036548

REPORT NUMBER 301L-GTL-03-001

SAFETY COMPLIANCE TESTING FOR FMVSS NO. 301L FUEL SYSTEM INTEGRITY

HONDA OF CANADA MFG.
2003 HONDA PILOT EX MPV
NHTSA NO. C35300

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

JUNE 04, 2003

FINAL REPORT

PREPARED FOR

U. S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
400 SEVENTH STREET, SW
ROOM 6111 (NVS-220)
WASHINGTON, D.C. 20590

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Approved By: Gant Grimes

Approval Date: 06/04/03

FINAL REPORT ACCEPTANCE BY OVSC:

Accepted By:

Acceptance Date: 6/16/03

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Final Report of FMVSS 301L Compliance Testing of 2003 HONDA PILOT EX, MPV NHTSA No. C35300	June 04, 2003 6. Performing Organ. Code GTL
7. Author(s) Grant Farrand, Project Engineer Debbie Messick, Project Manager	8. Performing Organ. Rep# GTL-DOT-03-301L-001
9. Performing Organization Name and Address General Testing Laboratories, Inc. 1623 Leedstown Road Colonial Beach, Va 22443	10. Work Unit No. (TRAIS) N/A 11. Contract or Grant No. DTNH22-01-C-11025
12. Sponsoring Agency Name and Address U.S. Department of Transportation National Highway Traffic Safety Admin. Safety Enforcement Office of Vehicle Safety Compliance (NVS-220) 400 7th Street, S.W., Room 6111 Washington, DC 20590	13. Type of Report and Period Covered Final Test Report May 13, 2003 14. Sponsoring Agency Code NVS-221

15. Supplementary Notes

16. Abstract

Compliance tests were conducted on the subject, 2003 Honda Pilot EX MPV in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-301-02 for the determination of FMVSS 301 compliance.
Test failures identified were as follows:
NONE

17. Key Words	18. Distribution Statement
Compliance Testing Safety Engineering FMVSS 301	Copies of this report are available from NHTSA NHTSA Technical Reference Div., Rm. 5108 (NPO-230) 400 7th St., S.W. Washington, DC 20590 Telephone No. (202) 366-4946

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SECTION 1

PURPOSE OF COMPLIANCE TEST

1.0 PURPOSE OF COMPLIANCE TEST

A 2003 Honda Pilot EX MPV was subjected to Federal Motor Vehicle Safety Standard (FMVSS) No. 301 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 occurring from fires that result from fuel spillage during and after motor vehicle crashes, and resulting from ingestion of fuels during siphoning.

1.1 The test vehicle was a 2003 Honda Pilot EX MPV. Nomenclature applicable to the test vehicle are:

A. Vehicle Identification Number: 2HKYF18493H531235

B. NHTSA No.: C35300

C. Manufacturer: HONDA OF CANADA MFG.

D. Manufacture Date: 09/02

1.2 TEST DATE

The test vehicle was subjected to FMVSS No. 301 testing on May 13, 2003.

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-301-02 dated 8 November 1994 and General Testing Laboratories, Inc. (GTL) Test Procedure, TP-301-02, "Fuel System Integrity".

Based on the test performed, the 2003 Honda Pilot EX MPV appears to meet the lateral impact requirements of FMVSS 301 testing.

SECTION 3

COMPLIANCE TEST DATA

3.0 TEST RESULTS

The following data sheets document the results of testing on the 2003 Honda Pilot EX MPV.

SUMMARY OF RESULTS

Vehicle's NHTSA No.: C35300 Test Model: PILOT

Test Date.: 05/13/03 Time: 18:19 Temperature 70 ° F

Vehicle Model Year, Make, Model and Body Style:
2003 HONDA PILOT EX MPV

Vehicle Test Weight: 4835 lbs.; Impact Velocity: 19.4 mph

Type of Front Occupant Restraint System Installed in Test Vehicle:

Driver's DSP: TYPE 2 BELT WITH FRONTAL AIR BAG IN STEERING WHEEL

Right Passenger's DSP: TYPE 2 BELT WITH FRONTAL AIR BAG IN DASH

Stoddard solvent spillage from Vehicle's Fuel System: None

REMARKS:

RECORDED BY: DATE: 05/13/03
APPROVED BY:

DATA SHEET 1
TEST VEHICLE SPECIFICATIONS

TEST VEHICLE INFORMATION:

NHTSA No.: C35300
Year/Make/Model/Body Style:2003 HONDA PILOT EX MPV
Engine Data: 240 HP 3.5 LITERS 24 VALVE V6
Transmission Data: 5 SPEED AUTOMATIC
Final Drive Data: 4 WHEEL DRIVE
Major Options: CRUISE CONTROL, FRONT & REAR CLIMATE CONTROL SYSTEM
Date Received: 02/24/03 ; Odometer Reading: 671 miles

DATA FROM VEHICLE'S CERTIFICATION LABEL:

Vehicle Manufactured By: HONDA OF CANADA
Date of Manufacture: 09/02
VIN: 2HKYF18493H531235

GVWR: 2699 kg (5950 lbs.);GAWR Front: 1299 kg(2865 lbs.)GAWR Rear: 1431 kg (3155 lbs.)

DATA FROM VEHICLE'S TIRE PLACARD:

Location of Placard on Vehicle: DRIVER'S "B" PILLAR
Tire Pressure With Maximum Capacity Vehicle Load —
Front: 32 psi; Rear: 32 psi
Recommended Tire Size: P235/70R16

Recommended Cold Tire Pressure:Front = 220 kPa(32 psi) Rear = 220 kPa (32 psi)
Size of Tires on Test Vehicle: P235/70R16
Type of Spare Tire: SPACE SAVER P155/90T16 110M

Vehicle Capacity Data —

Type of Front Seat(s): BUCKET
Number of Occupants: Front = 2 ; Mid = 3 Rear = 3 ; Total = 8

A. VEHICLE CAPACITY WEIGHT (VCW) =	1322	lbs.
B. Number of Occupants x 150 lbs. =	1200	lbs.
RATED CARGO AND LUGGAGE WEIGHT (RCLW) = A - B =	122	lbs.

RECORDED BY: _____ DATE: 05/13/03
APPROVED BY: _____

DATA SHEET 2
PRE-TEST DATA

WEIGHT OF TEST VEHICLE:

A. As Received At Laboratory (Maximum Fluids) —

Right Front = 546.57 kg (1205 lbs.) Right Rear = 489.87 kg (1080 lbs.)

Left Front = 562.45 kg (1240 lbs.) Left Rear = 393.71 kg (868 lbs.)

TOTAL FRONT = 1109.02 kg (2445 lbs.) TOTAL REAR = 883.58 kg (1948 lbs.)

% of TOTAL = 55.6 % % of TOTAL = 44.34 %

TOTAL DELIVERED WEIGHT = 1992.63 kg (4393 lbs.)

B. Calculation of Target Test Weight —

1. Total Delivered Weight = 1992.63 kg (4393 lbs.)

2. Rated Cargo & Lugg. Weight (RCLW) = 55.33 kg (122 lbs.)

3. Weight of 2 Dummies (164 lbs. each) = 149 kg (328 lbs.)

TARGET TEST WEIGHT = 1 + 2 + 3 = 2401 kg (4843 lbs.)

