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BSCI
ENERGY IMPACT SYSTEMS™

# Seat Insert Instructions

You have purchased the safest and easiest to use seat insert kit available. **Please read these instructions and review the images carefully before starting your seat pour.**

**TAKE EVERY PRECAUTION TO PREVENT CONTACT WITH SKIN OR HAIR!!!**

**Items included in your full seat insert kit**:

2 Containers of foam (Part A and Part B)

Sheet(s) of foam. (Number of sheets and the thickness of the sheets vary per kit size).

1 Roll of double-sided adhesive tape

1 Roll of black gaffers tape

1 Plastic bag

1 electric carving knife

Fire Resistant Material

1 mixer

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Additional tools and items needed to complete your pour include:

Electric drill (Air powered drills or cordless drills will not be sufficient for mixing the chemicals properly. The electric drill needs to have a minimum rpm of 2,400), Scissors, Razor blade, Chalk/marker, and 3M Super 77 Glue. Cleaner…such as Acetone or glass cleaner

We suggest wearing your uniform if available. If not wearing uniform, make sure the driver is not wearing a belt and that all items are removed from pockets. We also recommend wearing your head and neck restraint if it extends below your shoulders. These units may push you out of the seat slightly. **TAKE ALL NECESSARY STEPS TO AVOID CONTACT WITH SKIN OR HAIR**.

1. Unpack all items from the box. Once taken out, your sheet(s) of foam will utilize their memory to flatten out. Inspect all items to be sure they were not damaged during transport. Pay special attention to the bag to ensure it does not have any holes.
2. Prepare your seat by cleaning the interior with acetone or a cleaner that does not leave any residue.
3. Using gaffers tape or a roll of duct tape, cover any sharp edges or protrusions in the seat. Pay special attention to bolt heads or any small sharp objects. You may also cover seat belt holes but this is not necessary unless they have sharp edges. By not covering the holes it will make trimming easier as you have an impression of the holes in the insert.
4. Apply a strip(s) of duct tape across the front edge of the seat bottom to close off the cavity of the box section, when applicable. This will allow easier removal of the completed insert.
5. Once this is complete, apply the double-sided adhesive to the interior of the seat. **See Example in photos 1-3.**
6. Next you will need to determine the thickness of foam needed to raise your body into position within the seat. The sheet(s) of foam provided are used for this purpose. A small person may need to be raised as much as 2", whereas a larger person may only need ¼" of foam. Please keep in mind that the sheets of foam provide a layer of protection and if no sheet foam is used the liquid will simply go around that area of the body leaving an area of no foam. For thicker foam you can use the spray adhesive to layer the materials together.
7. Once the number of sheets has been determined for proper thickness, measure them and cut them so that they fit easily into the bottom and back of the seat leaving approximately ½" of clearance around the edges of the seat bottom. This will allow the liquid material to completely surround the layer of foam.
8. Now is a good time to do a trial run for pouring the insert. Position your body in the seat the way you intend on pouring it. This will give you an idea of space available for the person pouring the chemical and any special techniques he or she will need to use to introduce the chemical into the bag. Do not use a funnel.
9. With your bag laying flat on the floor, insert the bottom piece(s) of foam into the bag and fold the bag over the foam. **See Example in photo 4.** You can add the back layer of foam after you complete step 9.

10. Lay the bag into the seat with the bottom of the bag located at the bottom of the seat paying special attention that the bag is centered in the seat. Reach under the bag to remove the liner of the double-sided adhesive revealing the adhesive. Stick your bag to this piece of tape. Repeat these steps with all pieces of tape ensuring that the bag fits nicely in the seat and that there are no areas that the bag isn't touching within the interior of the seat. The opening of the bag should be at the top of the seat above the driver's shoulders. The extra bag along the edges of the seat needs to be taped down so that it does not interfere with the driver's entry into the seat. **See Example in photo 5.**
11. Once the bag is placed in the seat, it is now time to open the chemicals. It is vitally important that the chemicals be at a temperature range of 65-80 degrees. If the chemicals are not within this temperature range your results will not be satisfactory. It is not recommended to pour the chemicals the day you received them if they were shipped as they most likely have been in temperature extremes in transit to you. Leaving them in the suitable temperature range overnight will ensure proper temperature. **DO NOT MICROWAVE THE CHEMICALS!!!**
12. Open the pails of part A and part B. If part A and part B have been put in double pails, pour part A into the bigger pail provided. Mix part A for at least 1 minute until the entire mixture has turned black (SFI approved kits) or orange (FIA approved kits) without any white streaking in the liquid.
13. After part A has been thoroughly mixed now you are ready to pour the seat. Have the driver get into the seat being careful not to puncture the bag. Have the driver take their time getting in. Once they have taken their sitting position and are ready to pour, it is time to pour part B into part A.
14. Cover the floor under and around the buckets with a disposable item in case of splashing from the mixing. Mix on full rpm for 10-12 seconds. **Once part B has been poured into part A you cannot stop!** Be sure every precaution has been taken for getting the foam into the bag quickly. Pour the chemical into the bag as quickly as possible after mixing is complete. Do not try and pour the chemical into certain areas, simply dump it in. The chemical will find its way around the driver. You will have to open the bag for good pouring access. You will need to smooth the bag out once you have poured. As the chemical is poured in, have the driver lean forward and slightly raise his or her butt so that the chemical can flow under and around the thigh and leg area. As the driver visually see the chemical flowing between the legs slowly sit down and back into the seat. **For Large or Medium Kits**-As the chemical starts rising, have the driver lean forward so that the chemical can easily flow up their back. Once it reaches the shoulder blades they can sit back into the seat. It is a good idea to have the steering wheel available when the driver is molding. Do not worry if their arms do not have full motion as the extra foam will be trimmed away once the pour is complete.
15. After your pour wait approximate 5-7 minutes for the chemical to cure enough for the driver to exit and wait another 5 minutes (or longer) to remove the insert from the seat. Be careful when removing not to tear the foam. If tearing does happen it can be easily glued back together using the spray adhesive
16. Carefully remove the plastic bag from the insert.
17. Now using your electric carving knife you can trim the seat. Remove the bulk of extra foam first and then replace the insert into the seat and mark the edges of the seat with a marker. You can then remove the foam again and finish the final trimming.

