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FINAL REPORT NUMBER
401-NVS-05-012

SAFETY COMPLIANCE TESTING FOR FMVSS 401 Interior Trunk Release

2005 Volkswagen Phaeton

NHTSA No. C55804

Prepared by:
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1/27/2005

FINAL REPORT

PREPARED FOR:

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Eduardo Maximo Avilles, Safety Compliance Engineer

Accepted By: _____
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15. Supplementary Notes

16. Abstract

A compliance test was conducted on the subject 2005 Volkswagen Phaeton, NHTSA No. C55804 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 by NHTSA Office of Vehicle Safety Compliance test engineers on 1/27/200

Test Location:
Volkswagen Dealer in Rockville, MD
Test failures 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 2005 Volkswagen Phaeton , 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 by NHTSA Office of Vehicle Safety Compliance test engineers on 1/27/2005 .

Test Location:
Volkswagen Dealer in Rockville, MD

2.0 TEST PROCEDURE AND DISCUSSION OF RESULTS

Based on the test performed, the Vehicle: 2005 Volkswagen Phaeton, NHTSA No. C55804 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 9.8 newtons (2.2lbs.) or less.

3.0 COMPLIANCE TEST DATA

DATA SHEET 1
FMVSS 401 - VEHICLE DESCRIPTION

VEHICLE MY/MAKE/MODEL/BODY STYLE: 2005 Volkswagen Phaeton
VEH. NHTSA NO.: C55804 ; VIN: WVWAF93D058000238

DATE OF TEST: 1/27/2005 TEST LAB: BY OVSC @ DEALER

GVWR: 2813 KG MANUFACTURED DATE: 05/04

TRUNK LOCATION: (•) REAR ( ) FRONT
If Front, Front Opening?
NUMBER OF TRUNK LID LATCHING POSITIONS: 1

INTERIOR TRUNK RELEASE: ( ) MANUAL (•) AUTOMATIC ( ) BOTH

POWER OPERATED CLOSURE: Yes
OWNER'S MANUAL DESCRIPTION OF TRUNK RELEASE: (•) YES ( ) NO

REMOVABLE EQUIPMENT DELIVERED IN TRUNK:

SPARE TIRE:	☑	(SIZE) P255/45R18
TIRE JACK:	☑	
LUG WRENCH:	☑	
TOOL BOX:	☐	(SIZE)
PARTITIONS:		
OTHER:		

REMARKS:

RECORDED BY: Eduardo Maximo Aviles DATE: 1/27/2005

APPROVED BY: Eduardo Maximo Aviles

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: 2005 Volkswagen Phaeton
VEH. NHTSA NO.: C55804 ; **VIN:** WVWAF93D058000238
DATE OF TEST: 1/27/2005
Method used to actuate interior trunk release: Rotating Handle
Other:

Can test personnel enter trunk and be closed within: (•) Yes ( ) 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

Does Release Mechanism require electric power: (•) Yes ( ) No

Can release mechanism be easily seen inside the closed trunk: (•) Yes ( ) 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	9.8	(•) Yes ( ) No	(•) Pass ( ) Fail
Attempt 2	9.8	(•) Yes ( ) No	(•) Pass ( ) Fail
Attempt 3	9.8	(•) Yes ( ) No	(•) Pass ( ) Fail
Average -	9.8		

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 ☑ Not Applicable	Force Required to Release Trunk Lid (Newtons) [no requirement]	Trunk Released from All latching positions	Pass/Fail
Attempt 1		○ Yes ○ No	○ Pass ○ Fail
Attempt 2		○ Yes ○ No	○ Pass ○ Fail
Attempt 3		○ Yes ○ No	○ Pass ○ Fail
Average -			

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

Describe method used to propel vehicle:

_____

○ **Pass** ○ **Fail**

REMARKS:

_____

RECORDED BY: Eduardo Maximo Aviles **DATE:** 1/27/2005

APPROVED BY: Eduardo Maximo Aviles

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	◉	○	Automatic release.
If manual release, lighting feature is included. S4.2(a)	○	○	N/A
If automatic release, unlatches trunk lid within 5 minutes. S4.2(b)	◉	○	
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)	◉	○	
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)	○	○	N/A

