

(for Analog Instruments and Dive Computer Modules)

## Boot Installation/Removal Instructions

and

## Owner's Guide

(Pressure Gauge, Depth Gauge, Compass)

# Analog Instrument



### WARRANTY

Aeris' 2 year Limited Warranty protects your instruments with full coverage of parts, that are found to contain manufacturers defects. It does not extend to damage due to abrasion, cuts or tears of rubber boot, hose-end or HP swivel O-rings, hose fitting corrosion or chrome loss, natural rubber U.V. or chlorine degradation, scratches to the instrument face. For warranty coverage to be in effect, you must be registered as the original owner with Aeris. Be certain that you have filled out and sent in your Warranty Registration Card to validate warranty coverage. Keep the Owner portion of the card, no other warranty validation will be sent to you.

### ANNUAL INSPECTION

Once each year, return the gauge(s) to your Authorized Aeris Dealer for inspection. The authorized dealer service technician will inspect the gauges, verify accuracies, and replace the pressure gauge HP swivel. Note that the cost of inspection is not covered by the 2 year limited warranty.

### POST DIVE MAINTENANCE

At the end of each day of diving:

- Immerse the instrument in fresh water (warm water is best).
- Soaking for one hour minimum is best.
- Flush with running fresh water, flushing any holes or slots on the rear of the instrument boot.
- Towel dry before transporting or storing.
- Keep out of direct sunlight.
- Transport in a padded carrying case or equipment bag separated from heavy items (i.e., First Stage) that might damage the instrument face. Do Not transport in the hot trunk of a car.
- Store in a cool, dry place.

### AERIS SUBMERSIBLE PRESSURE GAUGES

- Manufactured in San Leandro, CA., USA, by Pelagic Pressure Systems
- Meet the test requirements of EN250 Standards.
- EC Type examination by -

SGS House, 217/221 London Road, Camberly, Surrey GU153EY  
Notified Body No. 0120

## FEATURES AND USE

**⚠ WARNING: Improper use of the Instruments may result in serious injury or death. Read and understand these instructions thoroughly before you dive with any Aeris Instrument.**

- Aeris instruments should not be used by anyone who has not received proper training and certification in scuba diving.
- Aeris promotes responsible diving practices and does not advocate decompression diving, or diving deeper than the limits of your training and experience.
- Never spray aerosols of any kind on, or near, an instrument. Propellants may chemically attack the plastic.
- Never poke any object through slots or holes on the rear of the instrument. Doing so may damage mechanism resulting in inaccurate readings.
- Never attempt to disassemble an instrument module for any reason.

### PRESSURE GAUGE:

- Maximum Pressure = 5,000 psi (350 BAR)
- Temperature = 0 to 100°F (-5° to 45°C)
- Thread Size = 7/16 - 20 UNF

Attachment of the high pressure hose to the regulator first stage should be performed by your Authorized Aeris Dealer. If this is not possible, proceed as follows:

- Locate your regulator's high pressure port (marked HP) and remove the port plug. If there is more than one HP port plug, determine proper orientation of the first stage on the tank before selecting a port (see first stage instructions).
- Place a small dab of halocarbon based lubricant (Christo-Lube MCG 111) on the hose end threads & o-ring.
- Thread the hose into the HP port and tighten until secure (35 to 40 inch pounds).
- To test the connection, attach the regulator to a full tank, pressurize the system, and listen for leaks.
- Always keep the pressure gauge dial away from your face when turning on your tank valve.
- Never obstruct the one-way vent valve located on the back side of the gauge.
- **Never attempt to remove the hose coupling from the pressure gauge module.**

### DEPTH GAUGE:

The Black Needle with the Red Tip indicates Current Depth, and as depth increases it pushes the thinner Needle. As depth decreases, the Black Needle with the Red Tip continues to indicate Current Depth while the thinner Needle remains at the Maximum Depth reading achieved. To reset the Max Depth (thinner) Needle for a new dive, turn the slotted Knob located in the center of the gauge face counter clockwise until it just makes contact with the Black Needle with the Red Tip.

- **Never obstruct the Depth Sensor opening located on the back side of the gauge.**

### COMPASS:

The Compass has a luminous card (instead of a needle) that allows use of either the relative or bearing methods of navigation. A side window with numeric heading assists you in keeping on course.