Photos

1.

Photos

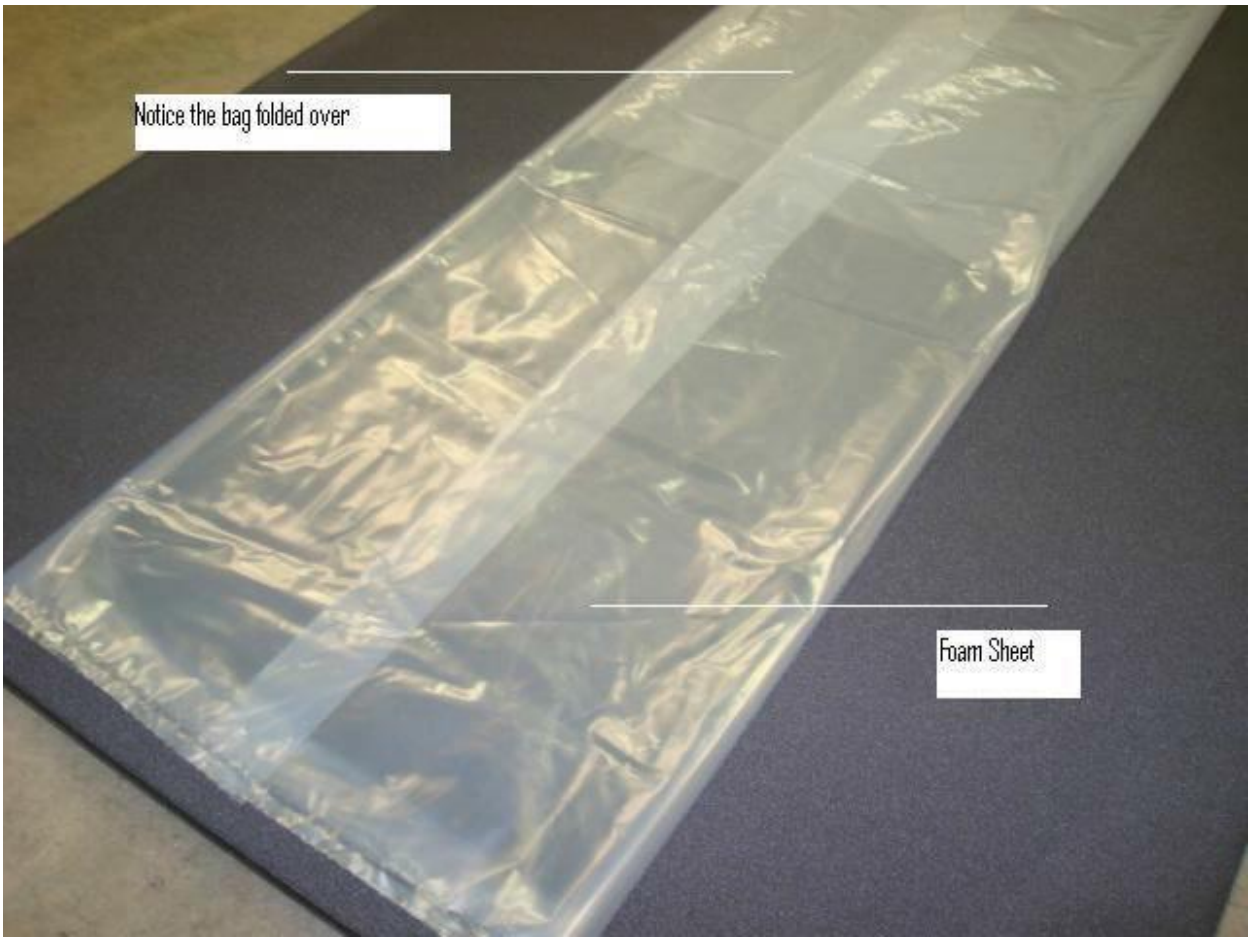
2.

Photos

3.

Photos

4.



PHOTOS

5.