C. Vehicle, Dummies and 79.37 kg (175 lbs.) of Cargo Weight —

Right Front = 569.25 kg (1255 lbs) Right Rear = 571.97 kg (1261 lbs)

Left Front = 589.67 kg (1300 lbs) Left Rear = 462.21 kg (1019 lbs)

TOTAL FRONT = 1158 kg (2555 lbs) TOTAL REAR = 1034 kg (2280 lbs)

% of TOTAL = 53 % % of TOTAL = 47 %

TOTAL TEST WEIGHT = 2193 kg (4835 lbs)

Weight of Ballast secured in cargo area = 56.69 kg (125 lbs)
Type of Ballast: SAND BAGS
Method of Securing Ballast: VEHICLE CARGO TIE DOWN HOOKS
Vehicle Components Removed for Weight Reduction:
NONE

DATA SHEET 2
PRE-TEST DATA CONTINUED

TEST VEHICLE ATTITUDE:

As Delivered —	Right Front:	855 mm (33.6 inches)
	Left Front:	850 mm (34.5 inches)
	Right Rear:	850 mm (34.5 inches)
	Left Rear:	840 mm (33.1 inches)
As Tested —	Right Front:	843 mm (33.2 inches)
	Left Front:	838 mm (32.9 inches)
	Right Rear:	820 mm (32.3 inches)
	Left Rear:	811 mm (31.9 inches)

Vehicle's Wheelbase = 2700 mm (106 inches)

FUEL SYSTEM DATA:

Fuel System Capacity Listed in Owner's Manual = 73.05 liters (19.3 gallons)
Usable Capacity Figure Furnished By COTR = 72.67 liters (19.2 gallons)

Test Volume Range (91 to 94% of Usable Capacity) — 92.5%

66.13 liters (17.47 gallons) TO 68.28 liters (18.04 gallons)

ACTUAL TEST VOLUME = 67.38 liters (17.8 gallons) (with entire fuel system filled)

Test Fluid Type: Stoddard solvent
Test Fluid Specific Gravity: .7583
Test Fluid Kinematic Viscosity: 1.7 centistokes at 77° F
Test Fluid Color: BLUE ("red" is preferred)
Type of Vehicle Fuel Pump: IN TANK ELECTRIC
Electric Fuel Pump Operation with Ignition Switch ON and Engine OFF — YES

Details of Fuel System: HIGH PRESSURE ELECTRIC FUEL PUMP TO SUPPLY FUEL INJECTORS WITH LOW PRESSURE RETURN LINE TO FUEL TANK.

REMARKS:

RECORDED BY: [signature] DATE: 05/13/03
APPROVED BY: [signature]

DATA SHEET 3
POST IMPACT DATA

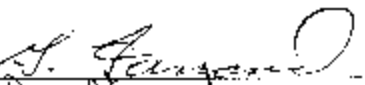
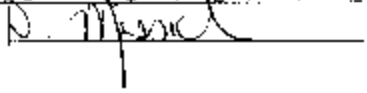
TYPE OF TEST: 301L
TEST DATE: 05/13/03 ; TIME: 18:19 ; TEMP.: 70 °F
VEH. NHTSA NO.: C35300 ; VIN: 2HKYF18493H531235

REQUIRED IMPACT VELOCITY RANGE: 18.9 to 19.9 mph

ACTUAL IMPACT VELOCITY: (speed traps located within 5 feet of impact plane)

Trap No. 1 = 19.4 mph Trap No. 2 = 19.4 mph
Average Impact Speed = 19.4 mph

REMARKS:

RECORDED BY:  DATE: 05/13/02
APPROVED BY: 

DATA SHEET 4
SUMMARY OF FMVSS 301 DATA

TEST VEHICLE NHTSA NO.: C35300 ; TEST DATE: 05/13/03

VEHICLE YEAR/MAKE/MODEL/BODY STYLE:
2003 HONDA PILOT EX MPV

TYPE OF IMPACT: 301L

STODDARD SOLVENT SPILLAGE MEASUREMENT:

A. From impact until vehicle motion ceases —

Actual = 0 oz. Maximum Allowable = 1 ounce

B. For 5 minute period after vehicle motion ceases —

Actual = 0 oz. Maximum Allowable = 5 ounces

C. For next 25 minutes —

Actual = 0 oz. Maximum Allowable = 1 oz./minute

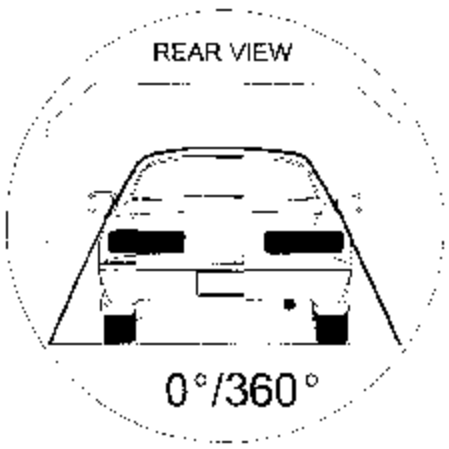
D. Provide Spillage Details: NONE

REMARKS:

RECORDED BY: _____ DATE: 05/13/03
APPROVED BY: _____

DATA SHEET 5
STATIC ROLLOVER TEST DATA:

A. Test Phase = 0° to 90°



Determination of Stoddard Solvent Collection Time Period:

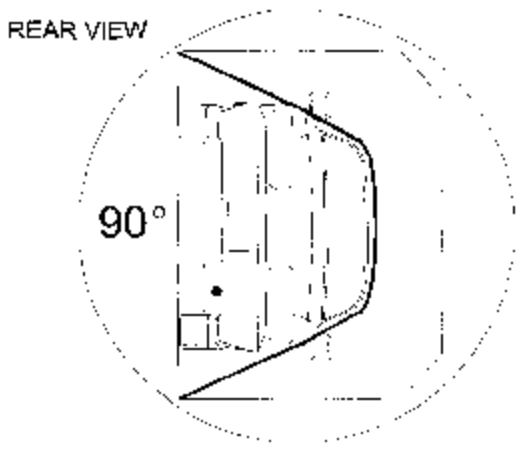
1. Rollover Fixture 90° Rotation Time = 1 minutes, 33 seconds

(Specified Range is 1 to 3 minutes)

2. FMVSS 301 Position Hold Time = 5 minutes, 0 seconds

3. TOTAL = 6 minutes, 33 seconds

4. NEXT WHOLE MINUTE INTERVAL = 7 minutes



Actual Test Vehicle Stoddard Solvent Spillage:

1. First 5 minutes from onset of rotation = 0 oz.
(5 oz. allowed)

2. 6th minute = 0 oz.
(1 oz. allowed)

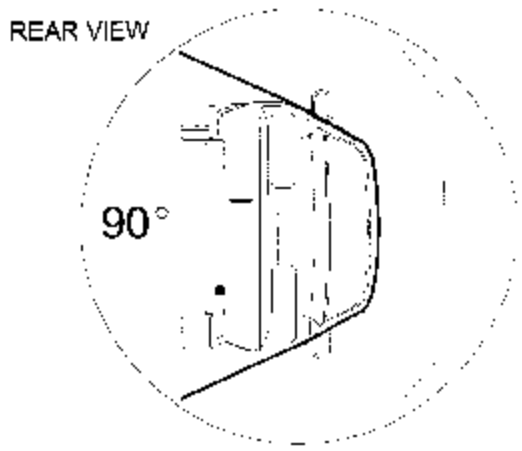
3. 7th minute = 0 oz.
(1 oz. allowed)

4. 8th minute (if required) = N/A oz. (1 oz. allowed)

Provide Details of Stoddard Solvent Spillage Locations — NONE

DATA SHEET 5 CONTINUED

B. Test Phase = 90° to 180°



Determination of Stoddard Solvent Collection Time Period:

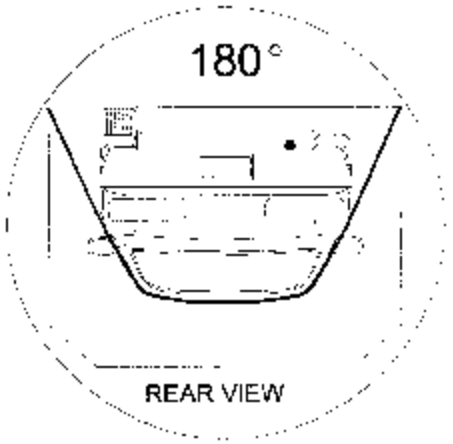
1. Rollover Fixture 90° Rotation Time = 1 minutes, 35 seconds

