

Setup and Operation Manual



Your Digital STARLAB® is entitled to FREE lifetime technical support. If you have any questions not covered by this guide, or if you do not feel comfortable performing any of the recommended operations, please do not hesitate to call us.

Science First®/ STARLAB®

86475 Gene Lasserre Blvd, Yulee, FL 32097 USA 800-799-8301 • 904-225-5558 • FAX 904-225-2228 • www.starlab.com

Getting Started

Thank you for your purchase of the Digital STARLAB[®] projection system. We welcome you to our family of educators! We hope the versatility and excitement inherent in the STARLAB[®] will be delighting your students and visitors for years to come.

In this section, we provide the information you need to set up and operate the Digital STARLAB[®] projection system and dome successfully. In addition, we include a number of maintenance tips to keep your STARLAB[®] system in peak operating condition.

Our commitment to you:

Science First[®] is committed to manufacturing the finest digital projection system available today combined with the highest possible level of service. You can contact us for any reason - a real person will answer the phone each time!

In addition to our team below (whom you may have met at trade shows throughout the country), our mechanical engineer and production foreman have spent many hours assembling our products from soup to nuts. If we don't know the answer the exact moment you call, we'll find it for you!

We are always looking for ways to improve our products and service in any manner possible. Have an idea? Please give us a call!

It is recommended that you contact Starlab prior to setting up your system for the first time.

Important Note: Your system has been carefully calibrated by Starlab. It does not need any further adjustment. **Do not** adjust any mechanical fasteners (e.g. screws), or computer/projector settings unless specifically directed to do so by a member of the Starlab Team! Damage to your system may occur, and any repairs needed may not be covered under warranty.



Nathaniel Bell, Company Co-owner, STARLAB[®] Technical Support

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Helmut Albrecht STARLAB® Customer Service Specialist

Parts List



Digital STARLAB® with lens



MacBook Pro Computer



Projector Remote



Projector Power Cord



Speakers



Mini Display Port to HDMI Cable



Speaker Power Cord



Computer Power Cord

Set-Up Instructions

The projection system for the Digital STARLAB[®] is shipped in a single flight case.

This case doubles as the stand and also holds all of the accessories for the Digital STARLAB[®]. We have left plenty of extra room in the pockets for you to add your own equipment, if so desired.

See pages 5 - 6 for further instructions on using the case as a stand.





Digital STARLAB® Case in Stand Mode

Digital STARLAB® Case

Your Digital STARLAB[®] is entitled to free lifetime technical support. Our technical staff is standing by to assist you with any problems you may have.

Set-Up Instructions

- 1. Lay the Digital STARLAB® case flat on its bumpers so that the telescoping handle is near and parallel to the floor.
- 2. Open the case by pulling out and turning the keys to disengage the four latches located two on each long side of the case. To do so, pull the key up and turn to the left. Once all of the latches are disengaged, make sure to lay them flat again.
- 3. Place the top (lid) of the case (the smaller section) on the floor with the foam side down in the center of the dome. This is the base of the stand (see Figure 1).
- 4. Next, remove all of the components from the bottom of the case starting with the projector. Lift the projector from the sides where there are spaces in the foam (see Figure 2). Place it on a stable surface. Then remove all other components including the computer, two speakers, cables and remote.
- 5. Once empty, flip the case bottom onto its side so that the small latch hook on each long end is parallel to and near the floor.
- 6. In this position, place the bottom section of the case onto the top section (see Figure 3) so that the wheel side of the bottom section and the bumper side of the top section are on the same end. Align the latch hook with the latches (see Figure 4). Make sure that the latches are securely fastened and laid flat.



Figure 1



Figure 2



Figure 3



Figure 4

Set-Up Instructions

- 7. With the bottom of the projector facing away from you and fisheye lens pointing up, carefully slide the projector downwards onto the 2 brackets located on the upper left side of the stand (see Figures 6 and 7). Both projector hooks should fit securely in the brackets on the stand.
- 8. Next, connect all the cables to the projector. Attach both the power cord and the VGA cable. The VGA cable should then be plugged into the Mini Display Port on your laptop.
- 9. Plug the included speakers into an open USB port on your computer.
- 10. Once everything has been plugged in, turn on the computer and projector. The projector can be turned on with the remote or with the button on the bottom of the projector. Note: there is a master power switch next to the input for the cord. If your projector does not activate, you may need to flip this switch.
- 11. The final step is to load Starry Night[™] software. Double click the "Projector" icon. Immediately afterward, double click the "Small Dome" icon. The program will start after a brief boot- up period. It will automatically output to the projector.

