

REPORT NUMBER 216-GTL-04-001

SAFETY COMPLIANCE TESTING FOR FMVSS NO. 216 ROOF CRUSH RESISTANCE

HONDA OF AMERICA MFG., INC.
2004 HONDA ELEMENT, MPV
NHTSA NO. C45300

GENERAL TESTING LABORATORIES, INC.
1623 LEEDSTOWN ROAD
COLONIAL BEACH, VIRGINIA 22443



MAY 26, 2004

FINAL REPORT

PREPARED FOR

U. S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
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WASHINGTON, D.C. 20590

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16. Abstract Compliance tests were conducted on the subject, 2004 Honda Element MPV in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-216-05 for the determination of FMVSS 216 compliance. The mounting procedure deviates from Test Procedure No. TP-216-05. Test failures identified were as follows: NONE		
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SECTION 1

PURPOSE OF COMPLIANCE TEST

1.0 PURPOSE OF COMPLIANCE TEST

A 2004 Honda Element MPV was subjected to Federal Motor Vehicle Safety Standard (FMVSS) No. 216 testing to determine if the vehicle was in compliance with the requirements of the standard. The purpose of this standard is to reduce deaths and injuries due to the crushing of the roof into the occupant compartment in rollover crashes.

1.1 The test vehicle was a 2004 Honda Element MPV. Nomenclature applicable to the test vehicle are:

A. Vehicle Identification Number: 5J6YH28254L000085

B. NHTSA No.: C45300

C. Manufacturer: HONDA OF AMERICA MFG., INC.

D. Manufacture Date: 12/03

1.2 TEST DATE

The test vehicle was subjected to FMVSS No. 216 testing on May 17, 2004.

SECTION 2

COMPLIANCE TEST RESULTS SUMMARY

2.0 TEST RESULTS

All tests were conducted in accordance with NHTSA, Office of Vehicle Safety Compliance (OVSC) Laboratory Procedure, TP-216-05 and General Testing Laboratories Procedure, TP-216-05B with the following modifications requested by the COTR:

- 1) The vehicle was rigidly mounted in the test fixture by welding vertical supports to the vehicle jack points to prevent any vehicle movement. Chains were not used in an effort to reduce and/or eliminate "pre-stressing" of the vehicle due to the tightening of chains.
- 2) Dial gauges were placed at the vehicle corners and at the passenger door to track overall vehicle motion and the ability of the alternate tie-down procedure to restrict motion of the vehicle.
- 3) A 50th percentile male hybrid III ATD Dummy was placed in the driver's seat per the 208 test procedure with an electrical contact strip on its head and a mating contact strip on the headliner of the vehicle. This contact strip was monitored during the test to determine if the dummy head would contact the headliner.
- 4) Performed the roof crush test to a loading ram displacement of 230 mm.

The data for this portion of the test can be found on Data Sheet 6.

Based on the test performed, the 2004 Honda Element appears to meet the requirements of FMVSS 216.

SECTION 3

COMPLIANCE TEST DATA

3.0 TEST RESULTS

The following data sheets document the results of testing on the 2004 Honda Element.

DATA SHEET 1
FMVSS 216
SUMMARY OF RESULTS

VEH. MOD YR/MAKE/MODEL/BODY: 2004 HONDA ELEMENT MPV

VEH. NHTSA NO: C45300; VIN: 5J6YH28254L000085

VEH. BUILD DATE: 12/03; TEST DATE: MAY 17, 2004

TEST LABORATORY: GENERAL TESTING LABORATORIES

OBSERVERS: GRANT FARRAND, JIMMY LATANE, AMANDA PRESCOTT

A. VISUAL INSPECTION OF TEST VEHICLE

Upon receipt, inspect vehicle for completeness, function, and discrepancies or damage which might influence the testing.

RESULTS:

B. VEHICLE DATA

- (1) Vehicle type as shown on certification label: MPV
(2) Vehicle UVW as recorded on Data Table 2: 1576.1 kg

C. STATIC LOAD TEST OF DRIVER SIDE OF ROOF

Minimum roof crush resistance required by FMVSS 216 for the vehicle tested:

MCCR as recorded on Data Table 2: 23,168 N

Maximum roof crush resistance measured during test was
69,389 N at 224.9 mm

PASS FAIL

X _____

D. POST TEST VISUAL INSPECTION

Roof metal is raised upward approximately 5" in center of roof and pushed down approximately over driver's head. Driver's roof rail has been flattened from "C" pillar forward to about center of the "A" pillar. Windshield and driver door glass are shattered.

RESULTS:

REMARKS:

RECORDED BY: 

DATE: 05/17/04

APPROVED BY: 

DATA SHEET 2
FMVSS 216
RECEIVING INSPECTION

VEH. MOD YR/MAKE/MODEL/BODY: 2004 HONDA ELEMENT MPV

VEH. NHTSA NO: C45300; VIN: 5J8YH28254L000085

VEH. BUILD DATE: 12/03; TEST DATE: MAY 17, 2004

TEST LABORATORY: GENERAL TESTING LABORATORIES

OBSERVERS: GRANT FARRAND, JIMMY LATANE, AMANDA PRESCOTT

Upon receipt, the vehicle will be examined visually for completeness, function, and damage. The roof and supporting structures such as the doors and windows should be checked for proper operation and any discrepancies which may influence the testing. The vehicle will be weighed and the minimum roof crush resistance determined.

RESULTS:

(1) Unloaded Vehicle Weight (UVW)

Left Front	<u>432.7</u>	kg	Left Rear	<u>370.5</u>	kg
Right Front	<u>429.1</u>	kg	Right Rear	<u>343.8</u>	kg
Front Axle	<u>861.8</u>	kg	Rear Axle	<u>714.3</u>	kg

TOTAL UVW 1576.1 kg

(2) Vehicle type as shown on vehicle certification label: MPV

(3) Minimum Roof Crush Resistance (MCRR):

Passenger Car:

UVW x 1.5 x 9.8 = N/A N

MCRR = N/A N (UVW x 1.5 x 9.8 or 22,241 N whichever is less)

MPV, Truck or Bus:

MCRR = UVW x 1.5 x 9.8 = 23,168 N

(4) Other Comments: _____

REMARKS:

RECORDED BY: *G. Farrand*

DATE: 05/17/04

APPROVED BY: *D. Michich*

DATA SHEET 3
FMVSS 216
PRE-TEST PREPARATION

VEH. MOD YR/MAKE/MODEL/BODY: 2004 HONDA ELEMENT MPV

VEH. NHTSA NO: C45300 VIN: 5J6YH28254L000085

VEH. BUILD DATE: 12/03 TEST DATE: MAY 17, 2004

TEST LABORATORY: GENERAL TESTING LABORATORIES

OBSERVERS: GRANT FARRAND, JIMMY LATANE, AMANDA PRESCOTT

Prior to testing, the following will be accomplished:

- A. Secure any convertible top, movable or removable roof structure in their weather tight positions OK
- B. Close all windows OK
- C. Close and lock all doors OK
- D. State Side of Roof Tested Driver
- E. Measure the lateral angle of the test device at sufficient points to determine that it has a 25 degree (plus zero degree, minus one degree) angle 25°
- F. Measure the longitudinal angle of the loading device at sufficient points to determine that it has a 5 degree (plus zero minutes, minus 20 minutes) 5°
- G. The test device will initially contact the roof at 533 mm aft of windshield
- H. If the test device was relocated based on the requirements of Chapter 12.3 paragraph F, describe where the test device will initially contact the roof as relocated N/A
- I. Ambient temperature 51 mm from the vehicle roof in the immediate area of the test device: 25.6 degrees C.

REMARKS:

RECORDED BY: G. Farrand

DATE: 05/17/04

APPROVED BY: D. Musick

DATA SHEET 4
FMVSS 216

VEH. MOD YR/MAKE/MODEL/BODY: 2004 HONDA ELEMENT MPV

VEH. NHTSA NO: C45300; VIN: 5J6YH28254L000085

VEH. BUILD DATE: 12/03; TEST DATE: MAY 17, 2004

TEST LABORATORY: GENERAL TESTING LABORATORIES

OBSERVERS: GRANT FARRAND, JIMMY LATANE, AMANDA PRESCOTT

RESULTS: Plots of load versus displacement and time versus displacement showed that:

- (1) The maximum roof crush resistance was 69,389 N at 224.9 mm
- (2) The rate of loading was 5.08 mm/sec (.2 in/sec)
- (3) The required roof crush resistance of 23,168 N was at 39.8 mm

REMARKS:

RECORDED BY: *G. Farrand*

DATE: 05/17/04

APPROVED BY: *D. Micic*

DATA SHEET 5
FMVSS 216
POST TEST VISUAL INSPECTION

VEH. MOD YR/MAKE/MODEL/BODY: 2004 HONDA ELEMENT MPV

VEH. NHTSA NO: C45300; VIN: 5J6YH28254L000085

VEH. BUILD DATE: 12/03; TEST DATE: MAY 17, 2004

TEST LABORATORY: GENERAL TESTING LABORATORIES

OBSERVERS: GRANT FARRAND, JIMMY LATANE, AMANDA PRESCOTT

Upon completion of testing, a detailed visual inspection of the vehicle shall be made. Describe all damage and deformation that occurred during the test.

RESULTS: Roof metal is raised upward approximately 5" in center of roof and pushed down approximately 6" over driver's head. Driver's roof rail has been flattened from "C" pillar forward to about center of the "A" pillar. Windshield and driver door glass are shattered.

RECORDED BY: 

DATE: 05/17/04

APPROVED BY: 

DATA SHEET 6
FMVSS 216 MODIFIED PORTION POST TEST

VEH. MOD YR/MAKE/MODEL/BODY: 2004 HONDA ELEMENT MPV

VEH. NHTSA NO: C45300; VIN: 5J6YH28254L000085

VEH. BUILD DATE: 12/03; TEST DATE: MAY 17, 2004

TEST LABORATORY: GENERAL TESTING LABORATORIES

OBSERVERS: GRANT FARRAND, JIMMY LATANE, AMANDA PRESCOTT

Maximum Load Applied = 69,389 N @ 224.9 mm
Maximum Displacement = 225.8 mm @ 69,389 N

Left Front Dial Indicator Displacement = .51 mm

Right Front Dial Indicator Displacement = 3.3 mm

Left Rear Dial Indicator Displacement = 20.1 mm

Right Rear Dial Indicator Displacement = 27.7 mm

Right Door Sill Dial Indicator Displacement = 16.0 mm

NOTES:

Pre-Test dummy had 9.0 inches from top of head to headliner and 11.5 inches
transverse from side of head to "B" pillar.

No contact between the dummy head and the vehicle headliner was observed during
the test.

RECORDED BY: 

DATE: 05/17/04

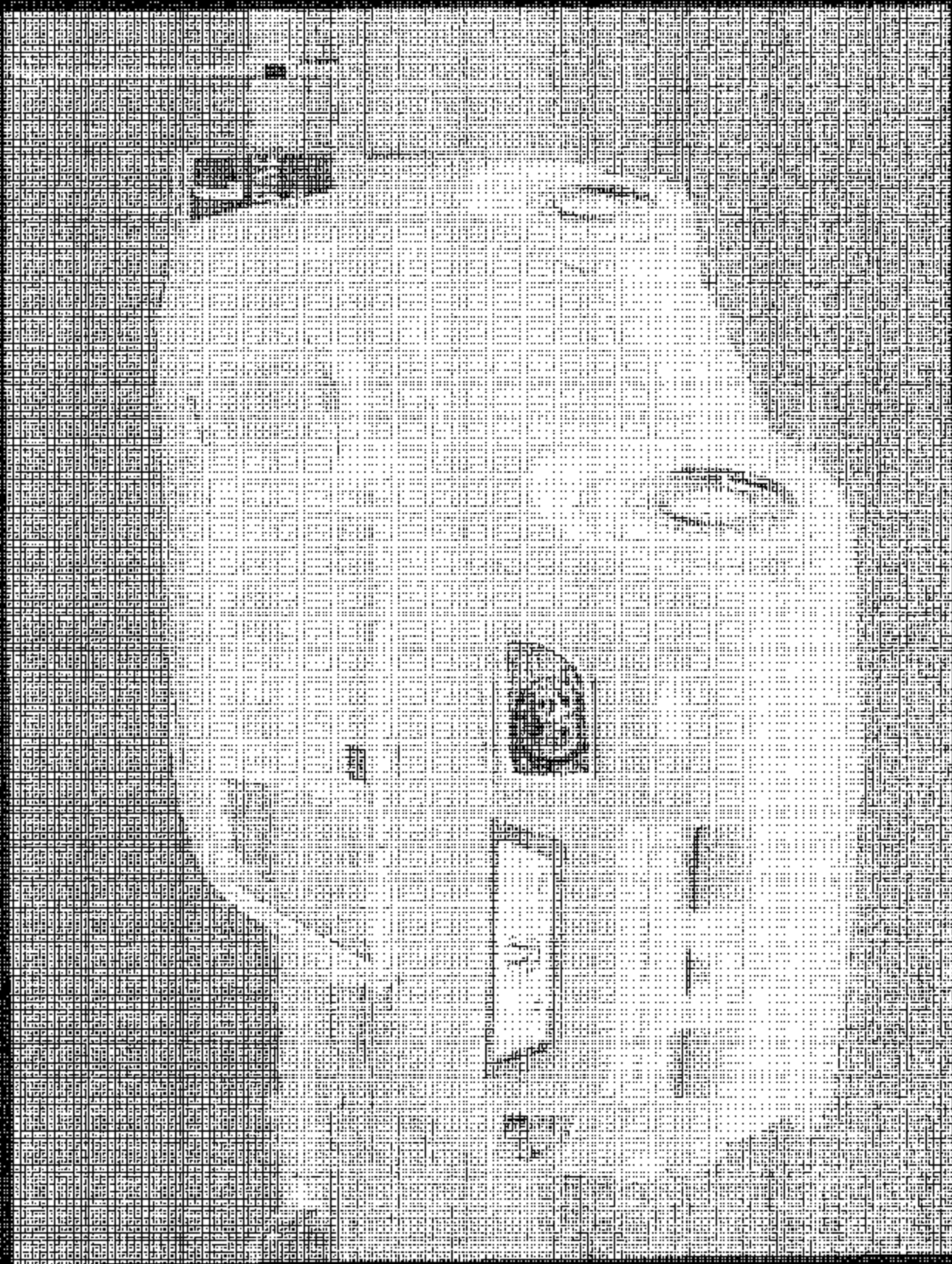
APPROVED BY: 

SECTION 4
INSTRUMENTATION AND EQUIPMENT LIST

TABLE 1 - INSTRUMENTATION & EQUIPMENT LIST

EQUIPMENT	DESCRIPTION	MODEL/ SERIAL NO.	CAL. DATE	NEXT CAL. DATE
COMPUTER	AT&T	486D68	BEFORE USE	BEFORE USE
TEST FIXTURE	GTL	N/A	N/A	N/A
A/D INTERFACE	METRABYTE	DAS-16(F)	BEFORE USE	BEFORE USE
SIGNAL CONDITIONER	METRABYTE	EXP-RES	BEFORE USE	BEFORE USE
LOAD CELL	REVERE	544351	11/03	11/04
DIAL INDICATOR	MITUTOYO	2424-10	BEFORE USE	BEFORE USE
LINEAR POTENTIOMETER	SERVO SYSTEMS	20/69	BEFORE USE	BEFORE USE
LINEAR POTENTIOMETER	SERVO SYSTEMS	20/70	BEFORE USE	BEFORE USE
LINEAR POTENTIOMETER	SERVO SYSTEMS	20/72	BEFORE USE	BEFORE USE
LINEAR POTENTIOMETER	ELECTRIC ASSOC. INC.	11A4A8	BEFORE USE	BEFORE USE

