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NHTSA # 6-36640

FINAL REPORT NUMBER 401-NSA-03-003

SAFETY COMPLIANCE TESTING FOR FMVSS 401 Interior Trunk Release

2003 Ford Crown Victoria 4-Door NHTSA No. C30204

Prepared by:
NHTSA
OFFICE OF VEHICLE SAFETY COMPLIANCE
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July 31, 2003

FINAL REPORT

PREPARED FOR:

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Prepared By: _____
Stuart Seigel, Safety Compliance Engineer

Accepted By: _____
Stuart Seigel

Date: 7/31/03

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16. Abstract A compliance test was conducted on the subject 2003 Ford Crown Victoria 4-Door, NHTSA No. C30204 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 Karco Testing Laboratories in Adelanto, California by NHTSA personnel on July 16, 2003. 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 2003 Ford Crown Victoria 4-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 Karco Testing Laboratories in Adelanto, California on July 16, 2003 by a NHTSA Office of Safety Compliance test engineer.

2.0 TEST PROCEDURE AND DISCUSSION OF RESULTS

Based on the test performed, the 2003 Ford Crown Victoria 4-Door, NHTSA No. C30204 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 9 newtons (2 lbs.) or less.

3.0 COMPLIANCE TEST DATA

DATA SHEET 1

FMVSS 401 - VEHICLE DESCRIPTION

VEHICLE MY/MAKE/MODEL 2003/FORD /CROWN VICTORIA

BODY STYLE: 4-DOOR

VEH. NHTSA NO.: C30204 ; VIN: 2FAFP73W33X180682

DATE OF TEST: 07/16/03 TEST LAB: BY OVSC @ KARCO

GVWR: 2632 KG MANUFACTURED DATE: 1/03

TRUNK LOCATION: REAR X FRONT

If Front, Front Opening? na

NUMBER OF TRUNK LID LATCHING POSITIONS: 1

INTERIOR TRUNK RELEASE: MANUAL X ; AUTOMATIC ;

BOTH

POWER OPERATED CLOSURE: na

OWNER'S MANUAL DESCRIPTION OF TRUNK RELEASE: YES X

NO

REMOVABLE EQUIPMENT DELIVERED IN TRUNK:

SPARE TIRE: X (SIZE) T145/80D16105M

TIRE JACK: X

LUG WRENCH: X

TOOL BOX: - (SIZE) -

PARTITIONS: -

OTHER: -

REMARKS:

RECORDED BY: SSe DATE: 7/16/03

APPROVED BY: S. Seigel

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: 2003/FORD/ CROWN VIC./4-DR

VEH. NHTSA NO.: C30204 ; VIN: 2FAFP73W33X180682

DATE OF TEST: 7/16/03

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 ___ No X

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 All latching positions	Pass/Fail
Attempt 1	9 N - 2 pounds	Yes	pass
Attempt 2	8 N - 1.8 pounds	Yes	pass
Attempt 3	9 N - 2 pounds	Yes	pass
Average -	8.6N - 1.9 pounds		

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 All 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 **All** latching positions	Pass/Fail
10			
20			
30			

Describe method used to propel vehicle:_____

PASS __X__ FAIL_____ REMARKS:

