

1104L Catheter

To help prevent possible patient injury resulting from incorrect ICP measurements, follow the steps below before catheter implantation. Always make sure to adjust the catheter's ICP value to zero before implantation while the catheter is in the air. Never attempt to change the zero adjustment while the catheter is inside the patient.

Monitor Setup

1. Connect the black fiber optic catheter cable (CAMCABL) to the ports on the Camino monitor
 - Attach the cable's ICP connector (P) into the port labeled ICP by aligning the red dot on the cable connector with the red triangle on the monitor's port and push firmly
 - Since temperature is not measured with the 1104L catheter, connection to the port labeled ICT is not required; the temperature value on the monitor will appear as two dashed lines
2. Identify the appropriate catheter by the label on the outside of the box (see picture of label on right)
3. Using sterile technique, remove the inner catheter tray from its sterile package and place in sterile field
4. Using proper technique to maintain sterility, connect the preamp connector at the end of the CAMCABL to the black transducer connector at the end of the catheter
5. Check the monitor display to determine the ICP reading
 - If it does not read zero, press the SCALE button on the MAIN tab to select a waveform range of -10 to 20mmHg. Use the zero adjustment tool from the catheter kit to turn the screw on the bottom side of the transducer connector (Figure 1) until the monitor display reads zero by aligning the waveform line to the zero mark on the graph.
6. Prior to implanting the catheter into the patient, disconnect the preamp connector at the end of the CAMCABL from the black transducer connector at the end of the catheter
 - Ensure the black transducer connector does not breach sterility



Camino Monitor



ICP & ICT Ports



CAMCABL



1104L Catheter and Label

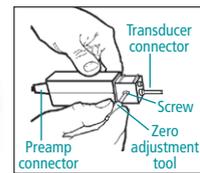
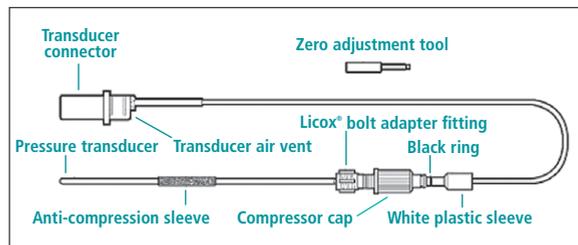


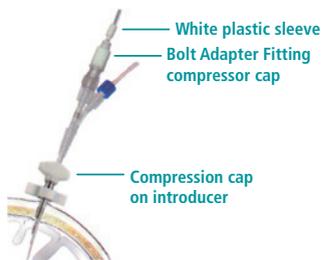
Figure 1



1104L Catheter Kit

1104L Catheter

The Camino 1104L Catheter is used with the Licox® Brain Tissue Oxygen introducer kits. The Licox bolt fitting kits each have a designated lumen for the 1104L catheter, labeled "ICP". The 1104L must be purchased separately from the Licox kits.



Catheter Placement

Refer to Licox bolt kit instructions for use or instruction cards for steps required prior to insertion of 1104L catheter.

1. Remove the ICP obturator from the introducer labeled "ICP"
2. Place the 1104L catheter into the lumen of the introducer labeled "ICP"
3. Engage the male and female luer-type connectors and tighten by rotating in a clockwise direction
4. Verify the shoulder of the white plastic sleeve on the 1104L catheter makes contact with the Bolt Adapter. Fitting compressor cap (tip will extend beyond bolt by 15mm)
5. Luer-type fitting for secure attachment with black ring indicator to ensure proper pull back of catheter

If a temperature probe will be used, refer to the Licox introducer instructions for use for the insertion of the temperature probe prior to tightening the compression cap on the introducer

6. Tighten the Bolt Adapter Fitting compressor cap (tip will extend beyond bolt by 12mm)
7. Rotate the compression cap of the introducer clockwise while holding the wings of the bolt (do not overtighten, finger tight only)
8. Reconnect the catheter to the CAMCABL and verify waveform on Camino monitor and/or bedside monitor

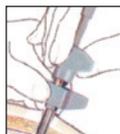
Refer to Licox bolt fitting kit instructions for use to ensure proper connections to the Licox monitor



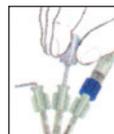
Remove obturator, insert 1104L



Retract until black ring is visible, tighten Bolt Adapter Fitting



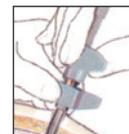
Tighten compression cap



Remove obturator, insert 1104L



Retract until black ring is visible, tighten Bolt Adapter Fitting



Insert temperature probe and tighten compression cap

natus.
neuro

Natus Neuro
3150 Pleasant View Road
Middleton, WI 53562 USA
Tel: 1-800-356-0007
1-608-829-8500
Fax: 1-608-829-8709
neuro.natus.com

The Camino ICP Monitor is indicated for use by qualified neurosurgeons or neurointensivists for measurement of intracranial pressure and temperature. The use of the Camino Intracranial Pressure and Temperature Monitoring Kit is indicated for use by a qualified neurosurgeon when direct measurement of intracranial pressure in the parenchyma is clinically important. The Camino Intracranial Pressure Monitoring Catheter with Licox® IMC bolt fitting, Model 1104L is intended to be used only through a Licox® Brain Oxygen Monitoring System Bolt.