

FINAL REPORT NUMBER 401-NSA-04-003

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

**2004 Chevrolet Monte Carlo 2-Door
NHTSA No. C40117**

**Prepared by:
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March 30, 2004

FINAL REPORT

PREPARED FOR:


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ENFORCEMENT
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Date:

3/30/04

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16. Abstract A compliance test was conducted on the subject 2004 Chevrolet Monte Carlo 2-Door, NHTSA No. C40117, 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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1.0 PURPOSE OF COMPLIANCE TEST

The purpose of this compliance test was to determine whether the subject vehicle, a 2004 Chevrolet Monte Carlo 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 Monte Carlo 2-Door, NHTSA No. C40117 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 6.8 newtons (1.5 lbs.) or less.

3.0 COMPLIANCE TEST DATA**DATA SHEET 1****FMVSS 401 - VEHICLE DESCRIPTION**VEHICLE MY/MAKE/MODEL 2004/CHEVROLET / MONTE CARLOBODY STYLE: 2-DOORVEH. NHTSA NO.: C40117 ; VIN: 2G1WZ151549338599DATE OF TEST: 03/10/04TEST LAB: BY OVSC @ DEALERGVWR: 2042 KGMANUFACTURED DATE: 02/04TRUNK 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: SSe 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/MONTE CARLO/2-DOOR

VEH. NHTSA NO.: C40117 ; VIN: 2G1WZ151549338599

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	4.5 N - 1.0 pounds	Yes	pass
Attempt 3	4.5 N - 1.0 pounds	Yes	pass
Average -	5.3N - 1.2 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

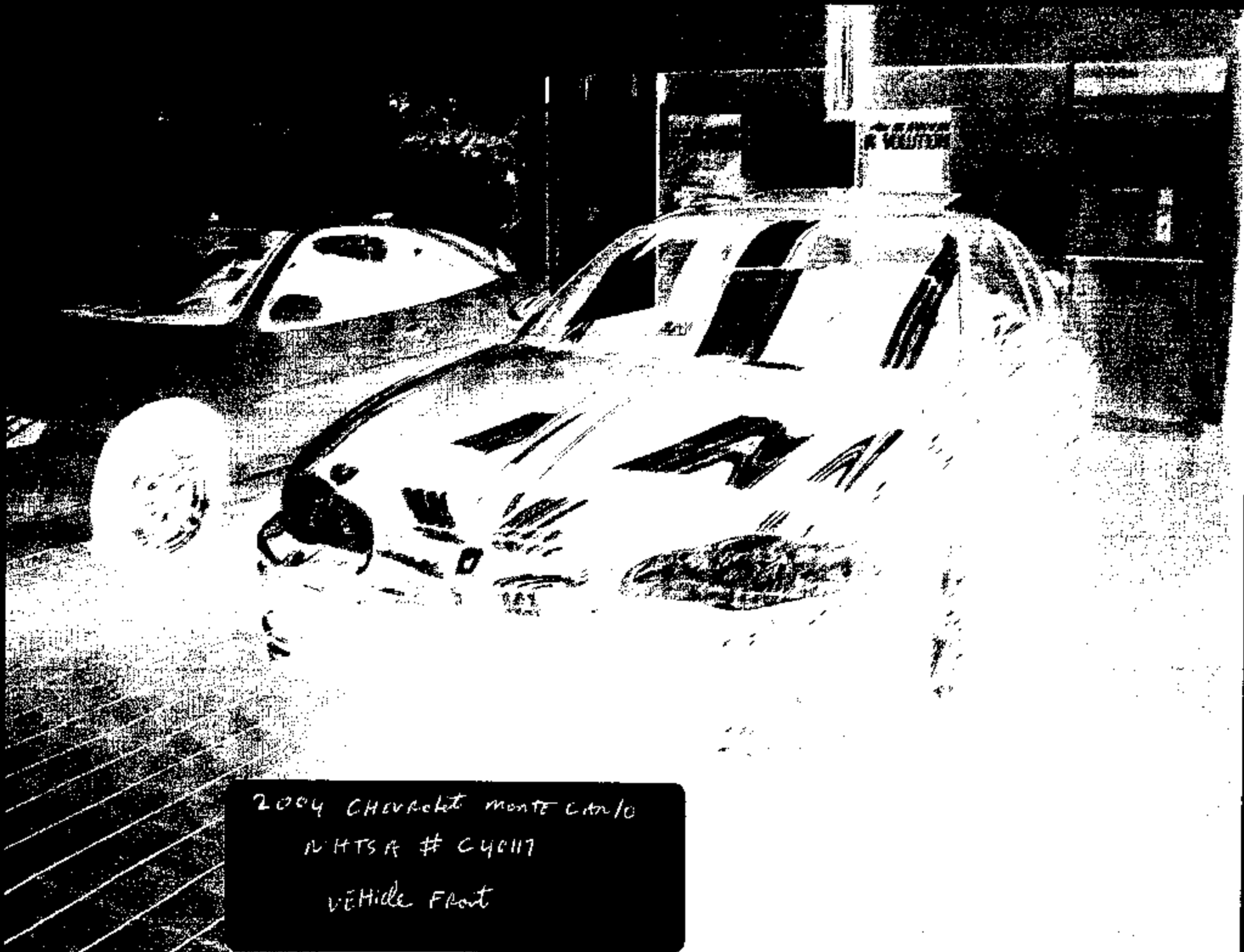
	PASS	FAIL	COMMENTS
Automatic or Manual release mechanism inside the trunk compartment. S4.1	X		Manual release lever handle
If manual release, lighting feature is included. S4.2(a)	X		Self Lighting
If automatic release, unlatches trunk lid within 5 minutes. S4.2(b)	na		
Except as provided by S4.3(b), 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: SSa 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