RECORDED BY: SSe DATE: 7/16/03

APPROVED BY: S. Seigel

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

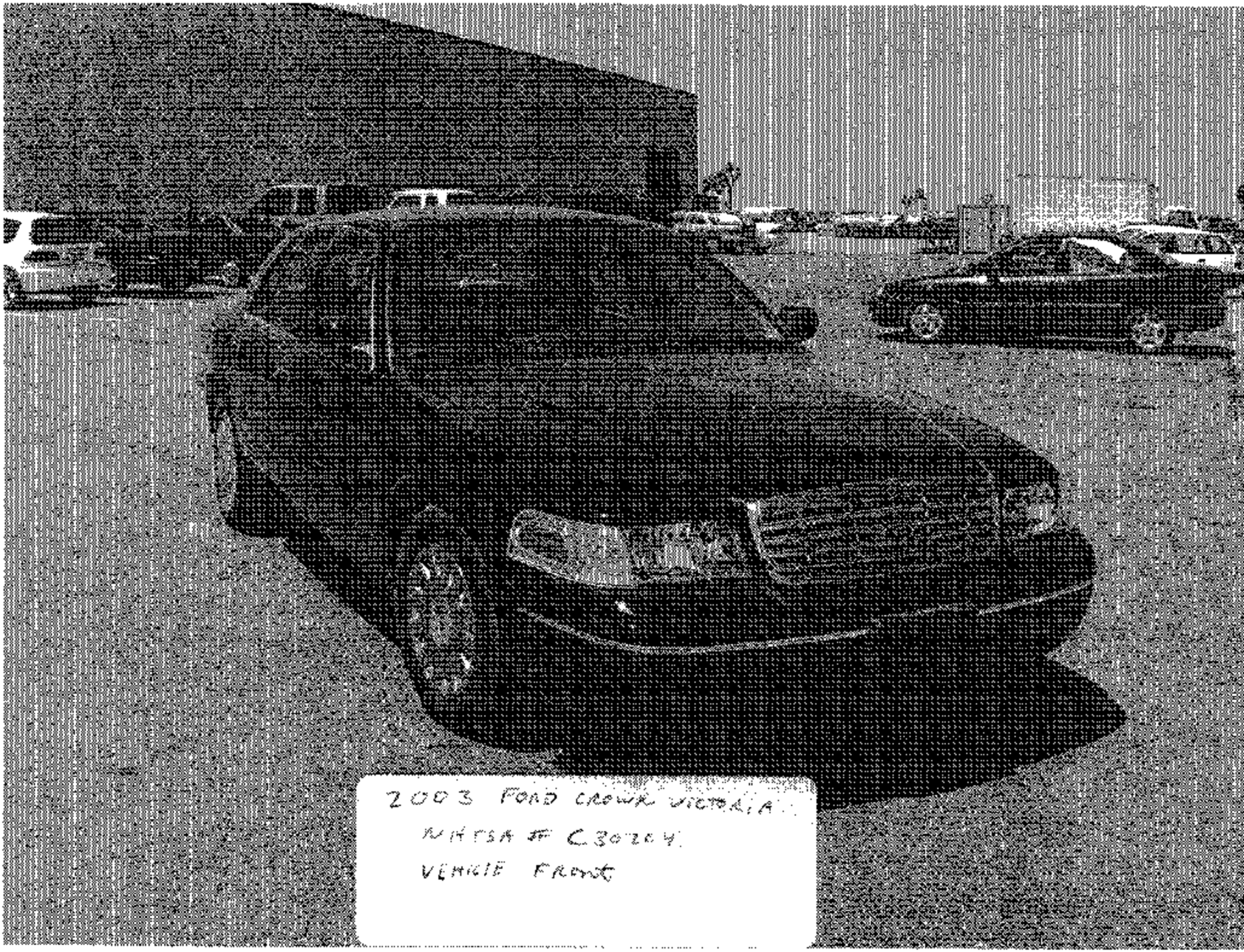
APPROVED BY: S.Seigel

DATE: 7/16/03

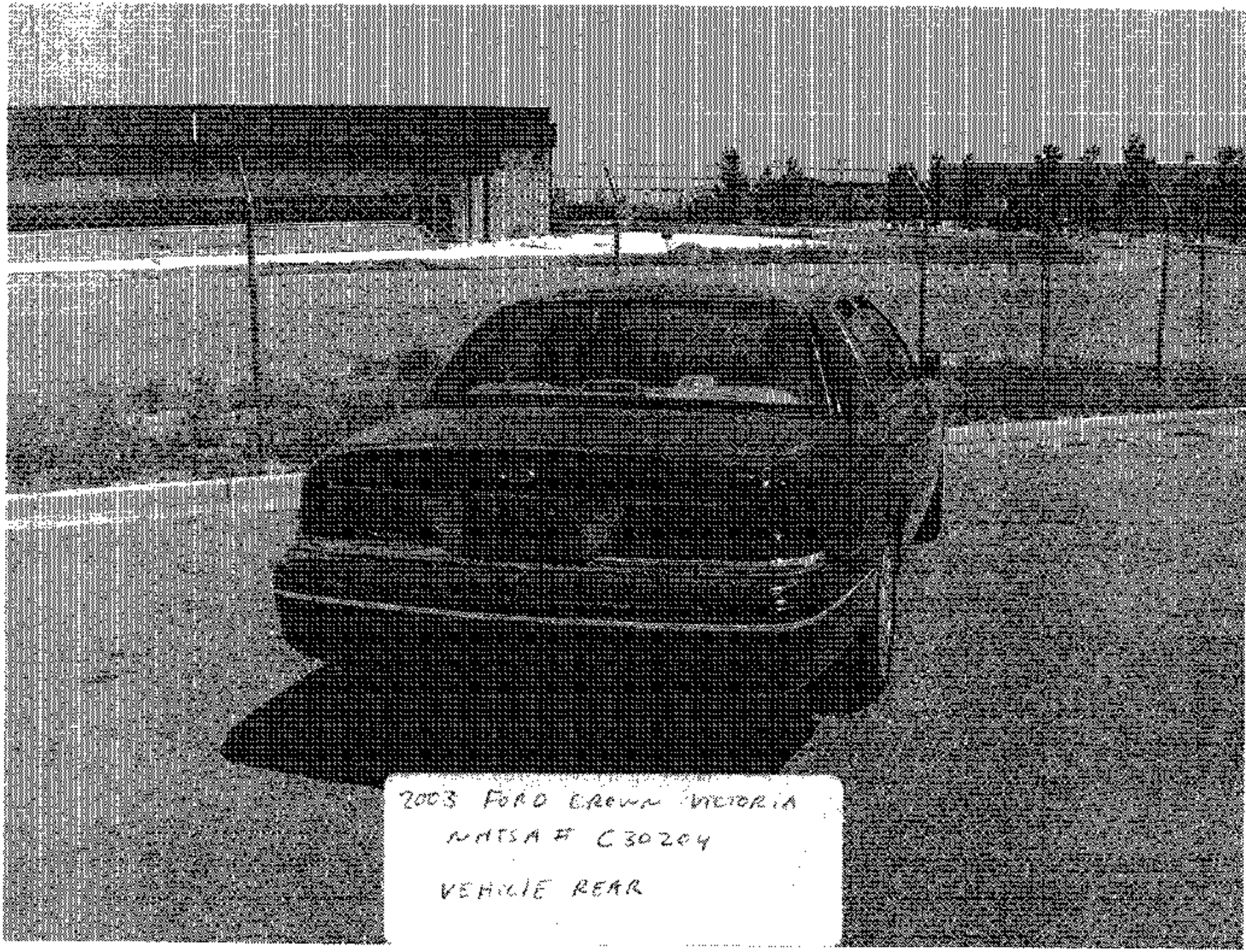
4.0 - Test Equipment List and Calibration Information

EQUIPMENT	DESCRIPTION	MODEL/SERIAL NO.	CALIBRATION DATE	NEXT CAL. DATE
Force Transducer	Jonard Tools	Part #GPP-72	Manufacturer	Manufacturer