SECTION 5
PHOTOGRAPHS



2004 HONDA ELEMENT
NHTSA NO. C45500
FMVSS NO. 219

FIGURE 1
3/4 FORWARD VIEW OF VEHICLE ON TESTED
SIDE BEFORE TESTING

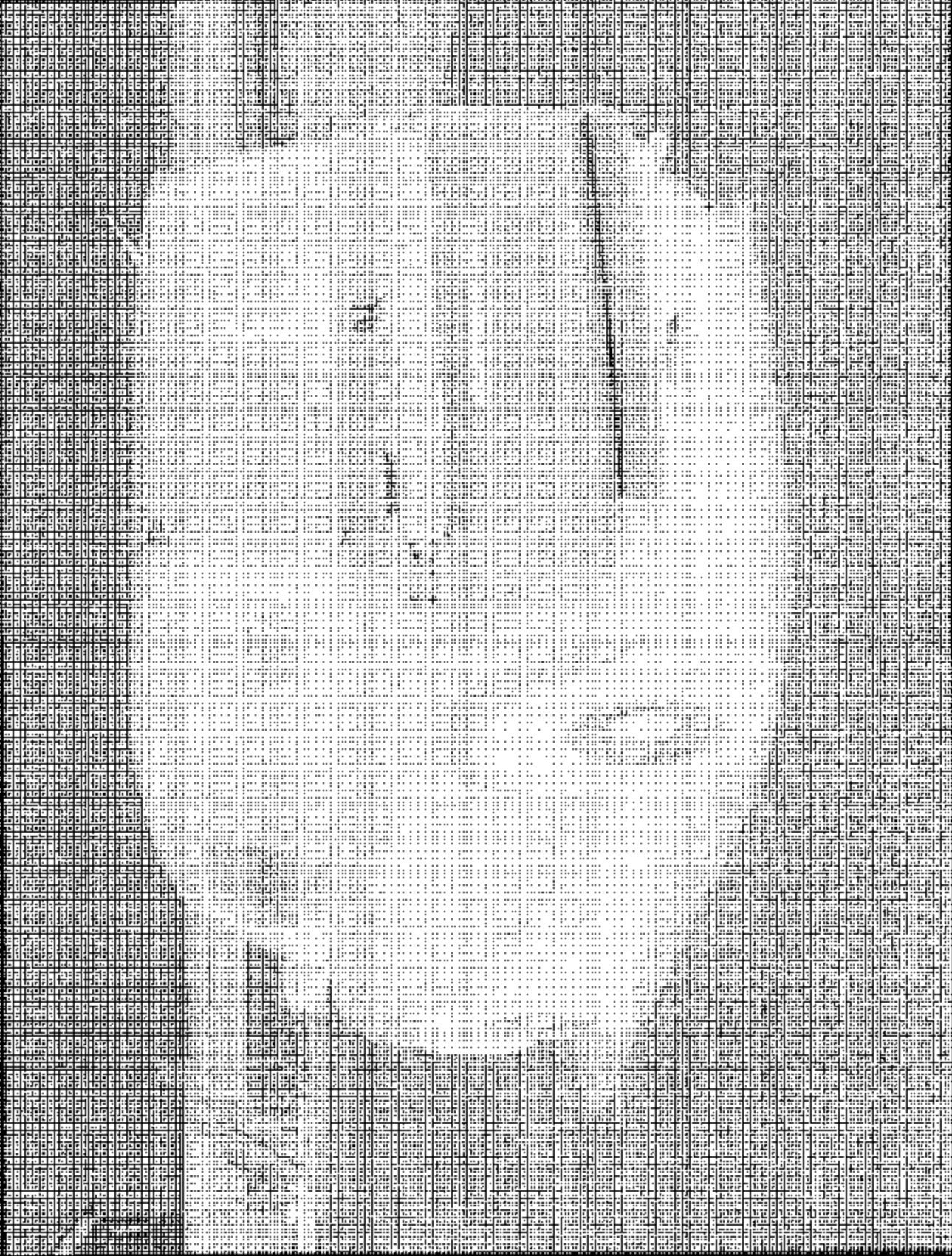
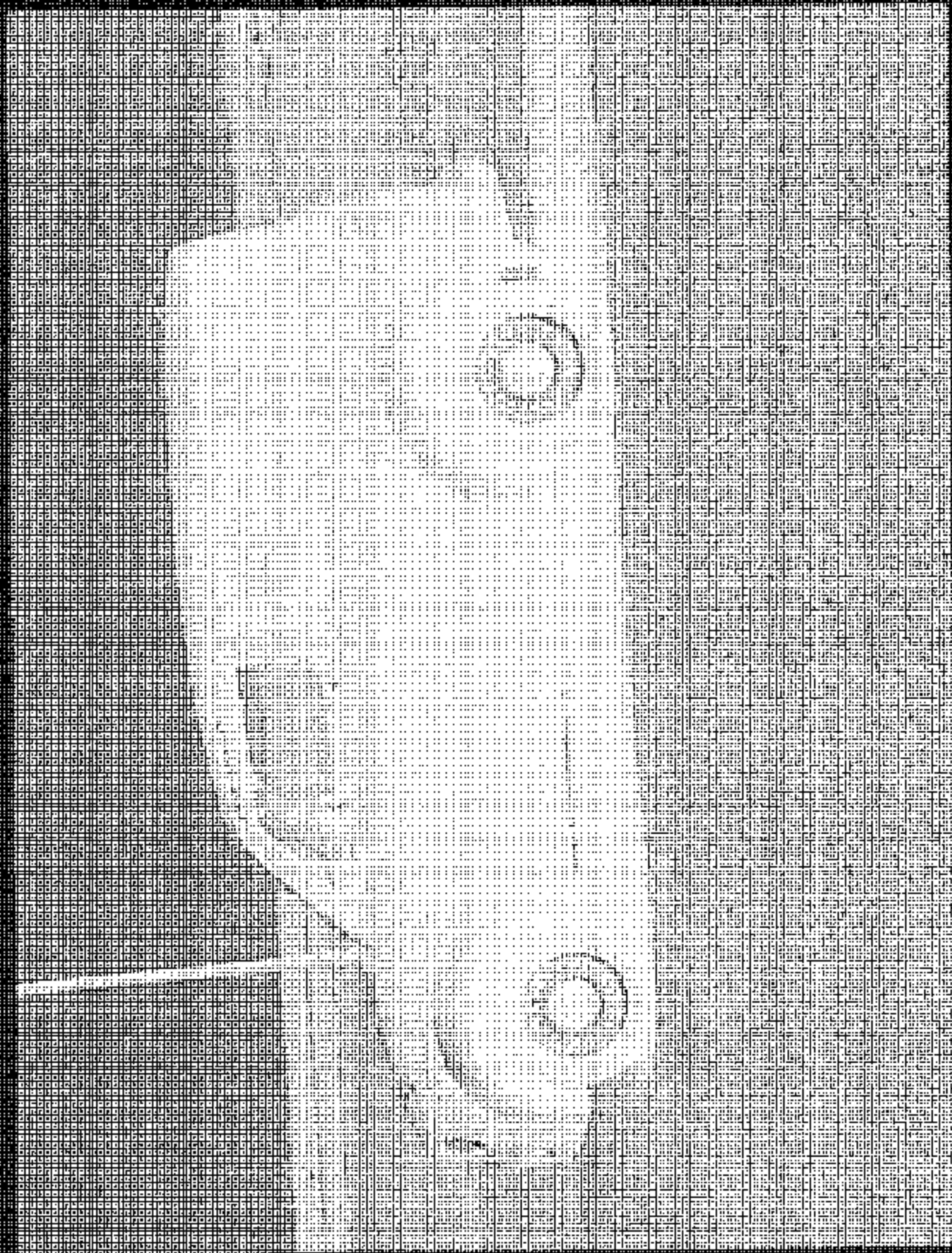


