

DATA SHEET NO. 9...(CONTINUED)

Test Vehicle: 2004 Jeep Liberty 4-Door MPV

NHTSA No.: R40401

Test Program: 2004 FMVSS 208 Upgrade

Test Date: 9/9/04

DUMMY INJURY CRITERIA DATA

Parameter	Driver (50th)	
	Injury Criteria and Performance Limits	
Parameter	H3 50th w/ THOR Limit	Test Value
HIC (15 msec)	700	307
NIJ (Compression Flexion)	1	0.10
NIJ (Compression Extension)	1	0.06
NIJ (Tension Flexion)	1	0.29
NIJ (Tension Extension)	1	0.29
Peak Upper Neck Tension (N)	4170	605
Peak Upper Neck Compression (N)	4000	1202
3 ms Chest Acceleration (G)	60	55
Chest Deflection (MM)	63	42
Left Femur Load (N)	9040	-7662
Right Femur Load (N)	9040	-6578
Left Tibia to Femur Displacement (MM)	15	0.0
Right Tibia to Femur Displacement (MM)	15	0.0
Left Upper Tibia Index	0.91	0.73
Right Upper Tibia Index	0.91	0.81
Left Lower Tibia Index	0.91	0.48
Right Lower Tibia Index	0.91	0.31
Left Upper Tibia Compression FZ (N)	5600	1453
Right Upper Tibia Compression FZ (N)	5600	1993
Left Lower Tibia Compression FZ (N)	5200	2821
Right Lower Tibia Compression FZ (N)	5200	3422
Left Foot XL Rotation (Degrees)	35	-36
Right Foot XL Rotation (Degrees)	35	19
Left Foot YL Rotation (Degrees)	35	-9
Right Foot YL Rotation (Degrees)	35	24

1.) Questionable data

2.) Channel failed, no data

DATA SHEET NO. 9...(CONTINUED)Test Vehicle: 2004 Jeep Liberty 4-Door MPVNHTSA No.: R40401Test Program: 2004 FMVSS 208 UpgradeTest Date: 9/9/04**DUMMY INJURY CRITERIA DATA**

	Right Front Passenger (50th)	
	Injury Criteria and Performance Limits	
Parameter	H3 50th w/ THOR Limit	Test Values
HIC (15 msec)	700	523
NIJ (Compression Flexion)	1	0.06
NIJ (Compression Extension)	1	0.11
NIJ (Tension Flexion)	1	0.38
NIJ (Tension Extension)	1	0.29
Peak Upper Neck Tension (N)	4170	1343
Peak Upper Neck Compression (N)	4000	830
3 ms Chest Acceleration (G)	60	67
Chest Deflection (MM)	63	-12
Left Femur Load (N)	9040	-7647
Right Femur Load (N)	9040	-8065
Left Tibia to Femur Displacement (MM)	15	-4.3
Right Tibia to Femur Displacement (MM)	15	-12.0
Left Upper Tibia Index	0.91	0.65
Right Upper Tibia Index	0.91	1.14
Left Lower Tibia Index	0.91	0.50
Right Lower Tibia Index	0.91	0.58
Left Upper Tibia Compression FZ (N)	5600	4775
Right Upper Tibia Compression FZ (N)	5600	3886
Left Lower Tibia Compression FZ (N)	5200	5600
Right Lower Tibia Compression FZ (N)	5200	5074
Left Foot XL Rotation (Degrees)	35	38
Right Foot XL Rotation (Degrees)	35	-30
Left Foot YL Rotation (Degrees)	35	37
Right Foot YL Rotation (Degrees)	35	-30

DATA SHEET NO. 9...(CONTINUED)

Test Vehicle: 2004 Jeep Liberty 4-Door MPV

NHTSA No.: R40401

Test Program: 2004 FMVSS 208 Upgrade

Test Date: 9/9/04

DUMMY INJURY CRITERIA DATA

	Center Rear Passenger (50th)	
	Injury Criteria and Performance Limits	
Parameter	H3 50th w/ Denton Limit	Test Values
HIC (15 msec)	700	420
NIJ (Compression Flexion)	1	0.20
NIJ (Compression Extension)	1	0.03
NIJ (Tension Flexion)	1	0.65
NIJ (Tension Extension)	1	0.04
Peak Upper Neck Tension (N)	4170	2352
Peak Upper Neck Compression (N)	4000	53
3 ms Chest Acceleration (G)	60	41
Chest Deflection (MM)	63	-38
Left Femur Load (N)	10008	-1539
Right Femur Load (N)	10008	-2389
Left Tibia to Femur Displacement (MM)	15	-2.6
Right Tibia to Femur Displacement (MM)	15	0.0
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