



Occupant Model Checklist

Ford Taurus

Dec 2013

Checklist for Running the Ford Taurus Occupant Model

1. Determine the firing time using the “5-30” rule.
 - a. Double integrate the crash pulse to get the displacement time history.
 - b. Identify the time corresponding to 5 inches of displacement.
 - c. Subtract 30 ms from that time to get the firing time.
2. Change the value of the following variables under CONTROL_ANALYSIS.TIME to the calculated firing time.
 - a. DAB_TTF
 - b. Anchoragepretensioner_TTF
 - c. Anchoragebuckleframe_TTF
 - d. Ret_stroke_ttf
3. Change the INITIAL_JOINT_VEL for Motion_jnt (under the DS3_Interiors system) to correspond to the desired initial velocity.
4. Change the crash pulse using the following functions, which are called in MOTION_JOINT_ACC for Motion_jnt (under the DS3_Interiors system).
 - a. For full frontal
 - i. /DS3_Interiors/vehicle_acc
 - b. For offset or centerline pole
 - i. /DS3_Interiors/vehicle_acc
 - ii. /DS3_Interiors/vehicle_accY
 - iii. /DS3_Interiors/vehicle_accZ
5. If PSM is enabled in the model, update the PSM file names.
 - a. For the floor structure, include the PSM file under /DS3_Interiors/Toeboard_fem/MOTION.STRUCT_DISP
 - b. For the footrest structure, include the PSM file under /DS3_Interiors/Toeboard_fem_intrusion/MOTION.STRUCT_DISP