

E4RS III / III PLUS - Tip 7: Split Upper Bulkheads

Past tests:

Using split upper bulkheads is something we thought to never see, as we made hundreds hours of test with one-piece and split upper bulkheads with the E4RS II Evo, to determinate if we are wrong or not by keeping the one-piece design, which is a real particularity of the Team Magic E4 series touring cars.

After more than 6 months of test and serious comparison on both asphalt and carpet track, we found the upper one-piece bulkheads provides a slightly better handling on the majority of tracks (higher corner speed and a bit more grip), and at least similar handling on other ones; but we have never been able to be faster with the split upper bulkheads than with the one-piece versions.

But these tests was on the E4RS II Evo, and we didn't made new serious test again on this point with the E4RS III chassis basis. We probably did something wrong about it, by keeping old feelings and facts as something sure and definitive. Probably the longer bulkheads of the E4RS II series made the split upper bulkheads not better has they are with smaller bulkheads on the E4RS III.

New "real and credible" tests:

Rémi Callens and Thomas Vigneron made new tests during first round of French nationals, and they obtained so big difference, than there is no place to doubt about the potential gain obtained.

Laps time was for both cars around 0.4s better with the split upper bulkheads. Fast enough to make a TQ run for Rémi, in front of top driver Loïc Jasmin, just after that modification.

So, we have no reason to don't consider it at it is. We recommend to cut the upper bulkheads, especially for high grip tracks. Be care to use two long enough and correctly tighten screws, instead of the 3 original ones.

How to modify your upper bulkhead:

Our recommendation is to keep the overall height of the part, to avoid shock tower bending under efforts.

So, we recommend to cut the part on the red lines you can see on the right drawing.

An easier way is to simply cut the upper bulkhead on the middle screw location.

To cut it, you can use a Dremel with cutting disk. Be care and protect your eyes ! Ask somebody experienced if you have a doubt or are not sure to do it correctly.

