

INSTALLATION MANUAL SCHROTH FRONTAL HEAD RESTRAINT [FHR]

Thank you for choosing our product.

OVERVIEW



Read and follow all WARNINGS, CAUTIONS and SAFETY INSTRUCTIONS

SAFETY

- * A FHR is not a substitute for skill or experience. Do not attempt potentially hazardous manoeuvres while wearing a FHR that you would not attempt without a FHR.
- * FHR is available in medium and large. Sizing is based on body size and shape. Consult your FHR reseller for assistance on determining the correct size.
- Failure to ensure that the FHR fits correctly will reduce the effectiveness of the FHR and may subject the user to unexpected risks.
- * A cracked, bent or deformed FHR or any FHR worn by a user during an accident or impact should not be used again by anyone. Damage affecting the structural integrity and performance of the FHR may not be visible to the naked eye.

The FHR is worn over your shoulders and under your safety harness belts.

The centre line [shown in red] defines the lower tip of the FHR. The shoulder belt length adjusters [shown in green] should rest a maximum of 3" [70 mm] above the tips of the FHR or a maximum of 1.5" [35 mm] below the tips of the FHR.









Risk of severe injury or death!

Never modify the hardware, components or body of FHR.

Any modifications to the FHR may reduce the effectiveness of the product.



Ensure that the tethers attached to the harness and helmet without twisting.

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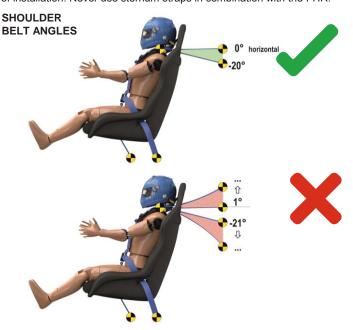
HEAD REST CLEARANCE

The FHR may lightly contact helmet or head rest when being worn and in use.



SEAT BELT MOUNTING [FOR DETAILED INFORMATION SEE HARNESS BELT INSTRUCTION AND WWW.SCHROTH.COM/INSTALL]

Shoulder belt mountings located more than 8" [200 mm] from the back of the user's seat or angled upwards can severely compromise the effective performance of the FHR and safety harness. Avoid this type of installation. Never use sternum straps in combination with the FHR.

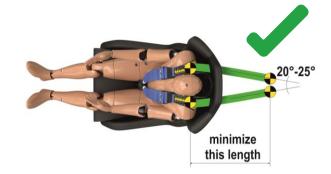


AWARNING

Risk of severe injury or death!

- Always mount shoulder belts as short as possible to the mounting point. 6" [150 mm] or less is ideal.
- Do not exceed a mounting distance of 8" [200 mm] from the back of the user's seat without mounting and installing the shoulder belts as instructed below.
- If the mounting distance must exceed 8" [200 mm], mount the shoulder belts crossing at least 20" [500 mm] behind the driver's seat at an angle of 20°-25°.
- Maintain a shoulder belt angle of 0° to 20° DOWNWARD from the top of the FHR with a clear path through the seat to the shoulder mounting points. Optimum angle is 10° downward.
- NEVER angle the shoulder belts from the FHR at an upward angle to a mounting point.
- NEVER mount the shoulder belts through seat belt shoulder openings and directly down to the floor behind the seat, without passing over a harness bar at the proper angle.
- NEVER use sternum straps in combination with the FHR.
- Refer to your harness belt installation instructions for further details.

Improper mounting may severely compromise the effective performance of the FHR and safety harness may result in severe injury or death.

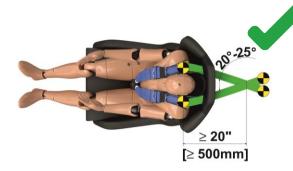






SHOULDER BELT LENGTHS





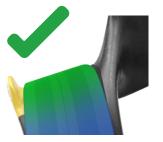
SAFETY INSTRUCTIONS

Shorter shoulder belts / mounting points are better!

Target ≤ 8" [200 mm] from back of seat.

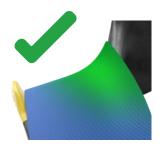
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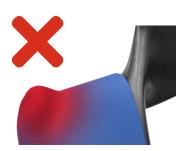
Routing of 2" webbing





Routing of 3" webbing





FHR TETHERS



Risk of severe injury or death! Use ONLY original SCHROTH parts to attach the tether system. Use ONLY original SCHROTH FHR tethers. Check the FHR tethers and helmet clips prior to each event / use.









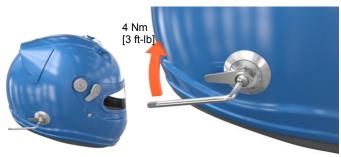
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ANCHOR INSTALLATION INSTRUCTIONS

Helmet / Post Anchor Assembly

FHR Clip FIA 8858-2010





FHR helmets with factory inserts (M6)

Installation of Twist Anchors into Helmets with Bonded-in Threaded **M6 Anchor Terminals**

SAH2010, SA2015, FIA 8859, FIA 8860 or FIA 8858 Helmets with bonded-in threaded M6 anchor terminals

You may use one of the helmets marked as certified to the standards listed above for FHR head and neck restraint system use. These helmets have bonded-in threaded M6 terminals or nut-washers [see figure A], making FHR anchor installation easy.



Risk of serious injury or death! Use only original SCHROTH FHR specific parts, including hardware and screws.

Bonded-in threaded M6 anchor terminal on sides of helmet



figure A 6

AWARNING

Risk of severe injury or death! THREADLOCKER - All FHR Device anchors are supplied with screws coated with a dry threadlocker compound. Threadlocker is to be used one time only.

Use the screws with threadlocker provided when assembling FHR helmet anchors. Failure to use original FHR screws with threadlocker may result in the twist anchors becoming loose.

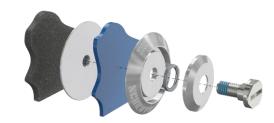
Approval stickers - FHR helmets with factory inserts (M6)







FHR Clip FIA 8858-2002





Installation of post anchors into pre-drilled helmets without M6 terminals (SA2010)





figure B

figure C

- 1) Gently pry the helmet liner away from the shell using a thin, blunt instrument [see figure B]. Insert the nut-washer inside the helmet against the shell using a wrench.
- 2) Align the base, spring, cap and collar with the hole, engaging the notch in the underside of the cap with the nib on the inside of the base. Insert the special screw through the assembly into the M6 nut-washer.
- 3) Hand tighten until snug with the tether clasp indexing slot in the twist anchor collar facing rearward on the helmet.
- 4) Use a 7/16" [11 mm] wrench to hold the nut-washer inside of helmet in position and tighten the screw from the outside [see figure C] with a 5/32" [4 mm] hexagon socket screw key a 1/4 turn beyond snug [approximately 3ft-lb (4Nm) of torque] while holding the desired orientation of the twist anchor collar.



Risk of serious injury or death! Use only original SCHROTH specific hardware and screws. Use of unapproved parts may result in severe injury or death.



Risk of injury or death! Use care not to damage the helmet shell or EPS liner when inserting the nut-washer into the helmet. Damage to the EPS liner reduce the overall protection level of the helmet and cause serious injury or death.

NOTICE

SCHROTH does not recommend using helmets without predrilled holes. REFER TO YOUR SANCTIONING RULES FOR HELMET INSTALLATION.

Learn more about seats on our website.

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