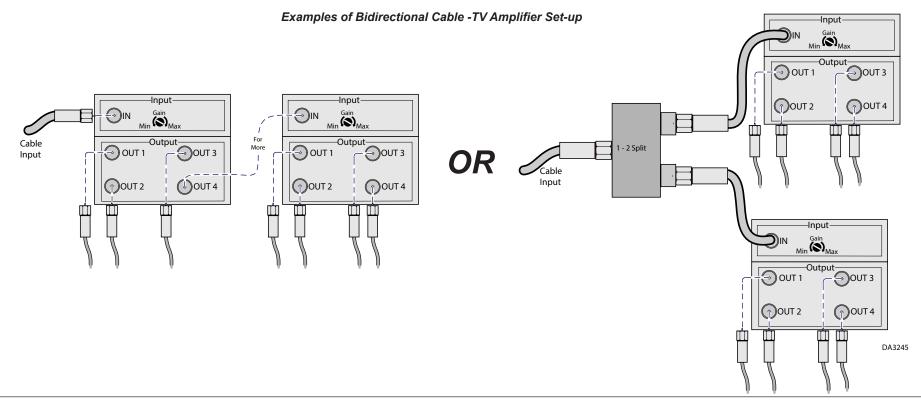
If a wall monitor light switch must be installed for service reasons, then contain the switch inside of a locked cover. Turning ON the TLMs using a wall mounted light switch may cause issues with display settings on the computer. While power is still being applied to the TLMs, the PC has the ability to detect and communicate with the monitor. Communication between the PC and the TLM monitors can occur even if the monitor has been placed in Standby Mode using the power button on the monitor or the remote control. Turning OFF the TLMs using a wall mounted light switch may cause the PC to revert back to the default display settings of a single monitor.



Equipment Alert

Follow these recommendations to properly connect multiple Track Light Monitors together on one coax cable connection:

- Use an Bidirectional Cable TV Amplifier that comes with an adjustable gain control knob for properly adjusting the TLM signal. Also, use this Amplifier type to split and amplify the cable signal power up so that each output is as strong as or stronger than the original signal. Amplifying the signal helps the signal propagate down a long cable and still maintain enough power at the monitor or TV to display an ideal picture.
- Do not use a splitter to connect multiple TLMs together without an amplifier. Adding splitters decreases the signal power, plus long runs of coax cable further increases the power losses.



Monitor and Light Down Tubes

Installing the Monitor and Light Down Tubes

Monitor

Trolley

Four Set

Screws

with Lock

Patches

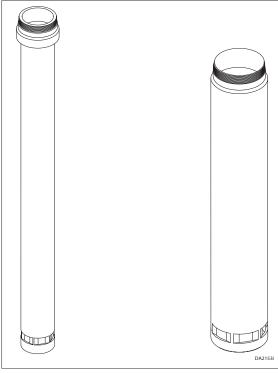
Light Trollev

> Top of Trolley

Casting

DA2256

Top of Collar



Light Down Tube Weldment

Ceiling Height

inches (cm)

96*/98 in. (244/249 cm)

99/102 in. (251/259 cm)

103/106 in. (262/269 cm)

107/110 in. (272/279 cm)

111/114 in. (282/290 cm)

115/118 in. (292/300 cm)

119/122 in. (302/310 cm)

123/126 in. (312/320 cm)

>126 in. (320 cm)

Monitor Down Tube

Assembly

Dash No.

-00

-01

-02

-03

-04

-05

-06

-07

-08

-07

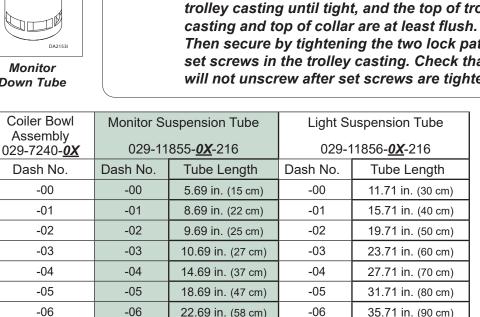
-08

Step 3:

WARNING These are easily cross-threaded. Ensure down tubes are fully threaded in to castings and all set screws are installed in place and securely tightened. Failure to do so could allow monitor or light tubes to separate from trolley castings, resulting in serious personal injury to patient or staff.