5.0 - Photographs



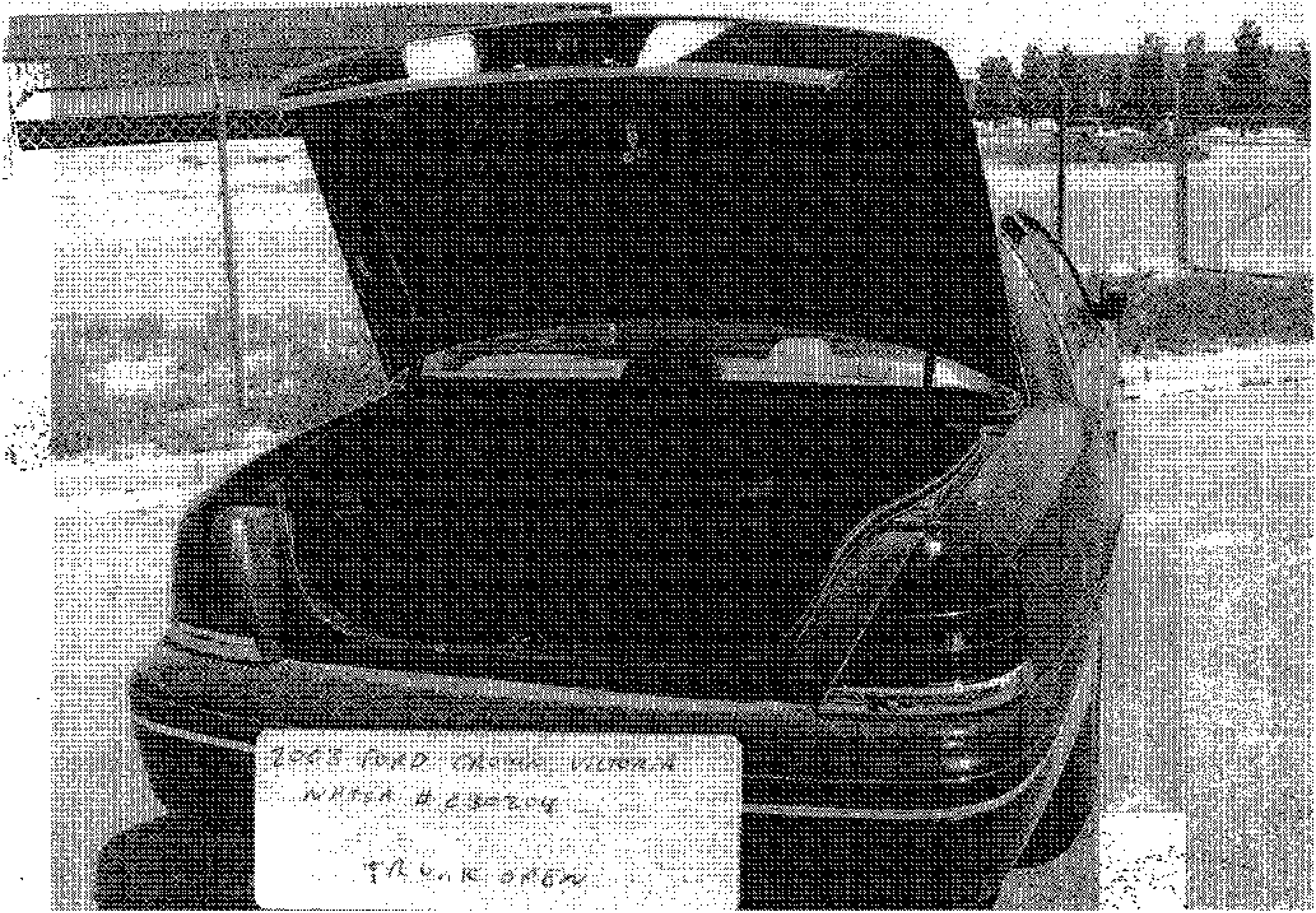
2003 FORD CROWN VICTORIA
NHTSA # C30204
VEHICLE FRONT

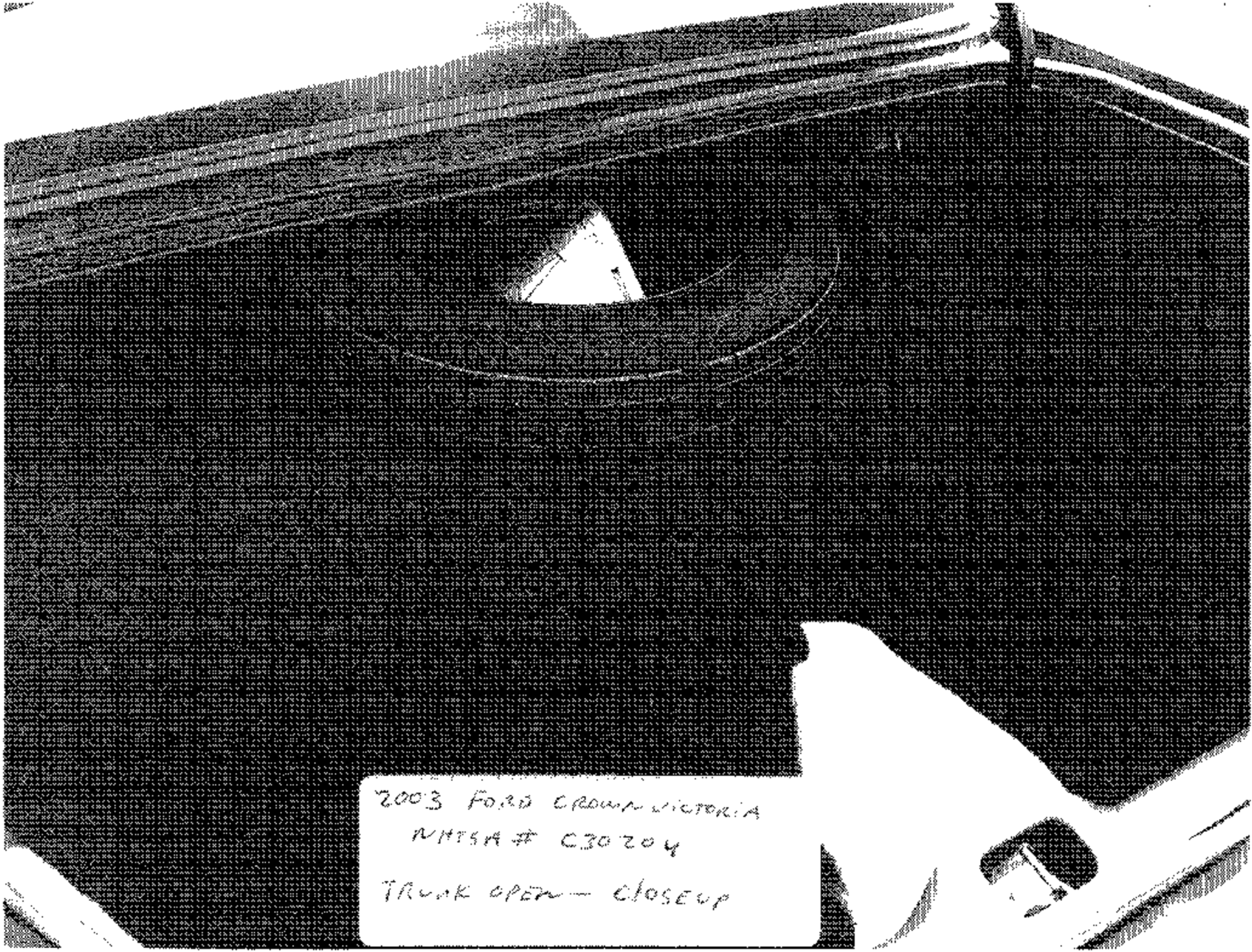