**Relative Method of Navigation** - Used for straight 'out and back' type travel.

- Use the rotating bezel on top of the compass and do not use the side window.
- Sight down the twin red lubber lines, pointing them toward your destination.
- Hold the compass level, and turn the bezel until zero(0) is directly opposite the north arrow on the dial.
- As long as you keep the arrow pointed at zero, you will be traveling toward your intended destination.

**To return to the point of entry:**

- Do not turn the bezel.
- Change your direction of travel so that the north arrow points to 180 degrees on the bezel.
- You will then be positioned for travel in the opposite (return) direction.

**Bearing Method of Navigation** - Used to reference headings on a map, or follow a multi-leg course.

- Rotate the bezel until zero (0) is at the far end of the twin lubber lines.
- Leave the bezel fixed in place, it is not used with this method.
- View the compass headings directly through the side window.
- Sight down the twin lubber lines toward your destination.
- Look at the side window and note the heading.
- Maintaining this heading in the window will assist you with travel in the desired direction.
- If you can't see your destination but have the heading noted on a map, look at the side window while turning your body until the correct magnetic heading is shown.

**To reverse course:**

- Turn your direction of travel until a number that is 180 degrees away from the prior heading is reached.
- Find this number by looking at the bezel numbers and find which heading is immediately across from the original heading. Turn until this number is in the side window.

**⚠ NOTE: These instructions are not intended to replace proper instruction in underwater navigation. See your Authorized Aeris Dealer for more information about courses or literature concerning underwater navigation methods.**

## INSTRUMENT BOOT INSTALLATION/REMOVAL INSTRUCTIONS

### Installing Instruments in Wrist Boots:

- Orient the module over the cavity in the boot and dip the bottom edge into the cavity while pressing the top edge with the palm of your hand. Stop pressing when the bottom ridge of the module has just entered the rubber boot.
- Correct the alignment of the module as needed so that it is straight.
- Press the module completely into place, watching the alignment, until it “snaps” into the boot.

### Installing Instruments in Navcon Boots:

#### Install the Depth Gauge, or Computer Module -

- Orient the console so the module cavity faces up. Orient the module over the upper cavity in the boot and dip the bottom edge into the cavity while pressing the top edge with the palm of your hand. Stop pressing when the bottom ridge of the module has just entered the rubber boot.
- Correct the alignment of the module as needed so that it is straight.
- Press the module completely into place, watching the alignment, until it “snaps” into the console.

#### Install the Pressure Gauge -

- Spray a light amount of food grade only silicon into the pressure gauge cavity of the boot where the hose passes through the handle.
- Insert the regulator end of the hose down through the pressure gauge cavity of the boot and firmly push it out through the handle opening.
- Pull the hose through the handle of the boot until the pressure gauge module is above the opening of the pressure gauge cavity.
- Grasp the top (compass) portion of the boot with one hand and slowly bend downward as you push the pressure gauge module down into place. After the pressure gauge is in the console, it may be necessary to squeeze the edges of the cavity opening until the lip covers the outside diameter of the pressure gauge lens. Use care not to cut or tear the lip of the boot cavity.

#### Install the Compass -

- Orient the console so the compass cavity faces up. Loosely position the module directly on the compass cavity of the boot, aligned with the side viewing window over the preferred viewing notch of the compass cavity of the console.
- With the palm of your hand, press directly down on the top of the compass until it snaps into place. Turn the compass bezel to ensure that rotates properly in both directions.

### Installing Instruments in Combo Boots:

#### Install the Depth Gauge, or Computer Module -

- Orient the console so the module cavity faces up. Orient the module over the cavity in the boot and dip the top edge into the cavity while pressing the bottom edge with the palm of your hand. Stop pressing when the bottom ridge of the module has just entered the rubber boot.
- Correct the alignment of the module as needed so that it is straight.
- Press the module completely into place, watching the alignment, until it “snaps” into console.

