

# HANS Device Quick Start Guide

January 2011

# ***The HANS<sup>®</sup> Device Quick Start Guide***

Welcome - you're ready to use the same technology that protects the world's top racers. Follow these steps to get started.

- Install the helmet tether anchors.
  - Pg. 6 - Helmets without holes for tether anchors.
  - Pg. 7 - Helmets pre-drilled for tether anchors.
  - Pg. 8 - Helmets with threaded anchor terminals.
- Get in your car and try the product with all your safety gear in place and tightened.
- Practice exiting your vehicle wearing all of your safety gear.
- That's it - you should be all set. Questions?  
See the FAQ at the rear of this book or contact us below.

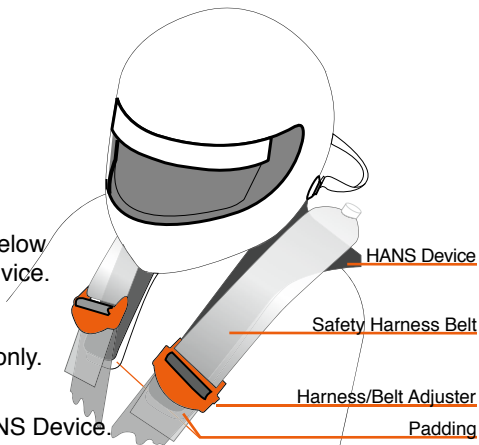


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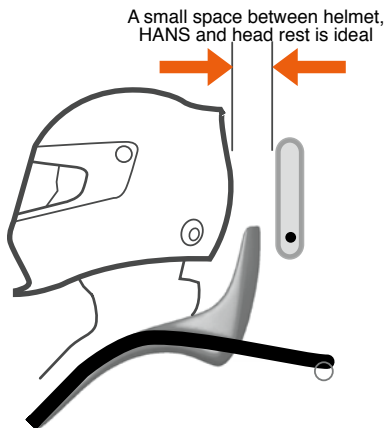
## **Overview**

- The HANS Device is worn under your safety harness belts.
- Belt adjusters should rest on or below the lower portion of the HANS Device.
- Change or remove padding for best fit - pads are for comfort only.
- Never modify the body of the HANS Device.



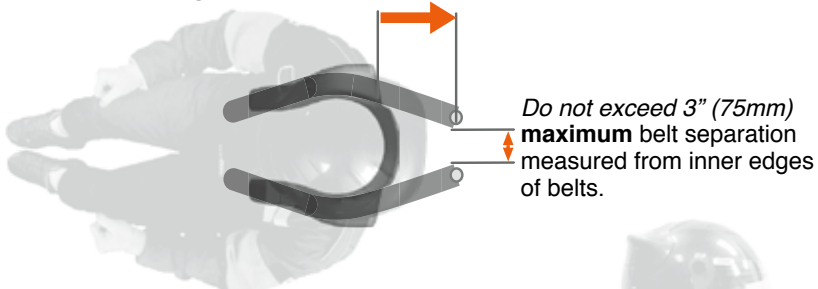
## **Head Rest Clearance**

- The HANS Device may lightly contact helmet or head rest.
- If your HANS pushes your head forward uncomfortably a more upright device may be required.
- The HANS Device may move back and forth a little during racing.



## **Belt Mounting**

Minimize this distance - *Do not exceed 8" (200mm).*



HANS works with any 2" or 3" shoulder belts. 3" belts may wrap up HANS Device collar as shown below.

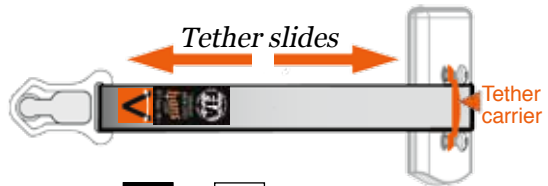


Mount shoulder belts  
1-2" (25-50mm)  
below horizontal.



## **Tethers**

- Standard length fits most situations.
- Do not over tighten tether carriers.
- Tethers are dated. Replace every 5 years, after major impacts or sooner if wear is observed.



## **Helmet Anchors**

### *Post Anchor*

- To Attach - Align slot in catch with slots on post, push in and slide catch rearward.
- To Release - Push in and slide catch forward.



### *QuickClick Anchor*

- To Attach - Open anchor by pulling red release tether, slip tether loop over hasp and close.
- To Release - Pull red release tether and remove tether loop from hasp.