FIGURE 12
3/4 REARWARD VIEW OF VEHICLE ON TESTED
SIDE BEFORE TESTING

2004 HONDA ELEMENT
NHTSA NO. 046300
FMVSS NO. 210



2004 HONDA ELEMENT
NHTSA NO. C45300
FMVSS NO. 216

FIGURE 5.3
LEFT SIDE VIEW OF VEHICLE BEFORE TESTING

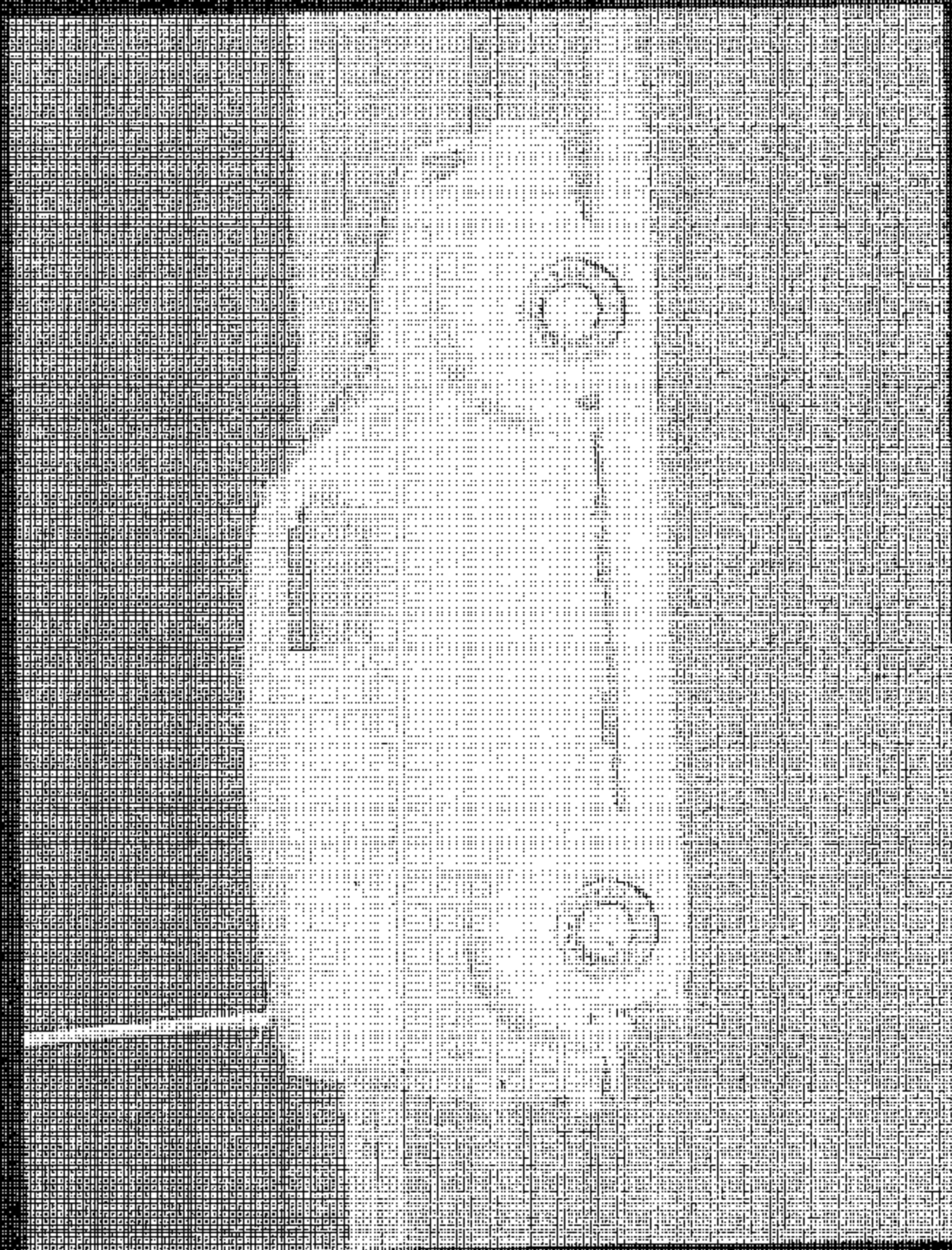


FIGURE 44
RIGHT SIDE VIEW OF VEHICLE BEFORE
TESTING

2016 HONDA ELEMENT
NHTSA NO. C45304
FMVSS NO. 216

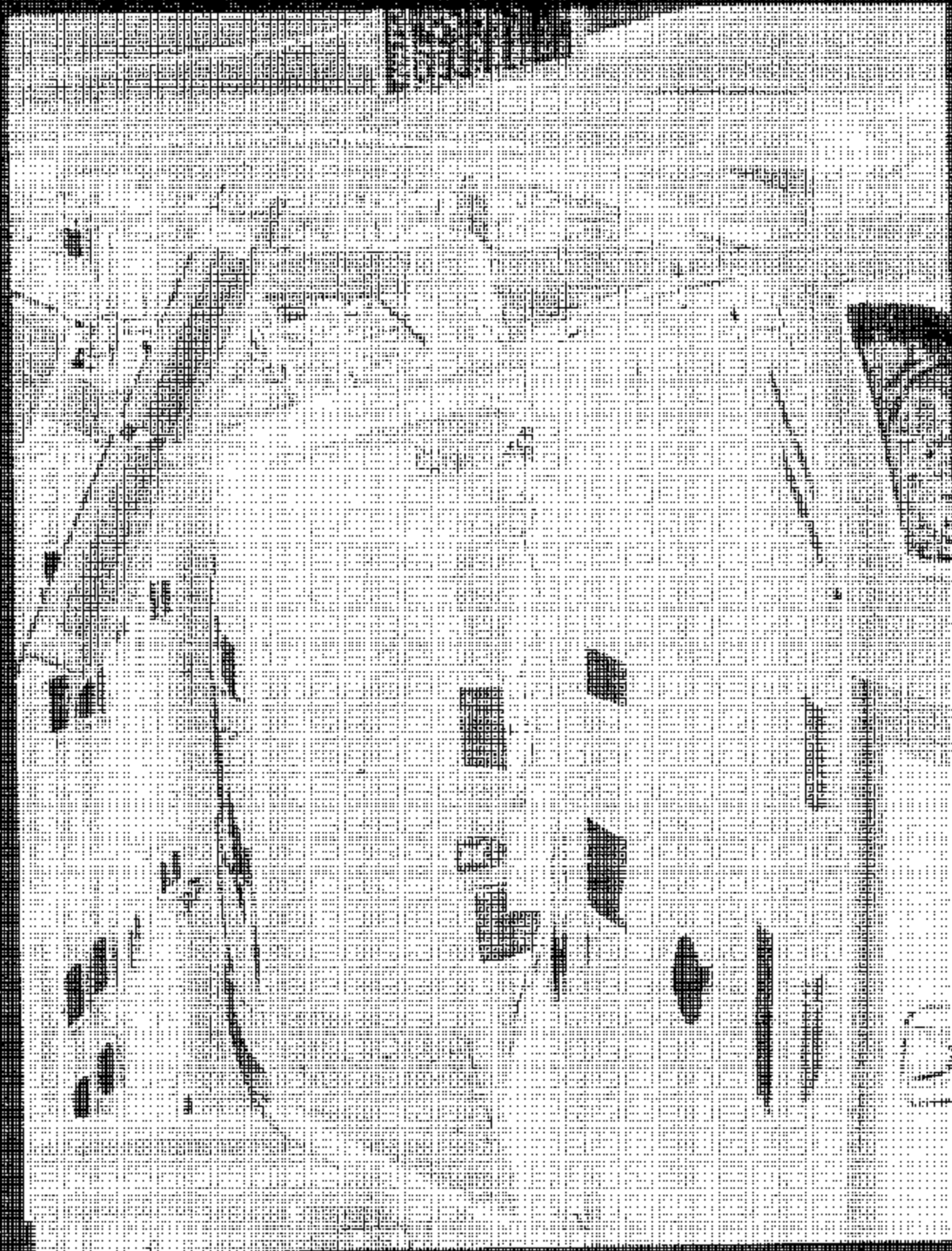


FIGURE 6.4
FRONT VIEW OF TEST SET-UP PRE-TEST

2004 HOADA ELEMENT
NHTSA NO. C45203
PMA55 NO. 216



FIGURE 3-6
LEFT FRONT VIEW OF TEST SET-UP PRE-TEST

2004 HONDA ELEMENT
NHTSA NO. C4E300
FMVSS NO. 216



FIGURE 17
LEFT REAR VIEW OF TEST SET-UP PRE-TEST

2004 HONDA ELEMENT
NHISA NO. C4L203
FAVSS NO. 216

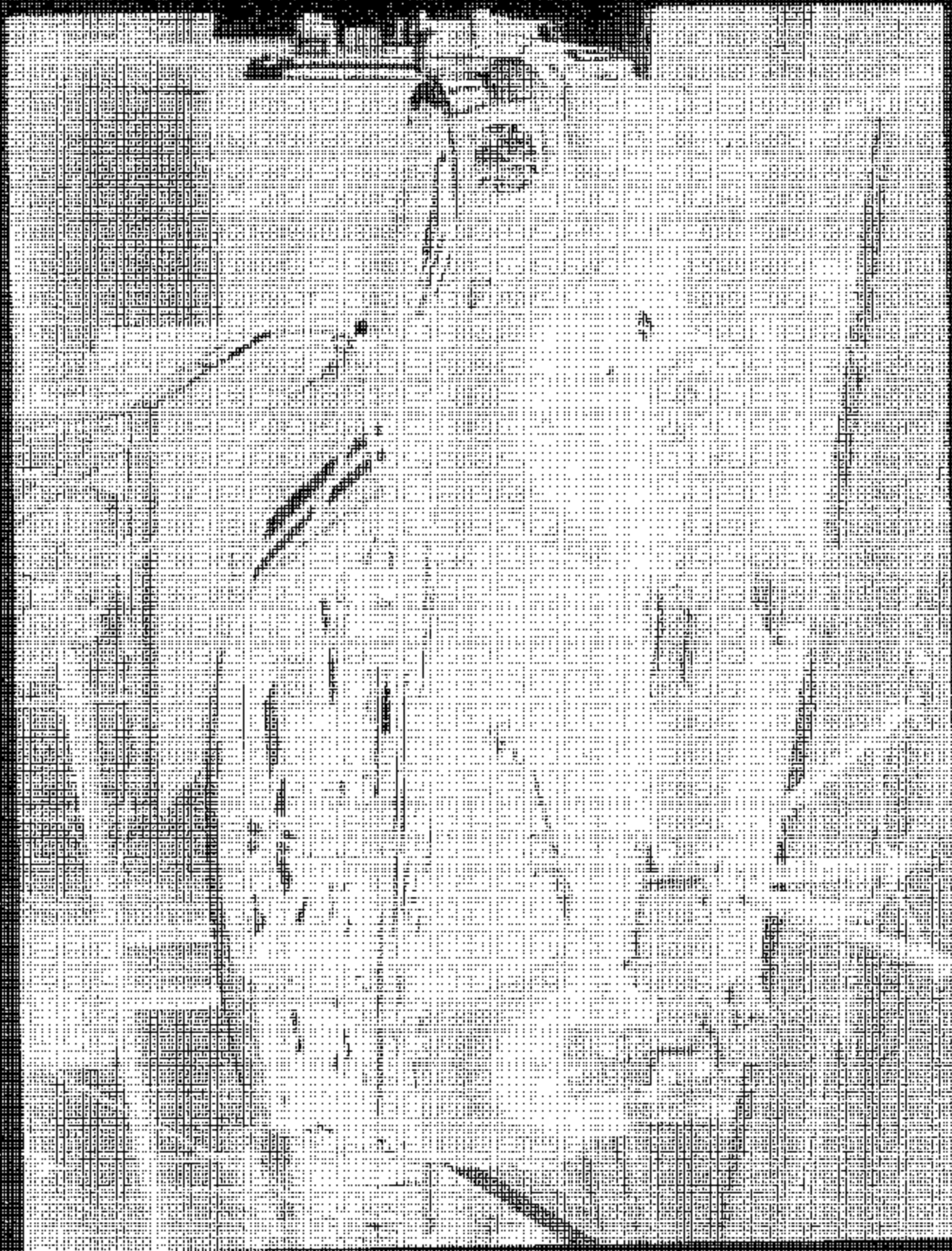


