

MOUNTING THE HELMET HARDWARE

There are Three Types of Helmets:

Snell SAH2010/FIA8858, Pre-Drilled, and Un-Drilled.

Snell SAH2010 & FIA 8858 Helmets: These have 6 mm threaded inserts bonded into the helmet by the helmet manufacturer.



Installation for Snell SAH2010 Helmets or FIA 8858 Helmets:

You will **NOT** need the backing plate. There is a left hand (LH) and right hand (RH) helmet hardware set supplied with each unit.

1. Using the Allen key supplied, unscrew the 5 mm dust cover screw and washer
2. Inside the hole is a 4 mm spring. Remove the spring
3. Remove the cover
4. Apply a drop of blue thread locker to the 6 mm allen bolt
5. Using the Allen key supplied, screw the 6 mm screw into the helmet
6. Align the helmet hardware so the front is pointing approximately 45 degrees upward
7. Tighten the 6 mm bolt to 30 Inch Pounds (3.4 Newton Meters)

Pre-Drilled Helmets: If your helmet was predrilled for a previous neck restraint, it is OK to use these holes. If your helmet was pre-drilled by the helmet manufacturer, it is OK to use these holes. See "How to Drill Your Helmet" diagram.

Installation for Pre-Drilled Helmets:

You **WILL** need the backing plate (supplied). There is a left hand (LH) and right hand (RH) helmet hardware set supplied with each unit.

1. Follow steps 1-4 above
2. Slide the backing plate between the helmet shell and the inner lining to line up with your drilled holes
3. Using the supplied wrench, hold the backing plate in place
4. Continue with steps 5-7 above

MOUNTING THE HELMET HARDWARE

Un-Drilled Helmets: If your helmet has not been drilled, you will need to drill the installation holes as per the instructions below.

How to Drill Your Helmet

1. Find the centerline of the back of the helmet
2. Measure forward 6" along the lower edge
3. Measure & mark 1.5" upward from step 2
4. Drill a 1/4" (6 mm) hole
5. Repeat for the other side of the helmet



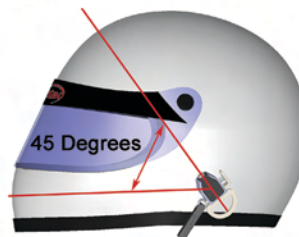
If your helmet has been pre-drilled and is within a 1" radius of diagram, it is OK to use these holes.

Installation for Un-Drilled Helmets:

Once you have drilled your helmet, follow "Installation for Pre-Drilled Helmets" on previous section.

POSITION OF HARDWARE

It is important to tilt the helmet hardware at 45 degrees relative to the horizontal of the lower edge of the helmet. This would mean that the front edge of the helmet hardware would be pointing upward towards the visor mounting bolt. This angle allows for free movement of the tethers, allowing the head to move from left to right.



HARD MOUNT HELMET BUCKLE

Use this option when quick release helmet hardware is not needed. This option will keep the helmet and FHR attached.

1. Remove the Quick Release buckle and replace with the hard mount buckle (bend away from the helmet).
2. Re-route the tether the same way as originally installed.
3. Bolt to helmet using the supplied 6 mm bolt. Tighten to 30 Inch Pounds (3.4 Newton Meters).



ADJUST THE TETHER LENGTH TO FIT YOU AND YOUR SEATING POSITION

Pinch tether 2"
Single pinch of 2"
creates 4" of slack



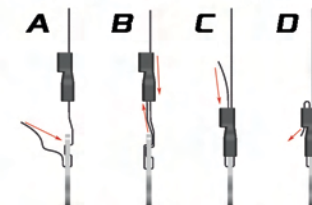
To Adjust the Tether:

1. Strap yourself securely in your seat with the belts firmly tightened, also with your helmet and NecksGen FHR securely in place.
2. Sit in the neutral position with your head facing forward as you would be while driving in a straight line.
3. The goal is to allow the head to move forward 2" (50 mm) before the tethers restrain any more movement. The easiest way to achieve this is while sitting in the car, have someone pinch the tether taking up the slack. Pinch the tether 2" (50 mm). This will mean you have a total of 4" (100 mm) slack combined (2" (50 mm) for each side).