### *QuickClick II Anchor*

- To Attach - Engage bottom hook then rotate hasp forward and lock into body.
- To Release - Pull red release tether. Hasp releases and falls away.



### *LW2 Anchor*

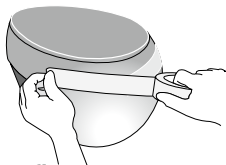
- Tether is permanently sewn to LW2 anchor.



## **Anchor Installation Instructions**

### *Initial Steps - Helmets without holes for tether anchors.*

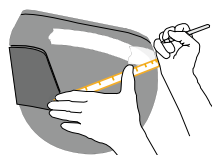
1. Apply masking tape around the bottom of your helmet approximately 1" (26mm) up from the top edge of the rubber molding (fig. 1).
2. On the masking tape at the back of the helmet, mark three points 1.5" (43mm) above the rubber molding and spaced about a half inch apart. Connect the dots to create a horizontal line (fig. 2).
3. Using a flexible ruler, measure the same distance from a fixed point (for example - the visor mounting hole) on each side of the helmet back to the horizontal line (fig. 3). The center line of the helmet is midway between where the two lines intersect the horizontal line at the back of the helmet.
4. Measure 6" (150mm) forward from the rear center line on each side of the helmet to a point 1.5" (43mm) above the rubber molding (fig. 4). Make sure you have two marks, each 6" forward from the rear center line and 1.5" above the top edge of the rubber edge molding.
5. Slowly drill a  $\frac{1}{4}$ " (6mm) hole at the two hole centers marked above. Drill through the helmet shell but not through the soft padding. A thin piece of sheet metal can be slipped between the shell and padding to help this (fig. 5). De-burr and clean the holes.



**figure 1**



**figure 2**



**figure 3**



**figure 4**

## *Final Steps - Helmets without holes and pre-drilled helmets.*

### Post Anchors

- A. Gently pry helmet liner away from shell using blunt instrument (fig. 6) and insert the nutwasher inside the helmet against the shell using a wrench. Align with hole. Insert post through cap, spring and base and screw into nutwasher. Tighten until the point of the post faces rearward.
- B. Use a 7/16" (11mm) wrench to hold the post anchor outside of the helmet in position and tighten from inside (fig. 7). Tighten ¼ turn beyond snug. The flats and slot of the post anchor should be parallel with the ground and the point of the post should face the rear of the helmet.

### LW2 and Quick Click Anchors

Gently pry helmet liner away from shell using blunt instrument (fig. 6) and insert the nutwasher inside the helmet against the shell using a wrench. Align with hole. Screw anchor into nutwasher. Hand tighten until the tether or hasp faces rearward. Use a 7/16" (11mm) wrench to hold the nutwasher inside the helmet and tighten exterior screw ¼ turn beyond snug.

**THREADLOCKER** - All HANS Device anchors are supplied with thread-locking fluid or screws coated with a dry threadlocker compound. When assembling HANS helmet anchors use either the threadlocker fluid supplied in tubes or the special HANS screws with dry threadlocker coating.

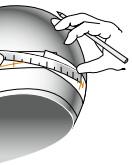


Figure 4

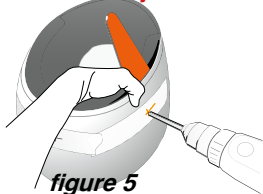


figure 5



figure 6



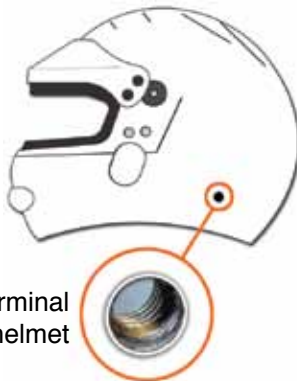
figure 7

## **Anchor Installation Instructions**

### *SAH2010 Helmets with Bonded-in Threaded Anchor Terminals*

You may have purchased one of the newest helmets marked Snell SAH2010. These helmets are certified for head and neck restraint system use. Helmets marked Snell SAH2010 have a bonded-in and threaded terminal (nutwasher) making HANS anchor installation easy. Screw the anchor into the nutwasher. Hand tighten until the point on the collar (if post anchor) or hasp (if quick click) faces rearward. Tighten mounting screw  $\frac{1}{4}$  turn beyond snug.

Snell SAH2010 decal  
located inside helmet



Bonded-in terminal  
on sides of helmet

**THREADLOCKER** - All HANS Device anchors are supplied with thread-locking fluid or screws coated with a dry threadlocker compound. When assembling HANS helmet anchors use either the threadlocker fluid supplied in tubes or the special HANS screws with dry threadlocker coating.