FIGURE 5A
VEHICLE IN 216 TEST RIG PRE-TEST

2014 HONDA ELEMENT
NHTSA NO. C45300
EMVSS NO. 216

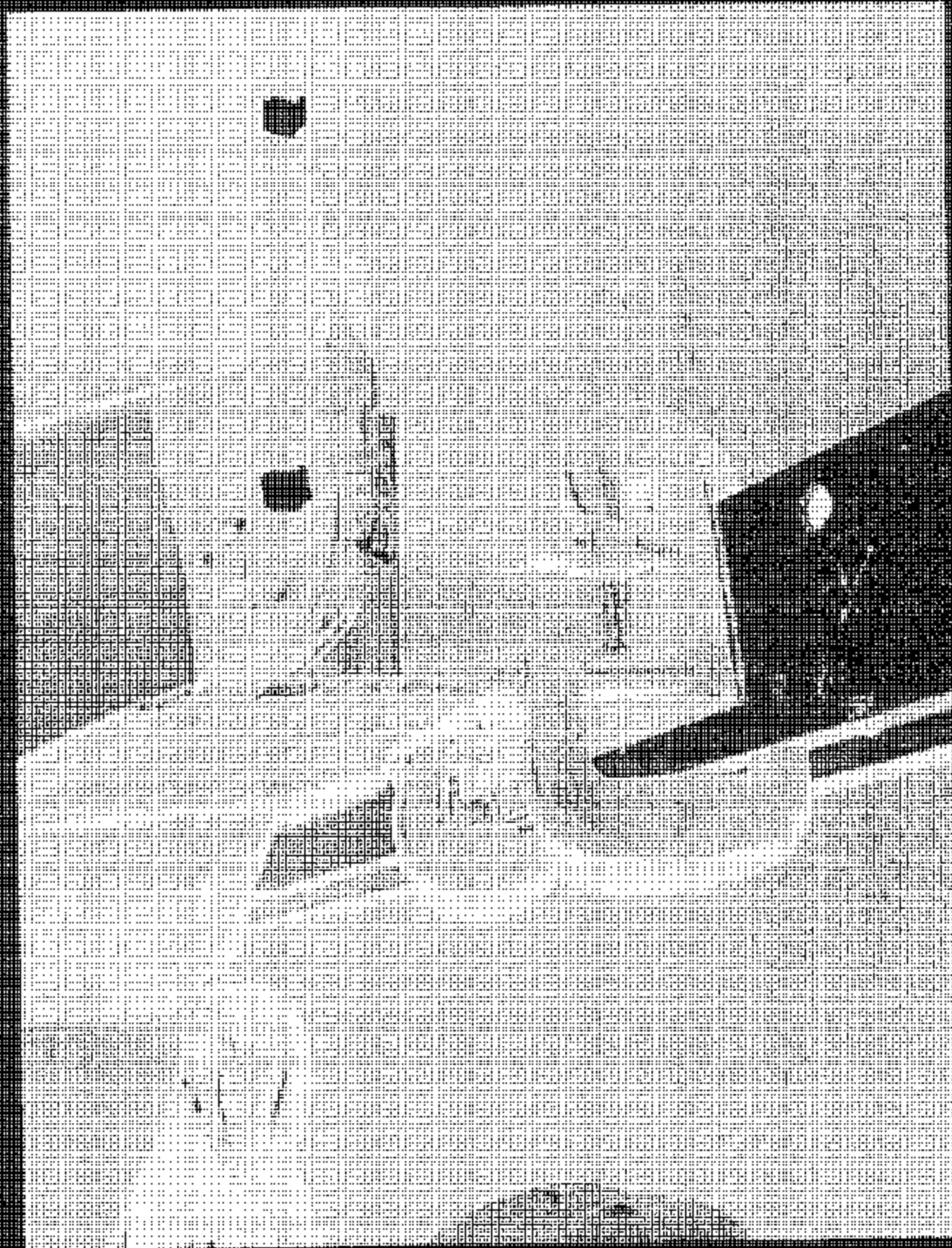


FIGURE 5.9
LEFT FRONT VEHICLE MOUNTING

2004 HONDA ELEMENT
NHTSA NO. C45300
FMVSS NO. 210

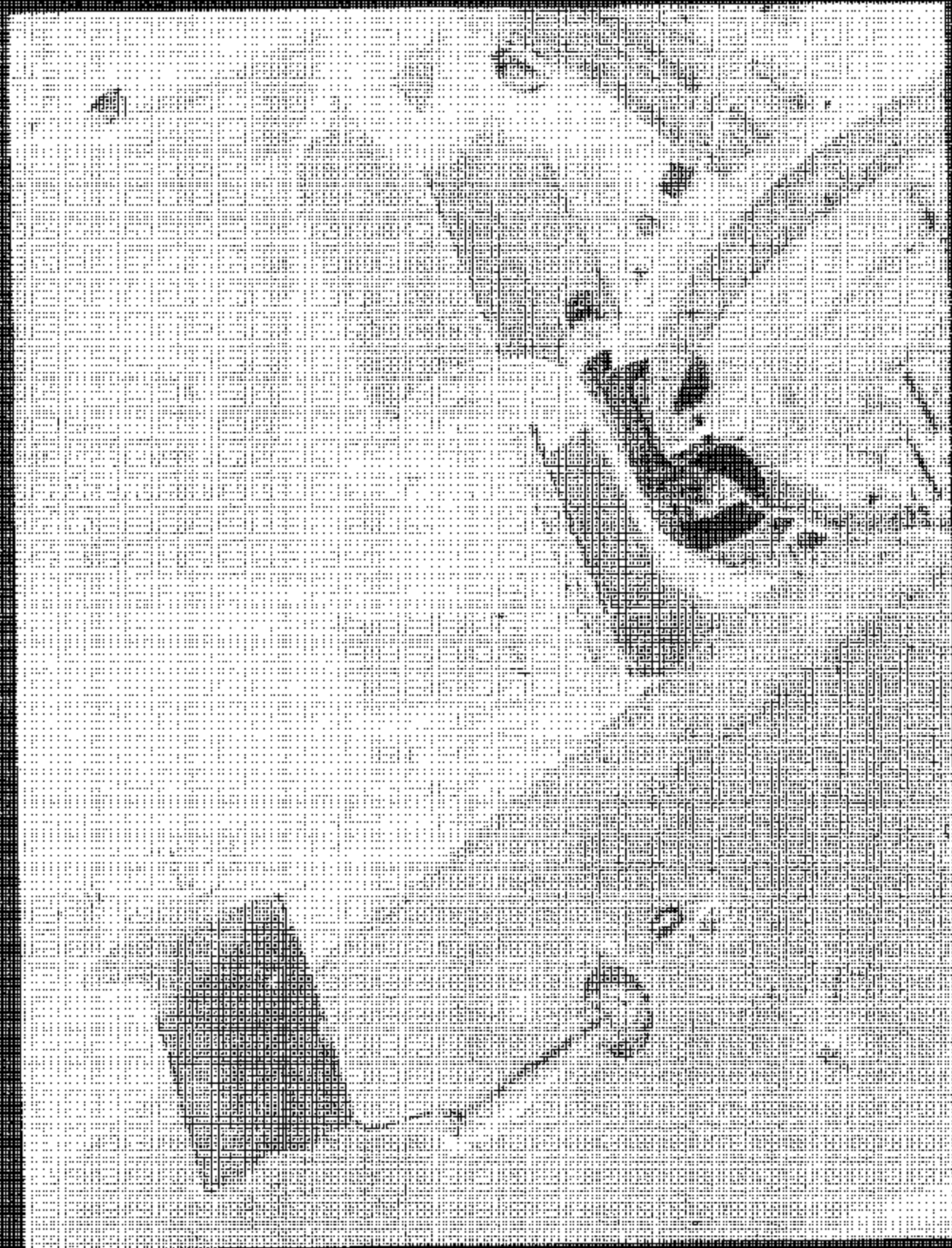


FIGURE 5-10
RIGHT FRONT VEHICLE MOUNTING

2004 HONDA ELEMENT
NHTSA NO. C45200
FMVSS NO. 238



FIGURE 6.11
LEFT REAR VEHICLE MOUNTING

2004 HONDA ELEMENT
NHTSA NO. C46300
FMVSS NO. 218



FIGURE 5-12
RIGHT REAR VEHICLE MOUNTING

2004 HONDA ELEMENT
NHTSA NO. 045300
FMVSS NO. 216

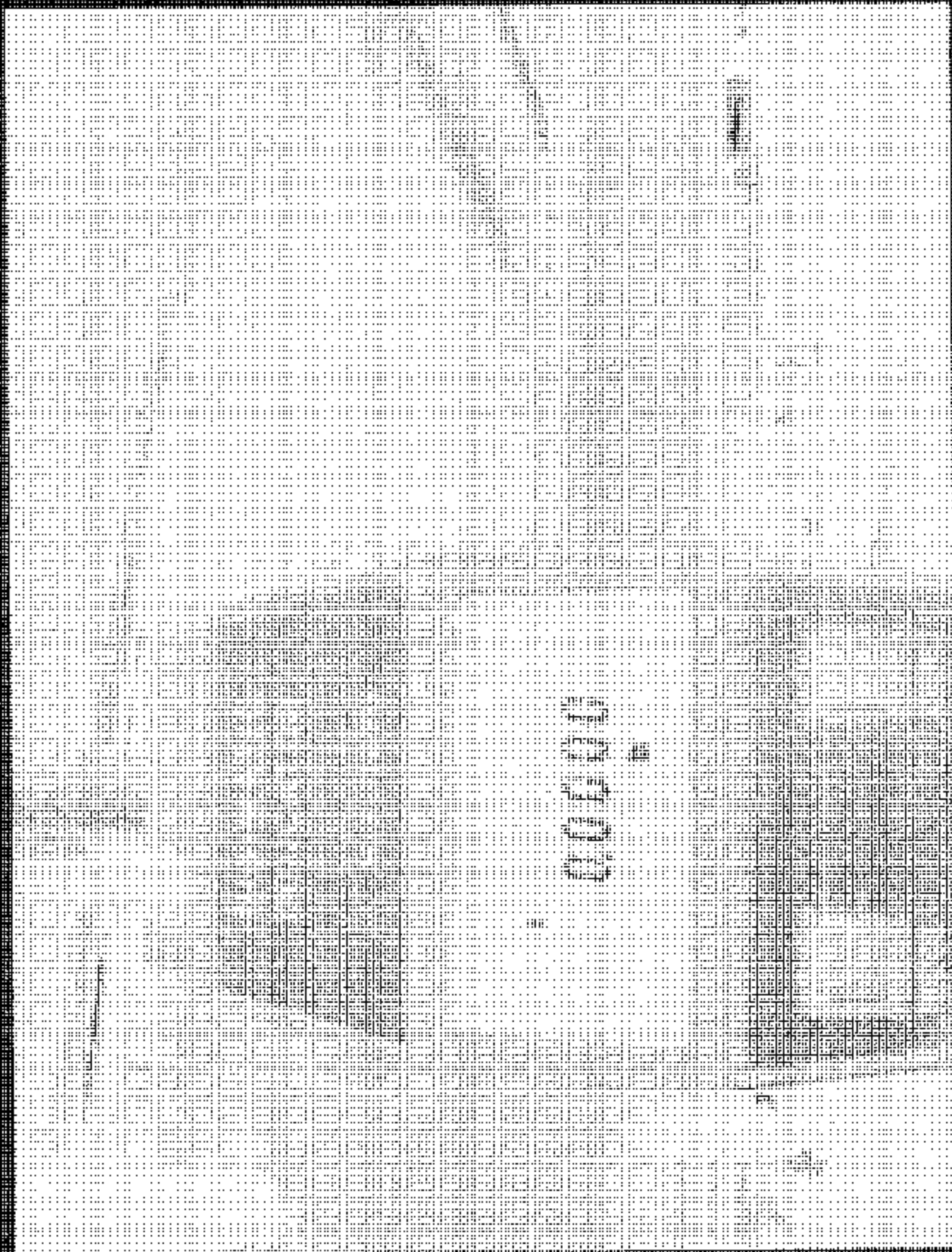


FIGURE 5-13
LEFT FRONT DISPLACEMENT PRE-TEST

2004 HONDA ELEMENT
NHTSA NO. C45808
PLATE NO. 218

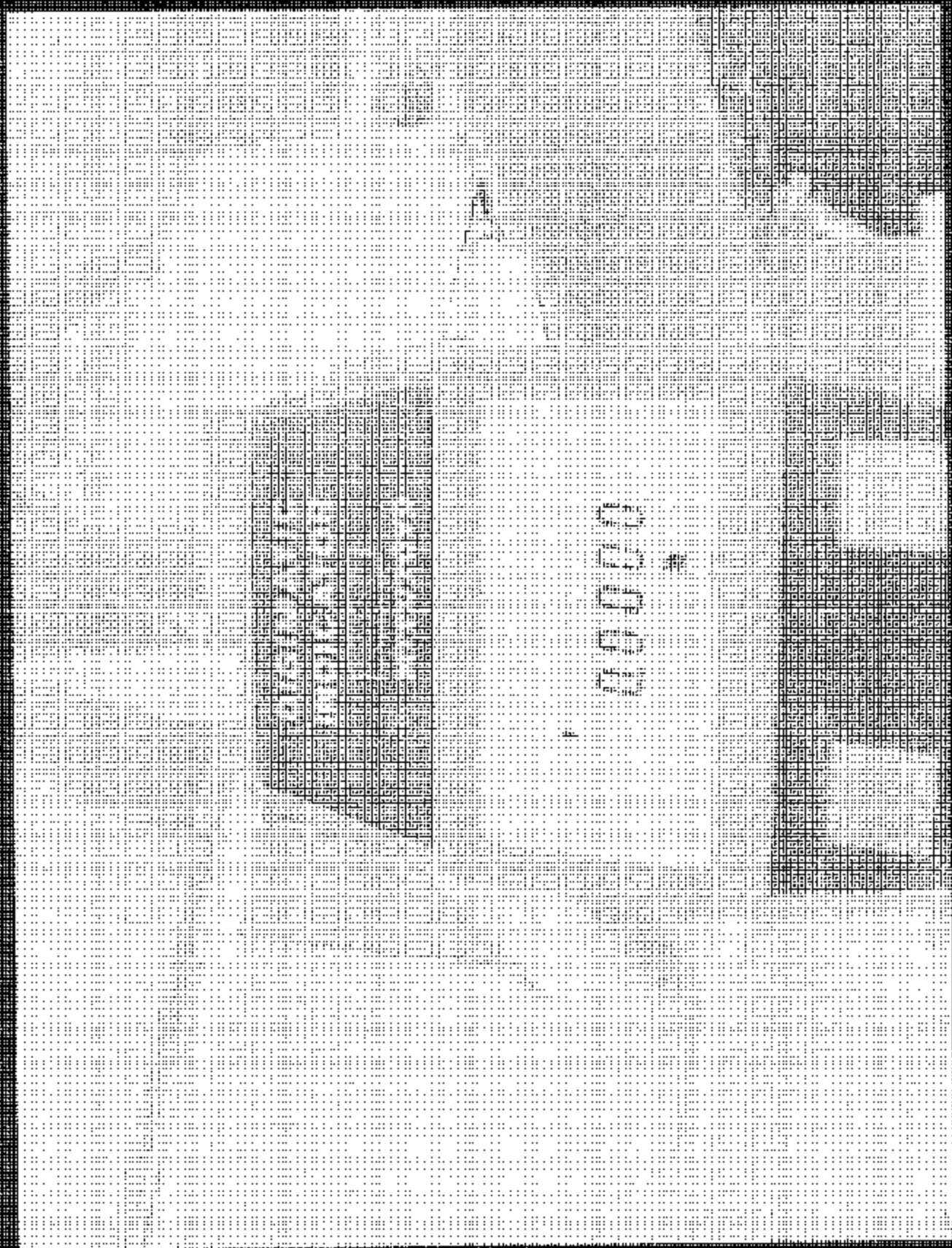
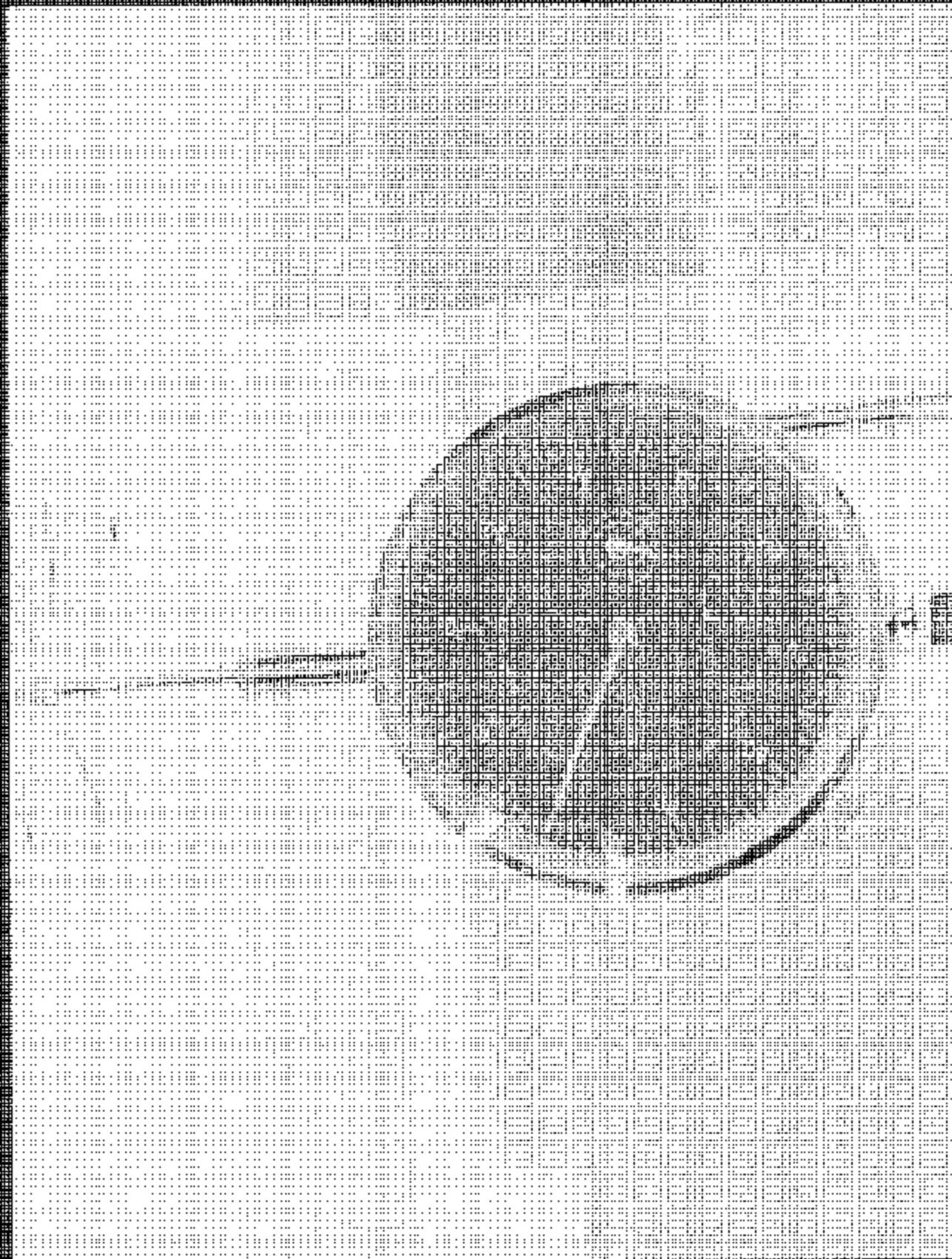