Enjoy your system!



Figure 5



Figure 7

Shutting Down and Packing Up

- 1. Hit the "power" button twice on the projector (in the button panel) or on the remote to turn off the projector. It is important to leave the projector plugged in for a few minutes! This allows a fan to cool the bulb. Failure to do this may decrease the life of the bulb. During this period, you can pack up the other equipment.
- 2. Replace the cap on the fisheye lens.
- 3. Shut down the computer. To do so, close all applications then choose "Shut Down" under the Apple icon on the menu bar at the top of the screen (far left).
- 4. Unplug the speakers.
- 5. Unplug the power strip from the wall then remove all of the cords.
- 6. Remove all the cords from the computer and projector.
- 7. Make sure you have plenty of room and there are no trip hazards when removing the projector.
- 8. Remove the projector by lifting it straight up off the brackets and place it on a stable surface.
- 9. Next, undo the two latches connecting the top and bottom of the case and lay the latches flat.
- 10. Remove the bottom and lay it flat with the foam side up. Replace all of the components in their slots as shown in photo below.
- 11. Replace the top of the case and secure all four latches. Lay the latches flat.



Using the Controls:

The controls in Starry Night[™] are grouped in three areas of the screen:

- Toolbar
- Side Pane (for example: SkyGuide, Favorites, Options)
- Application Menu

If any of the controls described in this section are missing from your display, reinstall QuickTime and make sure to choose the Recommended Install option.

Toolbar

The toolbar is the strip of buttons above the main window. The toolbar has the following set of basic controls (each set of controls is explained in a later section):

- Time and Date
- Time Flow Rate
- Viewing Location
- Gaze
- Zoom

Side Panes

These panes are along the left side of the screen. They can be viewed as the following options:

- Favorites
- SkyGuide
- Options
- Media
- Find, info

Selecting an option from the drop-down menu causes that pane to open, revealing a set of controls.

Each pane opens to the same width. However, by clicking along the right edge of the pane and dragging the mouse, you can make the pane narrower or wider.

Within a pane, you can expand or collapse various layers by using these buttons:





Collapse layer.



SkyGuide Pane

The SkyGuide pane is different from the other panes. It functions a lot like a web browser and contains its own set of buttons to help you navigate through the pages. The SkyGuide Pane has the following controls:

Navigation

The navigation controls are located at the top of the SkyGuide pane.



Click "Back" to return to the page you last visited. Click again to move back through all the pages you've seen.



Click "Forward" to go forward again through the same pages.



Click "Home" to go to the main SkyGuide page.



Click "Refresh" to reload the initial view in the sky window.



Click "Remove Slides" to remove all media playing on the dome.



Click "Table of Contents" to display a list of all topics and tours that SkyGuide offers.



Click "Page Forward" to move to the next page in SkyGuide.



Click "Page Back" to move to the previous page in SkyGuide.

Page Path

Each page includes a menu to help you remember the way you came. It indicates where you currently are in SkyGuide.

SkyGuide » Using Starry Night » Important features » Using the controls

Application Menu

The menu runs across the top of the screen, above the toolbar. Clicking an item in the menu reveals additional options.

File Edit Options Labels Favourites Window Help

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Changing Your Viewing Direction

By default, Starry NightTM always opens with your view facing south, looking slightly above the horizon. **You can adjust this view to look in any direction**. The default cursor icon in Starry NightTM is a hand. When you hold the mouse button down, the hand closes, as if it's grabbing part of the sky. If you hold the mouse button down and drag the mouse, your view shifts in the direction that you moved the mouse.

Zenith and Nadir Markers



If you adjust your view to look high above the horizon, you might see a red marker. **This marker identifies the zenith**, the point in the sky that is directly above your head. If your view is from a point in space, you can also look straight down to see a marker for the nadir, the point directly beneath your feet. If your view is from a spot on Earth or another planet, you can look only slightly below the horizon and cannot see the nadir.

Gaze Control

The gaze display in the status bar shows the direction you're looking.