> Screw the monitor down tube into the monitor trolley casting as far as possible then secure by tightening the two lock patch set screws in the trolley casting. Check that tube will not unscrew after set screws are tightened.

Screw the light down tube weldment into the light Step 4: trolley casting until tight, and the top of trolley casting and top of collar are at least flush. Then secure by tightening the two lock patch set screws in the trolley casting. Check that tube will not unscrew after set screws are tightened.



-07

-08

Note:

The "Tape Color" Column corresponds to the correct tape color on the VGA and Coax Harnesses for a specific suspension tube. That color will be exposed directly beneath the coiler bowl assembly. If you should ever move this unit to another location with a different ceiling height, you will need different down tubes and the harness will have to be retracted or extended in the coiler bowl until the correct tape color is exposed.

39.71 in. (101 cm)

43.71 in. (111 cm)

Tape

Color

(See Note)

Red

Orange

Yellow

Green

Blue

Violet

Grey

Brown

Black

26.69 in. (68 cm)

30.69 in. (78 cm)

Light Flex Arm Connections and Installation

Note

Have an assistant support the Flex Arm as you make the connections necessary for installation.

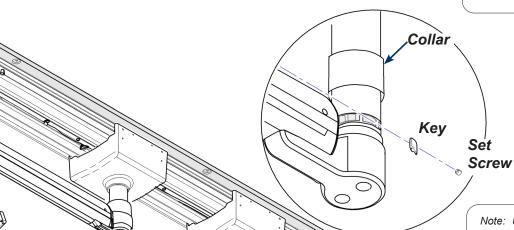
Step 5: Connect Light Flex Arm

- A) Connect the light cable connector to the pivot arm.
- B) Position any excess cables into the down tube.



Equipment Alert

To ensure quiet operation, apply a thin coat of lubricant to the inside of the light down tube and to the outer surface of the bearing shaft.



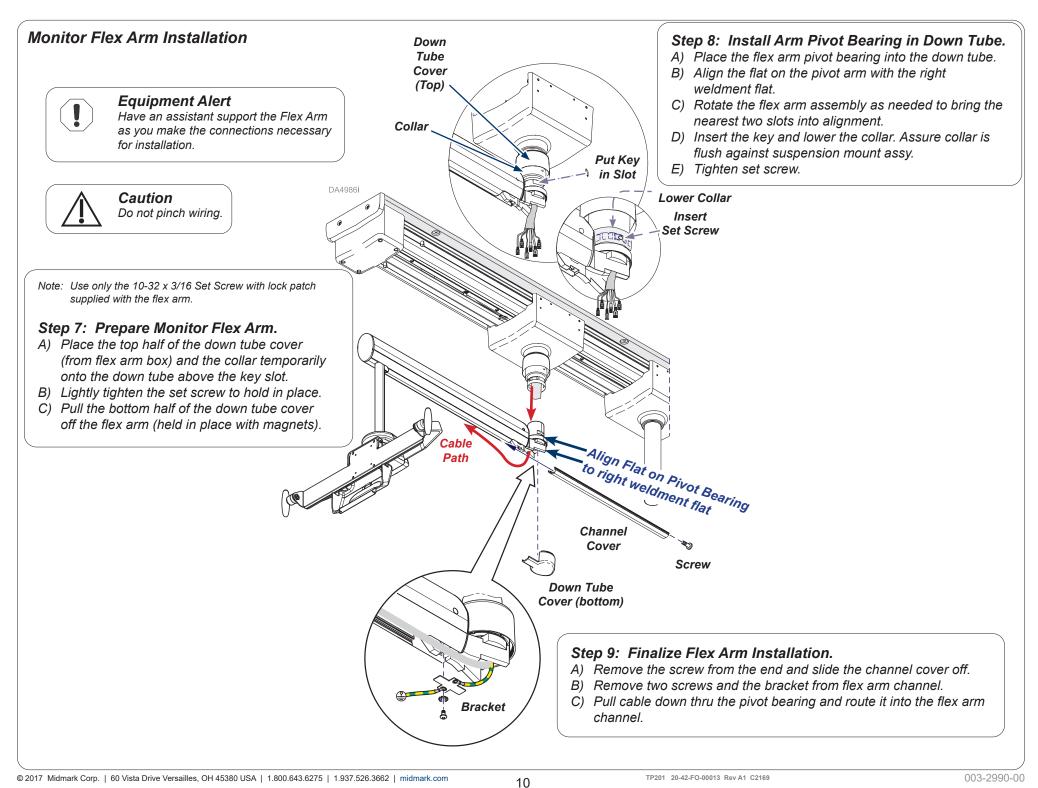
Set Screw

hole

Note: Use only the 10-32 x 3/16 Set Screw with lock patch supplied with the Flex Arm.