ADJUSTABLE TETHER ROUTING

It is very important to route the tether through the adjustable tether buckle correctly. In order to adjust the tether, follow these instructions:

1. Unbuckle the tether.
2. Feed tether forward or backward through the buckle to achieve the correct 2" tension needed (as above).
3. Once the correct tether slack is achieved, feed the tether back through buckle as in diagram below.
4. Slide rubber retainer down over buckle.
5. If tether excess is long enough, fold over and tuck into rubber retainer as in Diagram D.



IMPORTANT! Prior to each use, check all hardware and tethers for correct installation and tension.

ADJUST REAR ANGLE FOR MAXIMUM COMFORT



FIND YOUR
SEAT ANGLE
IN DEGREES

REMOVE THESE TWO BOLTS
TO ADJUST THE ANGLE TO
MATCH YOUR SEATING POSITION *



*DO NOT USE THE UNIT WITHOUT THESE BOLTS INSTALLED

PROPER SEATBELT ALIGNMENT



RECERTIFICATION

Effective Jan 1, 2012, SFI Specification 38.1 now requires that Head and Neck Restraint Devices be inspected and recertified after five (5) years from the date of manufacture punched out on the label.

TETHER REPLACEMENT

Tethers will need to be replaced every 5 years. Tethers should also be replaced after a serious accident or if they are showing any signs of wear.

WARRANTY

The NecksGen Frontal Head Restraint (FHR) is warranted to be free from defects in material and workmanship for a period of one year from the date of purchase by the original purchaser. The NecksGen FHR will be repaired or replaced at the sole discretion of NecksGen. All claims must be submitted to us and accompanied by the device, the original sales receipt, and a statement signed by the purchaser regarding the nature of the defect. This warranty does not apply to damage to the product that is the result of accidents, normal wear and tear or misuse. Any modifications to the product will null and void this warranty.

DISCLAIMER

Please inspect the NecksGen FHR before each use. If you believe that the product is not in good working order according to the instructions, stop use immediately and contact NecksGen. As a condition of purchase and/or receipt of the NecksGen FHR, the user has read and familiarized him/herself with the technical aspects, research and test results relating to the NecksGen FHR provided at www.NecksGen.com, and understands the nature of the device and the conditions under which it can be used. The user understands and recognizes that the device has not been tested on humans in race conditions for instrumented impact assessment and that this is a new design. Should you not wish to accept the terms of this warranty or the product prior to its use, please return the NecksGen FHR for a refund. As a condition of purchase and/or receipt of the NecksGen FHR, the user waives any claims against NecksGen, the inventor, manufacturer, any subcontractor, agent, or distributor. NecksGen, the inventor, manufacturer, any subcontractor, agent, or distributor will under no circumstances be liable to any person for damages, including but not limited to direct injury, indirect injury, bodily or otherwise, including death, that may be sustained by any person as a result of the use of the NecksGen FHR. Any alleged defect therein or its alleged failure to afford the protection offered by it or for any consequential loss of profits or damages suffered by any person, however such loss or damage may arise or for any other reason or from any other circumstance of whatsoever nature. The parties' liability is limited to the actual price paid for the product. The user assumes all risk for the use of the product. As a condition of purchase/receipt of the NecksGen FHR, the user has fully read and understood the manual and installation guide and understands that although the device is designed to help reduce brain, head and neck injuries when worn in conjunction with a helmet with a fixed chin part, there is no guarantee that any injury will be prevented by the use of the device. Each device must be set up for the individual user and be of the correct size and fit. This warranty expires upon resale or transfer by the original purchaser. Always attach your helmet correctly according to manufacturer's guidelines, ensure all your safety equipment has not passed its recommended lifespan and travel/race with safety.

NECKSGEN
AHEAD IN NECK PROTECTION

MANUAL AND INSTALLATION GUIDE
FOR YOUR FRONTAL HEAD RESTRAINT



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