



QUICKLOOK REPORT
32 km/h (20 mph) Side Impact Validation 75° Rigid Pole Test
2010 Mazda3 I Sport 4-Door Sedan NHTSA No. MA5403
May 6, 2009

SID-IIs					
	Units	Limit	Value	t1	t2
HIC 36		1000	2846.4	60.4	61.7
Combined Pelvic Force	N	5525	1910		
Lower Spine Acceleration	G's	82	51		

SID-IIS Filtered Data					
	Units	Max	Time	Min	Time
Max. Thorax Rib Deflection	MM	28.2	53.3	0.0	4.2
Lower Spine (T12) Resultant	G's	51.3	50.7	0.1	11.8
Max. Abdomen Rib Deflection	MM	27.5	52.2	0.0	11.4
Iliac Force	N	1057.8	49.6	-129.2	65.2
Acetabulum Force	N	869.8	46.1	-7.7	92.0

Test Particulars				
Metric Units		English Units		
Units	Value	Units	Value	
MDB Velocity	km/h	31.67	mph	19.68
Vehicle Curb Weight	kg	1297	lbs	2858
Vehicle Test Weight	kg	1382	lbs	3046
Vehicle Width	mm	1747	Inches	68.8
Vehicle Wheelbase	mm	2639	Inches	103.9
Vehicle Length	mm	4572	Inches	180.0

Test Vehicle Doors	
Can Disable ADLs Using Owner's Manual	No
Doors Locked (Pre-Test)	No
Driver Door Latched (Post-Test)	Yes

Impact Location		
Ref. Line Aft of Frt. Axle	MM	1067
Actual Impact Pt. Aft of Frt. Axle	MM	1051
Vertical Impact Pt. Difference	MM	6

Airbag Deployment		
Driver (P1)		
	Deployment	Mount
Head Bag	Yes	Curtain
Torso Bag	Yes	Seatback
Combination Bag	N/A	N/A
Frontal Bag	No	Steering Wheel

Vehicle Safety Features	
Pretensioners	Yes
Load Limiters	Yes
Adjustable Belt Anchors	Yes
ABS	Yes
ADLs	No

Comments:

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