- Altitude (Alt) measures the angle above the horizon in degrees. An altitude of zero degree means you're looking straight ahead; 90 degrees means you're looking straight up.
- Azimuth (Az) indicates the direction you're facing: zero degrees is north, 90 degrees is east, 180 degrees is south, and 270 degrees is west. You can also use the compass points marked along the horizon to determine your viewing direction.



Location Scroller

The location scroller is another way of changing your location when your view is from high above an object. The location scroller cursor looks like a compass with arrows radiating from four sides. If you click and drag the cursor, you can move all around an object. This offers fantastic views of the planets and solar system. For instance, if you're high above the surface of Saturn, use the location scroller to turn the planet and see the rings from every angle.

The location scroller can help you get a real sense of the three-dimensional relationships among objects in our solar system and beyond. As you explore the tours in SkyGuide, the location scroller appears automatically when appropriate. In these cases, you can click and drag the cursor to change your perspective. To change the hand tool to the location scroller tool, hold down the Shift key and drag the cursor, or select it from the cursor drag-down menu.

Changing the Date and Time

When you open Starry NightTM, you see a view of what you would see if you stepped outside at the current time and looked south. **The date and time are in the upper left corner of the toolbar.**



To change the date or time, click on the symbol. The date or time lights up and you can type in a new value. To change the month, use the up and down arrow keys on your keyboard. If your mouse has a wheel, you can use it as well. If Starry Night[™] is showing a daytime scene, try changing the time to nighttime. If you already see a night scene, change the time to the daytime. Clicking on the "am/pm" next to the time will automatically switch between the two, a jump of 12 hours. For example, if is 9 in the morning when you click this icon, it will become 9 at night.

A. Customizing Time Flow

By default, time in Starry NightTM advances at the same rate as real time. If you run Starry NightTM for one hour, its time advances one hour (unless you're in one of the SkyGuide tours where we've adjusted the time rate for a demonstration). As the time in Starry NightTM changes, the screen changes to reflect the changing sky.



Just as nature programs use time-lapse photography to show processes too slow to see in real time, you can speed up or slow down time to get the best view of an astronomical event. The rate of time's flow is shown in the Time Flow Rate section of the toolbar. Clicking the black area to the left of the rate opens a menu that displays a list of possible time steps. The steps are in two categories: multiples of real time and discrete time steps.

1. Multiples of Real Time

Time steps that are multiples of real time advance time in Starry NightTM at a rate equal to a multiple of the real rate of time flow. For example, a time-step of 30x would cause the time in Starry NightTM to advance at 30 times the real rate.



Time Flow 1x (Real time) 30x 300x 3000x 30000x Discrete Time Steps seconds minutes hours sidereal d. days lunar m. years

2. Discrete Time Steps

Discrete time steps move the time by a specific increment every time Starry NightTM updates the display. Discrete time steps are often useful when you're watching astronomical events. For example, if you wanted to see how Jupiter's position changes over the next few months, you could set the *time* to 9 PM in the evening and then set the *time step* to one day. Starry Night[™] would run time forward, showing the sky at 9:00 PM each night. If you had chosen a multiple of real time instead of a discrete time step, you would see an alternating cycle of day and night, instead of seeing the sky at the same time each night.

Some of the discrete time steps listed in the menu might be unfamiliar:

- Sidereal day: This is the time it takes for Earth to rotate once on its axis. It is four minutes shorter that the day we are familiar with, the solar day. Sidereal and solar days differ in length because of the revolution of Earth around the Sun.
- *Lunar month*: This is the time between two full moons, as seen from Earth. It is about 29 days.

C. Customizing Time Steps

You are not limited to the time steps that appear in the time step pull-down menu. If you click the numerical part of the current time step, it lights up and you can type a numerical value. This will let you change the time step from one day to seven days, for example.

You can change the way time is flowing using the following controls in the toolbar.

- Click "Single Step Backward" to move the time back by one time step and then freeze it.

Click "Backward" to run time backward continuously. Each time the screen is updated, the time moves backward one time step.

Click "Stop" to freeze time at the current value.



Click "Forward (Play)" to run time forward continuously. Each time the screen is updated, time moves forward one time step. This is the default time flow mode.



If you want to view the sky at a specific time, first click the "Stop" button, and then type in the viewing time. If you type in the viewing time first, the time shown onscreen might update before you press the "Stop" button.