Step 6: Install Light Flex Arm

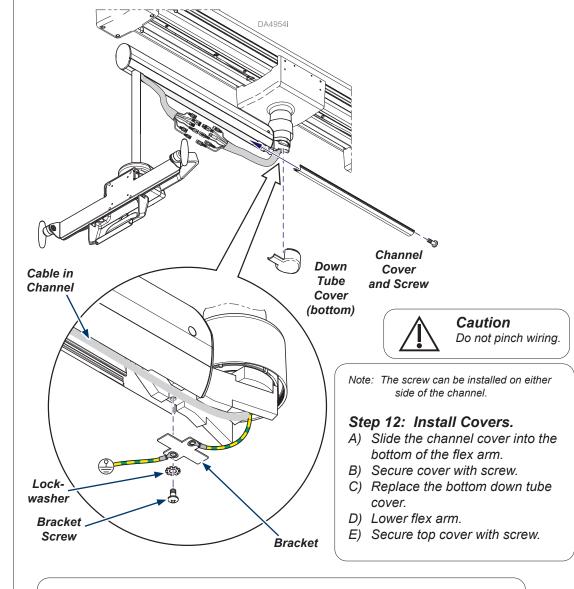
- A) Place collar on down tube.
- B) Slip the flex arm into down tube.
- C) Align the flex arm with the track, light facing the head end (set screw hole will be 180° across from flex arm).
- D) Rotate flex arm as needed to align nearest two mating slots and insert the key.
- E) Lower collar over key. Assure collar is flush against suspension mount assy.
- F) Tighten set screw.



Flex Arm Cable Connections

Note: Cable connections are staggered for a better fit along the length of the channel.

Step 10: Route the A/V cable into the flex arm channel as shown.



Step 11: Install Bracket.

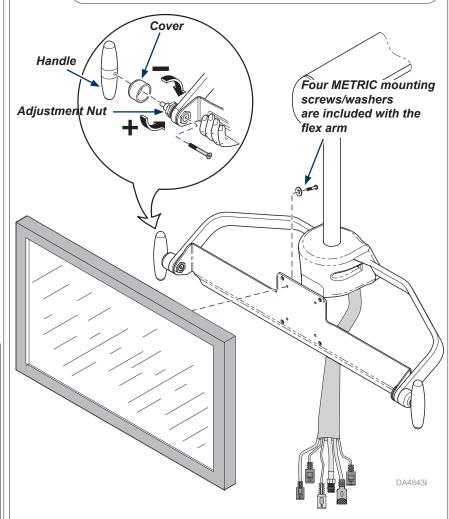
A) Install two lockwashers and screws in bracket, securing the cable in place.

Monitor Mounting and Tension Adjustment

To adjust tension on monitor mount...

