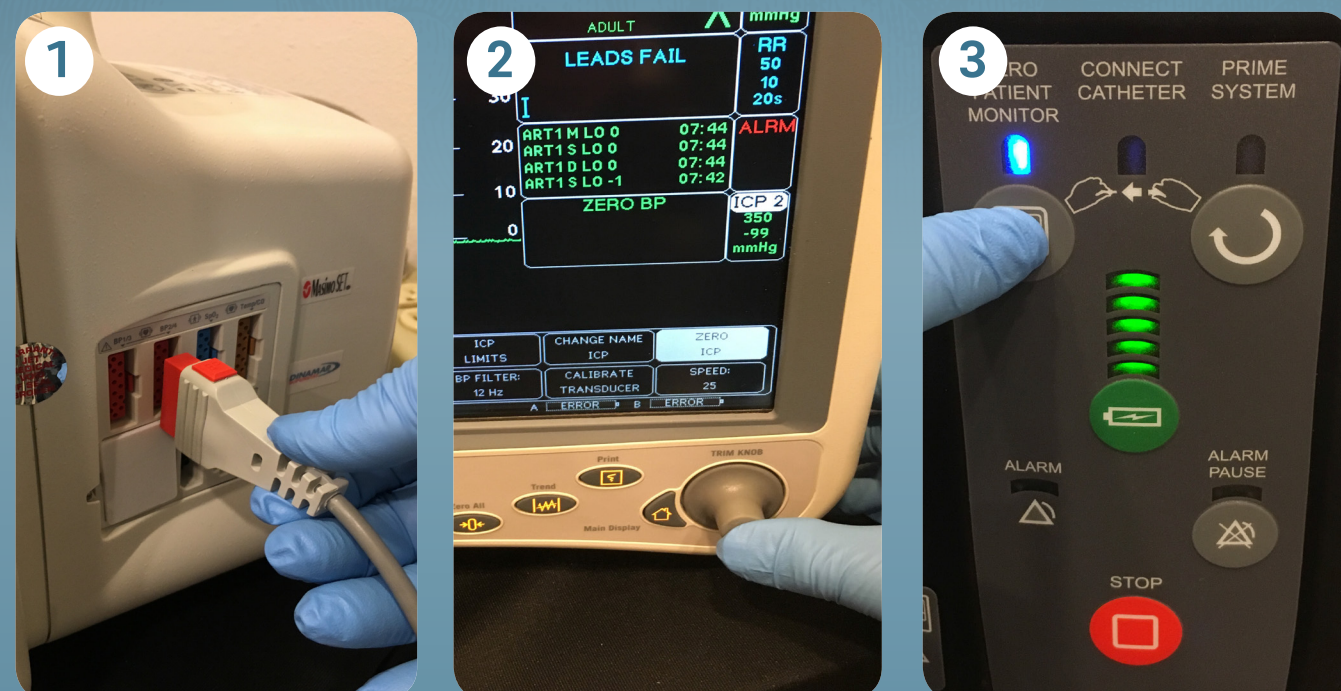


Hummingbird[®]

ICP Monitoring

ICP Control Module Set-Up

I INSERT



- 1 Insert cable into patient monitor
- 2 Zero patient bedside monitor
- 3 Press Zero Patient Monitor button on HICP200

