



QUICKLOOK REPORT

56 km/h (35 mph) Frontal Validation Testing

2010 Mazda3 I Sport 4-Door Sedan NHTSA No. MA5401

May 7, 2009

Injury Reading	Driver, 50th Percentile Male					Passenger, 5th Percentile Female			
	Units	Limit	Value	t ¹	t ²	Limit	Value	t ¹	t ²
HIC 15		700	186.6	73.2	88.2	700	283.1	58.9	73.9
Nij		1	0.21	100.9	Nte	1	0.46	71.0	Nte
Upper Neck Force Z (Tension)	Newtons	4170	792.8	79.2		2620	835.2	62.7	
Upper Neck Force Z (Compression)	Newtons	4000	-58.2	141.1		2520	-232.6	97.4	
Upper Neck Moment Y (Flexion)	Newtons	310	45.4	66.2		155	21.8	142.4	
Upper Neck Moment Y (Tension)	Newtons	135	-19.3	100.7		67	-20.2	71.0	
Chest Deflection	MM	76	-15.7	51.3		52	-22.8	60.9	
Femur Force, Left	Newtons	10008	-217.3	20.3		6805	-2537.0	49.4	
Femur Force, Right	Newtons	10008	-739.4	62.6		6805	-3049.2	58.8	

Test Particulars				
Metric Units		English Units		
Units	Value	Units	Value	
Vehicle Impact Velocity	km/h	56.36	mph	35.02
Vehicle Curb Weight	kg	1327	lbs	2925
Vehicle Test Weight	kg	1506	lbs	3320
As Delivered Vehicle Width	MM	1750	Inches	68.9
As Delivered Vehicle Wheelbase	MM	2640	Inches	103.9
As Delivered Vehicle Length	MM	4575	Inches	180.1

Airbag Deployment				
Driver (P1)		Front Pass. (P2)		
Deployment	Mount	Deployment	Mount	
Front	Yes	St. Whl	Yes	Dash
Knee	N/A	N/A	N/A	N/A
Side Torso	No	Seat	N/A	N/A
Side Curtain	No	Header	No	Header

Comments: _____

Standards Measured Post-Test	
212 - Windshield Periphery Retention	Yes
219 (Partial) - Windshield Zone	Yes
301 - Fuel System Integrity	Yes

Vehicle Safety Features		
	Driver	Passenger
Pre-tensioners	Yes	Yes
Load Limiters	Yes	Yes
Adj. Belt Anchors	Yes	Yes
ABS	Yes	
ADLs	No	

Test Vehicle Doors	
Disable ADLs Using Owners Manual	No
Doors Locked (Pre-Test)	No
Doors Latched (Post-Test)	Yes

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