FIGURE 5 14
RIGHT FRONT DISPLACEMENT PRE-TEST

2002 HONDA ELEMENT
NHISA NO C46309
FMVSS NO 210

FIGURE 6.15
RIGHT REAR DISPLACEMENT PRE-TEST

2004 HONDA ELEMENT
NHTSA NO. C46300
FMVSS NO. 216



2004 HONDA ELEMENT
NHTSA NO. C45306
FMVSS NO. 216

FIGURE 5-18
PASSENGER DOOR DISPLACEMENT PRE-TEST

FIGURE 5. IT
LEFT REAR DISPLACEMENT PRE-TEST

2004 HONDA ELEMENT
NHTSA NO. C45300
FMVSS NO. 216



FIGURE 5-18
ROOF CONTACT POINT

2004 HONDA ELEMENT
NHTSA NO. 04-530
FWASS NO. 218

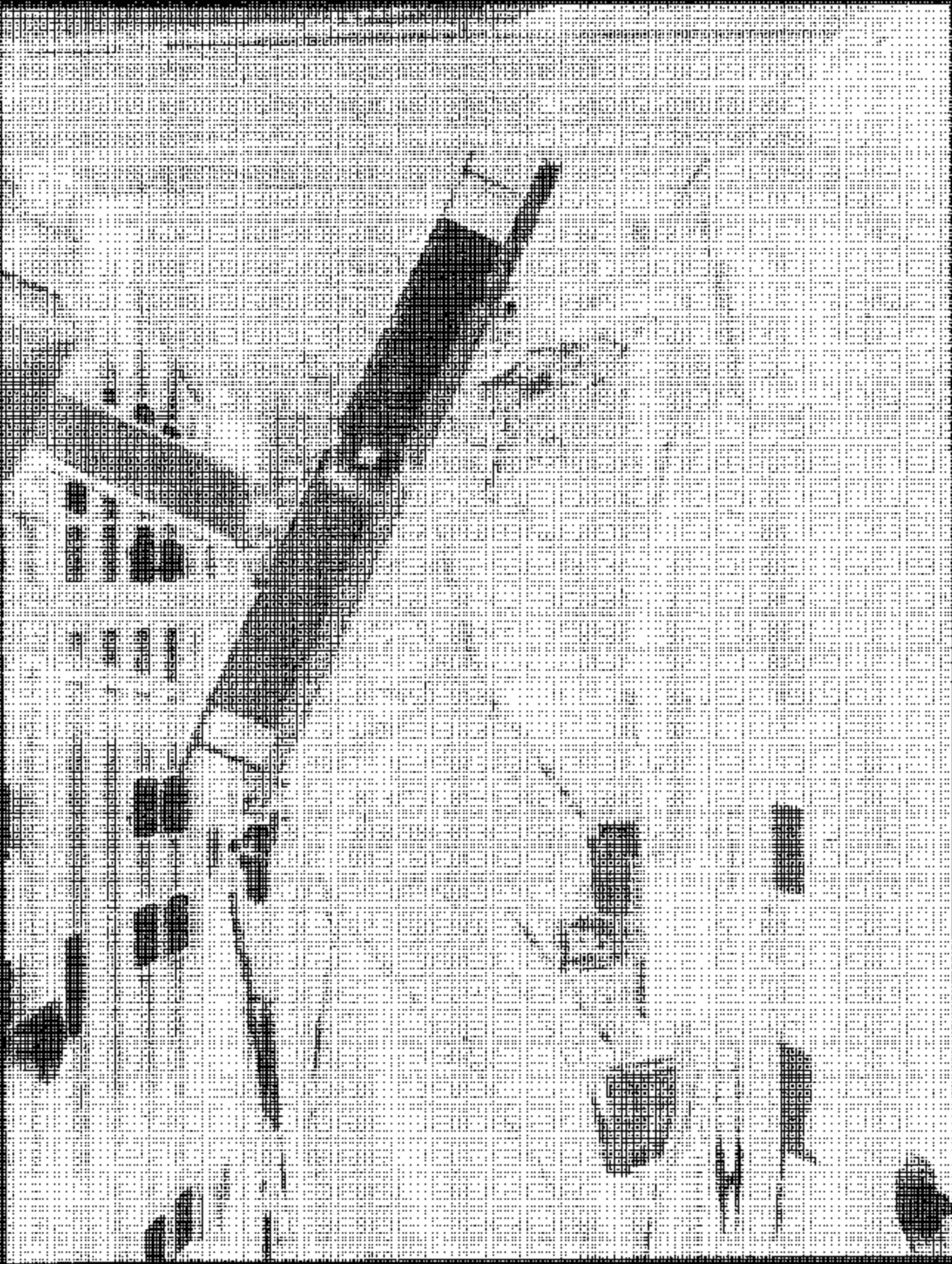


FIGURE 6.19
FRONT VIEW AT FULL LOAD

2005 HONDA ELEMENT
NHISA NO. GA5300
FAVSS NO. 218



2004 HONDA ELEMENT
NHTSA NO. C-68300
FMVSS NO. 216

FIGURE 5-20
RIGHT FRONT VIEW AT FULL LOAD

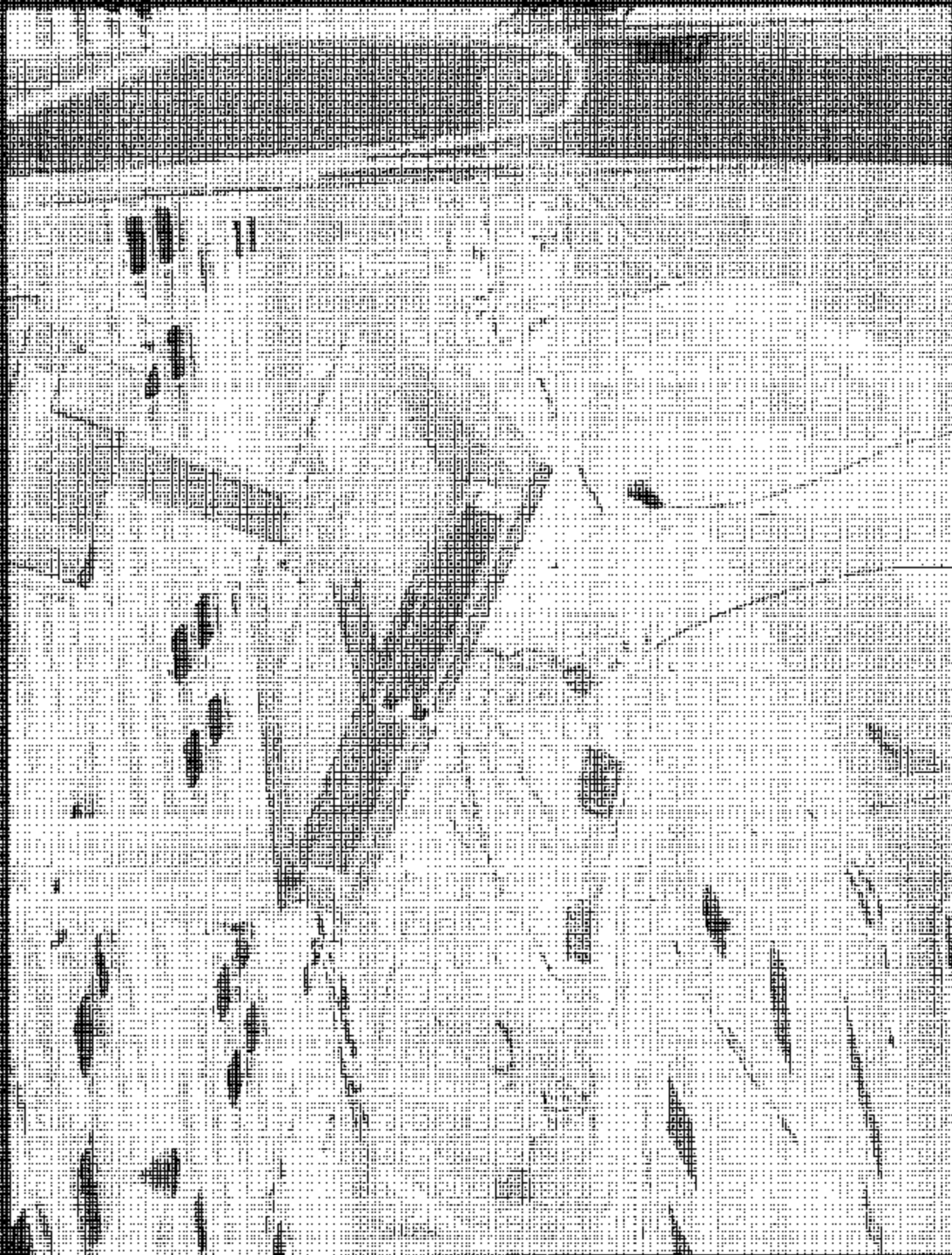


FIGURE 6-21
LEFT FRONT VIEW AT FULL LOAD

2002 HONDA ELEMENT
NHISA NO. C45300
FMVSS NO. 216



FIGURE 5-22
RIGHT FRONT DISPLACEMENT AT FULL LOAD
(INCHES)

2004 HONDA ELEMENT
NHTSA NO. C45309
FVA55 NO. 210



2004 HONDA ELEMENT
NHTSA NO. C45300
EPAVSS NO. 216

FIGURE 5-23
LEFT FRONT DISPLACEMENT AT FULL LOAD
(INCHES)

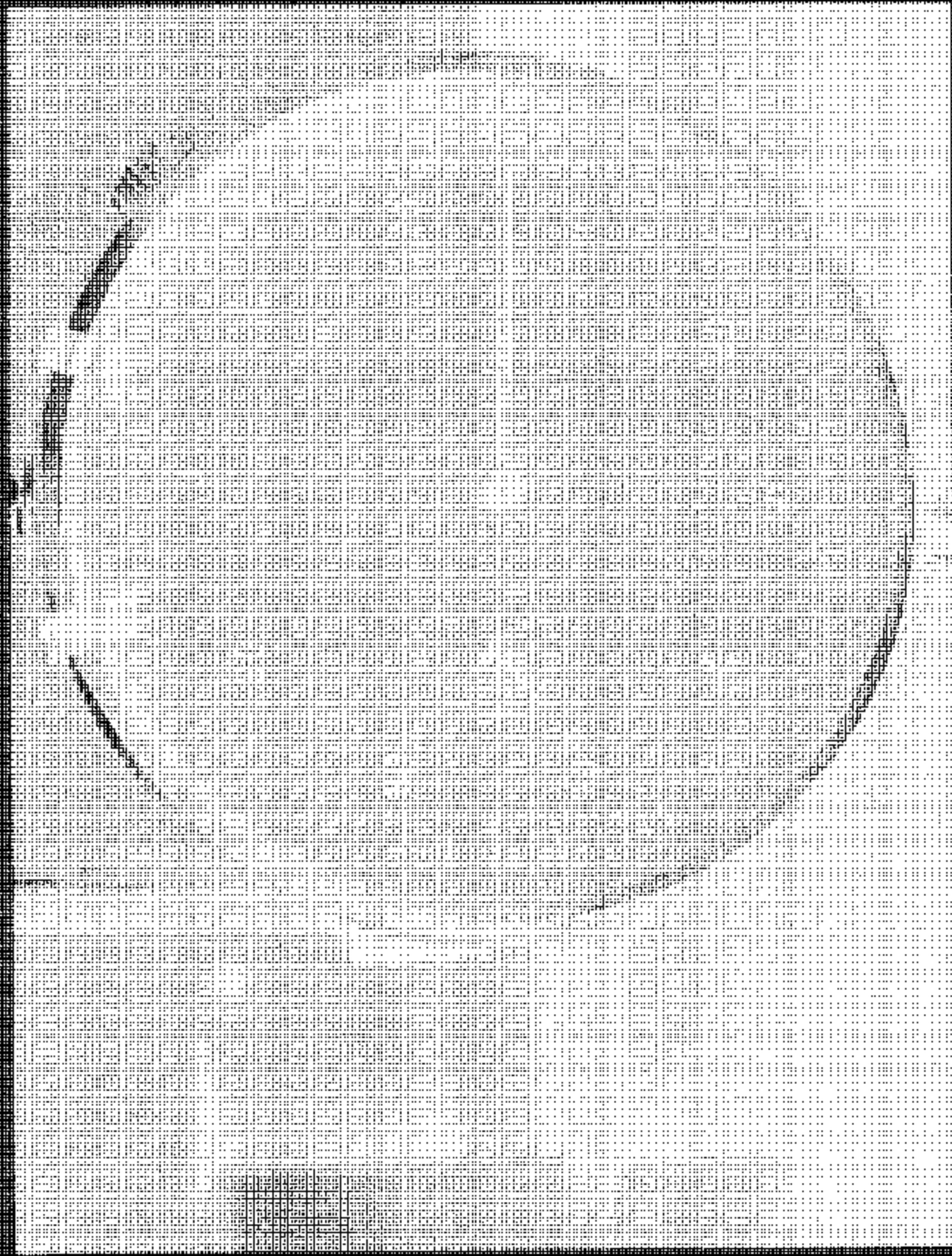
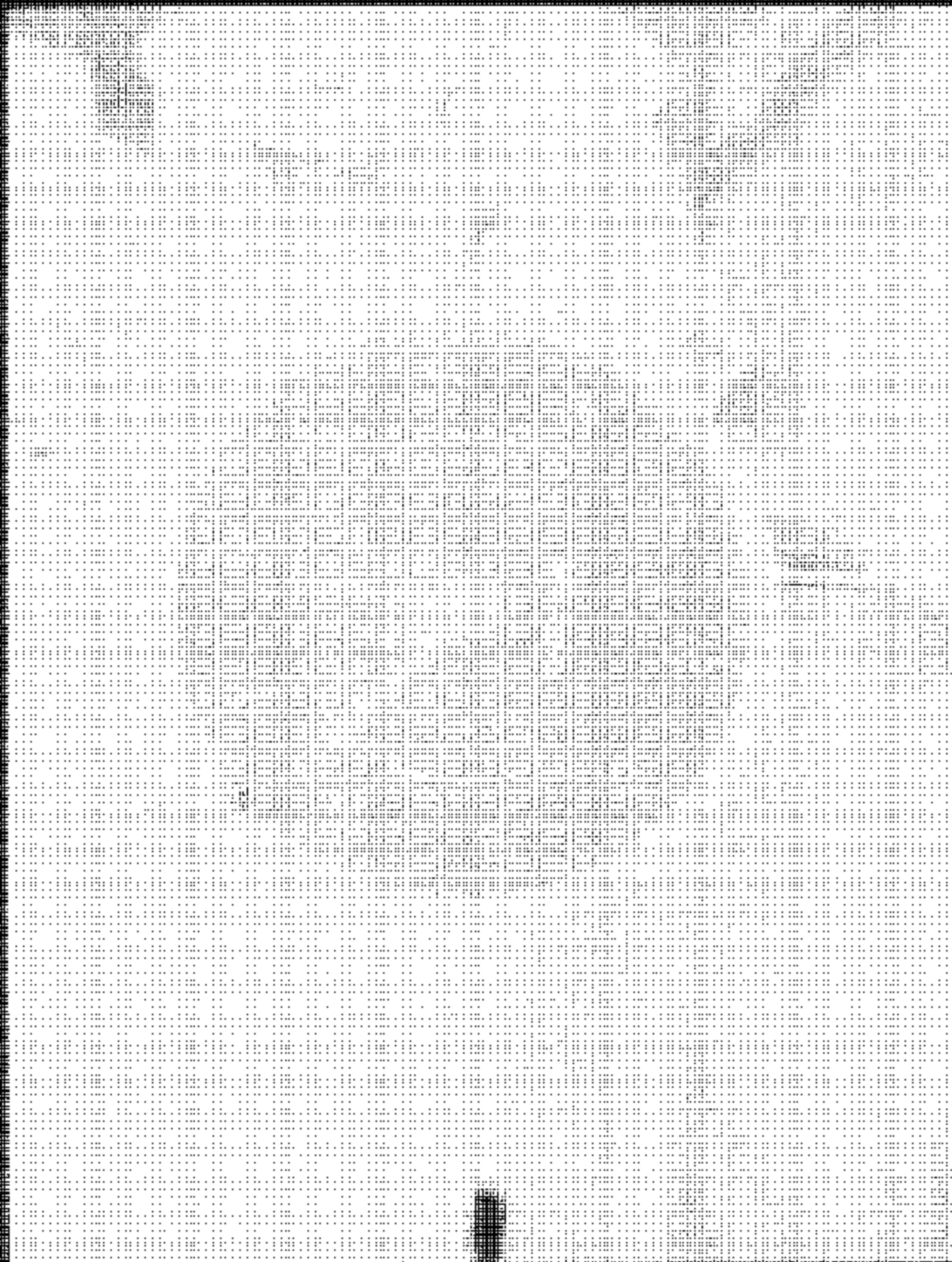


FIGURE 5.24
PASSENGER DOOR DISPLACEMENT AT FULL
LOAD (INCHES)

2004 HONDA ELEMENT
NHISA NO. C46300
FMVSS NO. 216



2004 HONDA ELEMENT
NHISANO 045800
EMASSINO 210

FIGURE 5-26
RIGHT REAR DISPLACEMENT AT FULL LOAD
(INCHES)



STATIONERY
PRINTING
BOOK BINDING
REPRODUCTION
GRAPHIC DESIGN
ADVERTISING
COMPUTER
TELEPHONE
TELETYPE
TELEVISION
RADIO
INTERNET
MAIL
POSTAL
TELEGRAPH
TELEPHONE
TELETYPE
TELEVISION
RADIO
INTERNET
MAIL
POSTAL
TELEGRAPH