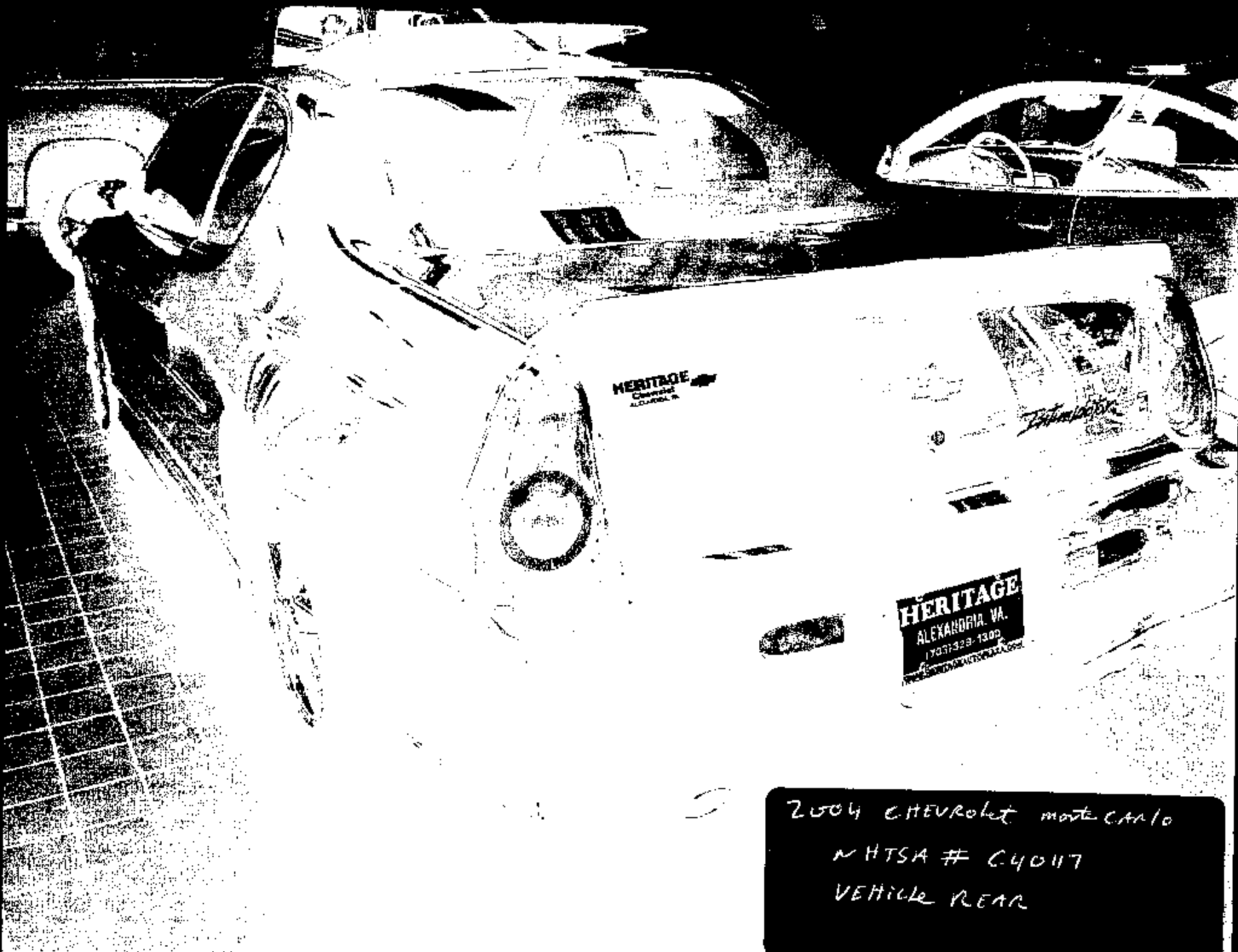
5.0 - Photographs



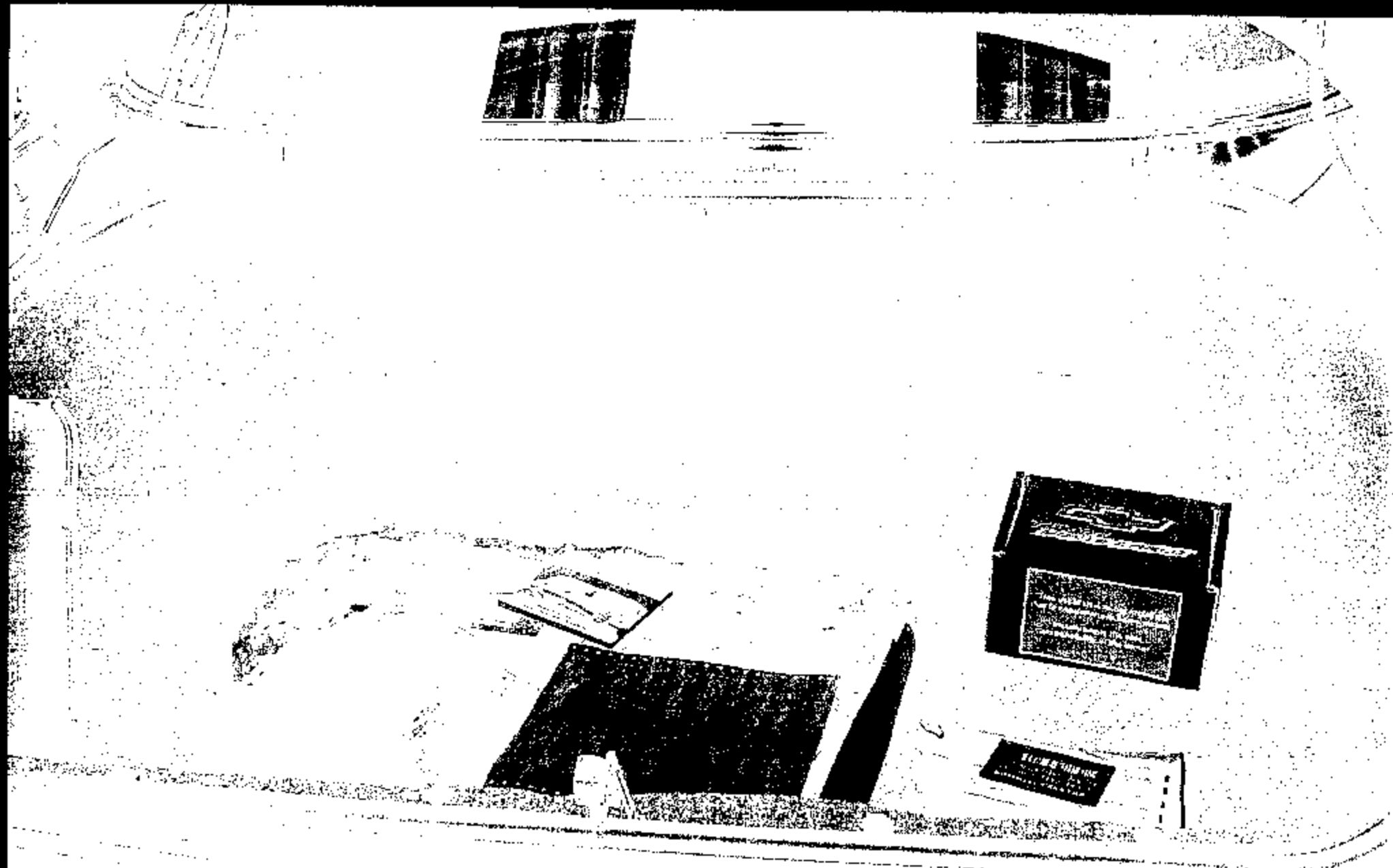
2004 CHEVROLET MONTE CARLO

NHTSA # C40117

VEHICLE FRONT



2004 CHEVROLET MONTE CARLO
NHTSA # C40117
VEHICLE REAR



2004 CHEVROLET MONTE CARLO
NHTSA # C40117
TRUNK OPEN



MFD BY GENERAL MOTORS OF CANADA LTD.