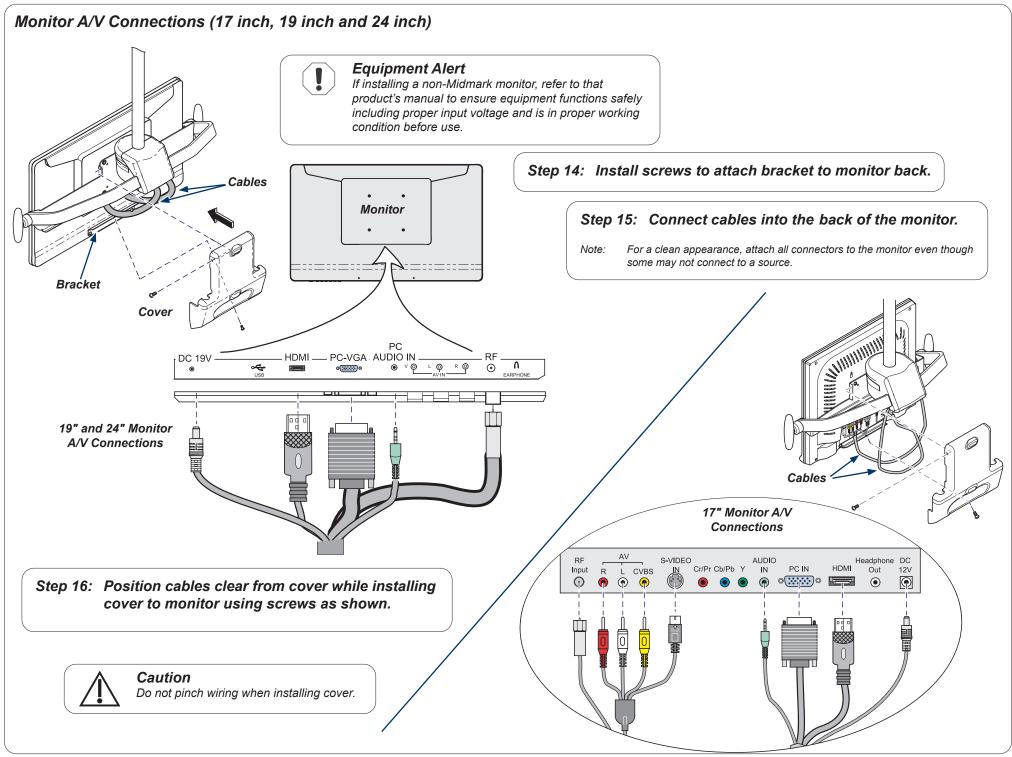
Remove screw, handle and cover. While holding mount, turn adjustment nut to increase or decrease the tension.

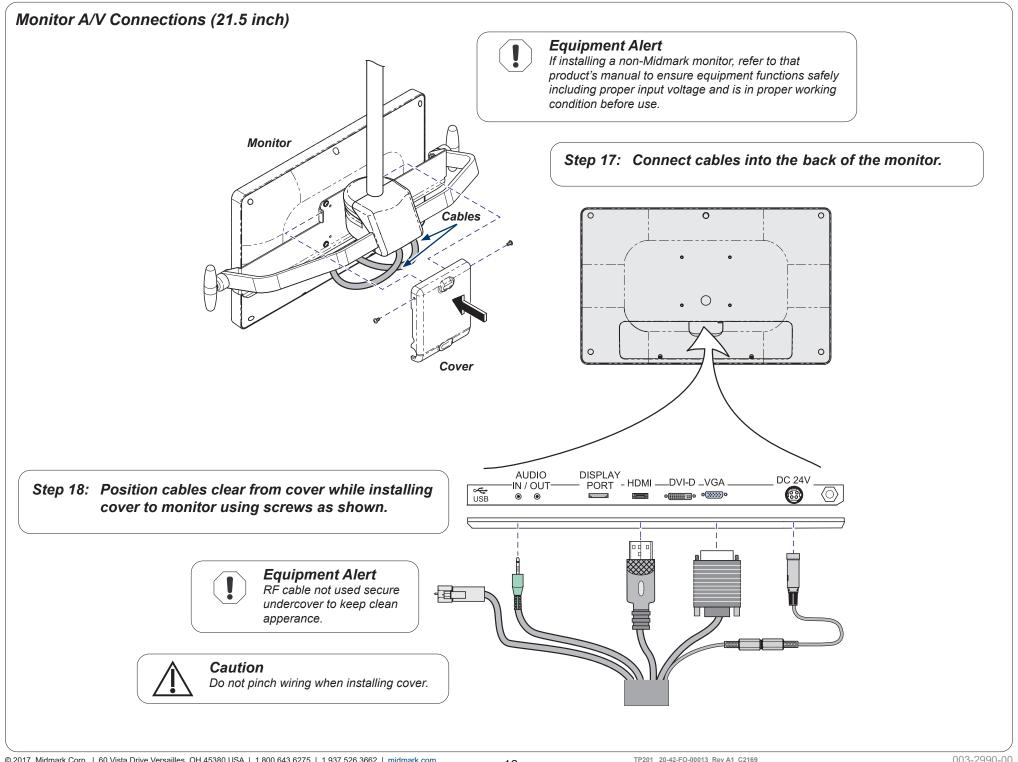
Note: Remove monitor from mount before adjusting tension.



Step 13: Mount the monitor on the arm assembly.

A) Insert the four screws included with the monitor thru the hoop arm assembly mounting plate and into the back of the monitor as shown.