C CONNECT

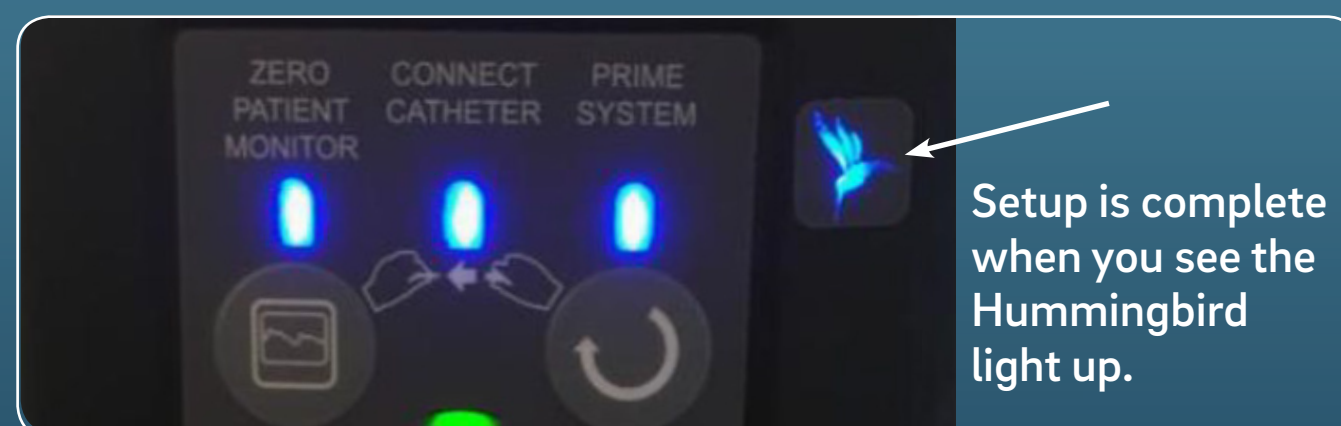


Connect ICP catheter to Patient Cable Module

P PRIME



Press Prime System button on Control Module

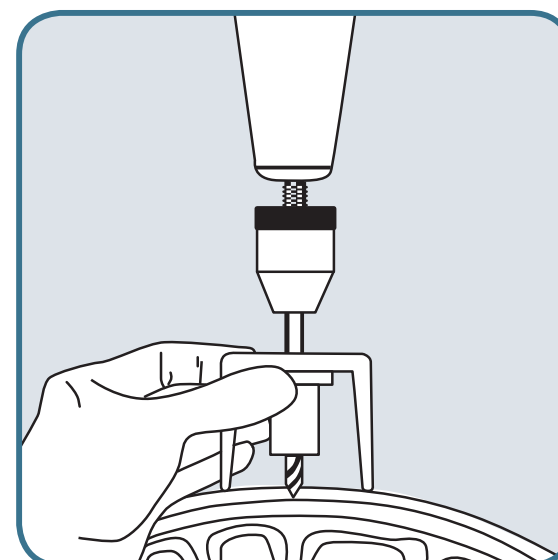


Setup is complete when you see the Hummingbird light up.

This Quick Start Guide is a simplified reference tool and is not a substitute for the user manual. If further assistance is needed please call your IRRAS sales representative.

Hummingbird Quad ICP Monitoring with Drainage Placement Instructions

STEP 1



Drill hole in skull using the drill bit provided within the Quad ICP kit. Make sure to orient the drill at the angle in which you will insert the ventricular catheter into the ventricle.

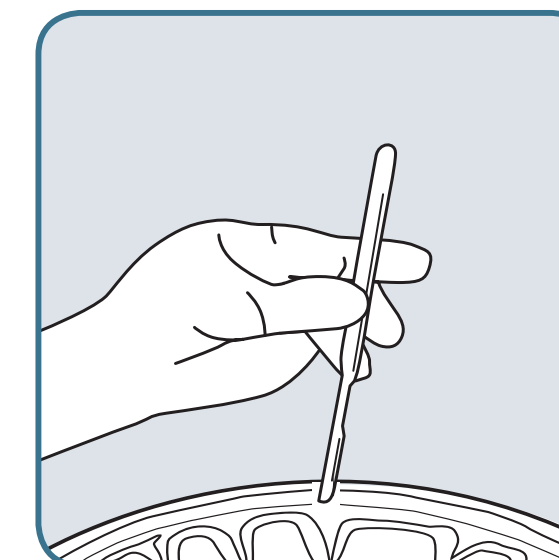
STEP 2



Irrigate the drill hole thoroughly to remove bone shards prior to catheter insertion.