(Specified Range is 1 to 3 minutes)

2. FMVSS 301 Position Hold Time = 5 minutes, 0 seconds

3. TOTAL = 6 minutes, 35 seconds

4. NEXT WHOLE MINUTE INTERVAL = 7 minutes



Actual Test Vehicle Stoddard Solvent Spillage:

1. First 5 minutes from onset of rotation = 0 oz. (5 oz. allowed)

2. 6th minute = 0 oz. (1 oz. allowed)

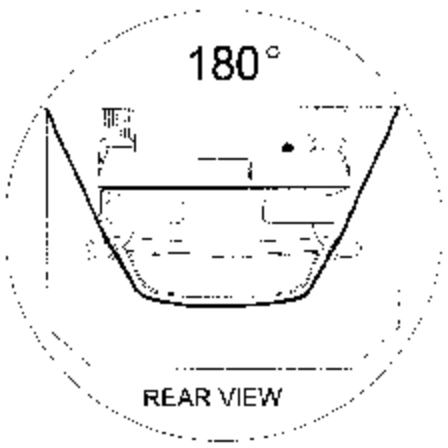
3. 7th minute = 0 oz. (1 oz. allowed)

4. 8th minute (if required) = N/A oz. (1 oz. allowed)

Provide Details of Stoddard Solvent Spillage Locations — NONE

DATA SHEET 5 CONTINUED

C. Test Phase = 180° to 270°



Determination of Stoddard Solvent Collection Time Period:

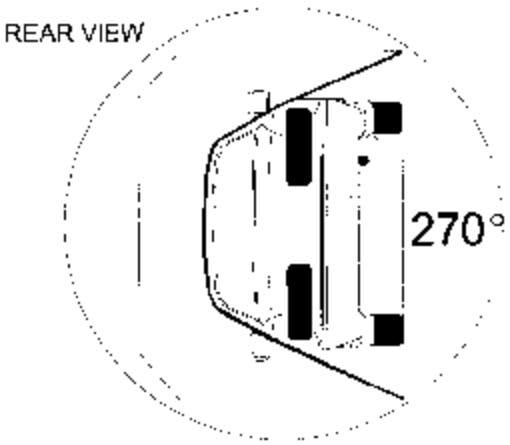
1. Rollover Fixture 90°
Rotation Time = 1 minutes, 28 seconds

(Specified Range is 1 to 3 minutes)

2. FMVSS 301 Position Hold
Time = 5 minutes, 0 seconds

3. TOTAL = 6 minutes, 28 seconds

4. NEXT WHOLE MINUTE INTERVAL = 7 minutes



Actual Test Vehicle Stoddard Solvent Spillage:

1. First 5 minutes from onset of rotation = 0 oz.
(5 oz. allowed)

2. 6th minute = 0 oz.
(1 oz. allowed)

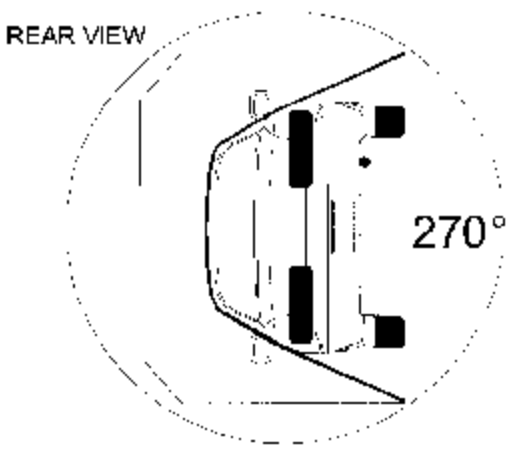
3. 7th minute = 0 oz.
(1 oz. allowed)

4. 8th minute (if required) = N/A oz. (1 oz. allowed)

Provide Details of Stoddard Solvent Spillage Locations — NONE

DATA SHEET 5 CONTINUED

D. Test Phase = 270° to 360°



Determination of Stoddard Solvent Collection Time Period:

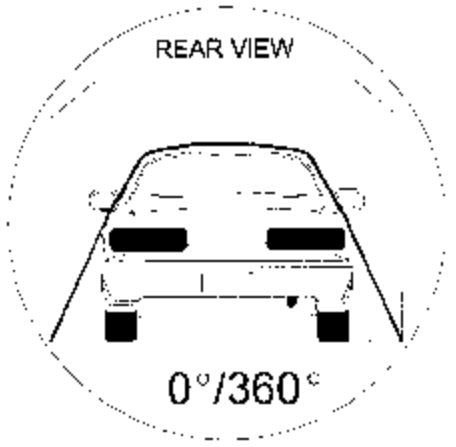
1. Rollover Fixture 90° Rotation Time = 1 minutes, 43 seconds

(Specified Range is 1 to 3 minutes)

2. FMVSS 301 Position Hold Time = 5 minutes, 0 seconds

3. TOTAL = 6 minutes, 43 seconds

4. NEXT WHOLE MINUTE INTERVAL = 7 minutes



Actual Test Vehicle Stoddard Solvent Spillage:

1. First 5 minutes from onset of rotation = 0 oz.
   (5 oz. allowed)

2. 6th minute = 0 oz.
   (1 oz. allowed)

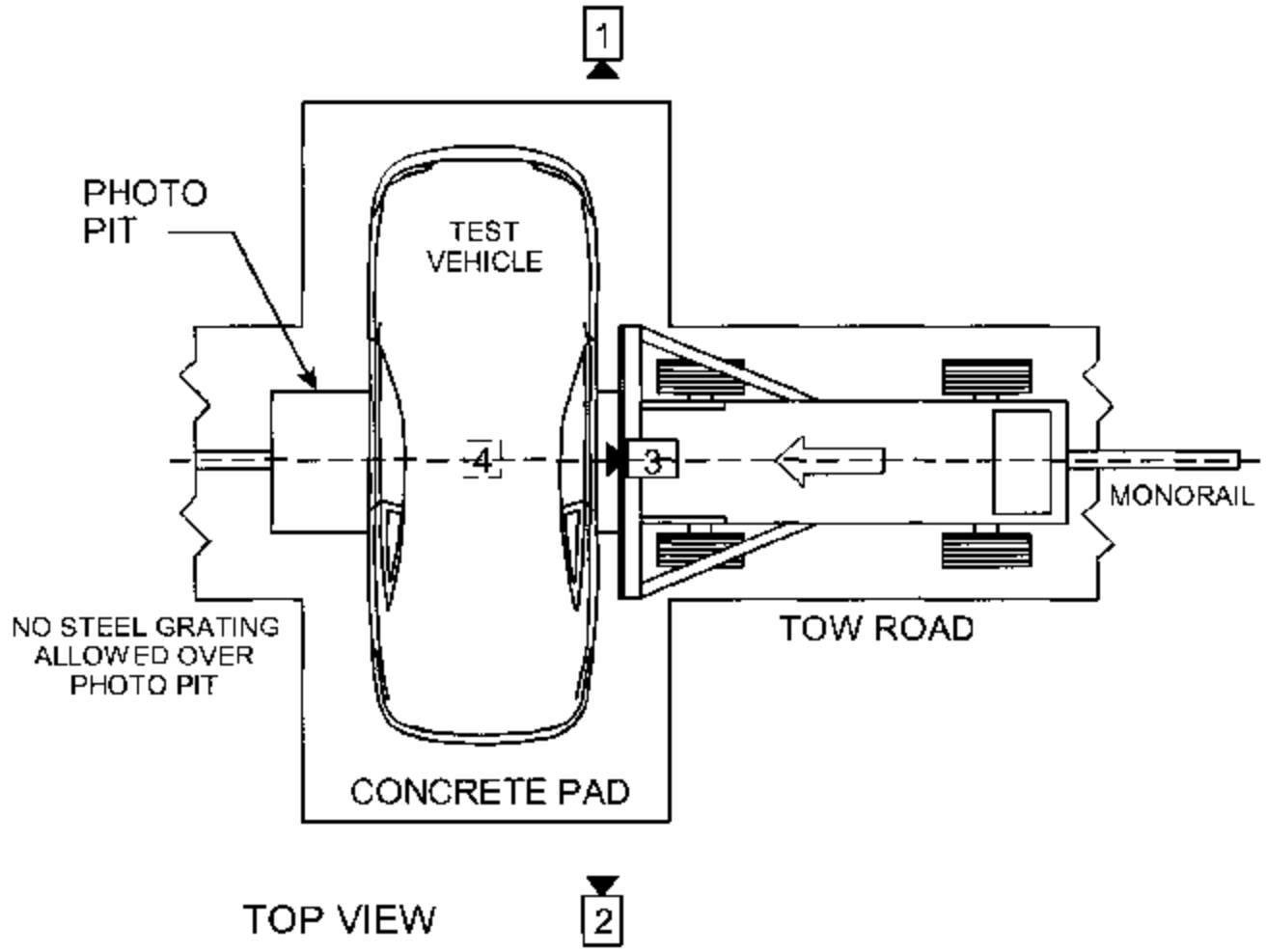
3. 7th minute = 0 oz.
   (1 oz. allowed)