There are three short cut keys that play and stop time:

- The period key (.) stops time
- / The slash key (/) means routine forward
- The comma key (,) runs time backwards

Changing Your Home Location

The first time Starry NightTM opens, a dialog box opens that asks you to set your home location. Once you have done this, you do not need to change your home location unless you move. To change your home location, follow these steps:

- 1. Choose "Starry Night[™] Small Dome Edition > Set Home Location". This displays a list of cities throughout the world.
- 2. Use the scroll bar on the right to look through the list. If your home city is listed, click on its name to highlight and click "Save As Home Location". If your city is not listed, proceed to step three.
- 3. Click the "Latitude/Longitude" tab. Enter your latitude and longitude. You can enter values in degrees; degrees and minutes; or degrees, minutes and seconds. You must also enter a time zone, which is calculated according to the time difference from London, England. For example, all communities on Eastern Standard Time are five hours behind London, so you would enter "-5h", if you are on Eastern Standard Time. If you do not know your latitude, longitude, and time zone, click "Lookup Lat/Long" on Internet for resources that will help you find this information.
- 4. Once you have entered your coordinates, click "Add Location to List". This opens a window for you to enter your city, province or state, and country. Click "Add Location" when you have entered this information.
- 5. Finally, click "Save As Home Location".



Viewing Location

The viewing location display tells you from where in space you are viewing. If you are viewing from the Earth, your city name will show up in the display. If you are observing from another planet, the display shows this information.



Identifying Objects in the Sky

If you point your cursor at any object shown onscreen, information about the object appears. This is Starry NightTM's Heads-Up Display (HUD).

Labeling Objects

While the heads-up display (HUD) is great for finding out what a specific object is, the best way to quickly identify all the bright objects on the screen is to select "Labels-Show all labels" from the application menu.

To remove the labels, select "Labels-Hide all labels".

Displaying Constellation Figures

For thousands of years, stargazers have joined the brighter stars together into patterns we call constellations. Astronomers recognize 88 constellations, which together cover the entire sky. Knowing which constellation an object is in is the first step to finding the object.

To turn on the stick figures for the constellations press the "K" key on the keyboard. Press "K" again to toggle them off. More constellation display options are located in the "Constellations" layer of the "Options" Pane.

Finding Objects

If you are interested in finding a specific object, such as a planet or a bright new comet, select the "Find" side pane. Click inside the text box at the top of this pane and type in the first few letters of the object you are looking for. As you type, Starry NightTM displays a list of objects that match your name.

Once the object that you are looking for appears in the list, double-click on its name, and Starry Night will centre on the object. Several information fields are listed beside each object in the list of found objects.

Tip: The object you are searching for may be hidden beneath the horizon. If this is the case, Starry Night[™] will offer you the option of hiding the horizon or advancing the time forward to a time when the object will be above the horizon. Objects below the horizon are greyed out.

Searching a Specific Database

By default, Starry NightTM searches all of its object databases when you use the "Find" pane. If you wish, you can choose to search in only a specific database by clicking the magnifying glass symbol on the left side of the textbox in the "Find" pane and choosing the appropriate database from the menu that appears.

Solar System Object List

If you clear the text box at the top of the "Find" pane, the list of items found is replaced by a list of solar system objects. Click the symbol to the left of an object's name to expand the list to include all other objects that orbit this object.

For example, clicking on this symbol for Jupiter will expand the list to include Jupiter's moons. Clicking again collapses the list and hides Jupiter's moons. You can double-click on any object in this list to centre on the object in Starry NightTM main window.

	Search All Databases						
	Solar Sys	tem li	tems				
	Name			Alt	Kind		
•	Sun		0	-5°	Sun		
•	Mercury		0	3*	Planet		
•	Venus		0	-25°	Planet		
•	▼ Earth		0		Planet		
•	The Moon		0	-21°	Moon		
	► Satellites						
•	▶ Mars		0	2*	Plane		
•	Jupiter		0	12°	Planet		
•	 Saturn 		0	-14°	Planet		
•	 Uranus 		0	-6*	Planet		
•	Neptune		0	4°	Plane		
•	Pluto		0	31°	Plane		
	Comets						
	Asteroids						

Search All	
Search Solar System	
Meteor Showers	
Orbiting Objects	
Search Constellations	
Asterism	
Constellation	
Constellation or Asterim	
Search Standard Databases	
Bright NGC Objects	

Selecting and Centering Objects

You can open a contextual menu in Starry Night[™] by pointing the cursor at any object in the sky and right-clicking or control-clicking. The contextual menu provides options specific to that object.