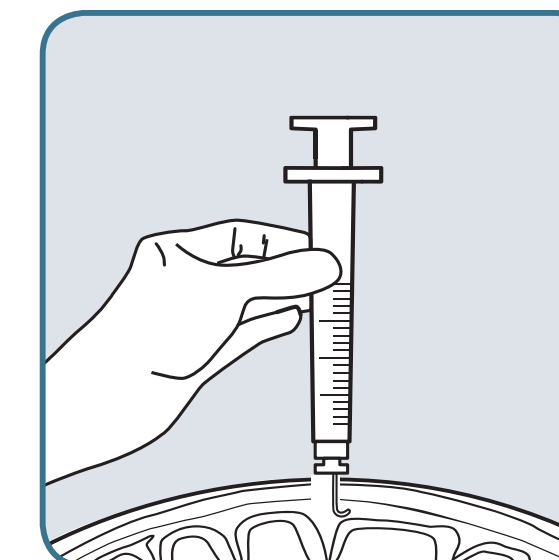
CAUTION: Failure to remove bone shards may damage the catheter's pressure-sensing bladder.

STEP 3



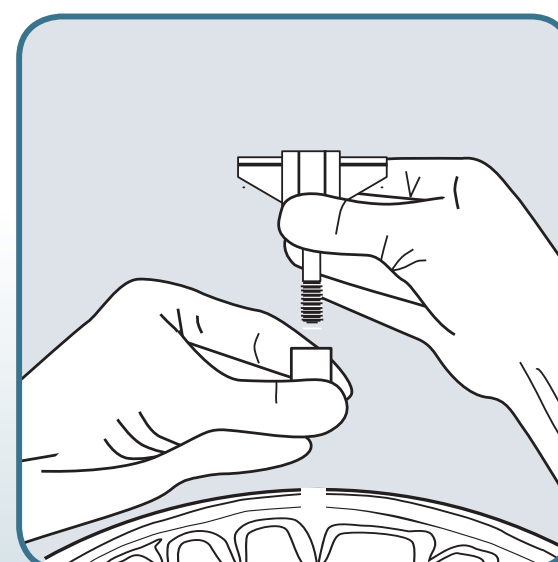
Carefully open the dura in a cruciate fashion using the stab knife provided in the Quad ICP kit.

STEP 4



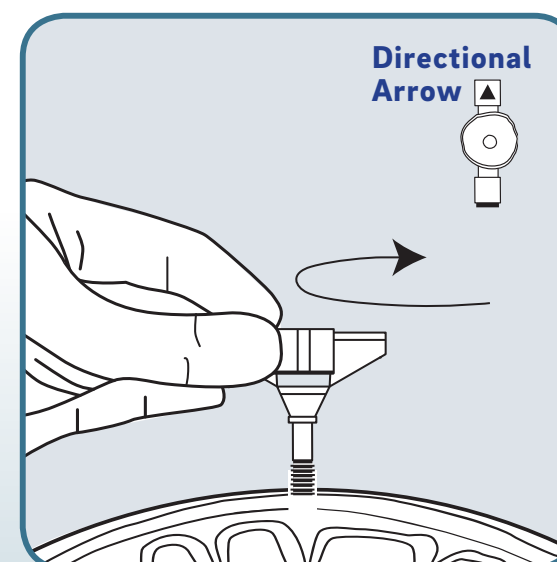
Measure skull thickness using caliper provided in the Quad ICP kit.

STEP 5



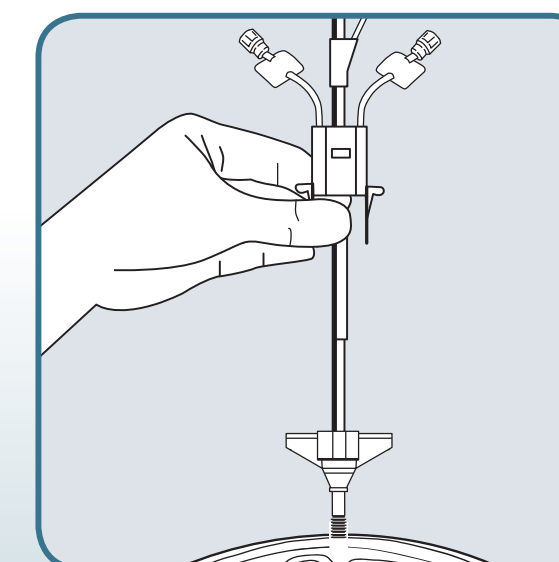
Select the bolt stop size corresponding to skull thickness and slide onto threaded end of the bolt assembly.