2006 HONDA CELEBRATE!
 WEEKEND 04/20-04/23
 915 ONSTAN



FIGURE 4.27
LEFT FRONT VIEW AFTER REMOVAL
OF PLATE

2014 HONDA ELEMENT
NHISA NO. C45300
FWISS NO. 216



2004 HONDA ELEMENT
NHTSA NO. C45300
FMVSS NO. 218

FIGURE E.26
LEFT FRONT CLOSE-UP VIEW AFTER REMOVAL
OF PLATE



FIGURE 5.29
PRE-TEST INTERIOR VIEW FROM REAR

2004 HONDA ELEMENT
NHTSA NO. C45306
FMVSS NO. 219

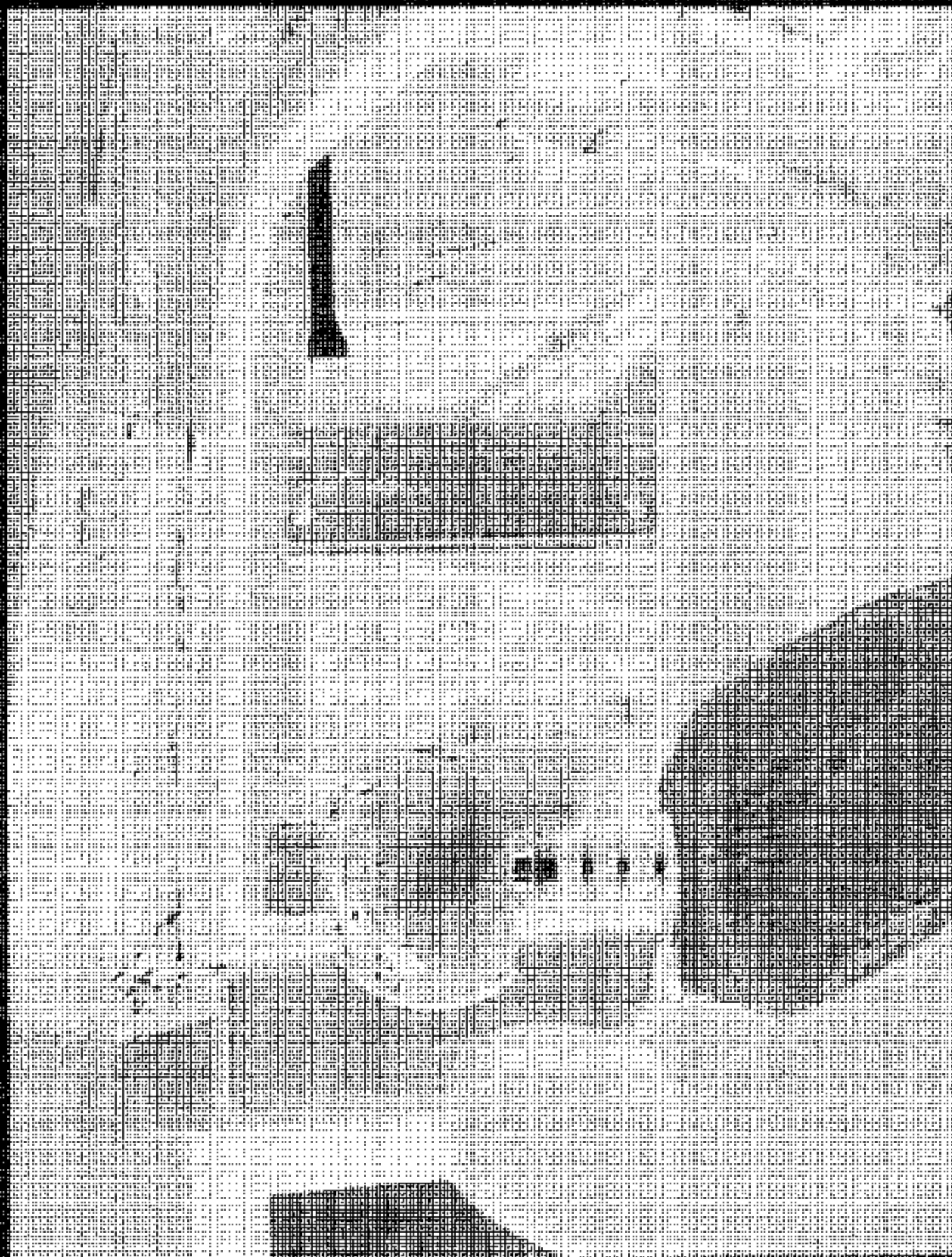


FIGURE 5.30
PRE-TEST INTERIOR VIEW FROM SIDE

2004 HONDA ELEMENT
NHTSA NO. C45300
FMVSS NO. 218

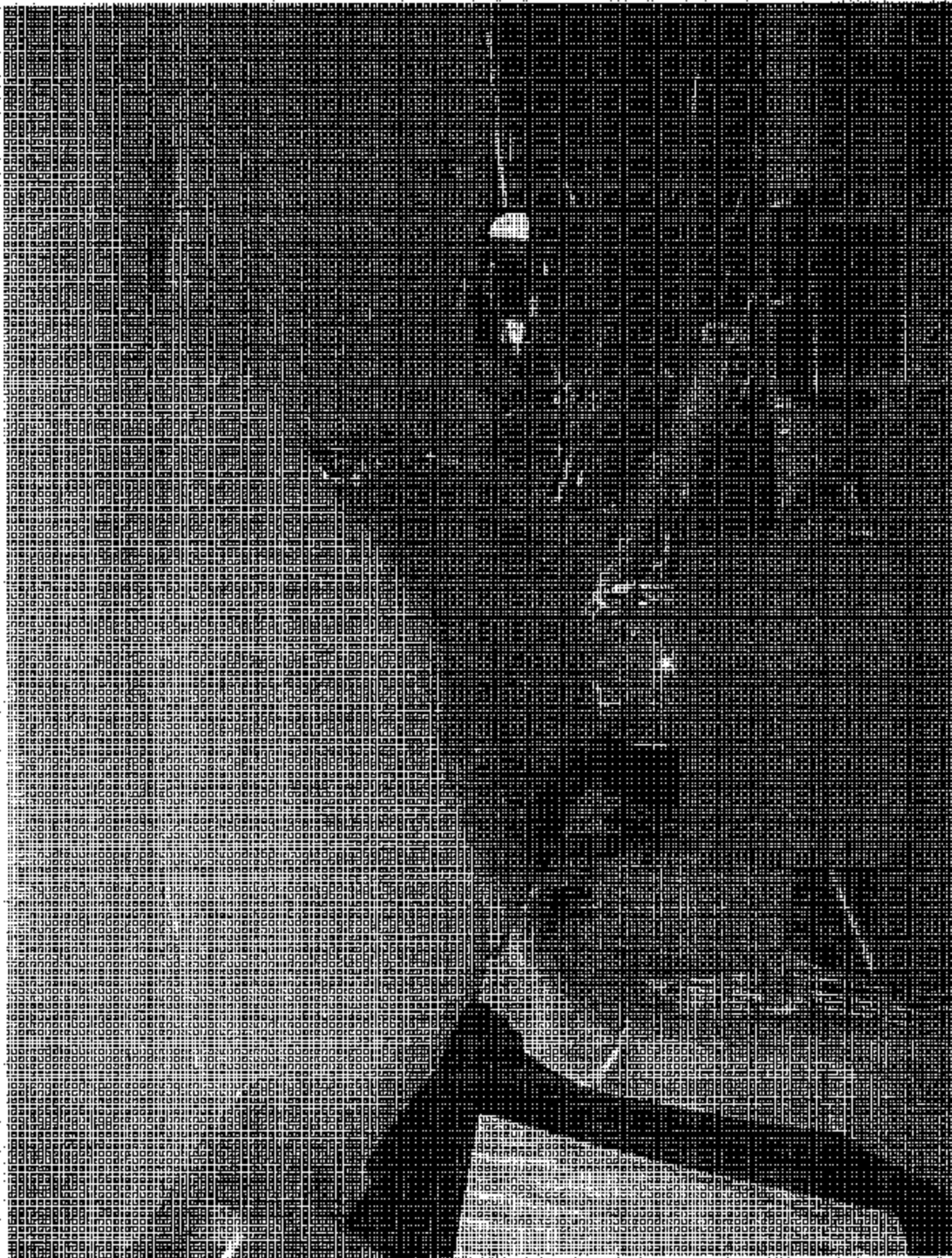


FIGURE 5.31
POST TEST INTERIOR VIEW FROM REAR

2004 HONDA ELEMENT
NHTSA NO. C45300
FMVSS NO. 216