◉ **Pass** ○ **Fail**

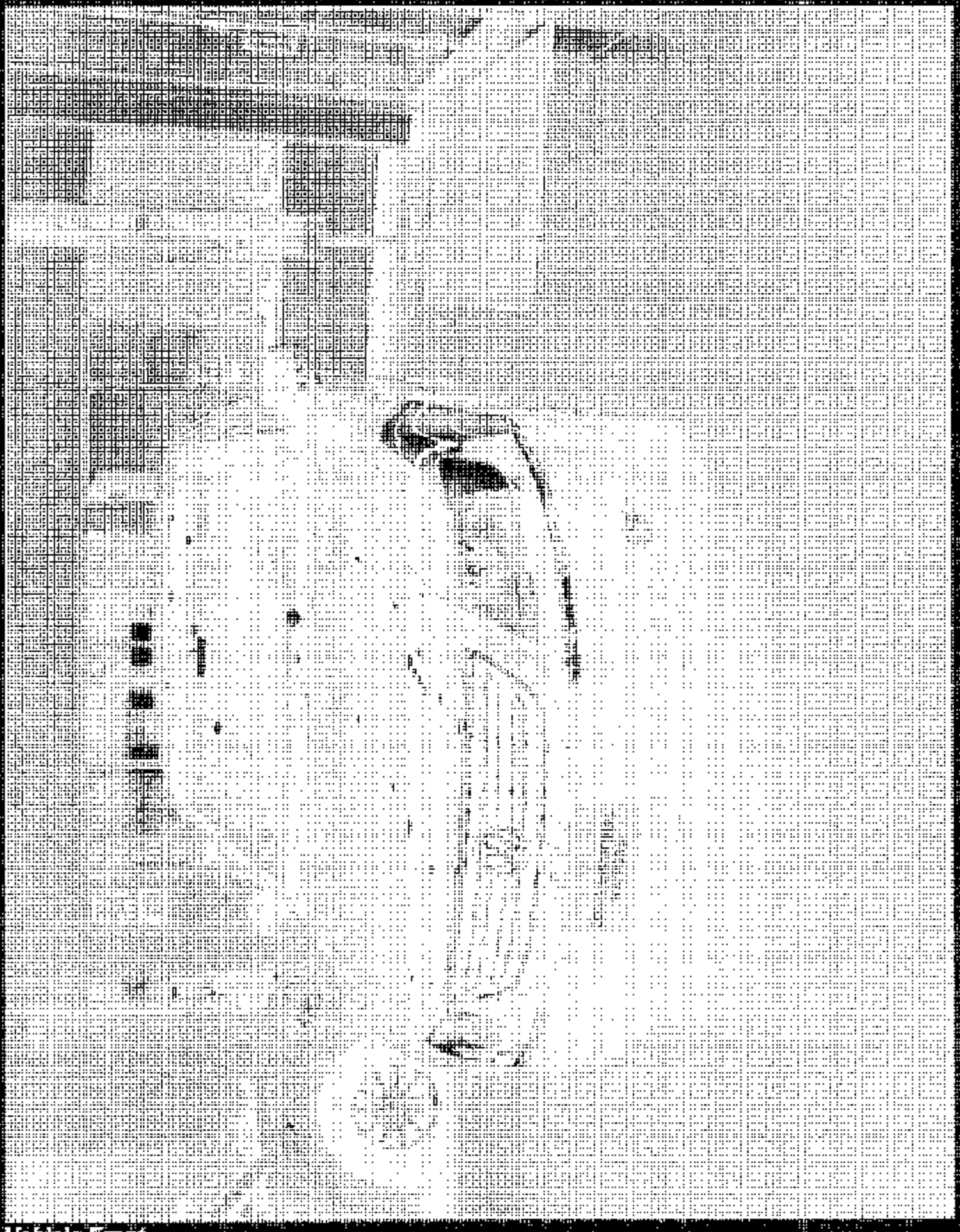
RECORDED BY: Eduardo Maximo Aviles **DATE:** 1/27/2005

