

Appendix



Figure A1: Side sled setup with belted dummy laying on her right side.



Figure A2: Post-test head contact on the B-pillar trim and dummy position in the belts.

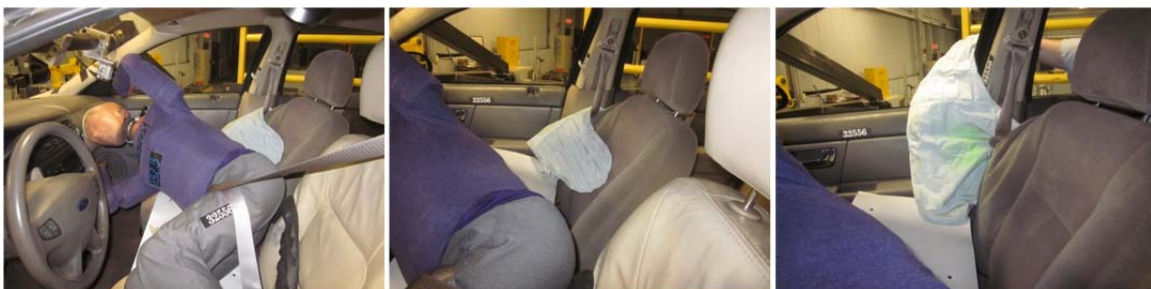


Figure A3: Post-test head contact on the combo airbag and dummy position in the belts.

Table A1: Peak responses in the four far-side impact tests.

		Peak Biomechanical Responses				5th IARV	Percent of IARV			
		H32534	H32535	H32555	H32556		H32534	H32535	H32555	H32556
Ford Taurus		Driver No	Driver Yes	Driver No	Driver Yes		Driver No	Driver Yes	Driver No	Driver Yes
Side combo airbag (69.5 kg 5th Hybrid III)										
Sled Vel	(km/h)	-33	-33	-24	-25					
Sled Acc	(g)	-41.3	-41.3	-20.0	-21.0					
Impact	(N)	-15,272	-15,153	-4,691	-4,838					
Force z										
Head Acc	Res. (g)	236	262	93	72	193	122%	136%	48%	37%
HIC₃₆		930	1,208	171	123	1000	93%	121%	17%	12%
HIC₁₅		930	1,183	171	123	779	119%	152%	22%	16%
	Fx (N)	1,985	476	108	60	1,950	102%	24%	6%	3%
		-1,856	-2,703	-636	-830	-1,950	95%	139%	33%	43%
	Fy (N)	148	287	89	144	1,950	8%	15%	5%	7%
		-1,118	-653	-68	-261	-1,950	57%	34%	3%	13%
	Fz (N)	330	1,126	222	127	2,620	13%	43%	8%	5%
Upper Neck		-13,385	-13,389	-5,209	-5,396	-2,520	531%	531%	207%	214%
	Mx (Nm)	22	9	13	9	72	31%	12%	18%	13%
		-11	-87	-3	-10	-72	15%	120%	4%	14%
	My (Nm)	37	37	30	32	95	39%	39%	32%	33%
	Corrected	-279	-221	-53	-93	-49	569%	451%	108%	189%
	Mz (Nm)	13	11	2	4	49	27%	22%	5%	8%
		-1	-8	-2	-1	-49	1%	16%	5%	3%
	Fx (N)	1,401	1,034	324	244	1,950	72%	53%	17%	13%
		-829	-1,413	-272	-375	-1,950	43%	72%	14%	19%
	Fy (N)	344	503	54	121	1,950	18%	26%	3%	6%
Lower Neck		-4,421	-3,261	-1,433	-1,831	-1,950	227%	167%	73%	94%
	Fz (N)	83	190	372	166	2,620	3%	7%	14%	6%
		-12,540	-13,158	-3,186	-3,611	-2,520	498%	522%	126%	143%
	Mx (Nm)	40	57	20	13	144	28%	40%	14%	9%
		-124	-75	-47	-63	-144	86%	52%	32%	44%
	My (Nm)	160	175	81	129	190	84%	92%	43%	68%
	Corrected	-218	-246	-13	-13	-98	222%	251%	13%	13%
Thoracic Spine										
	Fx (N)	1,274	916	261	420					
		-697	-1,164	-222	-235					
	Fy (N)	857	830	176	262					
		-418	-254	-337	-251					
	Fz (N)	51	148	1,755	735					
		-11,023	-9,670	-1,078	-988					
	Mx (Nm)	86	40	30	32					
		-39	-211	-42	-32					
	My (Nm)	437	345	79	114					
		-8	-9	-32	-42					
Lumbar Spine										
	Fx (N)	943	1,166	1,340	1,556					
		-1,790	-1,387	-314	-486					
	Fy (N)	307	157	100	293					
		-402	-211	-312	-188					
	Fz (N)	2,955	4,391	2,803	2,824					
		-5,867	-4,524	-282	-352					
	Mx (Nm)	26	12	54	20					
		-26	-12	-206	-89					
	My (Nm)	65	54	9	25					
		-21	-21	-131	-153					
Chest	Res. (g)	77.0	85.1	29.7	30.7	73	105%	117%	41%	42%
	3ms	55.0	50.8	27.2	27.6	73	75%	70%	37%	38%
Lap belt	(N)	--	--	2,806	2,675					