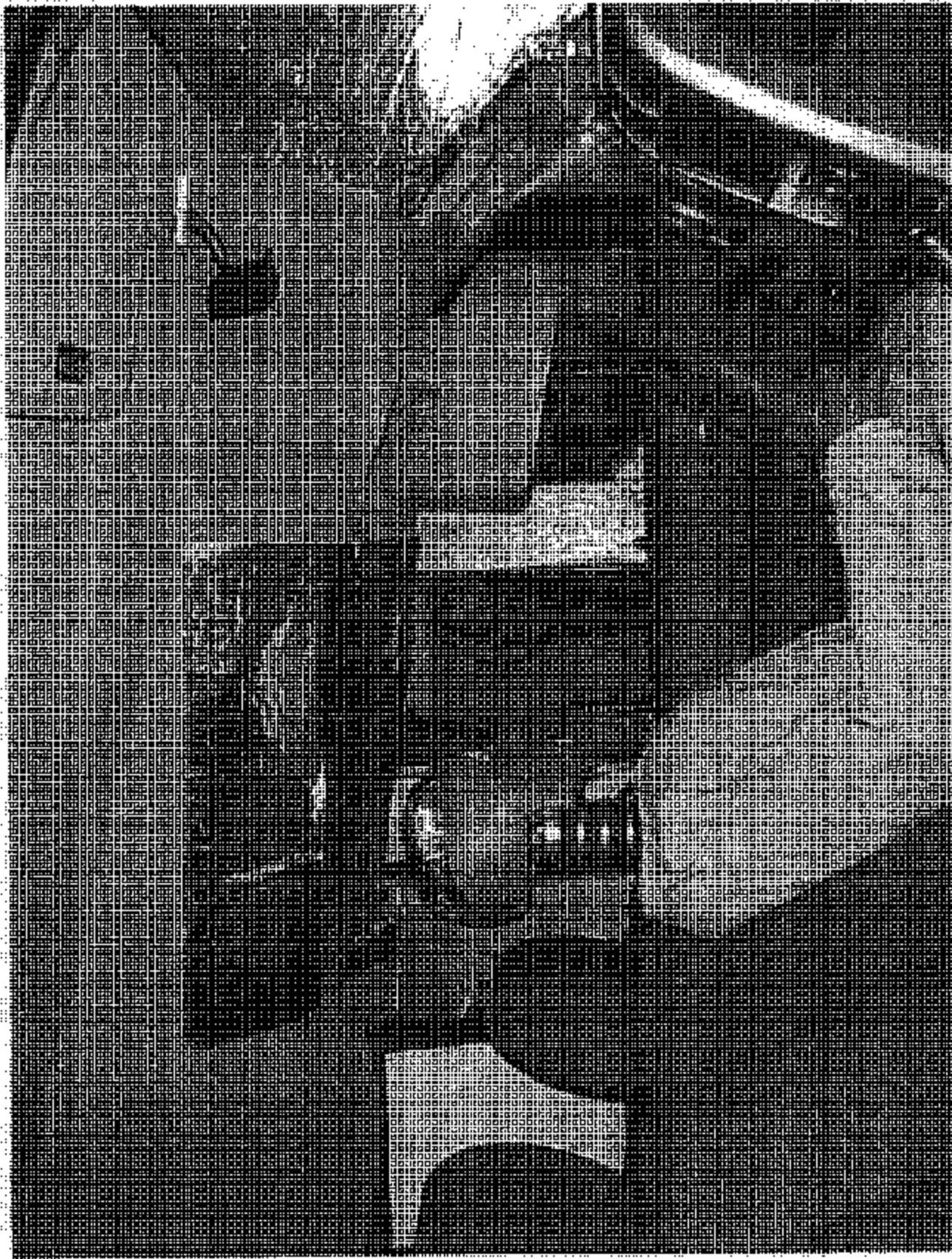


FIGURE 5.32
POST TEST INTERIOR VIEW FROM SIDE

2004 HONDA ELEMENT
NHTSA NO. C45300
FMVSS NO. 216

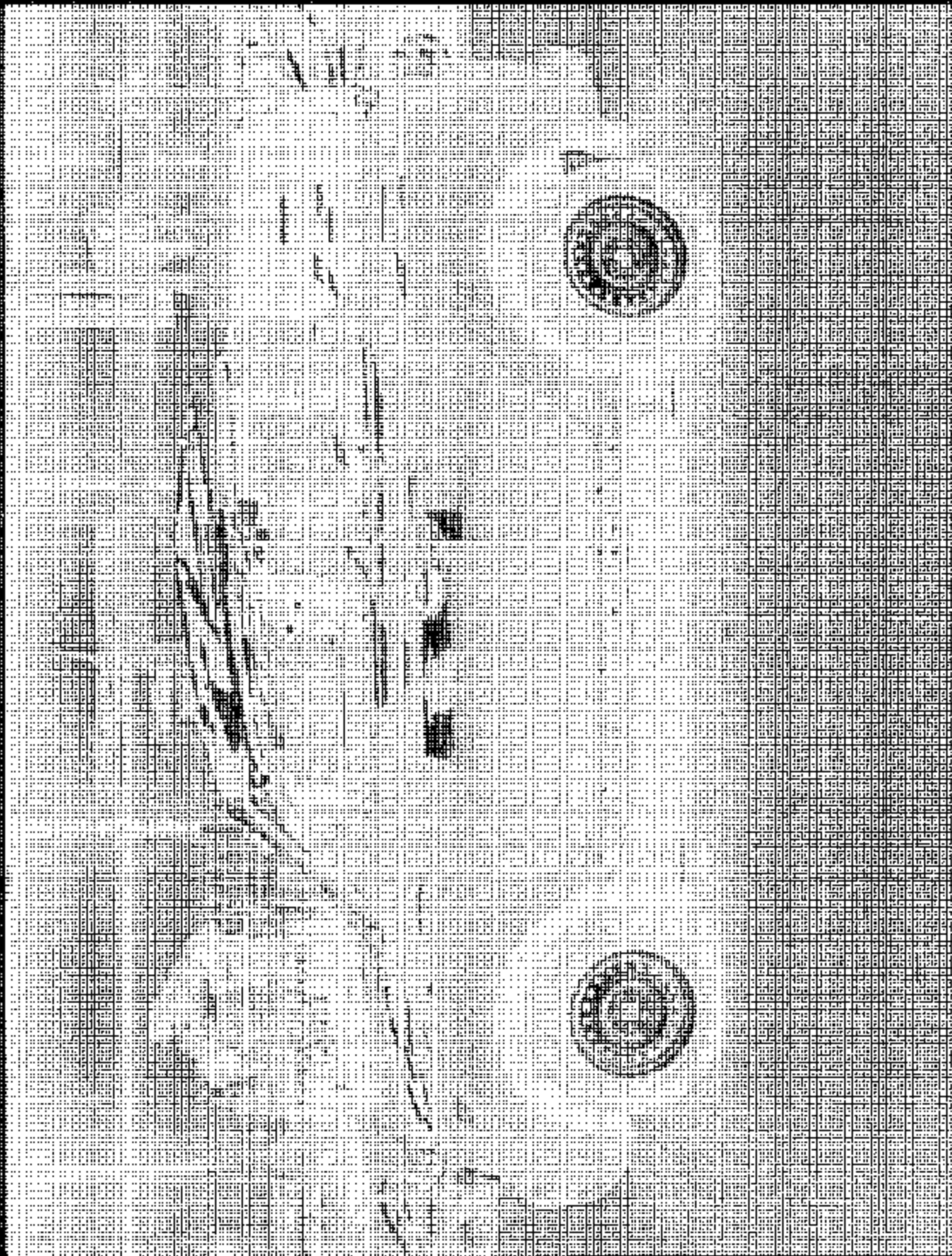


FIGURE 5.33
LEFT SIDE VIEW POST TEST

2004 HONDA ELEMENT
NHTSA NO. C45300
FMVSS NO. 216

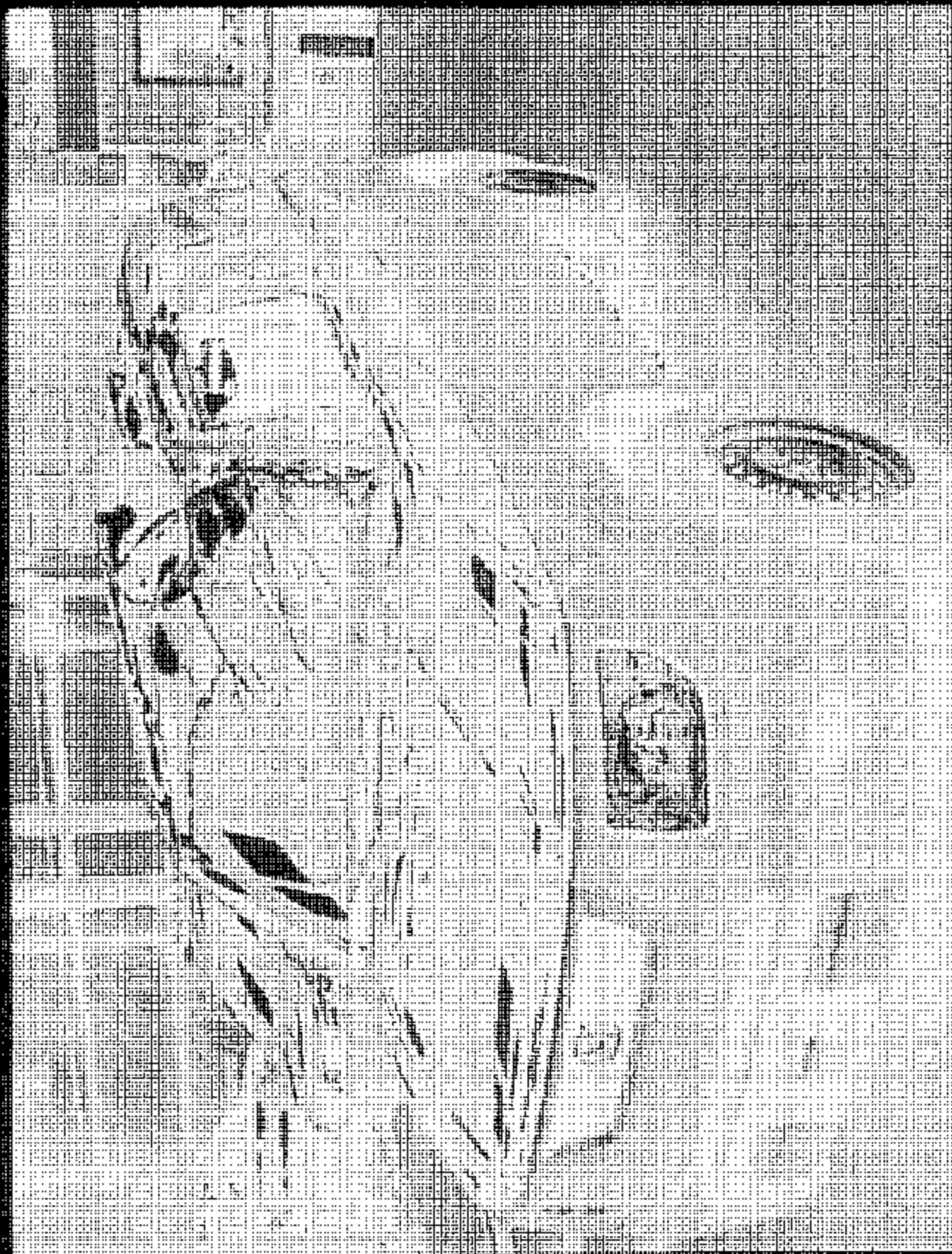


FIGURE 5.34
3/4 LEFT FRONT VIEW POST TEST

2004 HONDA ELEMENT
NHTSA NO. C46309
FMVSS NO. 216

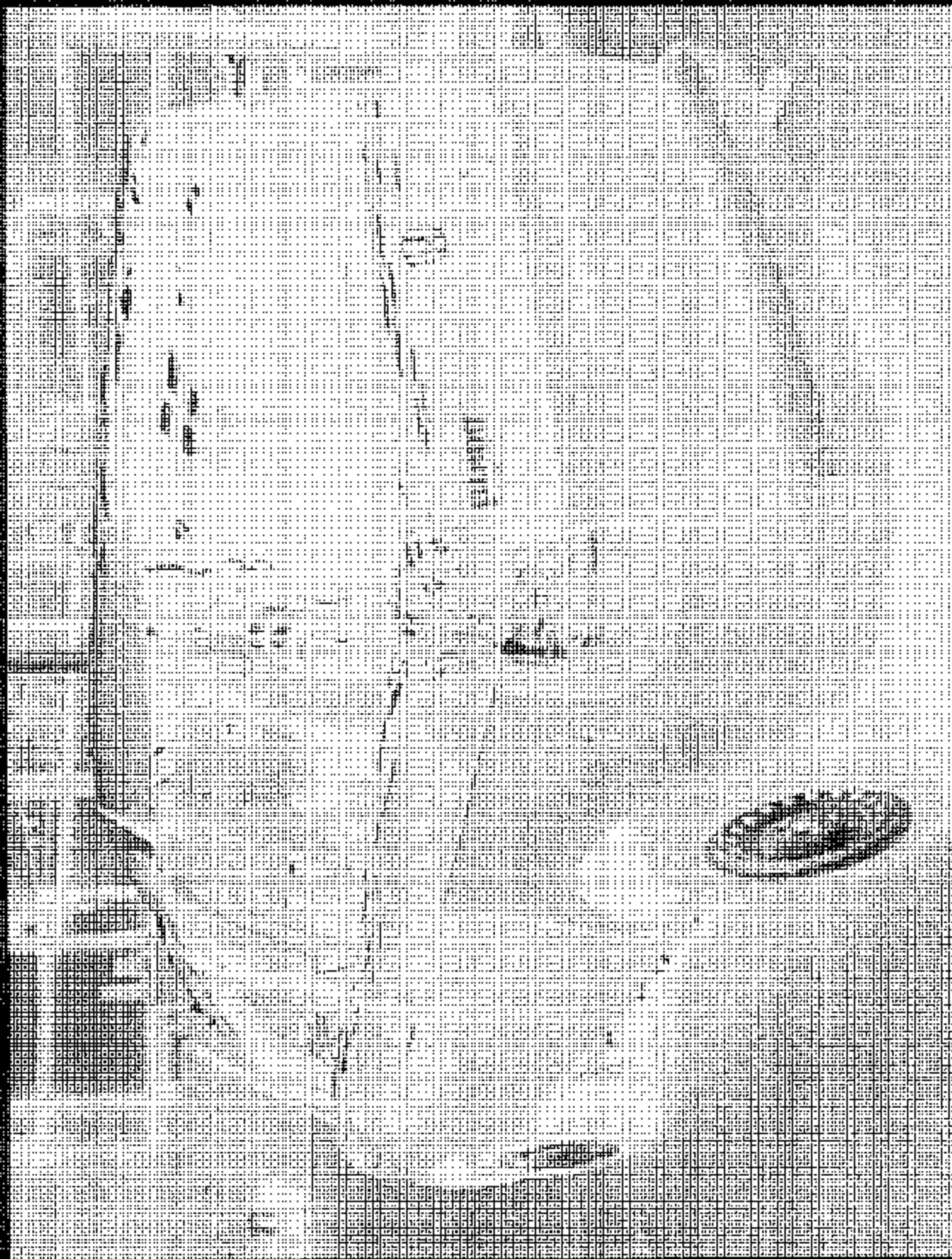


FIGURE 5.15
% LEFT REAR VIEW POST TEST

2004 HONDA ELEMENT
NHTSA NO. C45300
FMVSS NO. 216

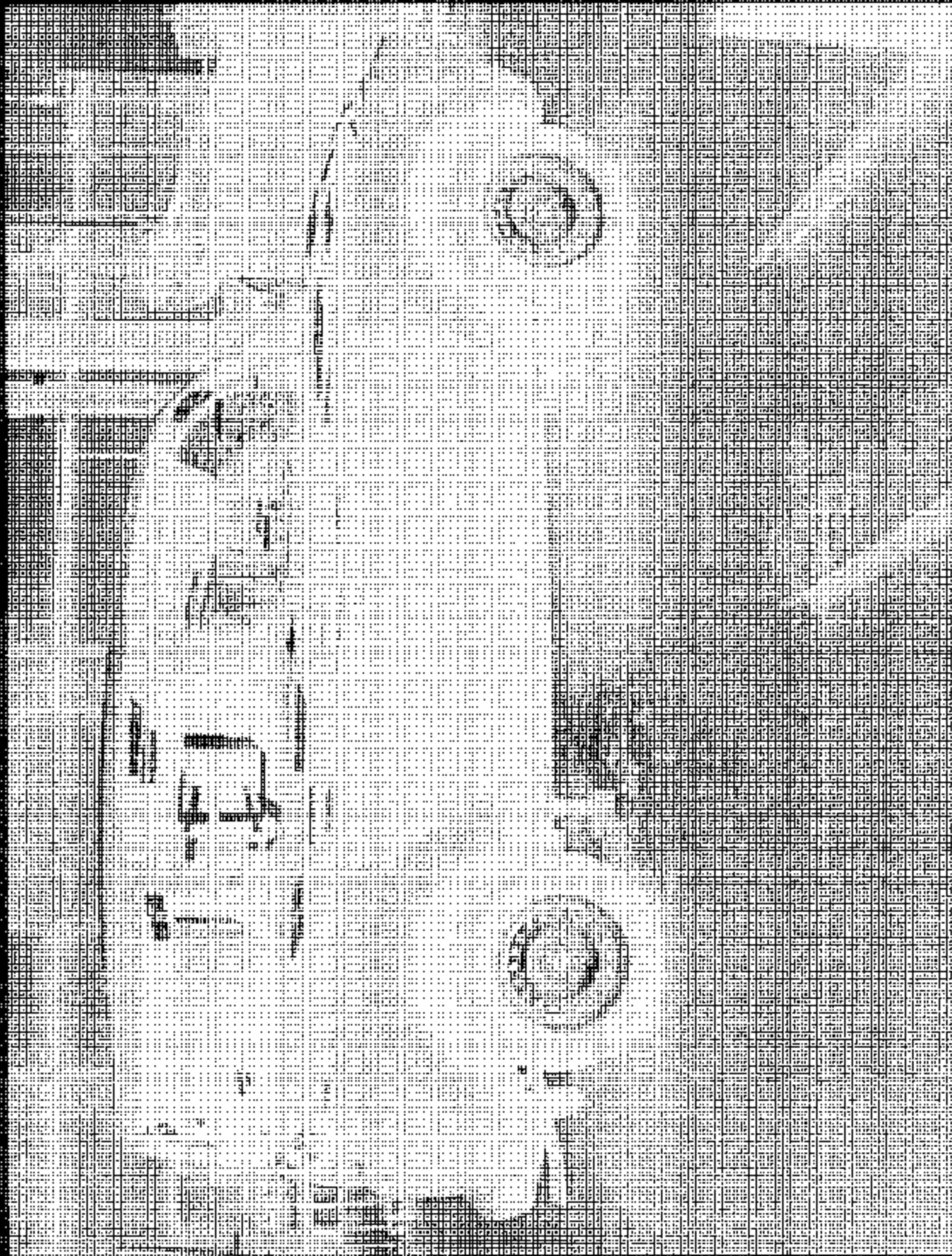


FIGURE 6.38
RIGHT SIDE VIEW POST TEST

2004 HONDA ELEMENT
NHTSA NO. C45300
FMVSS NO. 216



FIGURE 5.37