- *Select/deselect*: This selects or deselects the object. If an object is selected, its name and an arrow pointing to the object will appear onscreen.
- *Center*: This adjusts your view so the object is at the center of the screen and remains locked there as time passes. This is handy if you want to watch a planet's motion against the background stars, for example. **Note**: If you are centered on an object and it falls beneath your horizon, your view will be obstructed by the horizon.

Magnify: This zooms in on the object so that you get a close-up view. Objects within our solar system and many deep-space objects have detailed images.

Selecting Multiple Objects

To select more than one object, hold down the "Shift" key while selecting the next object. This is a handy feature, allowing you to label only the objects you want on the screen. For example, you might only want to display the constellation Orion, label the star Rigel and the deep sky object M42.

Zooming in On Objects

You've learned that you can zoom in on an object by opening its contextual menu and choosing "Magnify". Another way to get spectacular close up views of objects such as Saturn or the Andromeda Galaxy is to use the buttons next to the zoom display.

Click the "plus" (+) button to zoom in closer and the minus button to zoom back out. If your mouse has a scroll wheel, you can also use that to zoom in and out. The default zoom gives the largest view of the sky, which is 190 degrees. You can zoom in up to 300,000 times!

When you zoom in on objects, you are not changing your location or your elevation. Think of zooming as looking through a powerful telescope while your feet remain firmly planted.



Determining Distances Between Objects

To determine the distance between two objects as seen from your current viewing position, use the "angular separation" tool. To use this tool, hold your hand cursor over an object until it turns into an arrow. Then click on that object and drag to another.



Changing Your Horizon

By default, Starry Night[™] shows a photo-realistic horizon. However, you might want to change your horizon to something else, perhaps a photo-realistic horizon of your backyard that you created yourself.

To change the horizon options, go to the Options Pane. Select "Local View > Local Horizon" from the application menu. Under "Earth horizon" you will find a list of different horizons you can try.

Changing Your Elevation

You might want to place yourself at some distance above a planet's surface. You can change your elevation above an object's surface in Starry NightTM with the elevation buttons in the "Viewing Location Display" of the toolbar.

Safety Features and Information

Safety Rules

In order to maximize the overall quality of your experience, ensure safety and make certain that the system components are not damaged in any way, it's important that you review and follow this safety information when using the STARLAB[®].

- 1. The STARLAB[®] should always be set up in an open space such as cafeteria, gym, multipurpose room or large classroom. Do not set up on a stage. It is not designed for use where exits are blocked or ceiling height is low.
- 2. Allow at least 18 inches above the dome for a sprinklered ceiling; allow at least 12 inches above the dome for a ceiling with incandescent lighting; allow at least 6 inches above the dome for a ceiling with fluorescent lighting.
- 3. When setting up the dome, be sure to avoid blocking the exit paths out of the room.
- 4. Never set up the STARLAB[®] dome near an open flame, incandescent lighting, radiators, space heaters or other heat source. Never allow anyone who is smoking in or near the dome.
- 5. Students should never be left alone in the STARLAB[®]. The instructor should always be the first one in and last one out of the dome.
- 6. When leaving the STARLAB[®] dome, the instructor should check to make sure there is no one remaining in the entrance.
- 7. Always make sure there is a clear path out of the STARLAB® in the event of an emergency.
- 8. Safety rules and evacuation procedures should be reviewed with the students before the start of each STARLAB[®] lesson.
- 9. Do not allow food or drink inside the STARLAB® dome as it could damage the equipment.
- 10. Do not set up the STARLAB[®] outdoors. It is not designed to be exposed to moisture and direct sunlight, and even a gentle breeze could move the dome when it is inflated.

Safety Facts

- \bullet The $\mathsf{STARLAB}^{\circledast}$ dome has two means of egress:
 - 1. Through the entrance tube and,
 - 2. By lifting the side of the dome occupants can exit in seconds because the dome has no floor
- It requires 8 lbs of force to lift the side of the Standard Dome and 14 lbs of force to lift the side of the Giant Dome.
- In the case of a power outage, it takes 42 minutes for the ceiling of the Giant Dome to settle to a level of 6 feet from the ground.
- Air circulates through the dome continuously, with a complete fresh air exchange rate of every 6 minutes for the Standard Dome and 24 minutes for the Giant Dome.
- The STARLAB[®] Blower is UL rated.