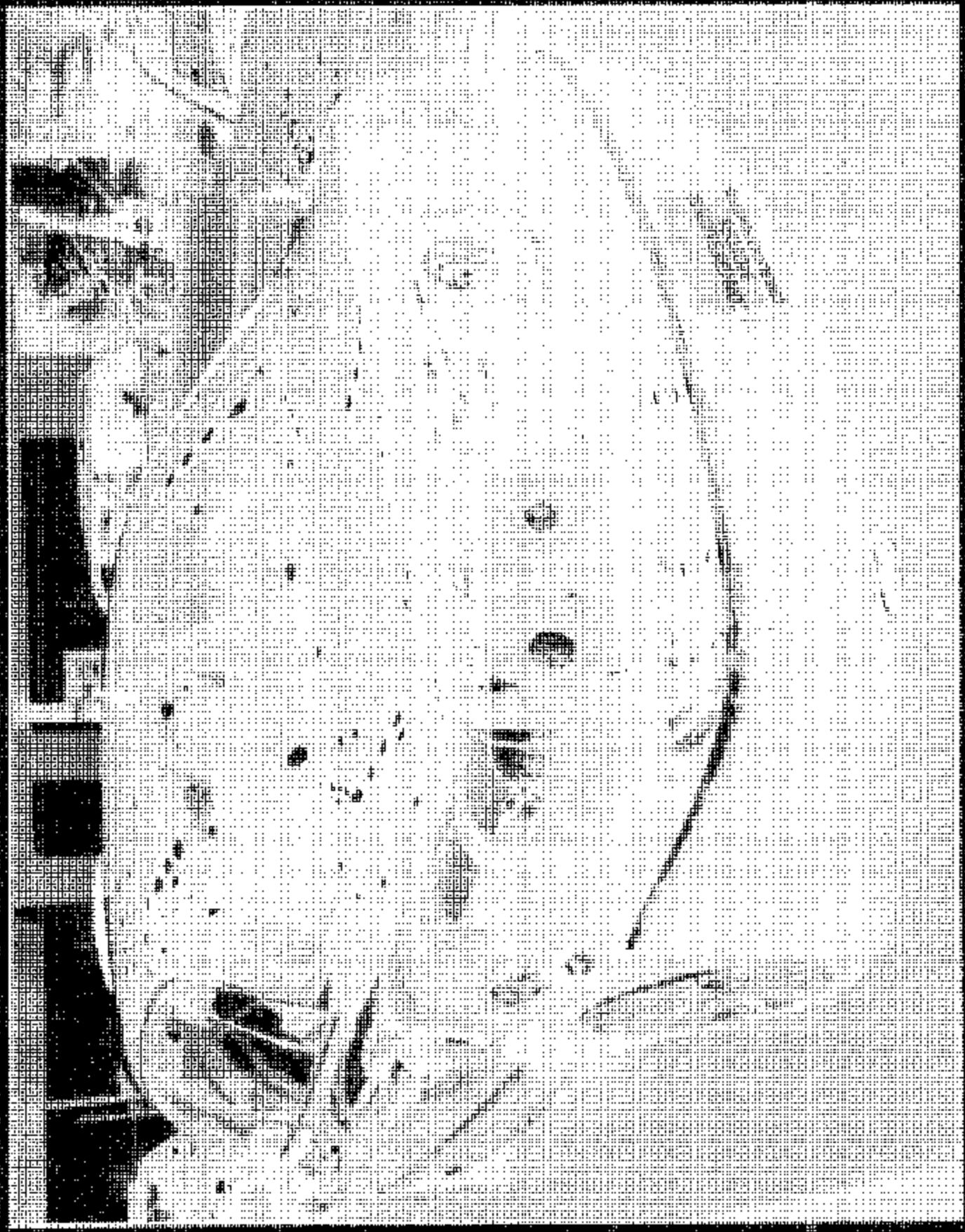
APPROVED BY: Eduardo Maximo Aviles

4.0 - Test Equipment List and Calibration Information

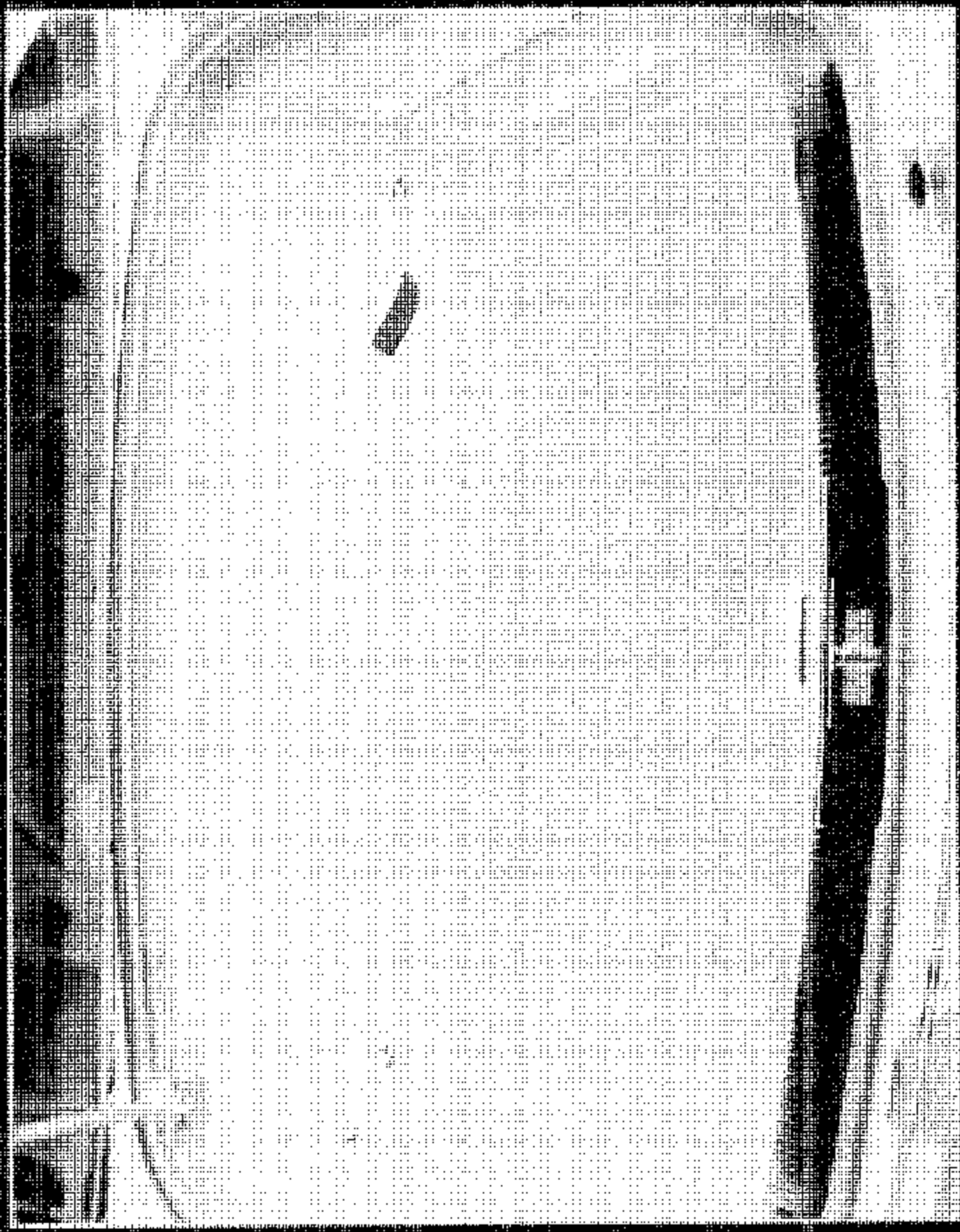
EQUIPMENT	DESCRIPTION	MODEL/SERIAL NO.	CALIBRATION DATE	NEXT CAL. DATE
Force Transducer	Shimpo Force Gauge	Model MF-50 KG	12/09/03	Manufacturer