ROOF CLOSE-UP POST TEST

2004 HONDA ELEMENT
NHTSA NO. C45300
FMVSS NO. 219

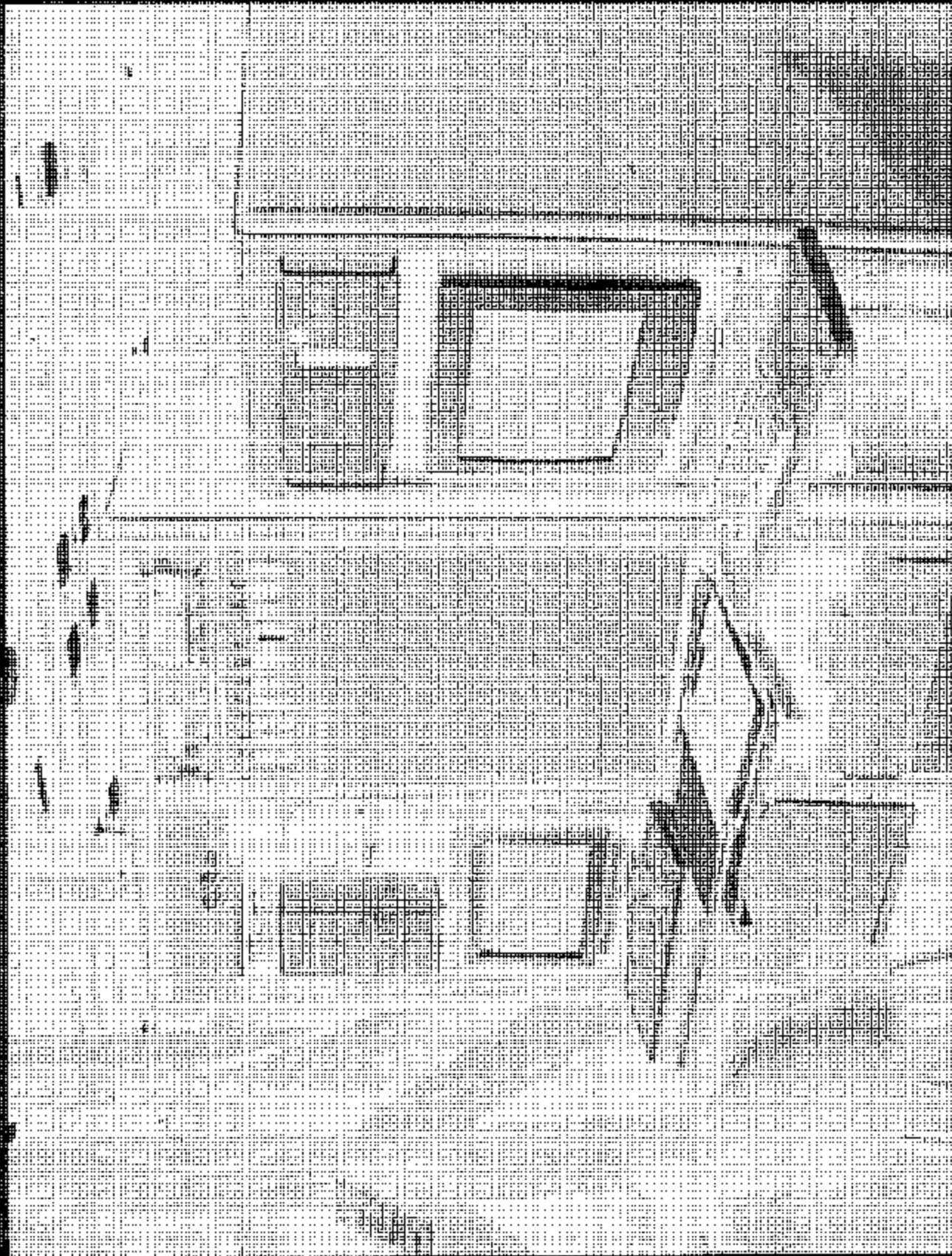


FIGURE 5-38
218 INSTRUMENTATION SET-UP

2004 HONDA ELEMENT
NHTSA NO. C-46300
FMVSS NO. 218

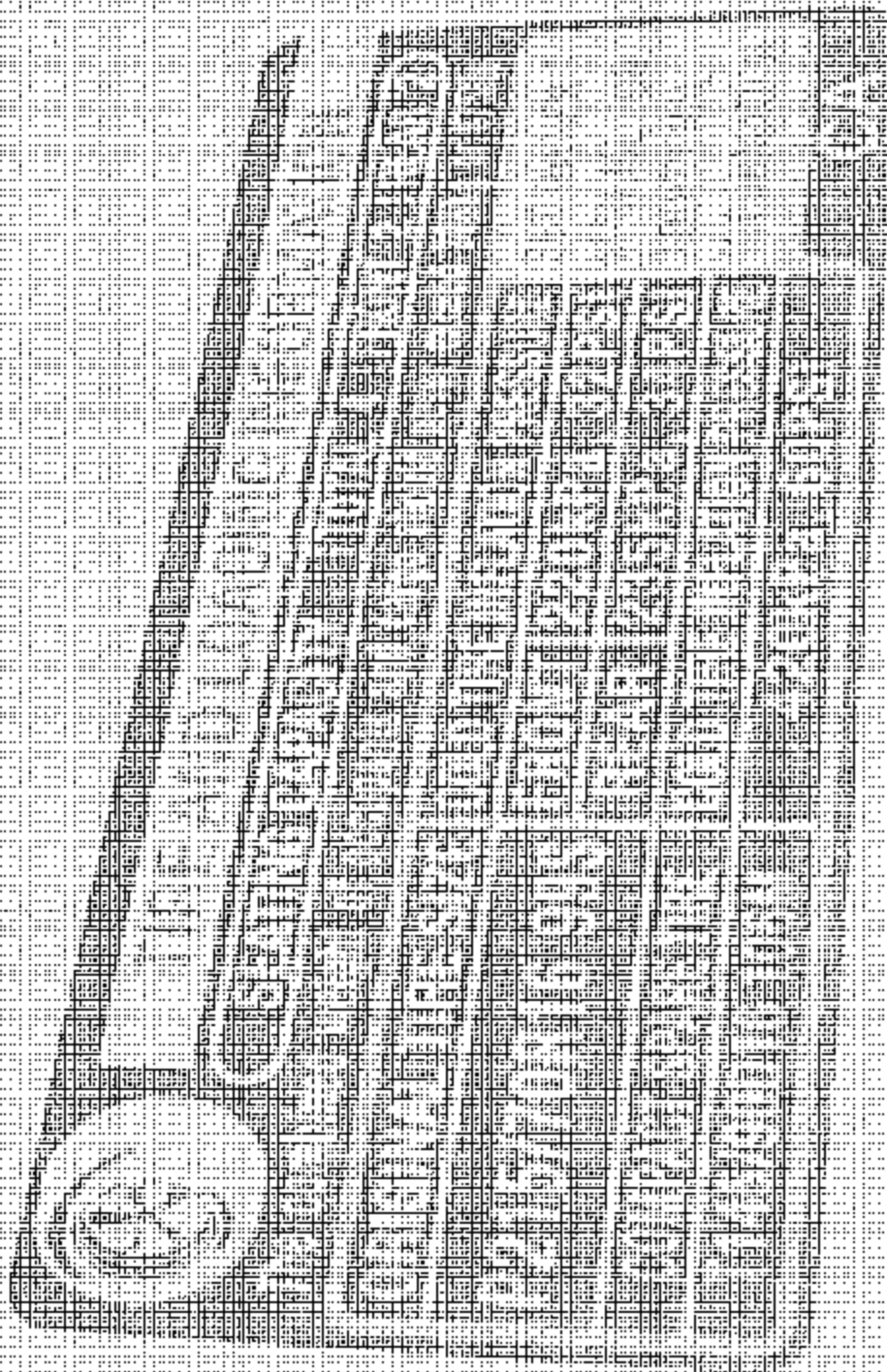


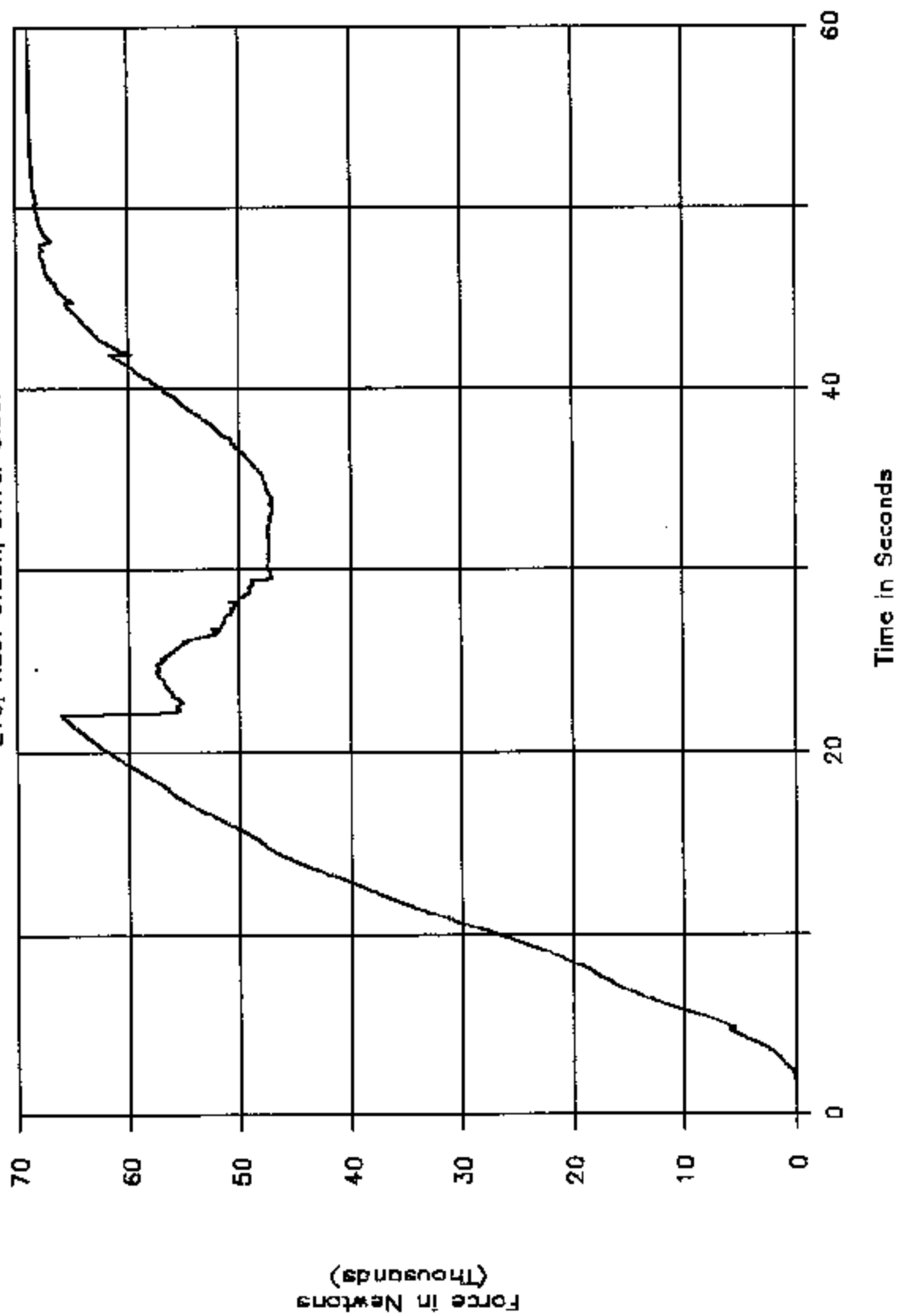
FIGURE 5-40
CLOSE-UP VIEW OF VEHICLE TIRE
INFORMATION LABEL

2004 HONDA ELEMENT
NHTSA NO. C46300
FHVSS NO. 216

SECTION 6
TEST PLOTS

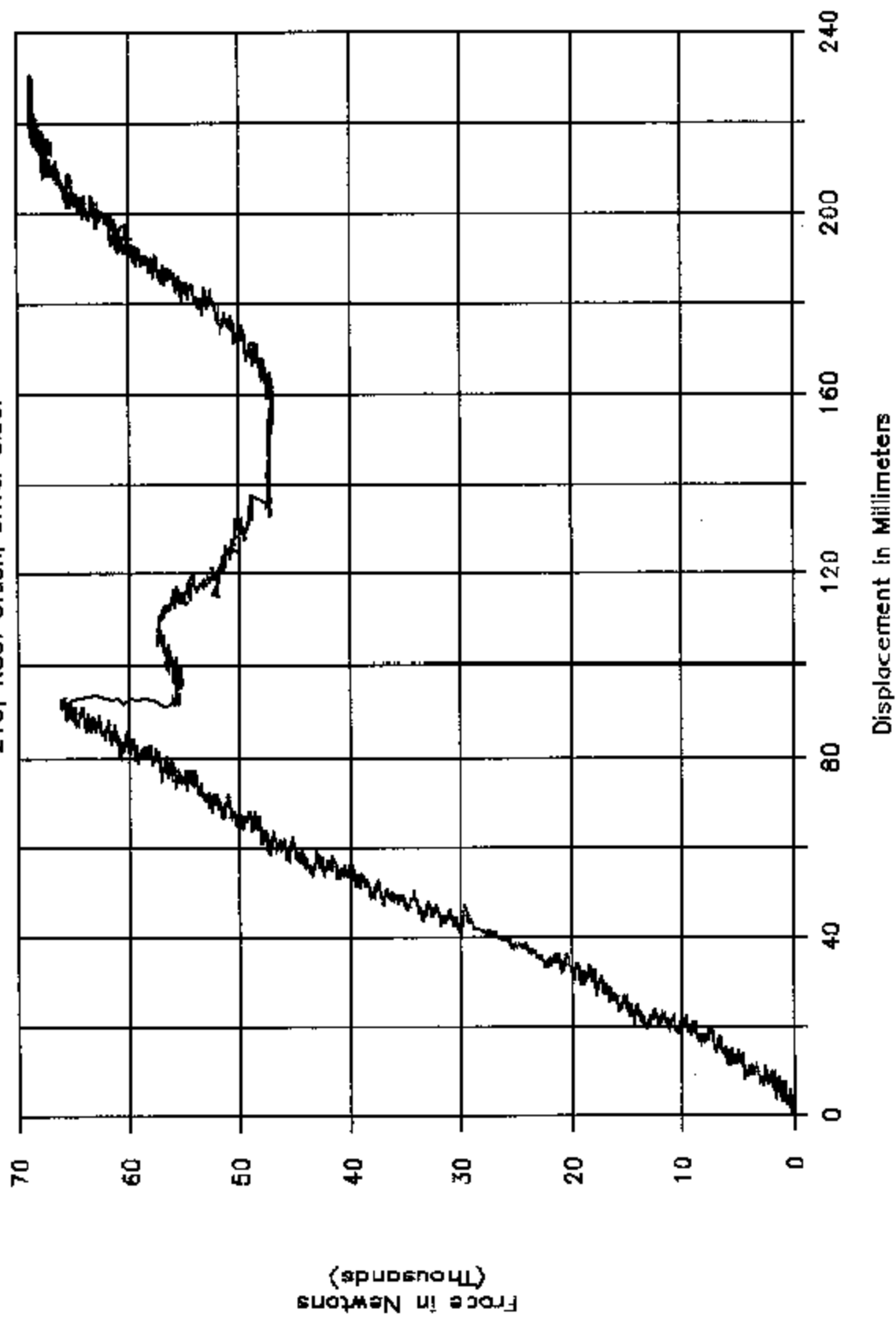
GTL 5198

216, Roof Crush, Driver Side.



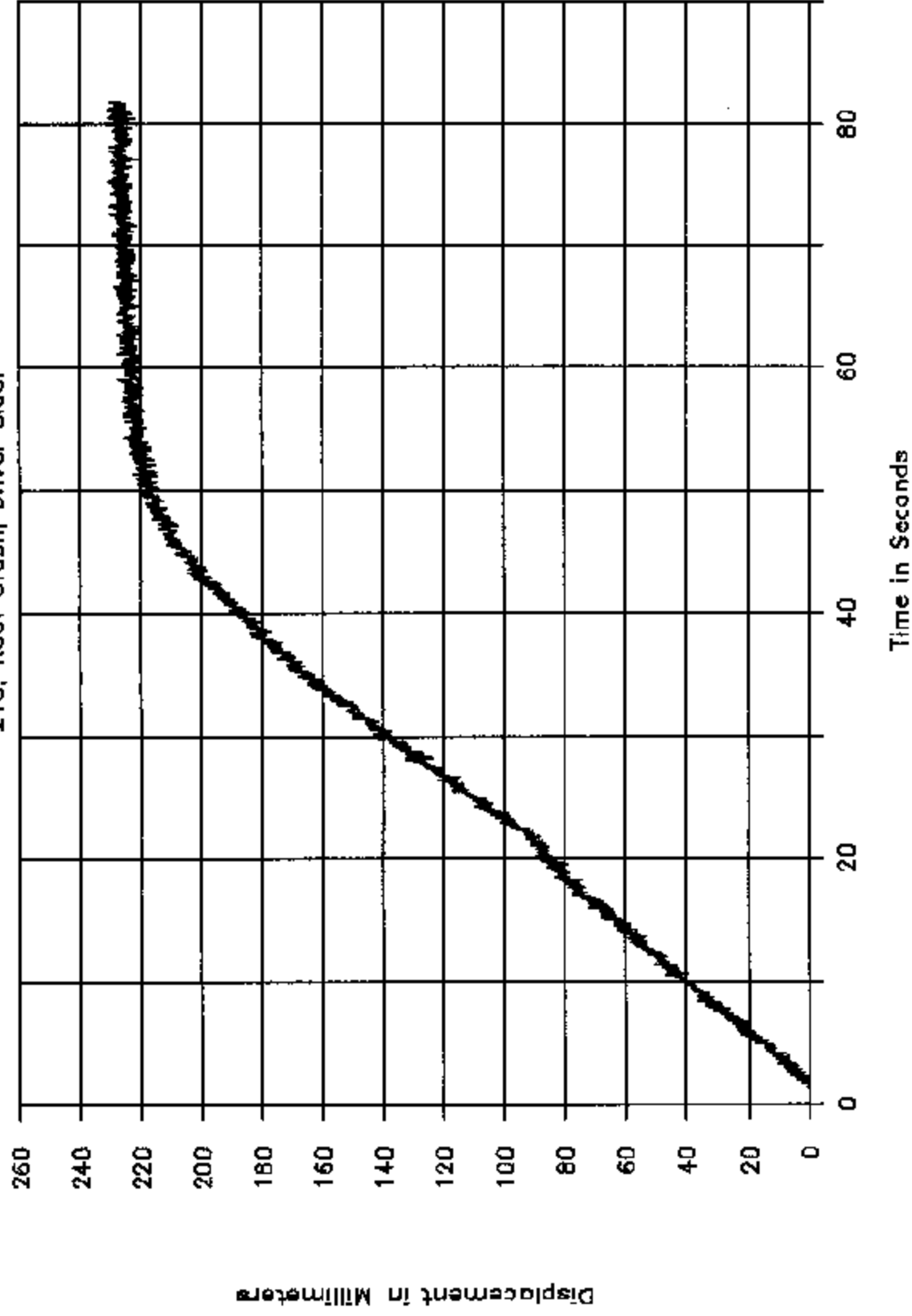
GTL 5198

216, Roof Crush, Driver Side.



GTL 5198

216, Roof Crush, Driver Side.



GTL 5198

216, Roof Crush, Driver Side.

