



Installation Manual

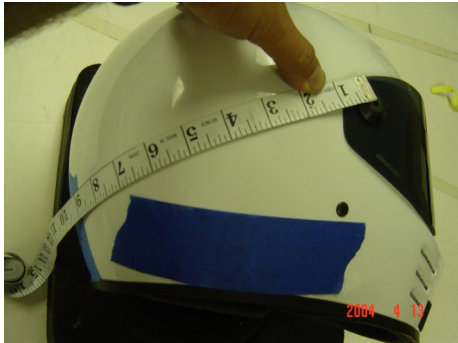


The products and parts shown herein are to be installed and used adjusted in accordance with these instructions. Any deviation by the buyer, installer, or user from these instructions constitutes willful negligence. Products and parts are not to be used if defective, damaged or worn. Products and parts are not to be used after a severe use, in any event.

Attaching the Helmet D-Ring

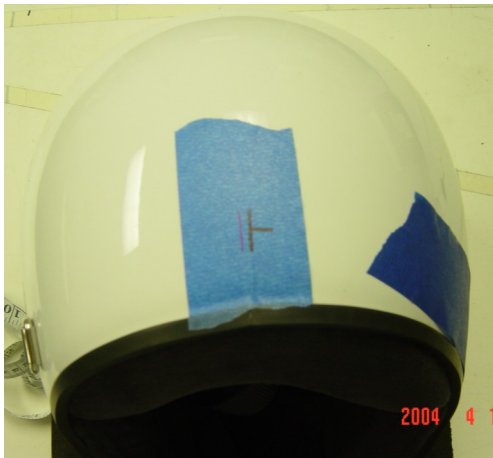
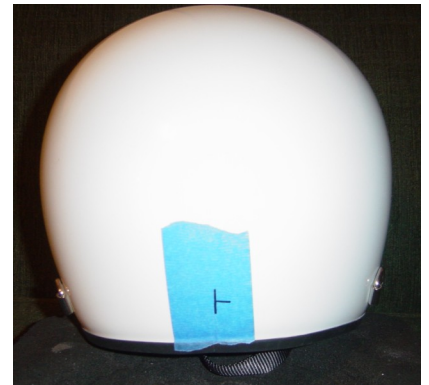
The R3 Head and Neck Restraint comes with all of the parts to attach the D-rings to the helmet. Supplied are: (2) 10-32 ½" screws (2) Nut-Washers and (2) D-rings.

To locate the D-rings:
Find the center of the helmet by:



1) Place a piece of masking tape at the center of the rear of the helmet. (estimate)

2) Mark the center of the tape 1.5" above the bottom of the helmet.

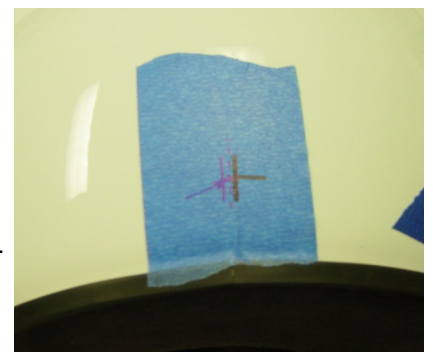


3) Measure from the helmet visor screw to the marked centerline on the right side of the helmet.

3a) Mark the left side of the helmet by using the measurement found in step 3 for the right side. Measure from the left side visor pivot point to the mark in the rear of the helmet. At the same distance as on the right side, mark on the tape on the rear of the helmet vertically, 1.5" above the bottom ridge of the helmet.

4) You should have two marks on the tape on the back of the helmet. Measure the distance between the two marks. The center of the two measurements is the center of the helmet.

5) Measure from the new centerline around the helmet 6". Mark this spot 1.5" above the bottom of the helmet. Repeat the procedure on the opposite side of the helmet.



6) Drill the helmet using a 3/16" drill at the point marked in step 5.

7) Clean the hole in the helmet as much as possible.

Put a medium strength locker on the Nut-Washer and place it on the inside of the helmet over the hole.

Thread the screw from the outside of the helmet through the D-ring and into the helmet and Nut-Washer.



8) Tighten the helmet D-ring screw snugly. Over tightening is not necessary and could damage the helmet shell. The D-ring should sit at a 45 degree downward angle.



Fitting the Restraint to the Driver

To adjust the chest strap:

Loosen the chest strap in the buckle and slide the buckle to fit the occupant's chest size. The harness should fit snug to tight in the chest area; this is the bottom anchor for the restraint.

The R3 Restraint should be properly adjusted on the occupant **with the chest strap buckled**.



Fitting the Restraint in the car

The R3 is placed on back of the occupant between the seat and the driver's back and shoulders. Because of this, it is recommended to contour the back of the seat with the U-Shaped Molded Pad provided. This will help the restraint become a part of the seat from a comfort standpoint.

- The U-Shaped Molded Pad is inserted 2" down from the top of the shoulders
- The seat pad can be taped/glued in place or Velcro'd depending on type of seat. If seat has a cover, the pad can be installed under the cover.
- If you purchased the In-Seat version of the R3, you will NOT have a chest strap on the device. There will be 2 straps with a metal O Ring at the bottom. Those attach into your seat belts.
- If using a cloth or leather cover, it may be necessary to sew Velcro to it.