DATE
02/04

GVWR
2042 KG
4502 LB

GVWR RT
1135 KG
2502 LB

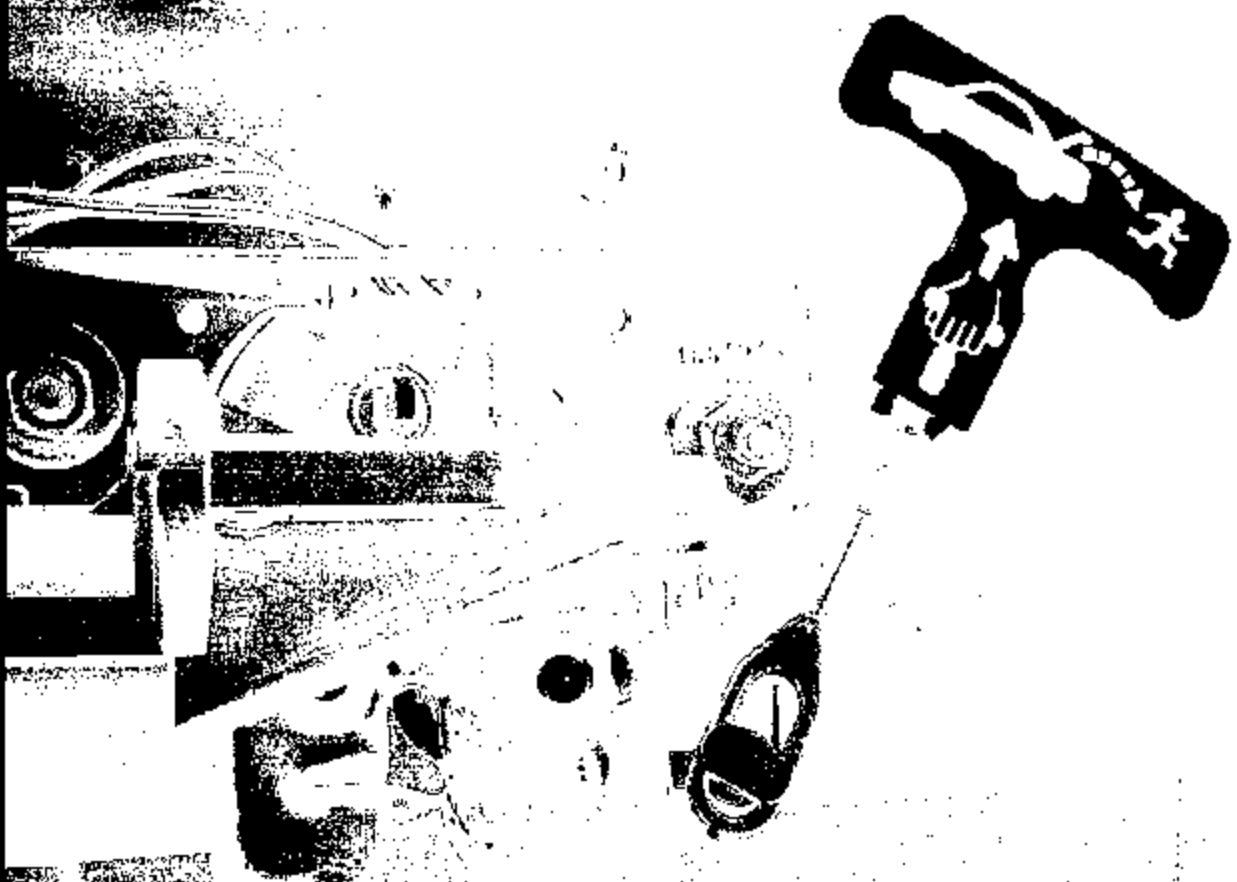
GVWR LT
907 KG
2000 LB

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.

2G1WZ151549338599

TYPE: PASSENGER

2004 CHEVROLET Monte Carlo
NHTSA # C40117
VEHICLE CERTIFICATION LABEL



2004 CHEVROLET MONTE CARLO
NHTSA # C40117
TRUNK RELEASE HANDLE

6.0 Vehicle Owner's Manual (applicable pages)

CAUTION:

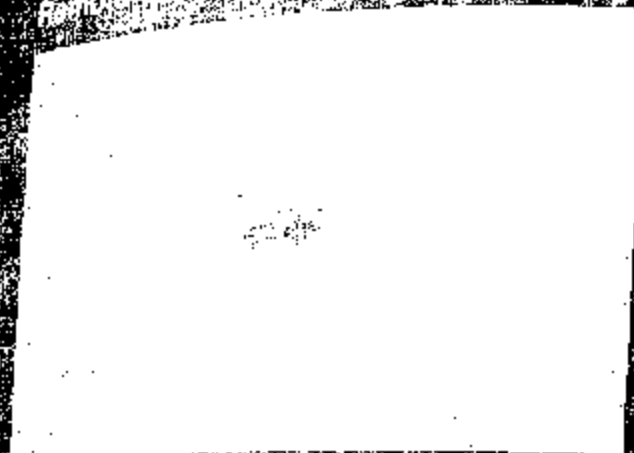
It is dangerous to drive with the trunk lid open because carbon monoxide (CO) gas can enter your vehicle. You can not see or smell CO. It can cause unconsciousness and death. If you must drive with the trunk lid open, if electrical wiring or other cables or hoses must pass through the seal between the body and the trunk lid,

be sure all other windows are shut and the fan on your heating or cooling system to its highest speed and select a fan setting that will force outside air into your vehicle. See Climate Control in the index.

If you have air outlets on or under the trunk lid, open them all the way.

Exhaust on page 2-28.

Emergency Trunk Release Handle



Press the emergency trunk release handle located on the lower left corner of the instrument panel to release the trunk lid. The handle is marked with a keyless entry symbol. Pressing the handle will cause the trunk lid to pop open. The trunk lid will open only if the vehicle is parked and the parking brake is applied. The trunk lid will not open if the vehicle is in motion or if the parking brake is not applied. The trunk lid will not open if the vehicle is in motion or if the parking brake is not applied.

Emergency Trunk Release Handle



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

There is a glow-in-the-dark emergency trunk release handle located on the inside of the trunk lid of your vehicle. This handle will glow following exposure to light. Pull the release handle up to open the trunk from the inside.