4. 8th minute (if required) = N/A oz. (1 oz. allowed)

Provide Details of Stoddard Solvent Spillage Locations — NONE

DATA SHEET 6
CAMERA LOCATION

VEHICLE NHTSA NO.: C35300 TEST DATE: 05/13/03



CAMERA 1 – REAR SIDE VIEW OF VEHICLE DURING CRASH
CAMERA 2 – FRONT SIDE VIEW OF VEHICLE DURING CRASH
CAMERA 3 – OVERHEAD VIEW OF ENTIRE IMPACT
CAMERA 4 – UNDERBODY VIEW OF FUEL TANK LOCATED IN PIT

SECTION 4
INSTRUMENTATION AND EQUIPMENT LIST

TABLE 1 - INSTRUMENTATION & EQUIPMENT LIST

EQUIPMENT	DESCRIPTION	MODEL/ SERIAL NO.	CAL. DATE	NEXT CAL. DATE
COUNTER/TIMER	SYSTRON DONNER	19 353-10	04/03	04/04
COUNTER/TIMER	SYSTRON DONNER	19 353- 11	03/03	03/04
SPEED TRAP 2	GTL ST1	N/A	08/02	08/03
SPEED TRAP 3	GTL ST2	N/A	08/02	08/03
STOP WATCH	ACCUSPLIT	ACT 1 A&B	05/03	05/04
STOP WATCH	ACCUSPLIT	ACT 2 A&B	05/03	05/04
SCALES	INTERCOMP	199744	05/03	05/04
TIRE PRESSURE GAUGE	WEKSLER	0-100	05/03	05/04
STEEL SCALES	STARRETT	C416R	05/03	05/04
STEEL TAPE	STANLEY	GF2	05/03	05/04
LEVEL	STANLEY	42-449	05/03	05/04
TEMP. INDICATOR	OMEGA	B/5562/14/1	05/03	05/04
TEMP. RECORDER	OMEGA	B/5562/14/1	05/03	05/04
SCALES	FAIRBANKS	N/A	06/02	06/03

SECTION 5

PHOTOGRAPHS

2003 HONDA PILOT
NHTSA NO. C35300
FMVSS NO. 301L

FIGURE 5.1
FRONT VIEW OF VEHICLE PRE-TEST

2003 HONDA PILOT
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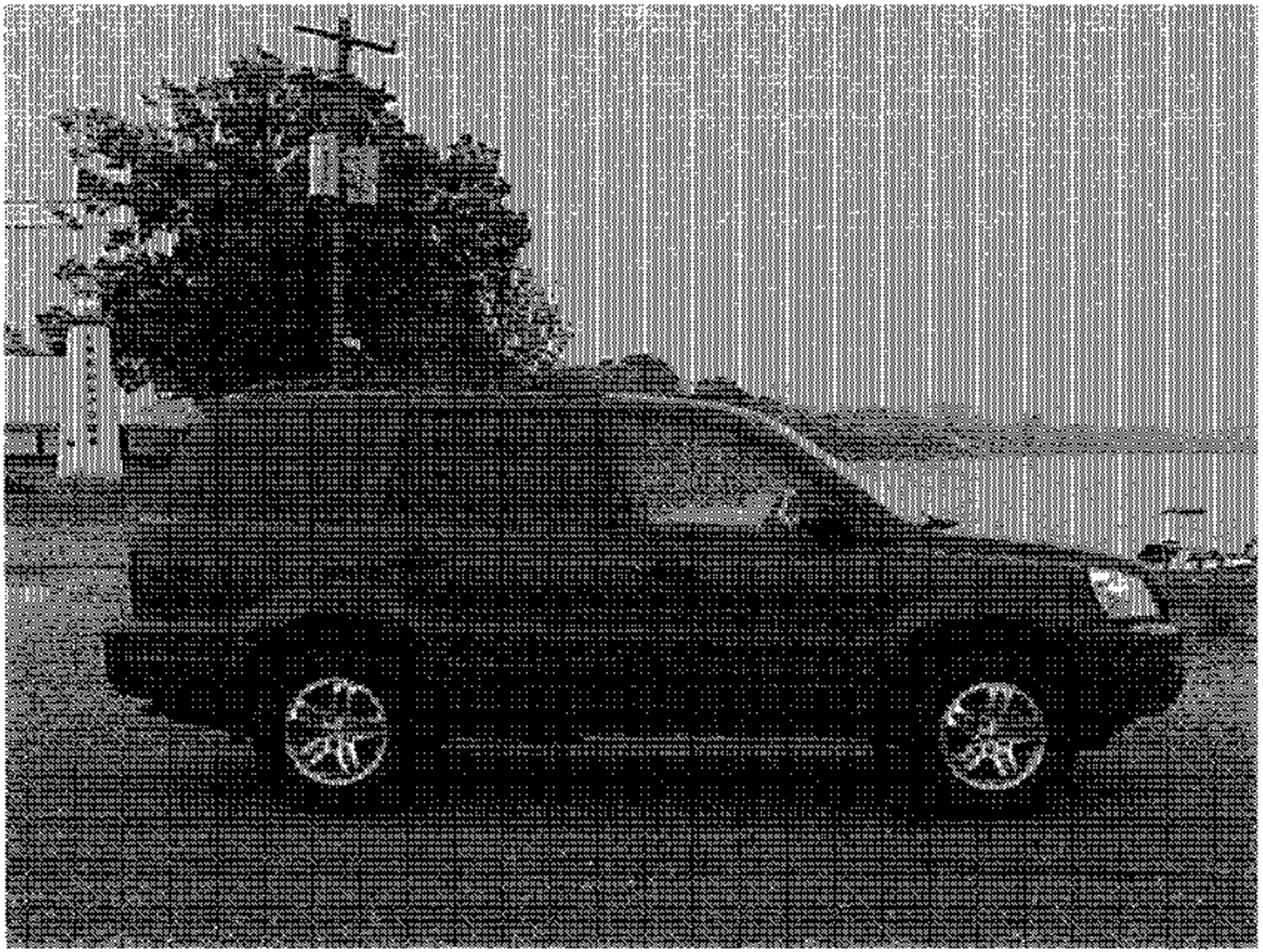
FIGURE 5.2
LEFT SIDE VIEW OF VEHICLE PRE-TEST



