

DATA SHEET NO. 9...(CONTINUED)

Test Vehicle: 2004 Jeep Liberty 4-Door MPV

NHTSA No.: R40402

Test Program: 2004 FMVSS 208 Upgrade

Test Date: 8/12/04

DUMMY INJURY CRITERIA DATA

Parameter	Driver (95th)	
	Injury Criteria and Performance Limits	
	H3 95th w/ Denton Limit	Test Value
HIC (15 msec)	700	575
NIJ (Compression Flexion)	1	0.17
NIJ (Compression Extension)	1	0.15
NIJ (Tension Flexion)	1	0.17
NIJ (Tension Extension)	1	0.31
Peak Upper Neck Tension (N)	5030	2088
Peak Upper Neck Compression (N)	4830	350
3 ms Chest Acceleration (G)	55	46
Chest Deflection (MM)	70	32
Left Femur Load (N)	12700	-4632
Right Femur Load (N)	12700	-3658
Left Tibia to Femur Displacement (MM)	17	-12.8
Right Tibia to Femur Displacement (MM)	17	-11.5
Left Upper Tibia Index	1.00	0.92
Right Upper Tibia Index	1.00	0.88
Left Lower Tibia Index	1.00	0.24
Right Lower Tibia Index	1.00	0.19
Left Upper Tibia Compression FZ (N)	9840	N/A
Right Upper Tibia Compression FZ (N)	9840	N/A
Left Lower Tibia Compression FZ (N)	9840	1813
Right Lower Tibia Compression FZ (N)	9840	2481
Left Foot XL Rotation (Degrees)	N/A	N/A
Right Foot XL Rotation (Degrees)	N/A	N/A
Left Foot YL Rotation (Degrees)	N/A	N/A
Right Foot YL Rotation (Degrees)	N/A	N/A

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DUMMY INJURY CRITERIA DATA

Parameter	Right Front Passenger (95th)	
	Injury Criteria and Performance Limits	
	H3 95th w/ Denton Limit	Test Values
HIC (15 msec)	700	513
NIJ (Compression Flexion)	1	0.10
NIJ (Compression Extension)	1	0.17
NIJ (Tension Flexion)	1	0.23
NIJ (Tension Extension)	1	0.43
Peak Upper Neck Tension (N)	5030	1906
Peak Upper Neck Compression (N)	4830	161
3 ms Chest Acceleration (G)	55	43
Chest Deflection (MM)	70	-28
Left Femur Load (N)	12700	-6888
Right Femur Load (N)	12700	-5558
Left Tibia to Femur Displacement (MM)	17	-5.9
Right Tibia to Femur Displacement (MM)	17	0.0
Left Upper Tibia Index	1.00	0.50
Right Upper Tibia Index	1.00	1.00
Left Lower Tibia Index	1.00	0.32
Right Lower Tibia Index	1.00	0.42
Left Upper Tibia Compression FZ (N)	9840	N/A
Right Upper Tibia Compression FZ (N)	9840	N/A
Left Lower Tibia Compression FZ (N)	9840	3704
Right Lower Tibia Compression FZ (N)	9840	2610
Left Foot XL Rotation (Degrees)	N/A	N/A
Right Foot XL Rotation (Degrees)	N/A	N/A
Left Foot YL Rotation (Degrees)	N/A	N/A
Right Foot YL Rotation (Degrees)	N/A	N/A

1.) Channel failed, no data

DATA SHEET NO. 9...(CONTINUED)

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DUMMY INJURY CRITERIA DATA

Parameter	Center Rear Passenger (50th)	
	Injury Criteria and Performance Limits	
	H3 50th w/ Denton Limit	Test Values
HIC (15 msec)	700	1096
NIJ (Compression Flexion)	1	0.37
NIJ (Compression Extension)	1	0.00
NIJ (Tension Flexion)	1	0.59
NIJ (Tension Extension)	1	0.57
Peak Upper Neck Tension (N)	4170	3549
Peak Upper Neck Compression (N)	4000	675
3 ms Chest Acceleration (G)	60	45
Chest Deflection (MM)	63	-34
Left Femur Load (N)	10008	-805
Right Femur Load (N)	10008	-1074
Left Tibia to Femur Displacement (MM)	15	0.0
Right Tibia to Femur Displacement (MM)	15	-1.2
Left Upper Tibia Index	0.91	N/A
Right Upper Tibia Index	0.91	N/A
Left Lower Tibia Index	0.91	N/A
Right Lower Tibia Index	0.91	N/A
Left Upper Tibia Compression FZ (N)	5600	N/A
Right Upper Tibia Compression FZ (N)	5600	N/A
Left Lower Tibia Compression FZ (N)	5200	N/A
Right Lower Tibia Compression FZ (N)	5200	N/A
Left Foot XL Rotation (Degrees)	N/A	N/A
Right Foot XL Rotation (Degrees)	N/A	N/A
Left Foot YL Rotation (Degrees)	N/A	N/A
Right Foot YL Rotation (Degrees)	N/A	N/A

1.) Channel failed, no data