

FINAL REPORT NUMBER 401-NSA-04-002

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

**2004 Chevrolet Cavalier 2-Door
NHTSA No. C40116**

**Prepared by:
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March 29, 2004

FINAL REPORT

PREPARED FOR:

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16. Abstract A compliance test was conducted on the subject 2004 Chevrolet Cavalier 2-Door, NHTSA No. C40116, 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 Chevrolet Dealership in Northern Virginia, by NHTSA personnel on March 10, 2004. Test failures identified were as follows: NONE			
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TABLE OF CONTENTS

<u>SECTION NO.</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
1.0	PURPOSE OF COMPLIANCE TEST	5
2.0	TEST PROCEDURE AND DISCUSSION OF RESULTS	6
3.0	COMPLIANCE TEST DATA	7
4.0	TEST EQUIPMENT LIST AND CALIBRATION INFORMATION	11
5.0	PHOTOGRAPHS	12
	List of Photographs	
	A. Vehicle Front	
	B. Vehicle Rear	
	C. Trunk Open	
	D. Vehicle Certification Label	
	E. Trunk Release Handle	
	F. Force Transducer Attached to Release Lever	
6.0	VEHICLE OWNER'S MANUAL (applicable pages)	13

1.0 PURPOSE OF COMPLIANCE TEST

The purpose of this compliance test was to determine whether the subject vehicle, a 2004 Chevrolet Cavalier 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 Chevrolet 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 Chevrolet Cavalier 2-Door, NHTSA No. C40116 appeared to meet the requirements of FMVSS 401.

The vehicle was tested by entering the trunk and closing the lid. The release handle 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 newtons (2 lbs.) or less.

3.0 COMPLIANCE TEST DATA

DATA SHEET 1

FMVSS 401 - VEHICLE DESCRIPTION

VEHICLE MY/MAKE/MODEL 2004/CHEVROLET / CAVALIERBODY STYLE: 2-DOORVEH. NHTSA NO.: C40116 ; VIN: 1G1JH14F947239456DATE OF TEST: 03/10/04TEST LAB: BY OVSC @ DEALERGVWR: 1674 KGMANUFACTURED DATE: 11/03TRUNK 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: X

TOOL BOX: _____ (SIZE) _____

PARTITIONS: _____

OTHER: _____

REMARKS:

RECORDED BY: SSa DATE: 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/CHEVROLET/CAVALIER/2-DOOR

VEH. NHTSA NO.: C40116_____ ; VIN: 1G1JH14F947239456

DATE OF TEST: 3/10/04

Method used to actuate interior trunk release: T-shaped grab handle to cable
(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	6.8 N - 1.5 pounds	Yes	pass
Attempt 3	9.0 N - 2.0 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) ENGINE IDLING	Force Required to Release Trunk Lid (Newtons) [no requirement]	Trunk Released from <u>All</u> latching positions	Pass/Fail
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 FAIL _____

REMARKS:

RECORDED BY: SSeDATE: 3/10/04APPROVED 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.Seigel

