

## PRE - APPLICATION

- 1** With patient supine for measurements, measure head across greatest circumference of the skull (about 1/2" above the ears) to determine ring size.



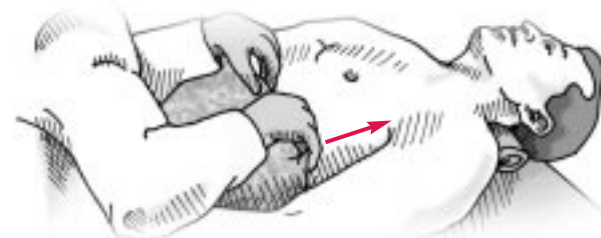
Measure patient's chest circumference at the xyphoid process to determine vest size.

- 2** Use c-spine precautions. Remove pillows from behind the head. Bolster and secure patient head in desired treatment alignment. Ensure that there is adequate clearance for posterior portion of the ring at the back of the head.

Alternative: Use Jerome Head Positioner.



- 3** (Optional) Roll the stockinette liner up from the patient's waist to under arms.

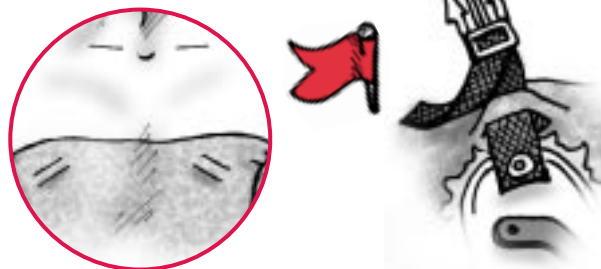


- 4** Select appropriate pin sites based on safe zone recommendations. Shave the patient's head at the posterior pin sites.

### SAFE ZONE

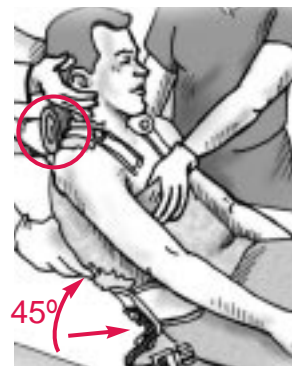


- 5** (Optional) To keep stockinette from rolling down, cut slits in the front and back to feed the shoulder straps through.



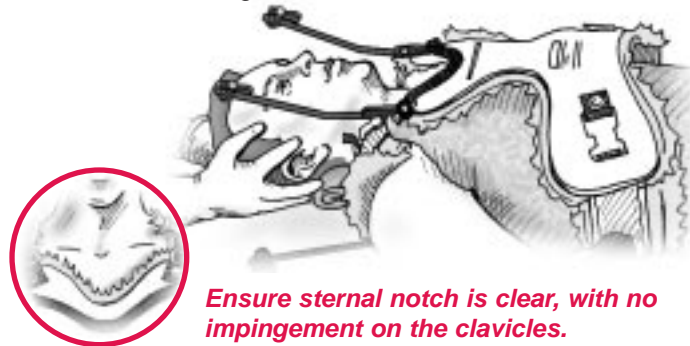
## VEST

- 6** Logroll or carefully raise entire thorax to finish rolling up stockinette (optional), place posterior vest as low as possible on back and replace bolster at the top of vest piece. Return patient to supine position.



- Make sure shoulders of vest are seated FIRMLY against top of shoulders.**

- 7** Place anterior liner on patient's chest just below sternal notch, then position the anterior vest on the liner, matching velcro sections.



Ensure sternal notch is clear, with no impingement on the clavicles.

- 8** Fasten and firmly tighten the necessary straps.

## APPLICATION INSTRUCTIONS

for Jerome Halo Traction Systems



### RESOLVE



These guidelines pertain to patients wearing any Jerome halo ring (final configuration may differ from images shown):

V<sub>1</sub><sup>®</sup>, Resolve<sup>®</sup>, or Generation 80.

Instructions do not supersede physician's orders or hospital protocol.

**Necessary Equipment:** tape measure, halo application kit, towels or pads, cervical halo unit, halo vest assembly.

**Optional Equipment:** 14" stockinette  
3 people recommended for application.

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# JEROME

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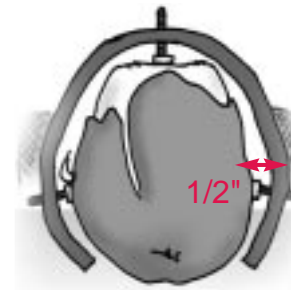
## RING

may require application BEFORE vest.