STEP 6



Advance Bolt to level of inner table. Align the arrow to the desired location (6 or 12 o'clock).

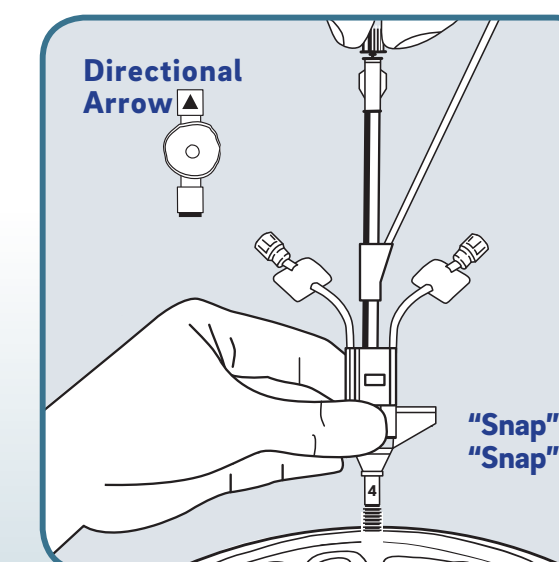
STEP 7



Advance ventricular catheter through bolt position in the ventricle.

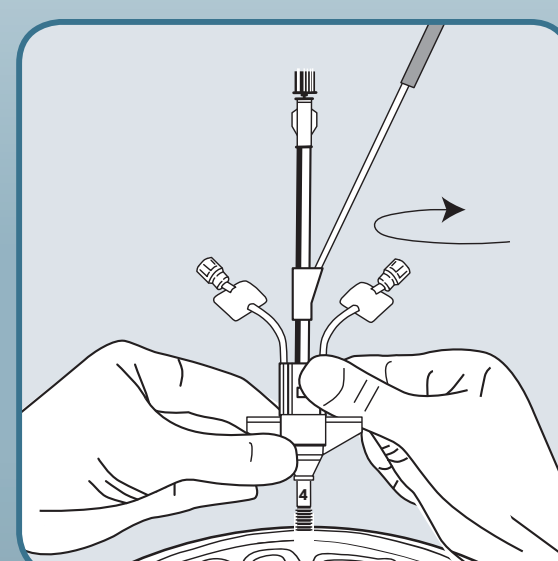
Prior to catheterization, ensure the stylet's tip is fully seated within the catheter.

STEP 8



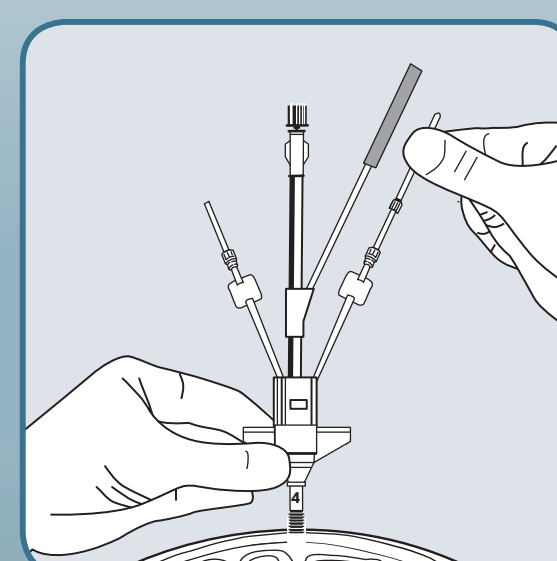
Next, fully seat the Insert Assembly with ventricular catheter into the Bolt. A secure connection is indicated by 2 audible "snaps". Now remove the stylet from the ventricular catheter and check for flow of CSF.

STEP 9



Tighten the Tuohy-Borst cap to secure the catheter.

STEP 10



Insert probes (not provided) into probe ports (blue Luer / white Luer) and advance the probes to the Insert's female Luer. After probes are at the desired depths, secure in place by rotating the probe's male luers clockwise.



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