2003 HONDA PILOT
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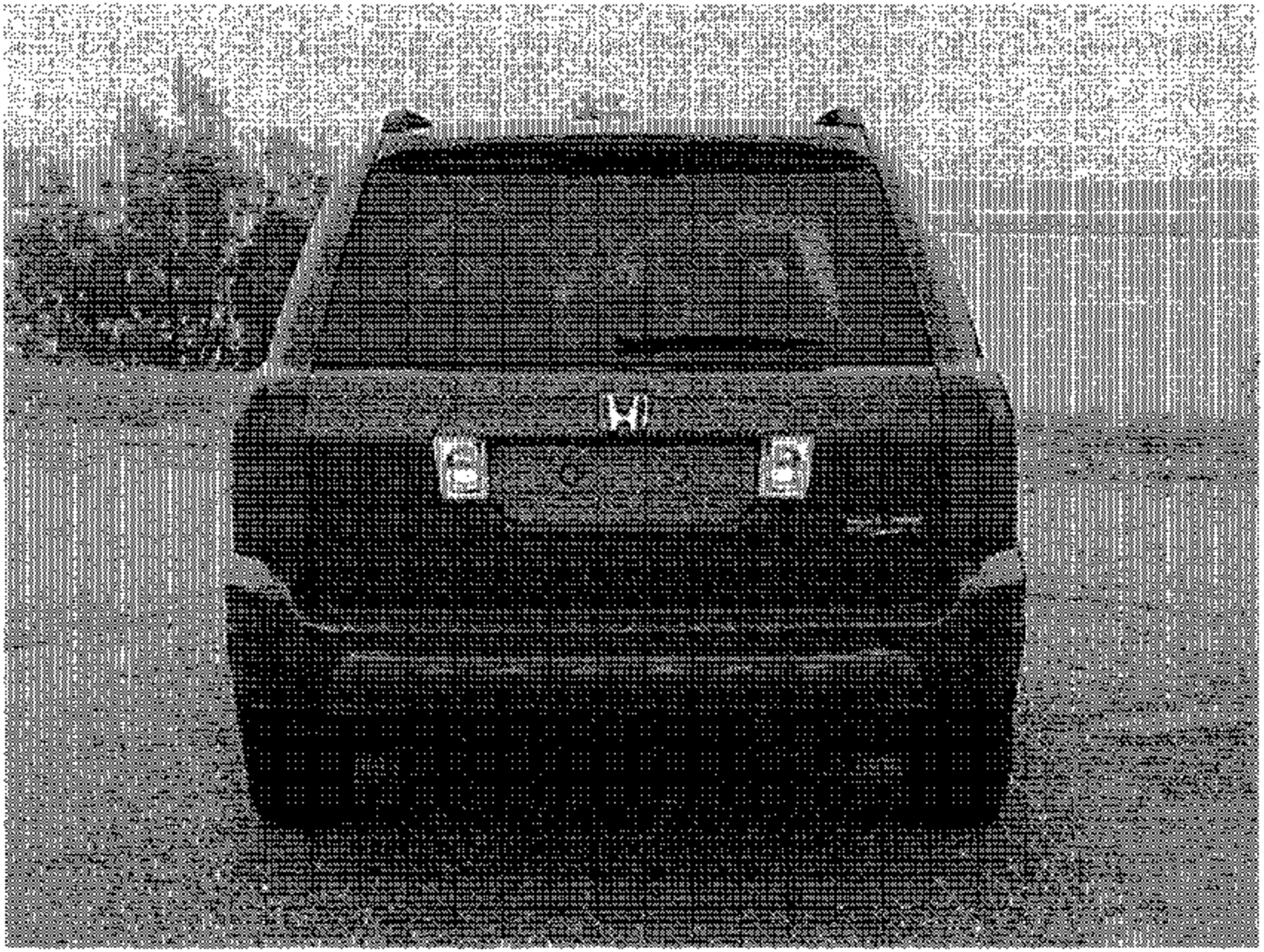
FIGURE 5.3
RIGHT SIDE VIEW OF VEHICLE PRE-TEST



2003 HONDA PILOT
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FIGURE 5.4
REAR VIEW OF VEHICLE PRE-TEST

2003 HONDA PILOT
NHTSA NO. C35300
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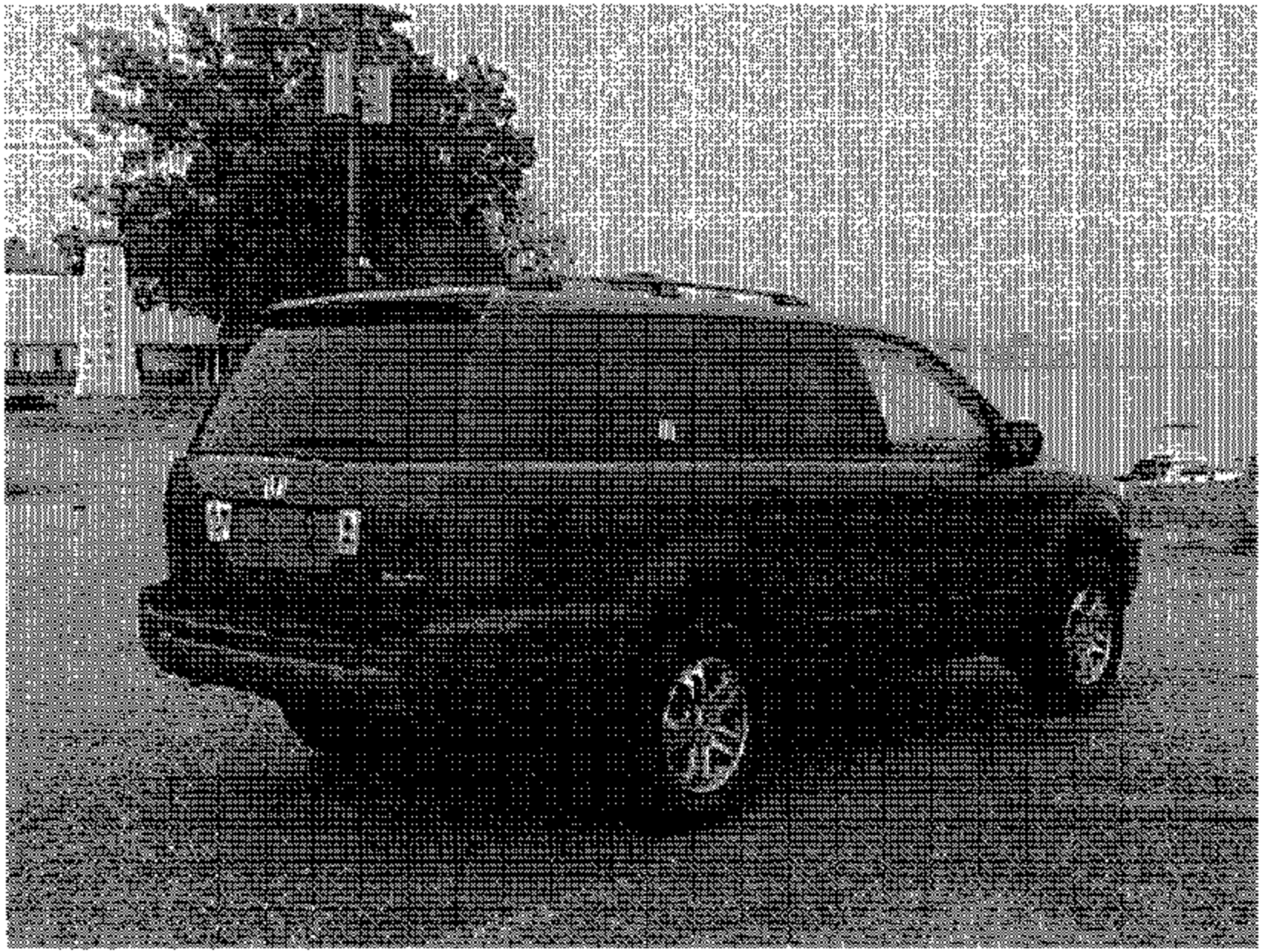
FIGURE 5.5
¾ FRONTAL VIEW FROM LEFT SIDE OF VEHICLE
PRE-TEST