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

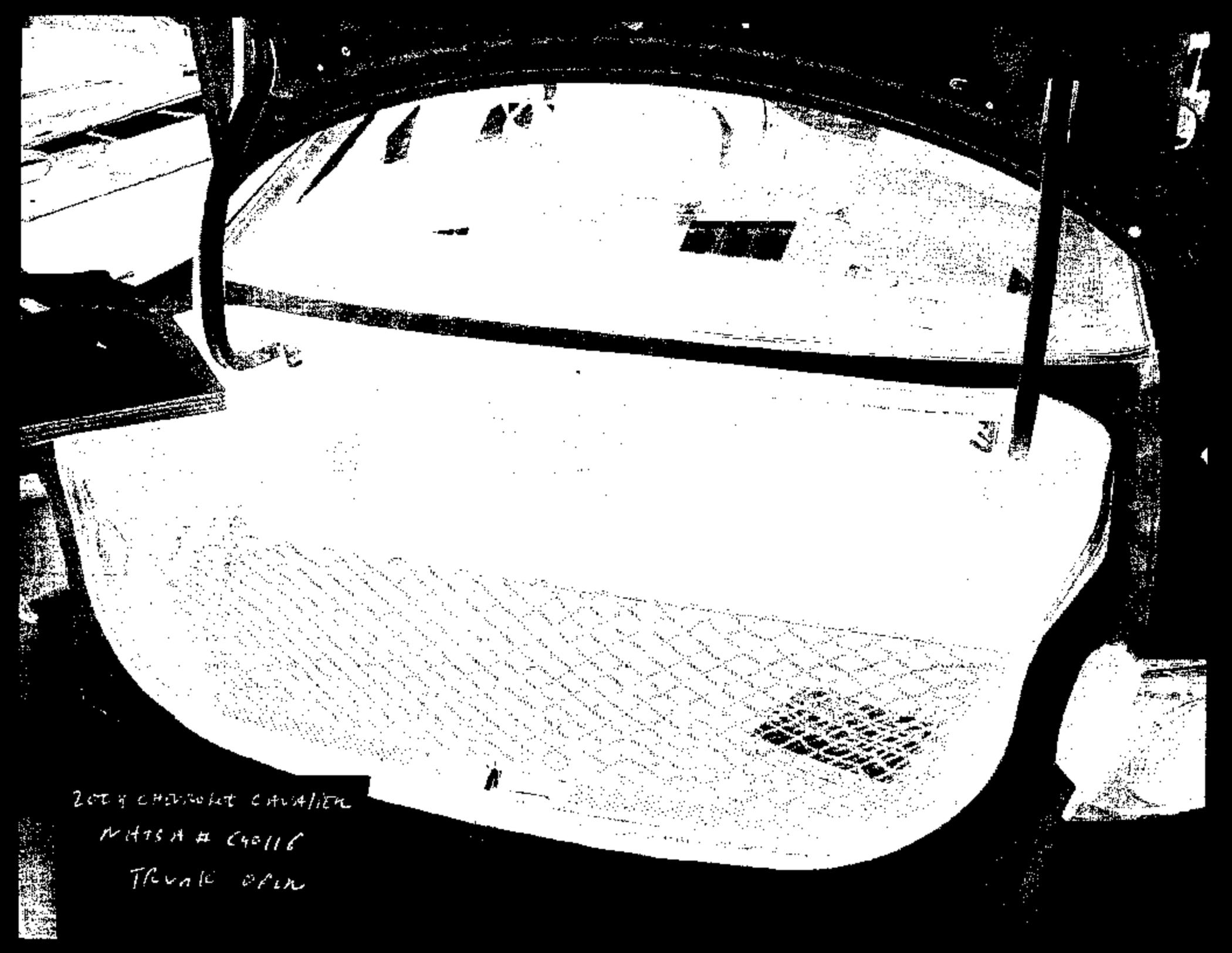


7 700 7032
R VOLUT

2004 CHEVROLET CAVALIER
MATS # C40116
VEHICLE FRONT



2004 CHEVROLET CAVALIER
MITSUB # 640116
VEHICLE FROM



2004 CHEVROLET CAVALIER
VIN # 1G1TS1A # C40116
TRUNK OPEN



MFD BY GENERAL MOTORS CORP

DATE	GVWR	GAWR FRT	GAWR RR
11/03	1674 KG 3690 LB	913 KG 2013 LB	761 KG 1677 LB

THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY, BUMPER, AND THEFT PREVENTION STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.

