



# **EVT HI**

**MD-1810-HI – High Impact**

**User Supplementary Manual**



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**INTRODUCTION**

The high impact EVT consists of a double skinned balloon that is deeper than the standard EVT.

From the rear it is identical in every way to the standard EVT. This ensures it will behave in exactly the same way as the standard EVT for Euro NCAP protocol testing, but with the added strength to receive impacts up to 80 km/h.

**SCOPE OF DELIVERY**

The scope of delivery is for the High Impact static tray. Other components supplied with the High Impact EVT will be identical to those stated in the EVT User Manual.

Qty	Description
1	High Impact back plate
1	High Impact base plate
4	L Shaped Mounting Brace
2	Cross Brace Bar
4	Nylon Skid Blocks
3	Reflective strips
2	Long Buckle Straps
1	Bolt set – 80 x M6 Nuts, 4 x M8 Nuts & bolts (wheels), 8 x M8 Nuts and Bolts (Skid Blocks) 8 x M6 Bolts (Cross Brace Bar)
4	Wheels – with 8 x collets
4	Offset Wheel Carriers



## BALLOON CAR ASSEMBLY

The standard EVT user manual can be followed to assemble the balloon, bumper element and cover.

The front and back panels of the high impact balloon car have four skins (two each side rather than the standard one skin each side) that must be inflated, plus an extra fifth connecting tube in the centre.

**Tip:** Due to the extra weight of the high impact balloon it is easier to inflate one inner skin at front and a second inner skin at the back first. This makes it easier to lift up one side to inflate all five connecting tubes – finally inflate the third and fourth outer skin each side.

## HIGH IMPACT TRAY ASSEMBLY

The static tray is deeper in construction to take the extra depth of the High Impact EVT balloon, plus it is much stronger in construction to handle the higher impacts.



Step 1 – Attach four mounting braces to the first cross brace bar using M6 bolts.





Step 2 – Attach second cross  
brace bar using M6 bolts



Step 3 – Attach 4 x Offset Wheel Carriers using M8 hex bolts/nuts provided –  
*(This step may be factory completed).*





## Step 4 – Locate and fix back plate –

- locate studs onto the holes in the mounting brace, then fix using M6 nuts provided.
- Add nuts **hand** tight only at first, this is to allow alignment of base tray in the next step.





Step 5 – Locate and fix the base plate to back tray and frame.  
Tighten all M6 nuts on back tray first, followed by the base tray



**Note:** Align the base and back tray in order to close the gap before tightening all the nuts.

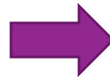


Step 6 – Attach the Four Skid Blocks using M8 button head bolts.  
Button head must be on the top side of the tray to avoid damage to balloon





Step 7 – Attach the Four Wheels –  
*(this step may already be factory completed)*







REVISION HISTORY

Version	Description
MD190806	Initial version