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**SAFETY COMPLIANCE TESTING FOR
FMVSS 401
Interior Trunk Release**

**2004 Mazda RX-8 2Door
NHTSA No. C45406**

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FINAL REPORT

PREPARED FOR:

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16. Abstract A compliance test was conducted on the subject 2004 Mazda RX-8 2-Door, NHTSA No. C45408, in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-401-01 for the determination of FMVSS 401 compliance. The test was conducted at a Mazda Dealership in Northern Virginia, by NHTSA personnel on March 10, 2004. Test failures identified were as follows: NONE					
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1.0 PURPOSE OF COMPLIANCE TEST

The purpose of this compliance test was to determine whether the subject vehicle, a 2004 Mazda RX-8 2-Door, meets the performance requirements of FMVSS 401, Interior Trunk Release.

The test was conducted in accordance with the U. S. Department of Transportation, National Highway Traffic Safety Administration's Laboratory Test Procedure TP-401-01.

The test was conducted at a Mazda Dealership in Northern Virginia on March 10, 2004 by NHTSA Office of Vehicle Safety Compliance test engineers.

2.0 TEST PROCEDURE AND DISCUSSION OF RESULTS

Based on the test performed, the 2004 Mazda 6 4-Door, NHTSA No. C45405 appeared to meet the requirements of FMVSS 401.

The vehicle was tested by entering the trunk and closing the lid. The release slide lever was easily observed in the darkened, enclosed trunk. A force gauge was attached to the release handle and 3 separate attempts were made to exit the trunk by applying a load to the instrument. For each attempt, the trunk released from the single latching position at a force level of approximately 9.0 newtons (2.0 lbs.) or less.

3.0 COMPLIANCE TEST DATA**DATA SHEET 1****FMVSS 401 - VEHICLE DESCRIPTION**VEHICLE MY/MAKE/MODEL 2004/MAZDA RX-8/2-DOORBODY STYLE: 2-DOORVEH. NHTSA NO.: C45406 ; VIN: JM1FE173740120272DATE OF TEST: 03/10/04TEST LAB: BY OVSC @ DEALERGVWR: 1728 KGMANUFACTURED DATE: 10/03TRUNK LOCATION: REAR X FRONT _____If Front, Front Opening? naNUMBER OF TRUNK LID LATCHING POSITIONS: 1INTERIOR TRUNK RELEASE: MANUAL X ; AUTOMATIC _____;

BOTH _____

POWER OPERATED CLOSURE: naOWNER'S MANUAL DESCRIPTION OF TRUNK RELEASE: YES X

NO _____

REMOVABLE EQUIPMENT DELIVERED IN TRUNK:SPARE TIRE: X (SIZE) _____TIRE JACK: XLUG WRENCH: XTOOL BOX: - (SIZE) -PARTITIONS: -OTHER: -**REMARKS:**RECORDED BY: SSeDATE: 03/10/04APPROVED BY: S. Seigel

3.0 DATA SHEETS....Continued

DATA SHEET 2 (1 of 2)

FMVSS 401 - All trunks except for front trunk compartments with front opening hoods

MANUAL TRUNK RELEASE OPERATION

VEHICLE MY/MAKE/MODEL/BODY STYLE: 2004/MAZDA RX-8/2-DOOR

VEH. NHTSA NO.: C45408 ; VIN: JM1FE173740120272

DATE OF TEST: 3/10/04

Method used to actuate interior trunk release: SLIDE LEVER (Grab handle, Rotating lever, etc.)

Can test personnel enter trunk and be closed within: Yes X No

If Yes, size of occupant: At least 50th percentile male

Is there access to the trunk compartment by folding down rear seat or partition:

Yes X No

Does Release Mechanism require electric power: Yes No X

Can release mechanism be easily seen inside the closed trunk: Yes X No

Describe method used by vehicle manufacturer to ensure that release mechanism is visible in a closed trunk compartment: Phosphorescence
(Phosphorescence, auxiliary lighting, etc)

Describe laboratory test method used to determine visibility of release mechanism: Trunk Entry (Trunk entry, darkened room, etc.)

Vehicle Stationary (0 km/h) NO KEY IN IGNITION	Force Required to Release Trunk Lid (Newtons) [no requirement]	Trunk Released from <u>All</u> latching positions	Pass/Fail
Attempt 1	6.8 N - 1.5 pounds	Yes	pass
Attempt 2	9.0 N - 2.0 pounds	Yes	pass
Attempt 3	6.8 N - 1.5 pounds	Yes	pass
Average -	7.5N - 1.7 pounds		

3.0 DATA SHEETS....Continued

DATA SHEET 2 (2 of 2)

FMVSS 401 - MANUAL TRUNK RELEASE OPERATION (continued)

NOTE: Interior Trunk Release is a totally mechanical system with its operation and functioning not dependant upon engine operation or vehicle speed. The release mechanism will function identical to that of the stationary vehicle with the no key in the ignition (as previously tested) and thus the following tests were not required to be conducted.