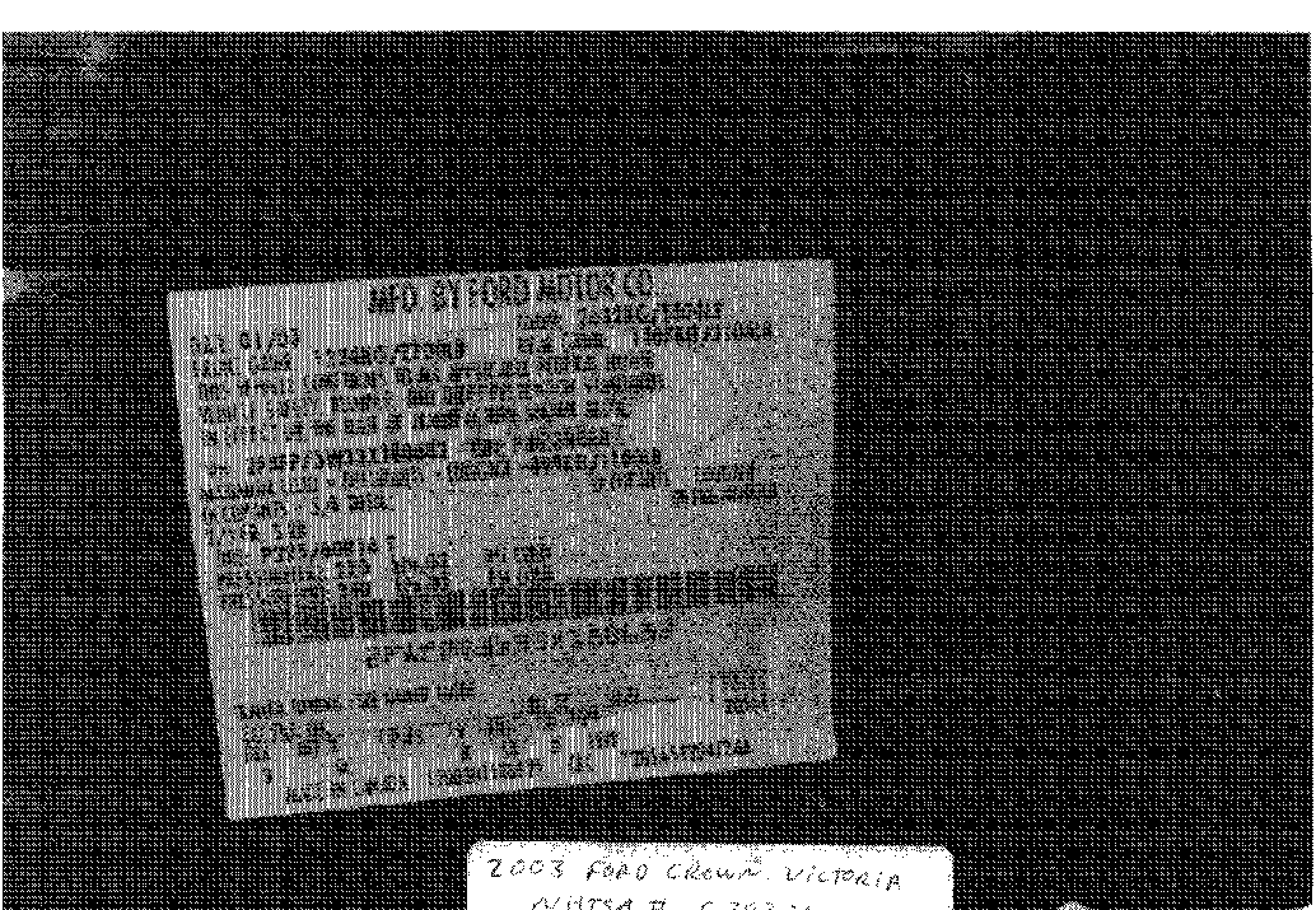
2003 FORD CROWN VICTORIA

NHTSA # C30204

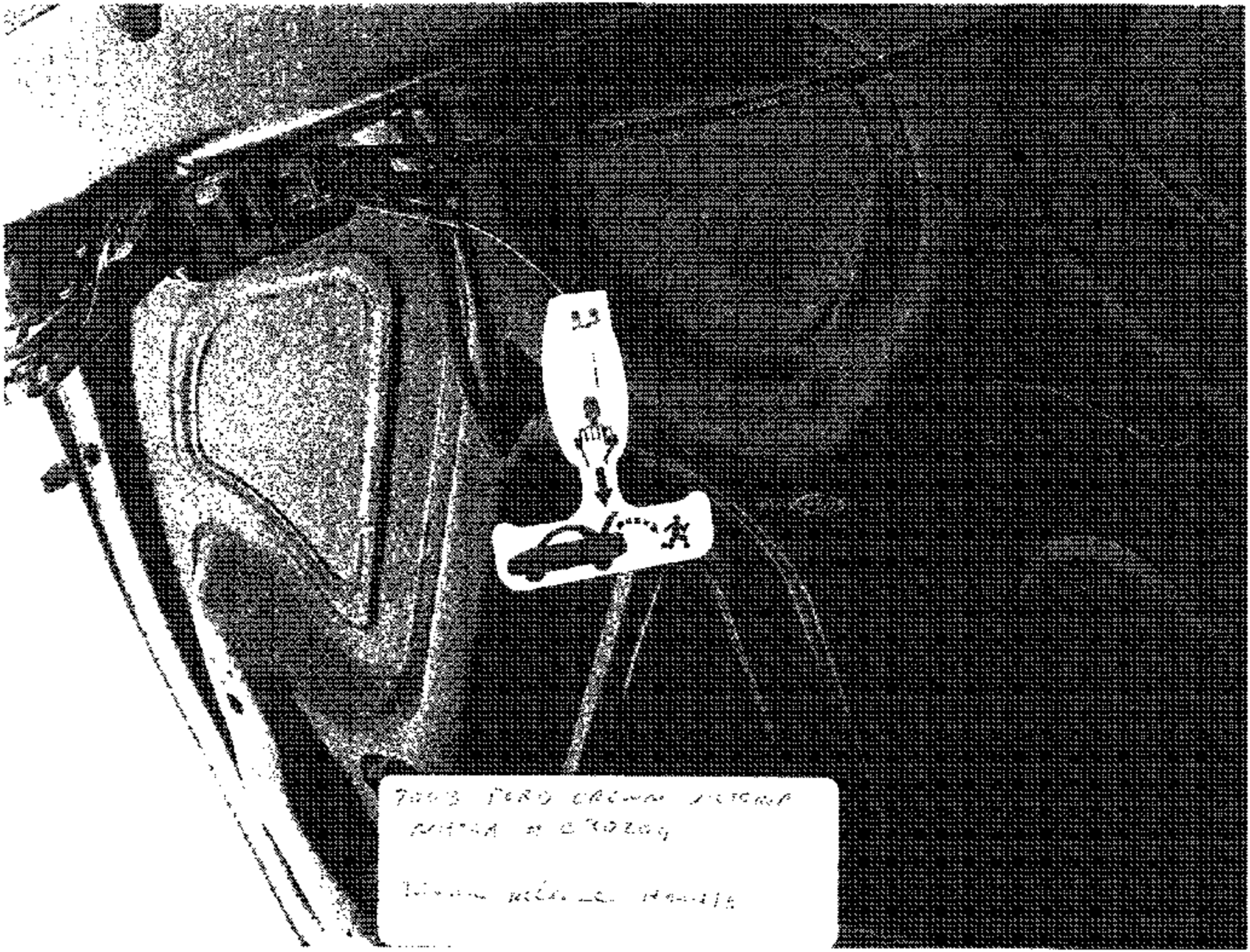
VEHICLE REAR

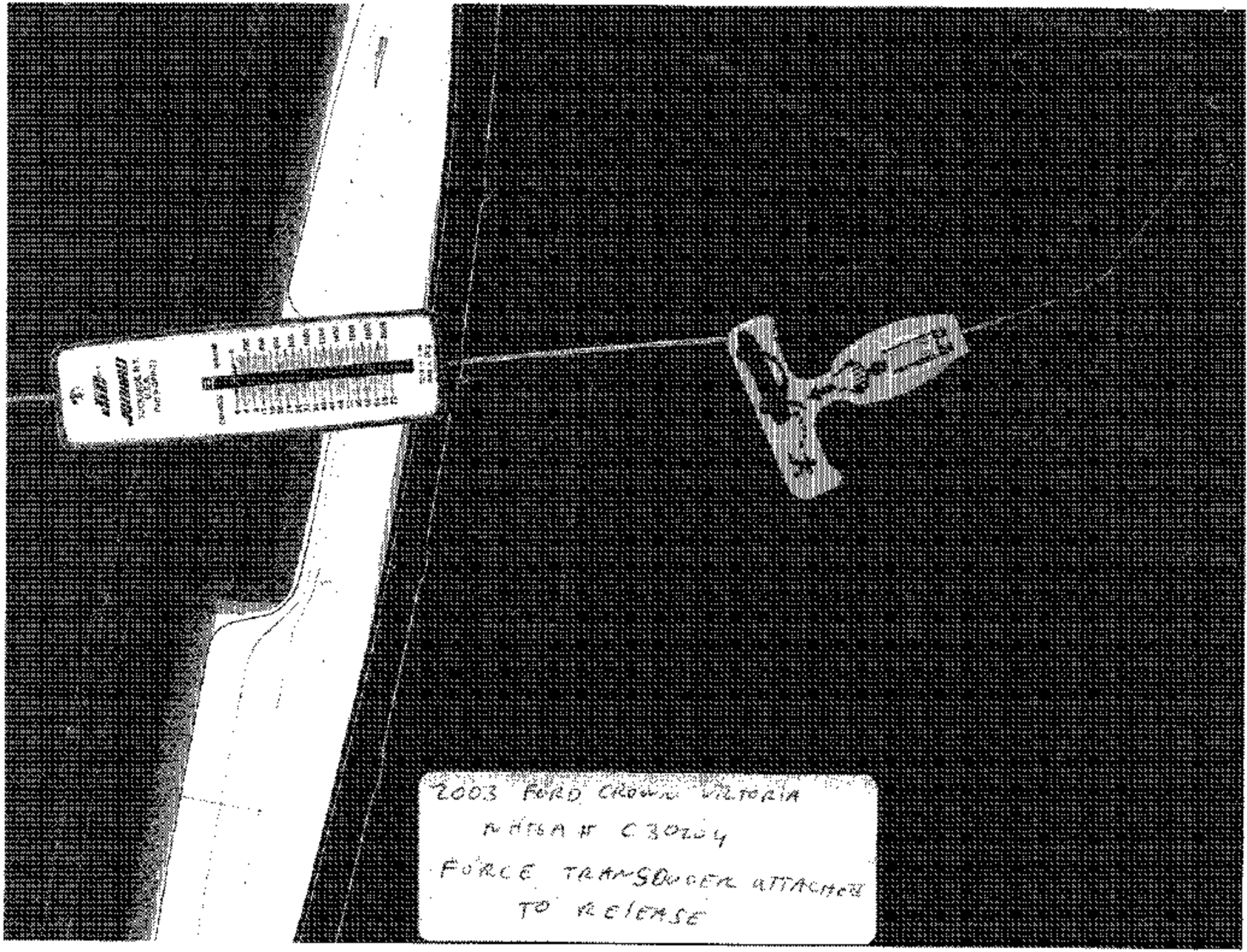

FORD
TRUNK OPEN


2003 FORD CROWN VICTORIA
NHTSA # C30204
TRUNK OPEN — CLOSEUP



2003 FORD CROWN VICTORIA
NHTSA # C30204
VEHICLE CERTIFICATION LABEL




2003 FORD CROWN VICTORIA
REAR C BODY
FORCE TRANSDUCER ATTACHED
TO RELEASE

6.0 Vehicle Owner's Manual (applicable pages)

door ... inside. The rear doors can be opened from the outside when the doors are unlocked.

