

# FOG LIGHT HOUSING DESIGN



*Inspiration : The S2000 Spoon Sports S-Tai Front bumper design incorporates a flush mounted fog light system that doesn't interrupt any of the aerodynamic design the bumper provides. This has given me the drive to design a similar fog light system for the DC5 RSX/Integra Mugen Front Bumper.*



*Concept : The above images are concept renderings of flush mounted fog lights for a DC5 Mugen bumper. The design uses existing factory DC5 lights, that are custom made to suit the mugen bumper side airdam ducts. A common problem is the glass breaking at higher speeds due to rocks, so flush mounted lexan covers are added for protection. This concept is adapting the overall design of the s2000 spoon foglights, but custom fit for the DC5.*





*Early prototype phase: Both airdam ducts have been given a fiberglass base, and the start of the exterior housing for the foglights has begun.*





*The housing on the left has been sculpted and ready for a fiberglass shell, the housing on the right is awaiting to take shape. The design of the housing has an outer arch that mimics the wheel arches of the car body.*



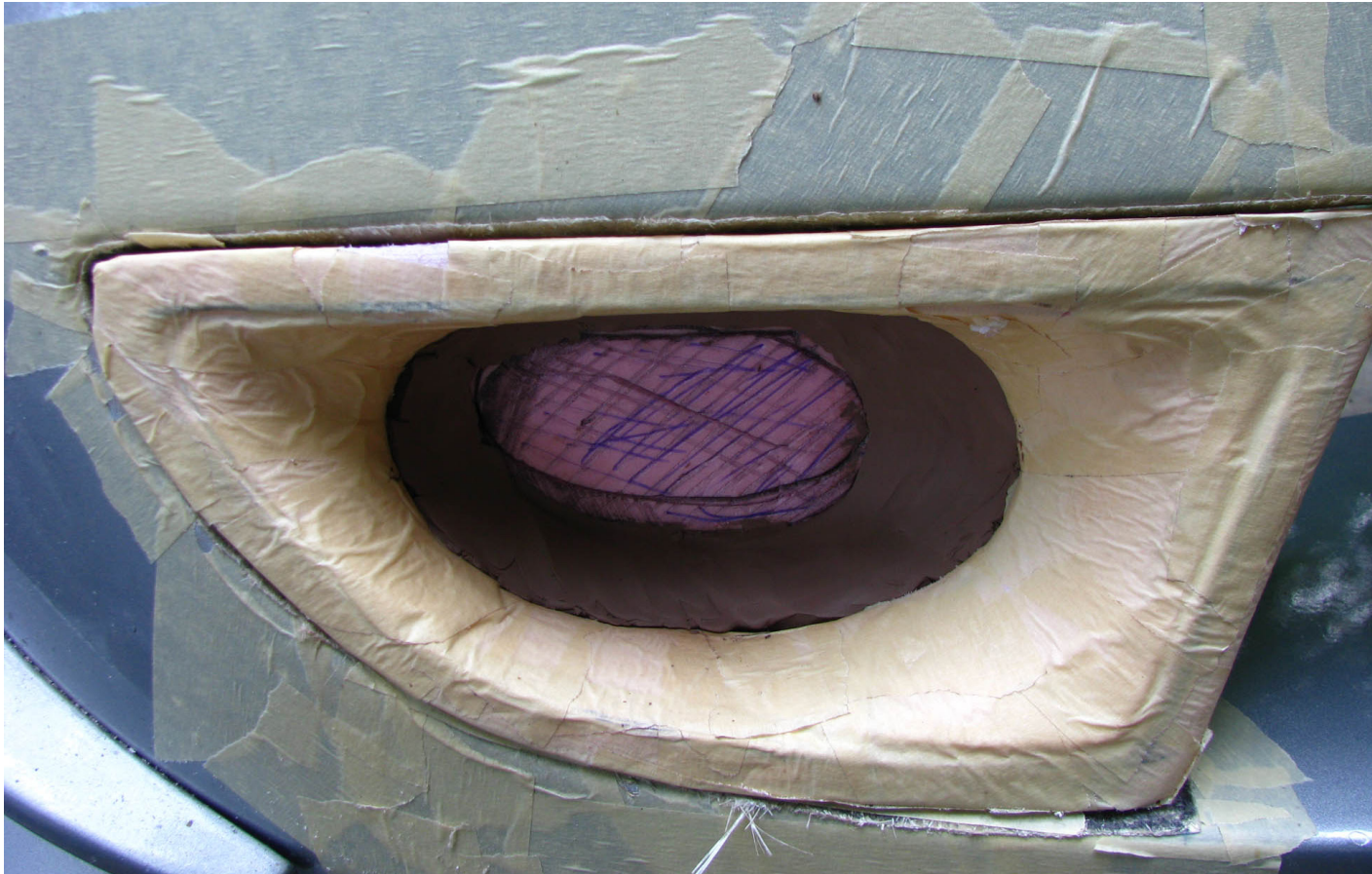
*The housings have both been sculpted and awaiting a clay transition to the fog lights themselves.*





*A template has been made of the outside shape of the fog light, and transferred onto a backing board. Clay was then used to transition the form from the outer housing to the light itself.*





*A closeup shot showing the backing board, clay transition and outer housing form.*



*This stage of the prototyping process shows the two housings with fiberglass outer shells, which was created from the base form in the previous photo. The fiberglass housing on the right has just been trimmed to fit at this stage. The left housing has been refined to its final form and now in primer.*





*Another closeup shot showing the refined housing fitted with the fog light into the side airdam of the bumper. The side return still needs to be added to make the housing complete.*





*The lexan (polycarbonate) covers have been traced based on a paper template, then after the overall shape is created, the bend is formed using a heat bender. A couple test pieces are made to get the return to be the right length and shape.*



*Finally after many test fits, both light housings are assembled with the outer covers using allen key dome nut bolts. The housings are held into the bumper cover at the back of the side airdam ducts, using quick release ties.*





*This photo really shows how well the fog lights could be seen as a factory option from Honda. They match the headlights well, using the same ducted inner housing. I personally think they accentuate the mugen bumper, yet they don't distract from it's bold lines.*





*Front head on view: the shields of the fog lights scream "I will take whatever you throw at me!" The fog lights hide behind the many reflections of the lexan shields, and give a sense of depth.*



*Close up view. This image almost gives the trio: headlight + fog light + bumper a terminator feel.*





*Headlights on, fog lights on... it's on now!*