

Description:

In some situations a MADYMO run is aborted with the following message:

```
** ABORT ** ID=(BLTE01/3D/BNOFO3)  
Belt segment /4/2/1 ( /Belts/ Buckle_Belt /Shoulderbelt-Buckle ) :  
Distance between attachments is zero at time = 0.0680 s.  
100.0 15:04:17 1557.0 63.1 1166.1
```

This error is generated when there is not enough multibody belt length for belt slip to occur.

Solution :

It can be resolved by either

- Increasing the multibody belt length or
- Increasing the friction (realistic values) at the tying point.

Note 1: If the above doesn't resolve it, then check if contacts are working fine, for example by checking if the contact forces on the dummy are realistic.

Note2: If the abort occurs at the end of the rebound phase and the belt is no longer bearing a load a workaround is possible. Define a small ellipsoid at the belt tying point and a stiff contact between this ellipsoid and the FE belt end point(s) at which the MB belt is connected. Bear in mind the rigid body mass and inertia properties of this small ellipsoid: they should not influence the simulation.