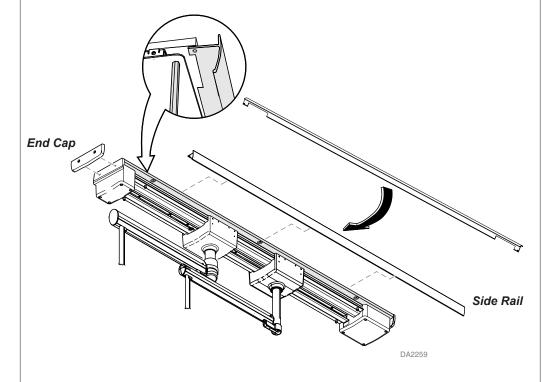


Side Rail Installation

Note: The side rails are notched at each end to prevent them from hitting the mounting brackets on the track.

Step 19: Remove the two screws and the end cap from the front end of the track.

Step 20: Use a rubber mallet to lightly tap the side rails into the space between the track extrusion and the backer board.



Step 21: Secure the end cap on the front end of the track with two screws.

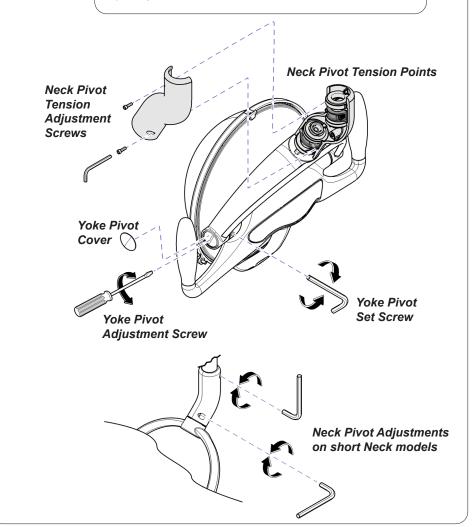
Tension Adjustments

To adjust the Neck Pivot tensions...

- A) Insert Allen wrench into the neck as shown (cover is removed in illustration so you can see the tension points inside.)
- B) Loosen or tighten appropriate screws to adjust tension.

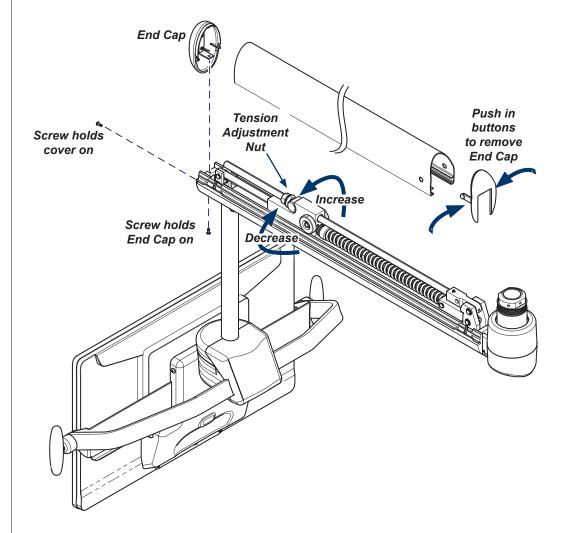
To adjust Yoke Pivot tension...

- A) Remove Yoke Pivot cover.
- B) Loosen set screw.
- C) Loosen or tighten tension adjustment screw.
- D) Tighten set screw
- E) Replace the Yoke Pivot cover.

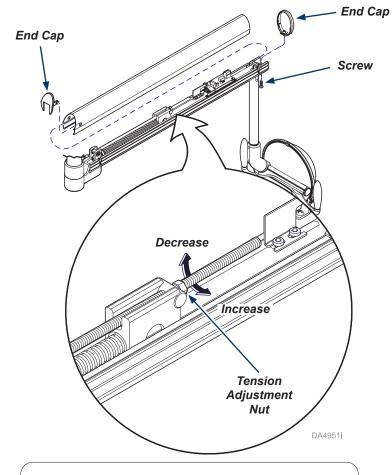


Monitor and Light Flex Arm Tension Adjustments

Monitor Flex Arm Tension Adjustments



Light Flex Arm Tension Adjustments



To adjust Flex Arm tension...

- A) Remove end cap and top cover as shown.
- B) Loosen or tighten adjustment nut as desired.

Note

Refer to manufacturer's manual for monitor specifications/ information on service and warranty for the monitor and remote control. The model and serial number will be required.

Step 22: Connect facility power and verify operation.