The childproof locks are located on rear edge of each rear door and must be set separately for each door. Setting the lock for one door will not automatically set the lock for both doors.

Move lock control up to engage the childproof lock. Move control down to disengage childproof locks.

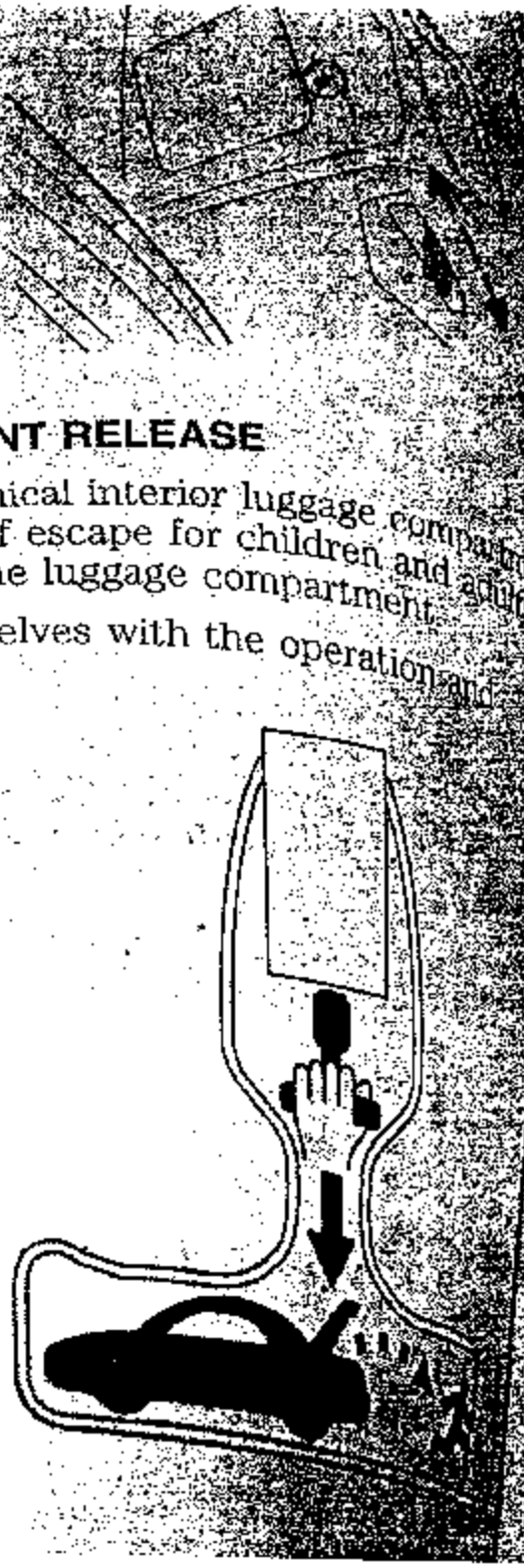
INTERIOR LUGGAGE COMPARTMENT RELEASE

Your vehicle is equipped with a mechanical interior luggage compartment release handle that provides a means of escape for children and adults in the event they become locked inside the luggage compartment.

Adults are advised to familiarize themselves with the operation and location of the release handle.

To open the luggage compartment door (lid) from within the luggage compartment, pull the illuminated "T" shaped handle and push up on the trunk lid. The handle is composed of a material that will glow for hours in darkness following brief exposure to ambient light.

The "T" shaped handle will be located either on the luggage compartment door (lid) or inside the luggage compartment near the tail lamps.



REMOTE ENTRY SYSTEM (IF

This device complies with part 15 Industry Canada. Operation is sub (1) This device may not cause ha must accept any interference rec cause undesired operation.

Changes or modifications not responsible for compliance co operate the equipment.

The remote entry system allows y without a key.

The remote entry features operate except in RUN, with the transmiss (Neutral).

If there is any potential remote ke ensure **ALL remote entry transm** to aid in troubleshooting.