## **Complete, Correct Anchor Installation**



Screw or collar on post anchor style  
faces rearward after installation

*Rear of helmet*

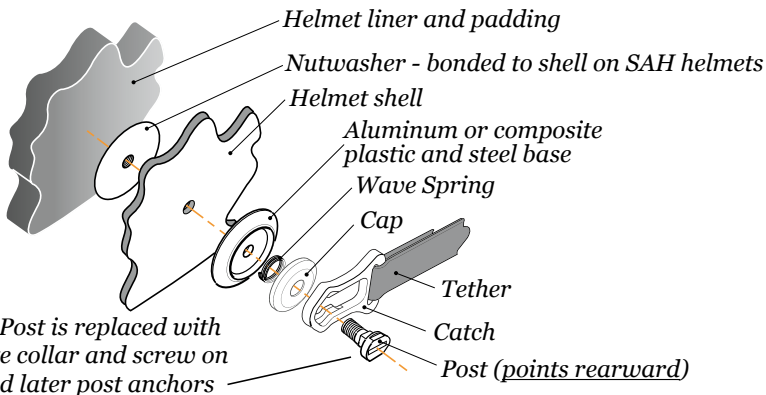


Hasp / tether on quick click style  
faces rearward after installation

*Rear of helmet*



## **Helmet / Post Anchor Exploded View**



## **Frequently Asked Questions**

### ***I can touch my chin to my chest with the device on. Are my tethers too long?***

No. The HANS Device comes properly adjusted for all drivers. Unless you have changed the tether length it is fine and will work in an impact. The slack in the tethers is automatically taken up during impact.

### ***When I put the device on, it rubs against my neck. Is that normal?***

Yes. The front of the HANS Device is narrower to accommodate arm movement. Padding can be modified or removed - it does not affect the device's performance.

### ***What type of shoulder belts work best with a HANS Device?***

Any two or three inch shoulder harness system works well with the HANS Device.

### ***Do some shoulder belts slip off the HANS Device?***

No. Properly mounted belts do not slip off the device. If your shoulder belts will not stay securely on the device chances are that you do not have the belt mounts properly located in your chassis. See above section on shoulder belt mounting.

### ***I race on a short track at relatively low speeds. Do I need a HANS Device?***

Yes. Serious head and neck injuries happen at impact speeds as low as 35mph. On short tracks with tight turns it is easy to be "Q-balled" almost straight into the wall.

### ***Can I share a HANS Device?***

Provided that you are of similar physical size and shape to your partner, chances are good that you can share a HANS Device.

### ***Do I need a special helmet?***

No. HANS helmet anchors fit any competition approved racing helmet.

### ***Can I wear a "horse collar" foam pad with a HANS Device?***

Yes. Remember foam collars are comfort accessories, not safety equipment. Wear one to stabilize your head and helmet on rough tracks.

***I have an unusual racecar. Do you make a HANS Device that will fit?***

Yes. The HANS Device can be worn in virtually any vehicle (not just cars) that uses two shoulder belts as part of the driver restraint harness.

***How do I care for my HANS device?***

HANS Devices need almost no maintenance but should be kept clean and dry. To protect them, HANS Devices should be stored out of direct sunlight. They may be cleaned with soapy warm water. Ensure rubber top surfaces stay clean and free of wear. Tethers should be replaced after any major impact or every 5 years. Tethers carry dated labels.

***How much does a HANS Device weigh?***

Professional Series weigh about 1 pound and Sport Series weigh about 2.25 pounds. Weights given are for raw devices and are affected by size. Tethers and padding add additional weight.

***What if my HANS Device is in an impact?***

HANS Devices should be inspected periodically or after major impacts. Examine your device in bright sunlight and run your finger around the edges. Any sign of de-lamination or surface cracking and exposed composite material means the device has served its purpose and should be replaced.

***What is the difference between the different series available?***

The only difference is weight - all HANS Devices offer the same exceptional level of performance.

***Can I buy parts and support for my older HANS Device?***

Yes. The sliding tether upgrade which allows unrestricted vision fits all HANS Devices. We no longer offer parts or services on the original Model 1 HANS Device.

**Have a question we haven't answered? Call us directly at 1-888-HANS-999.**



*Sport*  
SERIES



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ESCAP HANCOX

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Sound and motion sensor
Energy sensor

*“The  
HANS Device is the best  
safety device since the  
seatbelt”*

Car & Driver Magazine

**hans**  
25 Years