5.0 - Photographs

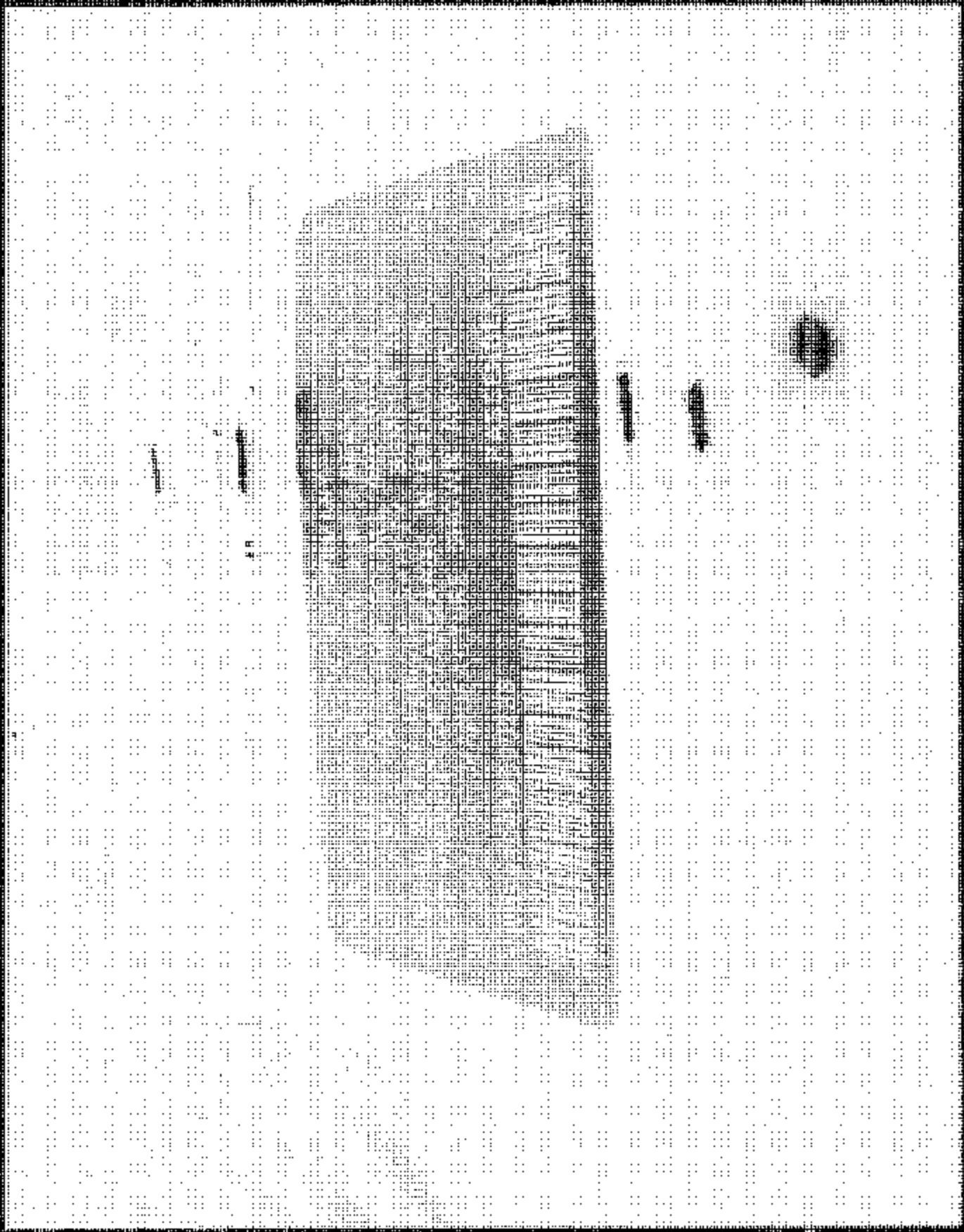

Vehicle Front



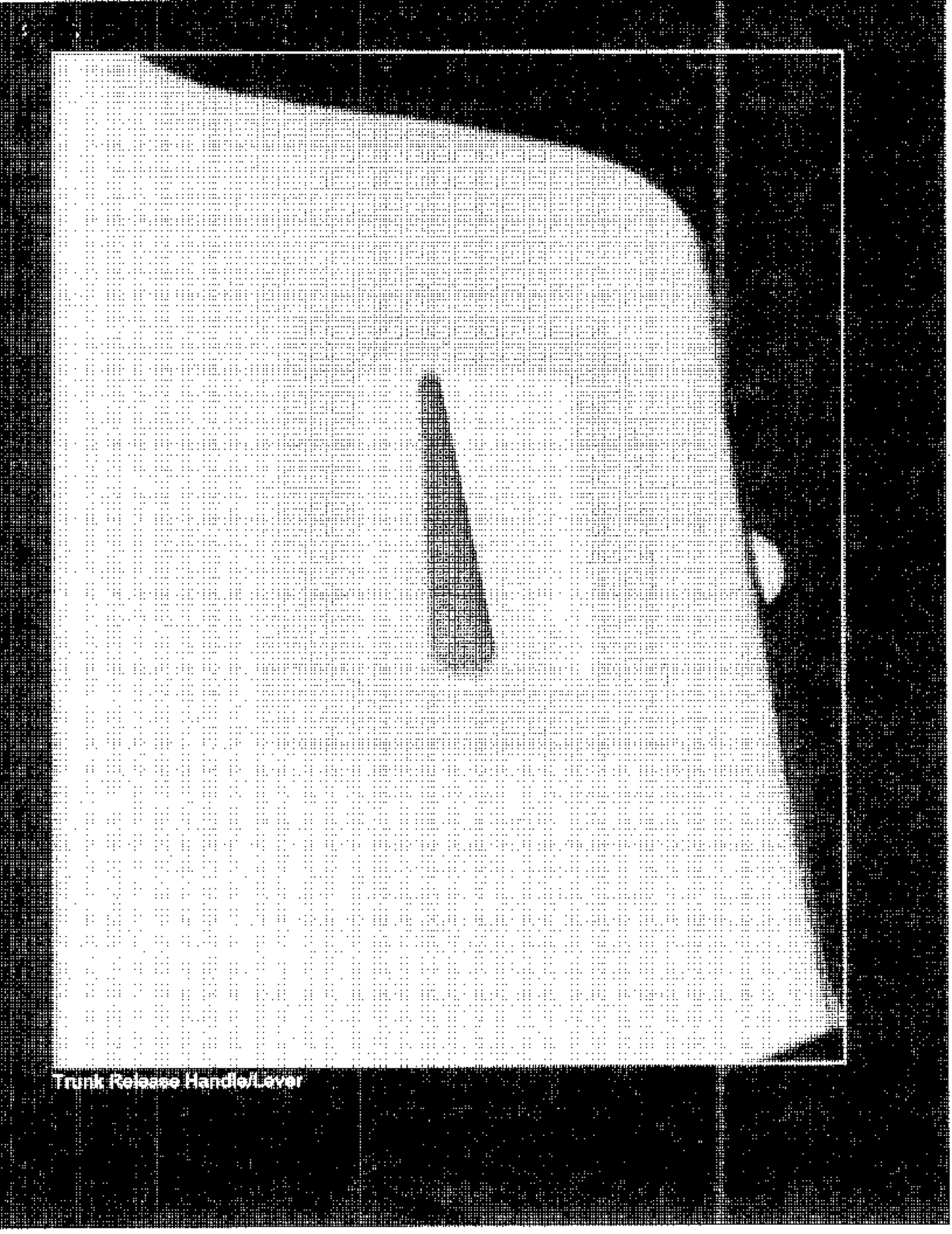
Vehicle Rear



Trunk Open



Certification Label



Trunk Release Handle/Lever

...cover for anyone getting in the way of the edges of the trunk lid or its hinges when the trunk lid is closing.

...proves be useful when closing the trunk ... person may still not always be able to ... serious injuries under all circum...

✓ ...

- Never interfere with the trunk lid when it is closing. Never try to stop it manually or try to press on the trunk lid while it is closing.
- Always be careful when closing the trunk lid. Pinch protection will not always be able to prevent serious injuries under all circumstances.
- Always read and heed all WARNINGS page 41, "Closing the trunk lid". ◀

...emergency opening lever for the trunk lid

...ergency the trunk lid can be opened from inside the luggage compart-

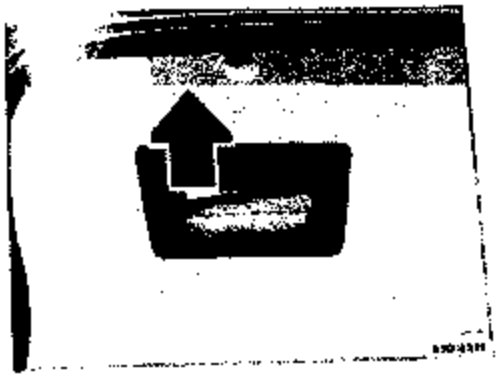


Fig. 28 ... luggage compartment lid, emergency release lever

Pull the lever in the direction of the ... Fig. 28 to open the trunk lid from the inside of the luggage compartment.

...up in the passenger compartment and luggage compartment of a parked vehicle can result in temperatures in the vehicle that are much higher than the outside temperatures, particularly in summer. Temperatures can quickly reach levels that can cause unconsciousness and death, particularly to small children. ◀

⚠ WARNING

A child or other person trapped in the luggage compartment of a vehicle can be seriously injured and even die.

- Never leave your vehicle unattended or let children play around your vehicle, especially with the trunk lid left open. A child could crawl into the vehicle through the luggage compartment and pull the lid shut becoming trapped and unable to get out. Being trapped in a vehicle can lead to serious personal injury, especially when it is very hot or cold.
- Never leave children, disabled persons or anyone who cannot help themselves in the vehicle. The doors can be locked using the remote control key or the power lock button. This could result in people being trapped in the vehicle.
- Heat build-up in the passenger compartment and luggage compartment of a parked vehicle can result in temperatures in the vehicle that are much higher than the outside temperatures, particularly in summer. Temperatures can quickly reach levels that can cause unconsciousness and death, particularly to small children. ◀