#### Install the Pressure Gauge -

- Spray a light amount of food grade only silicon into the pressure gauge cavity of the boot where the hose passes through the handle.
- Insert the regulator end of the hose down through the pressure gauge cavity of the boot and out through the handle opening.
- Pull the hose through the handle of the boot until the pressure gauge module is above the opening of the pressure gauge cavity.
- Grasp the top (depth gauge or computer module) portion of the boot with one hand and slowly bend downward as you push the pressure gauge module down into place. After the pressure gauge is in the console, it may be necessary to squeeze the edges of the cavity opening until the lip covers the outside diameter of the pressure gauge lens. Use care not to cut or tear the lip of the boot cavity.

#### Install the Compass (a) or Slate (b) -

- Orient the console so the compass cavity faces up. Loosely position the module directly on the compass cavity of the boot, aligned with the side viewing window over the preferred viewing notch of the compass cavity of the console. With the palm of your hand, press directly down on the top of the compass until it snaps into place. Turn the compass bezel to ensure that rotates properly in both directions.
- Orient the console so the compass cavity faces up. Loosely position the slate directly on the compass cavity of the boot, smooth side up, aligned with the slate’s double notches on each side of the boot’s side view notch. Push the slate down into the cavity until the edges snap into the groove in the inner wall of the cavity.

### Removal of Instruments from Wrist Boots:

- Peel the lips of the boot downward off the module while applying pressure from underneath, working the module out slowly.
- Only if necessary and using extreme care not to damage the instrument case, insert a blunt screwdriver down between the boot and the module until the tip rests just underneath the module.
- DO NOT pry the module from the boot! Slowly increasing pressure under the module will cause it to slide up the screwdriver and out of the boot.

### Removal of Instruments from Navcon Boots:

#### Remove the Compass -

- Place your thumb under the bezel at the side view window and lifting slowly upward. The module will pivot up and out of the boot. The module will pivot up and out of the boot.

#### Remove the Pressure Gauge -

- Orient the console so the pressure gauge faces up. Grasp the top (compass) portion of the boot with one hand and hose end of the boot with the other. Slowly bend both ends of the boot downward while applying firm upward pressure at the middle portion of the boot with one or both thumbs.
- The pressure gauge will be forced upward past the lip of the boot. Reposition the hand at the hose end of the boot so that you can push the hose into the boot and the pressure gauge out of its cavity while continuing to bend the boot.
- If necessary to remove the hose from the boot, pull it in through the pressure gauge cavity.

#### Remove the Depth Gauge, or Computer Module -

- Orient the console so the module faces up. Grasp the top (compass) portion of the boot with one hand and hose end of the boot with the other. Slowly bend both ends of the boot downward while applying upward pressure on the bottom of the module with one or both thumbs through the pressure gauge cavity.
- DO NOT pry the module from the boot! Slowly increasing pressure under the module will cause it to slide up and out of the boot.

### Removal of Instruments from Combo Boots:

#### Remove the Compass (a), or Slate (b) -

- Orient the console so the compass faces up. Remove the compass by placing your thumb under the bezel at the side view window and lifting slowly upward. The module will pivot up and out of the boot.
- Orient the console so the slate faces up. Remove the slate by placing your thumb between the slate and the boot at the area with the side view notch and lifting slowly upward. The slate will pivot up and out of the boot.

#### Remove the pressure gauge -

- Orient the console so the pressure gauge faces up. Grasp the top (module) portion of the boot with one hand and hose end of the boot with the other. Slowly bend both ends of the boot downward while applying firm upward pressure at the middle portion of the boot with one or both thumbs..
- The pressure gauge will be forced upward past the lip of the boot. Reposition the hand at the hose end of the boot so that you can push the hose into the boot and the pressure gauge out of its cavity while continuing to bend the boot.
- If necessary to remove the hose from the boot, pull it in through the pressure gauge cavity.

#### Remove the depth gauge, or computer module -

- Orient the console so the module faces up. Grasp the top (module) portion of the boot with one hand and hose end of the boot with the other.
- Slowly bend both ends of the boot downward while applying upward pressure with your thumb on the back side of the boot in the area of the module drain hole.
- Slowly increasing pressure will cause the module to slide up and out of the boot.

**△ NOTE: If you experience difficulty with installation and/or removal of any instruments take the products to your Authorized Acris Dealer for assistance. Instrument damage caused by use of tools for installation and/or removal is not covered by the product's warranty.**