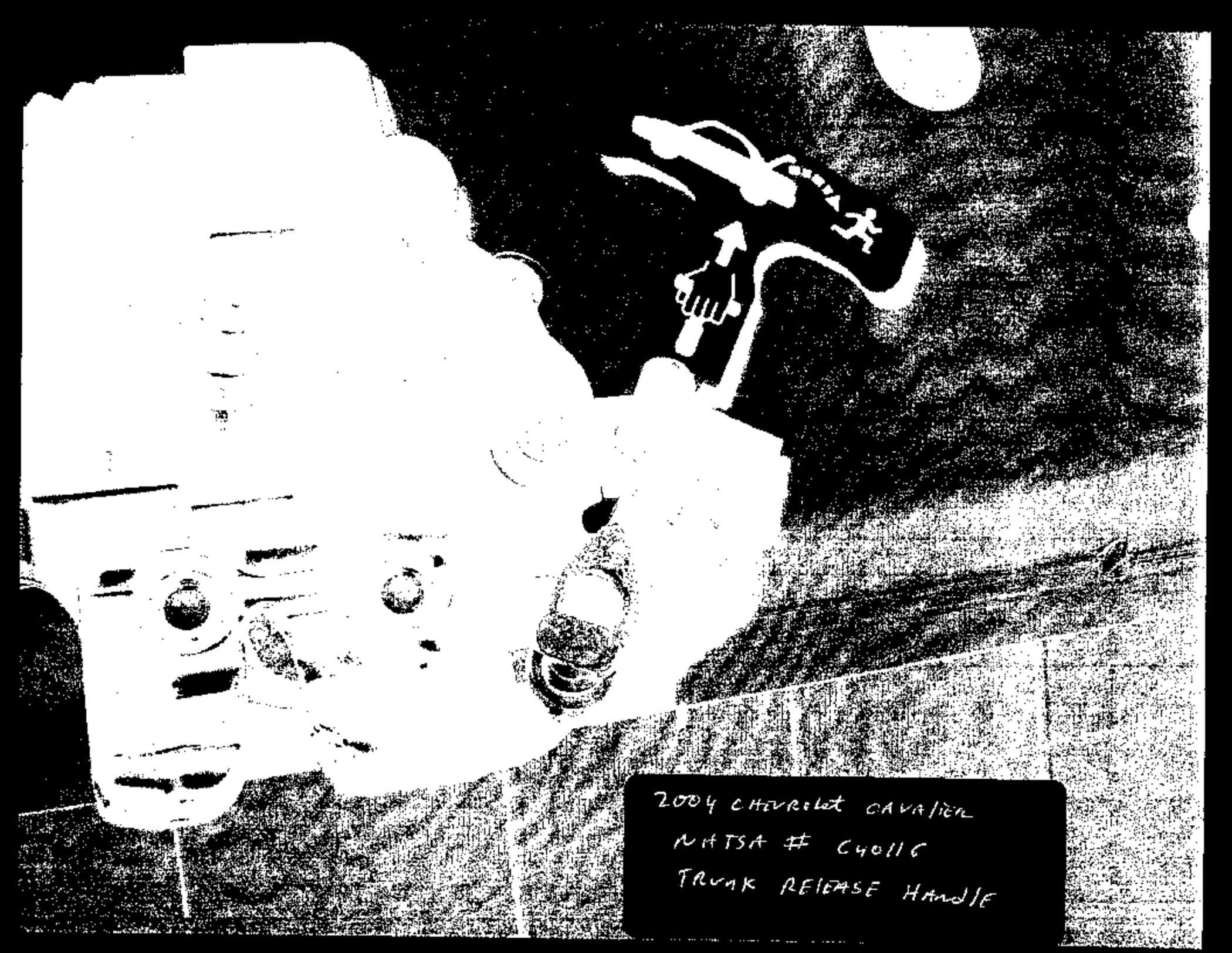
1G1JH14F947239456

TYPE: PASS CAR

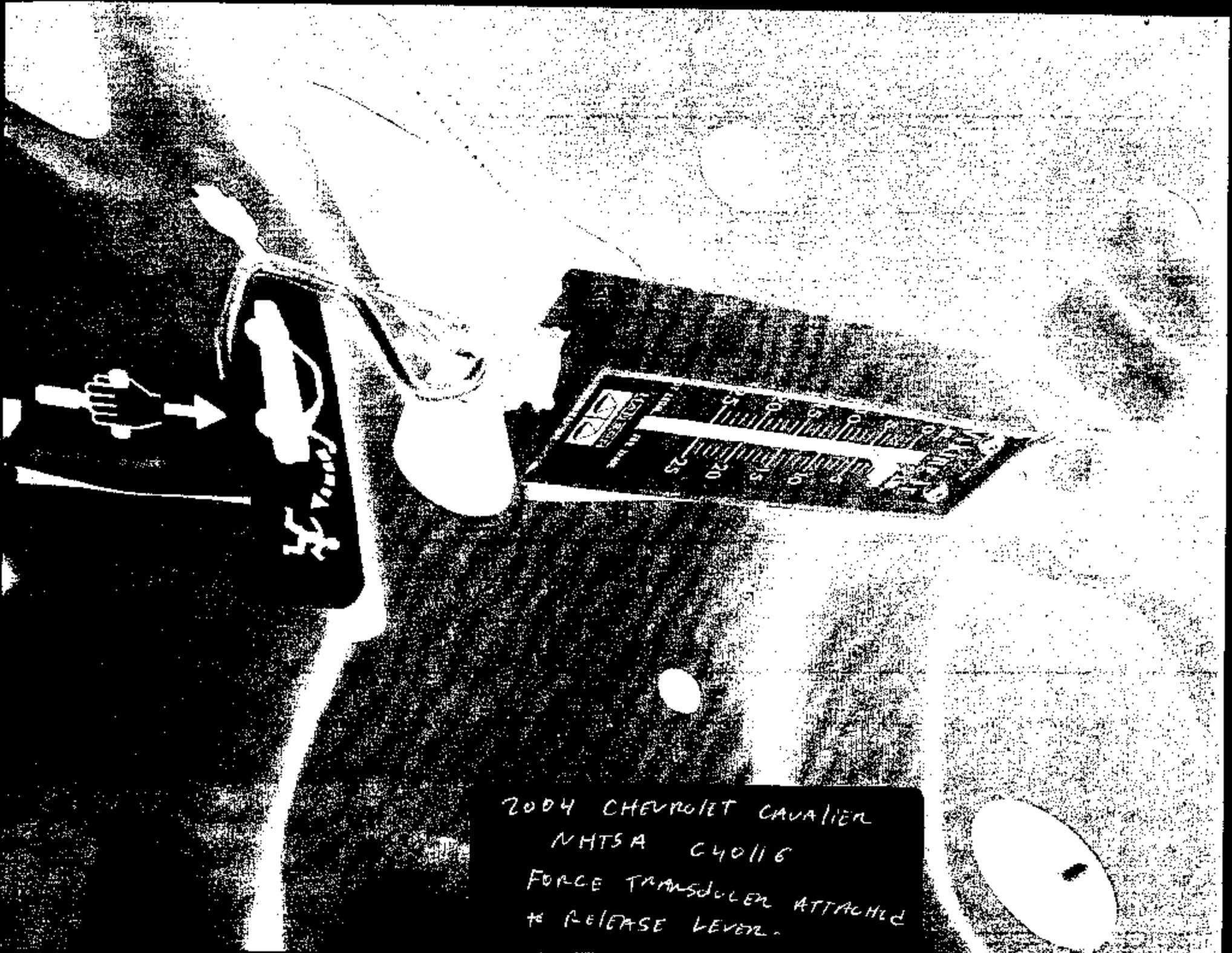
2004 CHEVROLET CAVALIER

NHTSA # C40116

VEHICLE CERTIFICATION LABEL



2004 CHEVROLET CAVALIER
NHTSA # C40116
TRUNK RELEASE HANDLE



2004 CHEVROLET CAVALIER
NHTSA C40116
FORCE TRANSDUCER ATTACHED
* RELEASE LEVER.

6.0 Vehicle Owner's Manual (applicable pages)

Notice: Using the emergency trunk release as a tie-down or anchor point when securing items in the trunk may damage it. Use the emergency trunk release handle only to open the trunk lid.



Always use proper tie-down technique to secure items in the trunk. For more information, see the tie-down section of the Owner's Manual.