2003 HONDA PILOT
NHTSA NO. C35300
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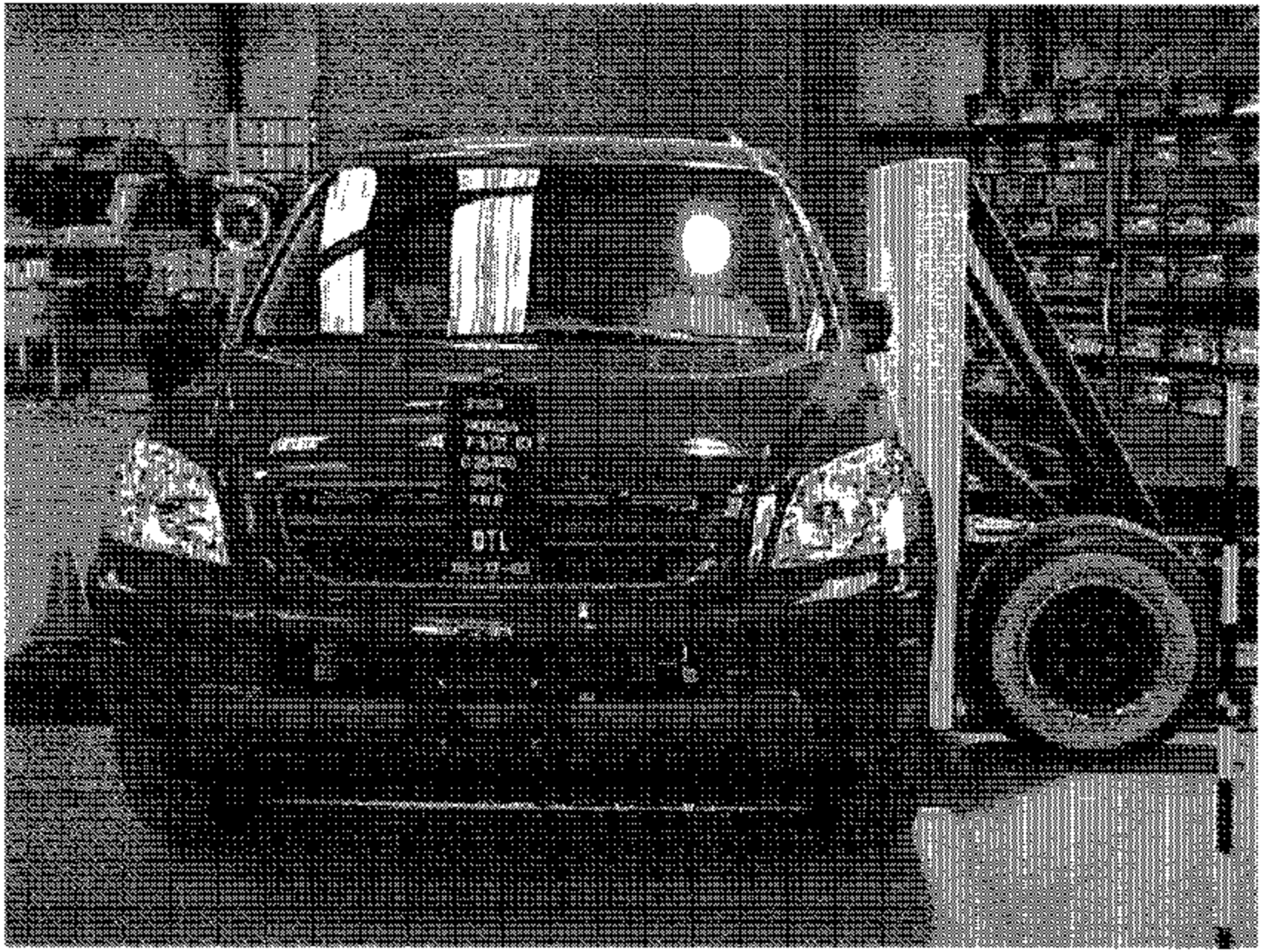
FIGURE 5.6
¾ REAR VIEW FROM RIGHT SIDE OF VEHICLE
PRE-TEST



2003 HONDA PILOT
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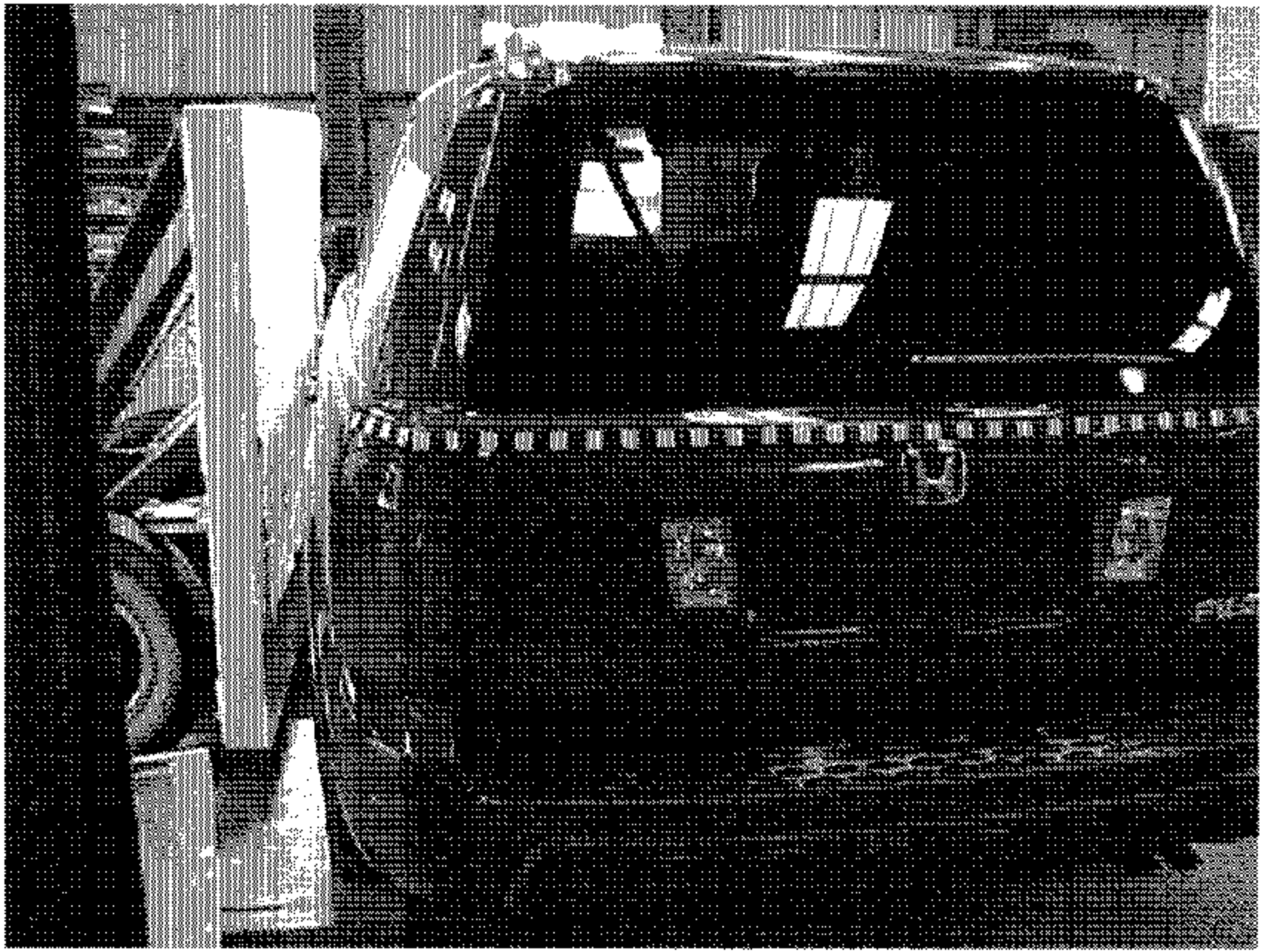
FIGURE 5.7
LEFT VIEW OF VEHICLE/BARRIER PRE-TEST