In Seat Version



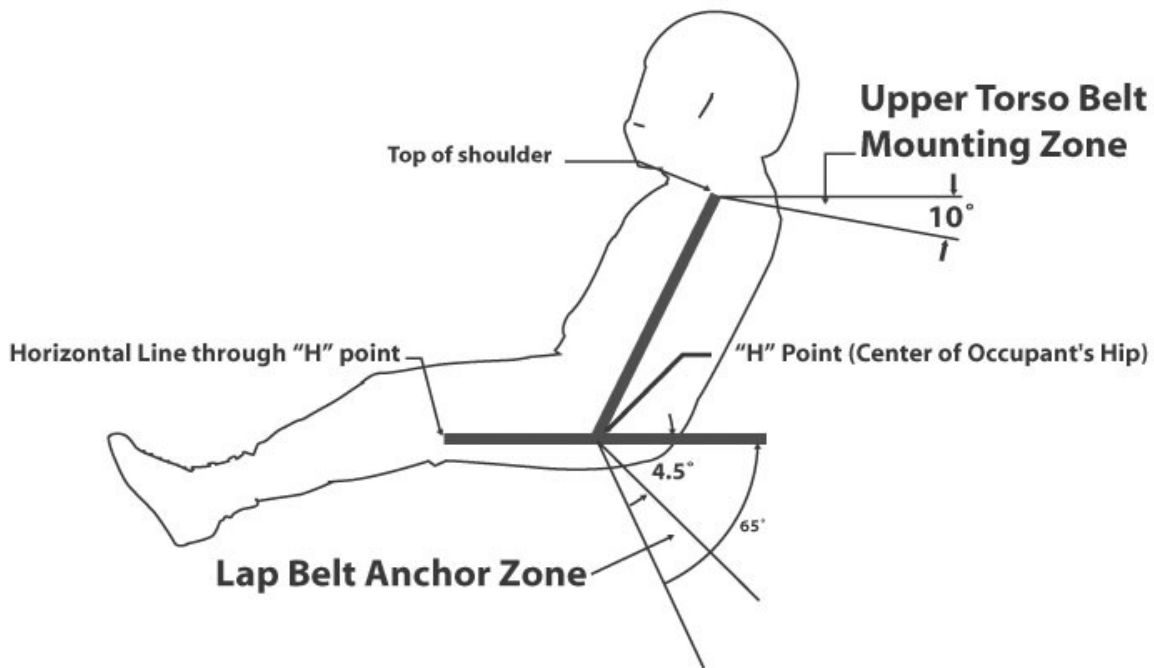
Velcro these point to the seat back for correct positioning. To determine correct position, sit in the seat with the device behind you and adjust to fit.

The shoulders of the restraint should sit under the shoulder belts between the seat back and the occupant.

The shoulder belts of the car should be mounted at 0 to 10 degrees down** from the top of the shoulder.

***If the shoulder belts are mounted lower than this, the occupant will be pulled forward when the shoulder belts are tightened.*

Restraint System Mounting Zones (Side View)



The shoulder belts should be mounted as close to the occupant as possible, separated by 2-3 inches at the mount.

The correct restraint model, (I.E. 10 degree, 15 degree.....) is chosen by the seat angle and contour. The restraint should "fit" the contour of the seat. The driver can quickly determine if the restraint will fit into the car's seat by holding it against the back of the seat lined up with the shoulder belts.

If the restraint contacts the seat at the top and bottom only, a different model may be chosen.

Helmet Tether / In Car Adjustment

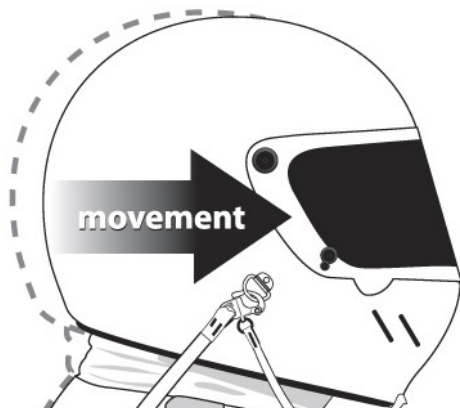
The Helmet Tethers need to be adjusted with the driver seated and buckled into the vehicle.

Loosen the helmet tether strap screws on the backside of the restraint before entering car.

Restraint Tethers:

Note: Getting in and out of the car with your back perpendicular with the roof bars will aid in quicker exits from the car while wearing the R3 Head and Neck Restraint. The device will move with your body movement for more control of the device when exiting vehicle.

- 1) Get into car and buckle into the seat.
- 2) With the helmet strapped securely, pull the yellow Quick Release tethers to open the Quick Release on the restraint.
- 3) Attach the Quick Release to the Helmet Hook from the outside in, making sure to have the tether ring pointing down.
- 4) With help, from a relaxed normal position, adjust the tethers to allow up to 1.5" maximum movement forward (+/- .5") before restraint is felt. This should allow 40–50 degrees of side to side movement.



Quick Release Tether Placement

The Quick Release Tethers should be Velcro'd to the chin bar of the helmet.

NEVER attach the tethers to the seat belts or the car.



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