Recommended Emergency Lighting Options

- Working flashlight
- Battery back-up UPS (uninterrupted power supply) rated at 180 watts
- Rechargeable lantern
- Photoluminescent exit sign

Troubleshooting

It is recommended that you contact Starlab prior to setting up your system for the first time.

What do I do if the system won't come on?

- 1. Check to make sure all the cords are firmly plugged in.
 - Note: there is a master power switch next to the input for the cord. If your projector does not activate, you may need to flip this switch.
 - When the computer has power, the end of the power cord will glow orange
- 2. Press the start-up buttons on the projector and computer
 - The projector will display a white screen with the "infocus" name. It takes about 2 minutes for the bulb to warm up.
 - If the computer has been completely powered down, it will take about 1 minute to boot.
- 3. If you are still experiencing problems, contact us.

What do I do if everything is on but the projector won't display an image?

- 1. Make sure the VGA to Mini Display Port cord is fully engaged,
- This cord fits in the Firewire and Ethernet ports as well so be sure it is in the correct port!
- 2. It is possible the projector is looking for a signal in an unoccupied port. Press the "auto image" or "source" buttons on your remote to tell the projector to try other ports.
- 3. Click the "live" button in the upper left hand corner of the Starry NightTM window. This allows Starry NightTM to "talk" to the projector.
- 4. The computer has been programmed to detect the projector automatically. If you see the computer screen flash blue, the computer has found the projector.
 - If you see the screen flash blue but still have no image, reboot the projector. You can do this by turning it off and then turning it on again.
 - If you reboot the projector and still have no image, contact us..

What do I do if the Starry NightTM software won't load?

- 1. It is possible, though unlikely, that the Starry Night[™] software made a mistake upon loading.
 - To mitigate this, close the program and reopen it.
- 2. If you have an image but no way to manipulate it, the likely cause is that the "Starry Night[™]" and "Projector" windows are reversed.
 - To fix it, close the program.
 - When you reopen the program, double click on "Projector" first and "Starry NightTM" second.
- 3. If you are still experiencing problems, contact us.

What do I do if my projection isn't level?

The projector lens can be releveled. However, we strongly discourage attempting to do this by yourself.

If you have any issues with a level horizon, it is highly recommended that you contact us immediately.

Troubleshooting

Important Note: Do not adjust any screws, bolts, or settings unless specifically directed to do so by a member of the Starab Team! Damage to your system may occur!

What do I do if my projected image is "warped"?

- 1. The projector is designed to accommodate a varying amount of screen sizes. The aspect ratio for each of these sizes is different.
 - If your image is warped, the most likely explanation is that the wrong aspect ratio has been selected on the projector.
 - To mitigate this, locate the "resize" button on your remote.
 - Press the "resize" button until the image is no longer warped.
- 2. It is possible that your display windows are "mirrored". This means the computer will output what you see on the screen to the projector, instead of splitting the images as it should.
 - To undo this, find the small rectangular icon in the status bar at the top of your screen. Click it to reveal display options.
 - Select "Turn off mirroring". The image should automatically revert. If not, reboot Starry NightTM.
- 3. If you are still experiencing problems, contact us.

What do I do if my image isn't focused?

- 1. Your Digital STARLAB[®] is focused in the factory. However, rough handling in shipping can knock the focus out of alignment,
 - Caution: do not try to focus the lens before reading these instructions! Permanent damage may occur!!
- 2. To focus, you will need the small hex driver which was included with your system.
 - Locate the three small set screws roughly 1 inch (1") down from the top of the lens.
 - Gently loosen the screws. They are very short, so take care not to remove them completely. A few turns of the screwdriver will do.
 - Twist the lens clockwise or counterclockwise until the desired focus is achieved.
 - Tighten the set screws. Take care not to over tighten!

Your Digital STARLAB[®] is entitled to free lifetime technical support. If you have any questions not covered by this guide, or if you do not feel comfortable performing any of the above operations, we encourage you to call us. Our technical staff is standing by to assist you with any and all problems you may have. Remember, there is no such thing as an unnecessary question!