2003 HONDA PILOT
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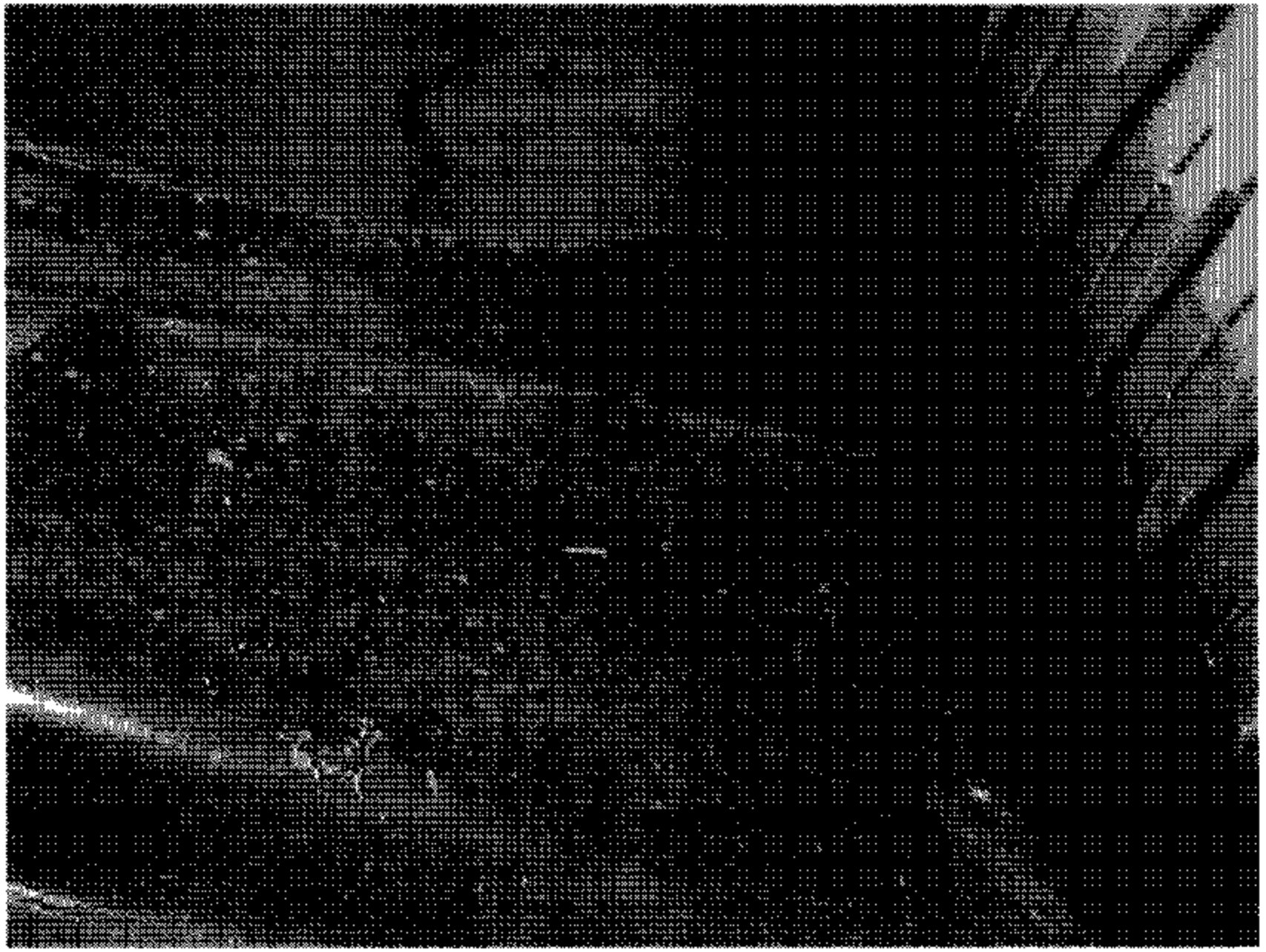
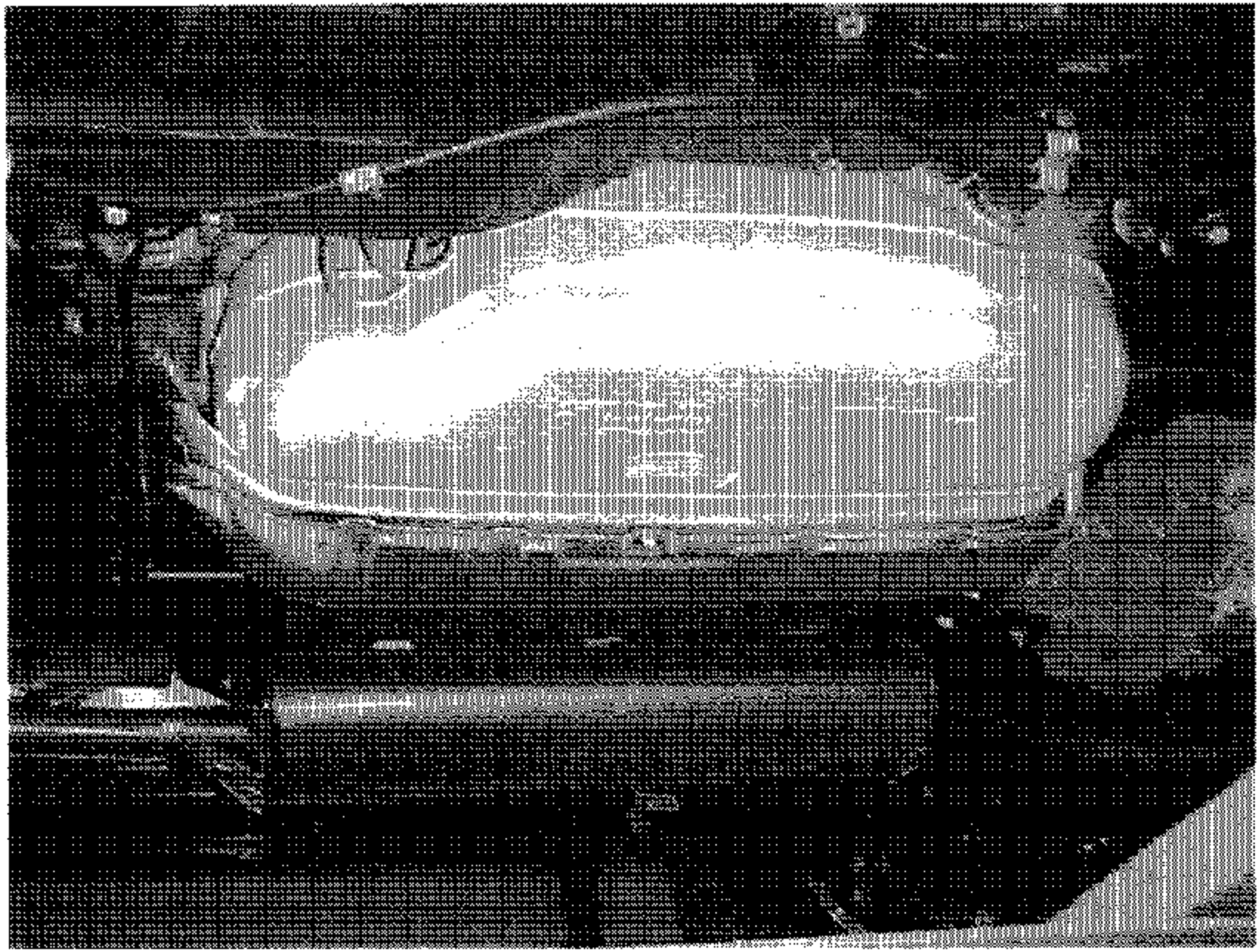
FIGURE 5.8
RIGHT VIEW OF VEHICLE/BARRIER PRE-TEST