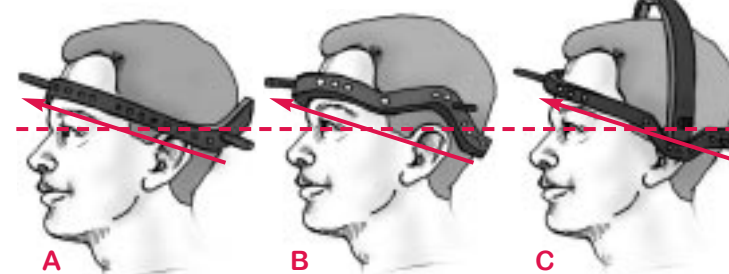
- 9** Use sterile technique! Put on gloves and use antiseptic swabs to clean pin site areas.



- 10** Position ring on head with the positioning pads provided.



Place ring low and tight on head as shown: ("A" - closed back rings; "B" & "C" - V<sub>1</sub><sup>®</sup> ring). With use of tongs, orient V over ears to fit around base of tongs ("C"), otherwise invert V to allow access to the ears ("B").



- 11** Local anesthetic (without epinephrine!) applied to selected sites through the ring. Insert pins, hand tighten in opposing pairs.



Posterior hole in occipital curve is included to facilitate instrumentation used in "Stealth" surgery (Resolve<sup>®</sup> halo ring only).

- 12** Tighten pins to 6-8 in. lbs. in opposing pairs using the preset torque driver, or optional Jerome Adjustable Torque Driver #575.



- 13** Remove positioning pins/pads, then apply & tighten pin locknuts either by hand (Resolve<sup>®</sup> halo ring) or with supplied wrench (V<sub>1</sub><sup>®</sup> & Gen 80 halo rings).



- 15 - 30 minutes after application, loosen locknuts, check pin torque, & retighten locknuts.

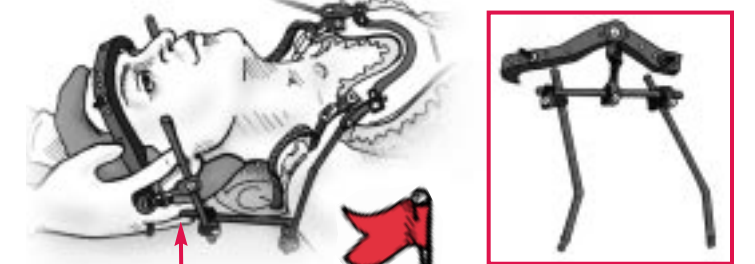
## SUPERSTRUCTURE

ensure upright rods are attached to posterior/anterior vest

- 14** Loosen universal clamps on upright rods, and at swivel adapters on superstructure. Align & attach SDA.



- 15** Maintain head position while aligning transverse rod with posterior universal clamps (on posterior uprights).

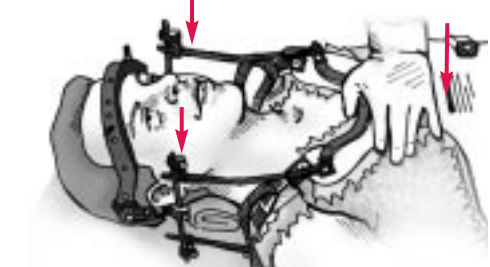


- Tighten posterior hex bolts on universal clamps and at swivel adapter.

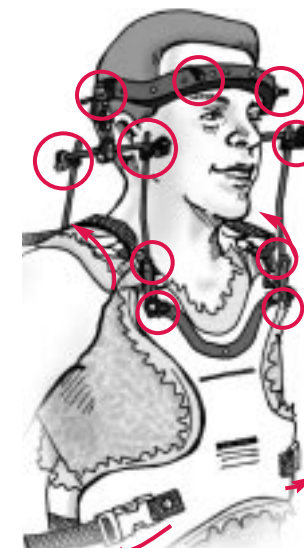
Kyphotic patient? Posterior uprights may be reversed to accommodate for curve.

- Adjust orientation of upright rods to accommodate desired neck position (i.e., flexion, extension, or neutral).

- 16** Lean on anterior vest while connecting anterior uprights to transverse rod with universal clamps. Firmly re-tighten shoulder and waist straps to eliminate gaps and to obtain firm support of vest against sternum.



Tighten anterior hex bolts on universal clamps and at swivel adapter.



- 17** Obtain x-rays and then check all attachments.

### FINAL CHECKLIST:

- Bolts tight,
- Straps secure,
- Parallel planes with ring & transverse rod.



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