Vehicle Stationary (0 km/h)	Force Required to Release Trunk Lid (Newtons) [no requirement]	Trunk Released from <u>All</u> latching positions	Pass/Fail
ENGINE IDLING			
Attempt 1			
Attempt 2			
Attempt 3			
Average -			

Vehicle Speed (km/h)	Force Required to Release Trunk Lid (Newtons) [no requirement]	Trunk Released from <u>All</u> latching positions	Pass/Fail
10			
20			
30			

Describe method used to propel vehicle: _____

PASS X FAIL _____

REMARKS:

RECORDED BY: SSe

DATE: 3/10/04

APPROVED BY: S. Seigel

3.0 DATA SHEETS....Continued

DATA SHEET 3
FMVSS 401 - TEST SUMMARY

	PASS	FAIL	COMMENTS
Automatic or Manual release mechanism inside the trunk compartment. S4.1	X		Manual release lever handle
If manual release, lighting feature is included. S4.2(a)	X		Self Lighting
If automatic release, unlatches trunk lid within 5 minutes. S4.2(b)	Na		
Except as provided by S4.3(b), actuation of release mechanism required by S4.1 completely releases trunk lid from all latching positions of the trunk lid latch. S 4.3(a)	X		Single Latch Position Only
For front trunk compartments, front opening hoods, when vehicle is stationary latch releases trunk lid from all locking positions. When moving forward at a speed less than 5km/h, must release the primary latch and may release all latches. At speeds greater than 5km/h must release the primary latch only. S4.3(b)	Na		

PASS X FAIL

REMARKS: RECORDED BY: SSe

APPROVED BY: S.Selgel

DATE: 3/10/04

4.0 - Test Equipment List and Calibration Information

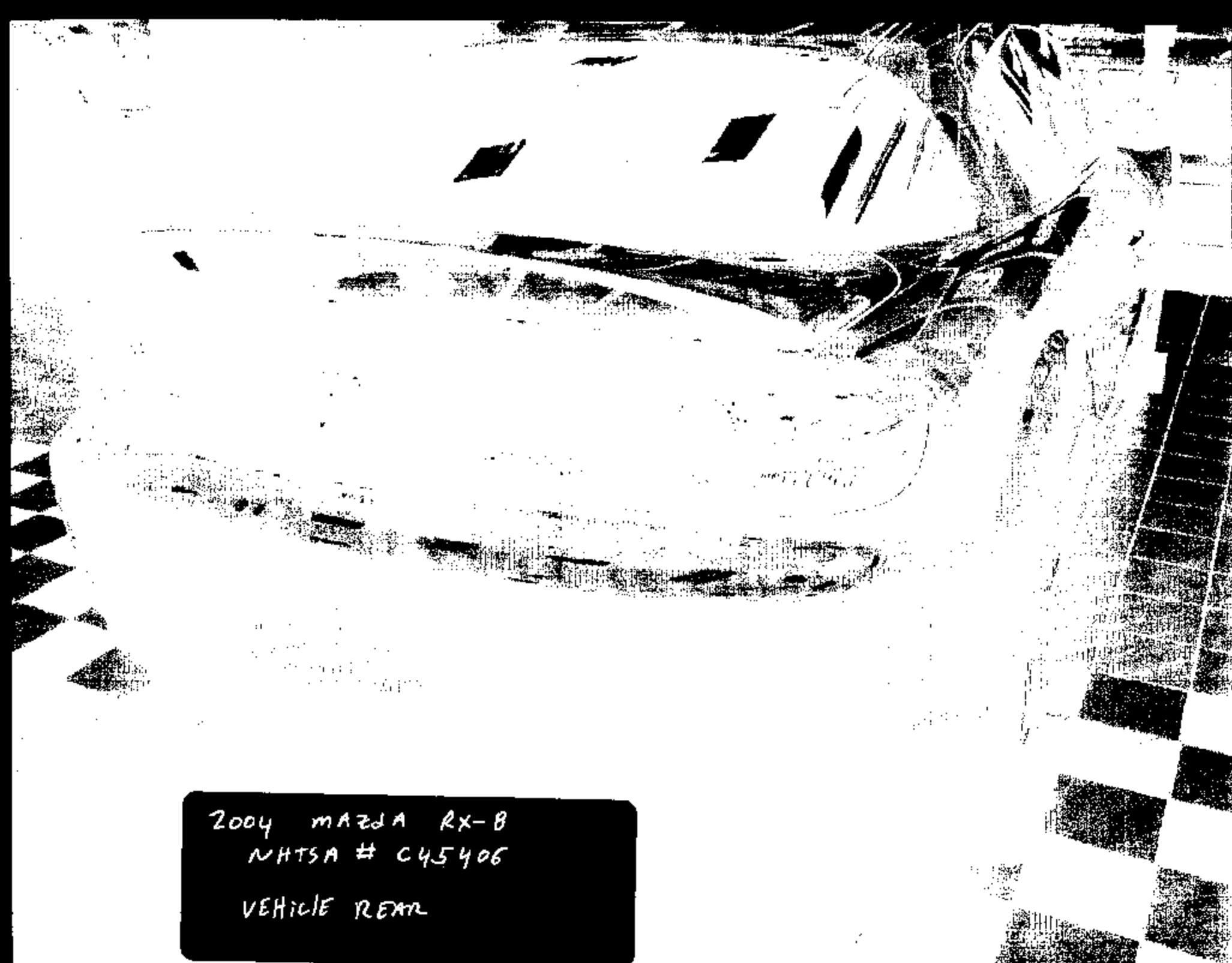
EQUIPMENT	DESCRIPTION	MODEL/SERIAL NO.	CALIBRATION DATE	NEXT CAL. DATE
Force Transducer	Viking Jr. Hanson Instrument	Model 890	Manufacturer	Manufacturer

5.0 - Photographs



2004 MAZDA RX-8
NHTSA # C45406

VEHICLE Front



2004 MAZDA RX-8
NHTSA # C45406

VEHICLE REAR

2004 MAZDA RX-8
NHTSA # C45406

TRUNK OPEN

2004 MAZDA RX-8
NHTSA # C45406

VEHICLE CERTIFICATION LABEL



2004 MAZDA RX-8
NHTSA # C45406

TRUNK RELEASE SLIDE LEVER

6.0 Vehicle Owner's Manual (applicable pages)