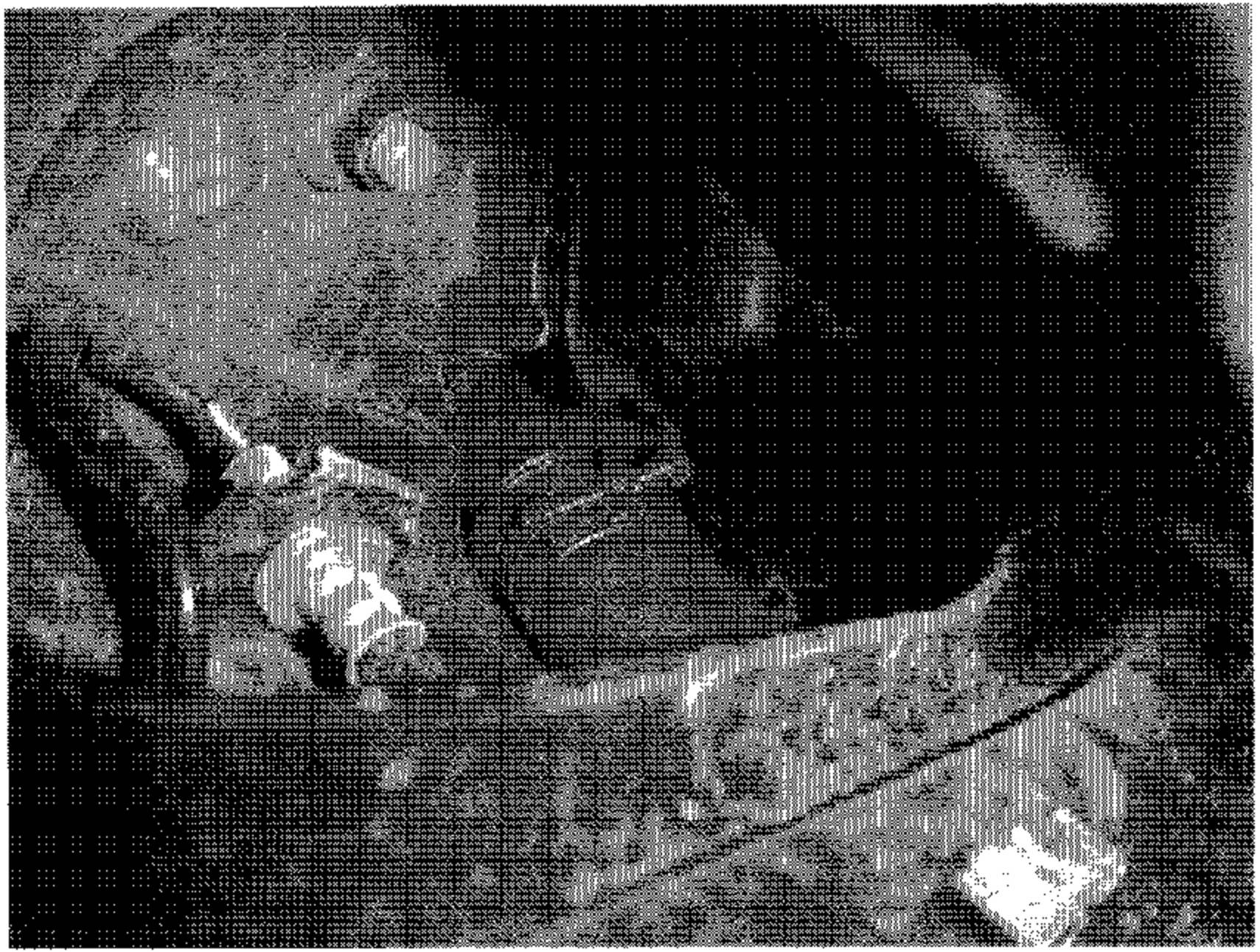
2003 HONDA PILOT
NHTSA NO. C35300
FMVSS NO. 301L

FIGURE 5.9
UNDERBODY VIEW OF FUEL TANK RIGHT VIEW
PRE-TEST



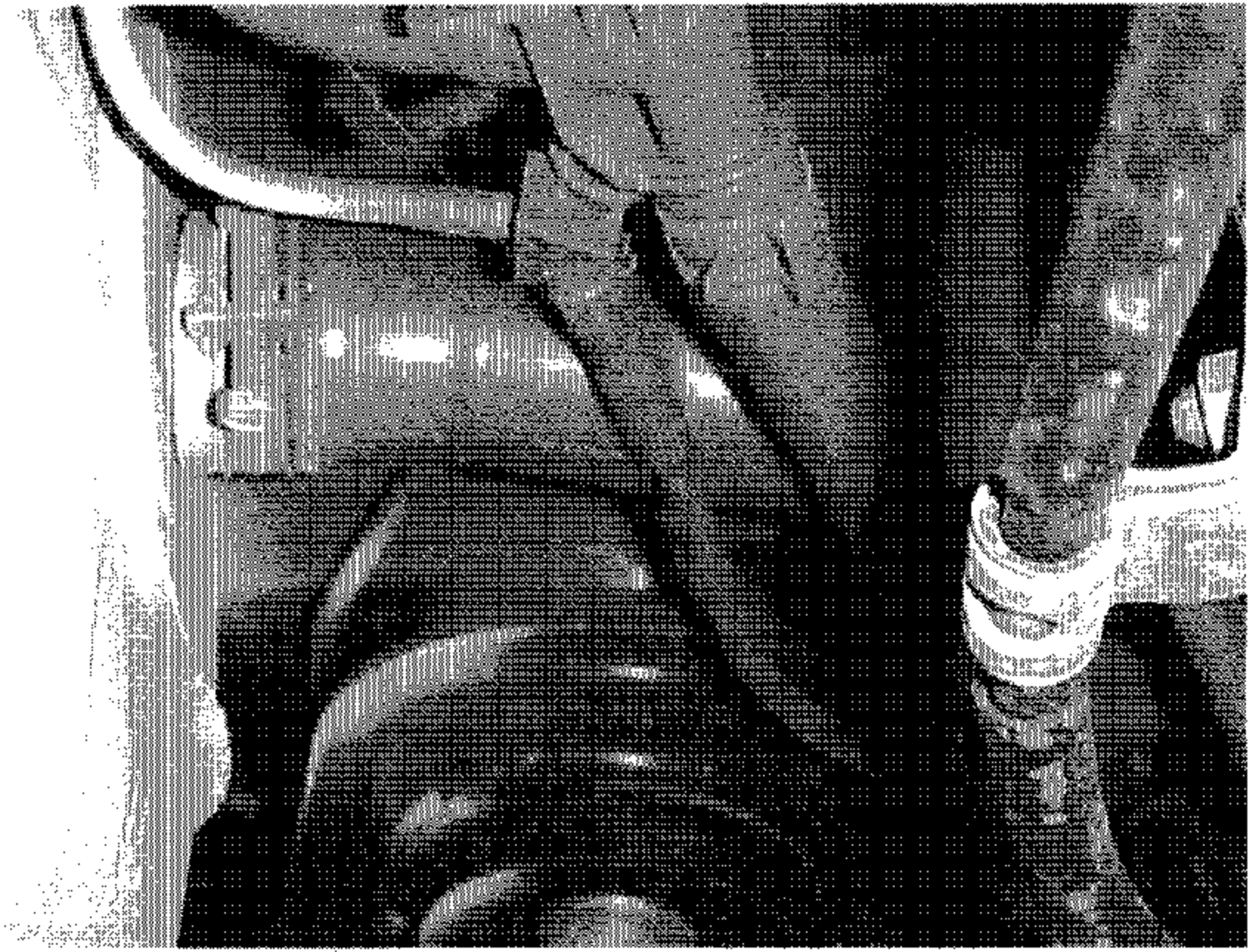
2003 HONDA PILOT
NHTSA NO. C35300
FMVSS NO. 301L

FIGURE 5.10
UNDERBODY VIEW OF FUEL TANK LEFT VIEW
PRE-TEST



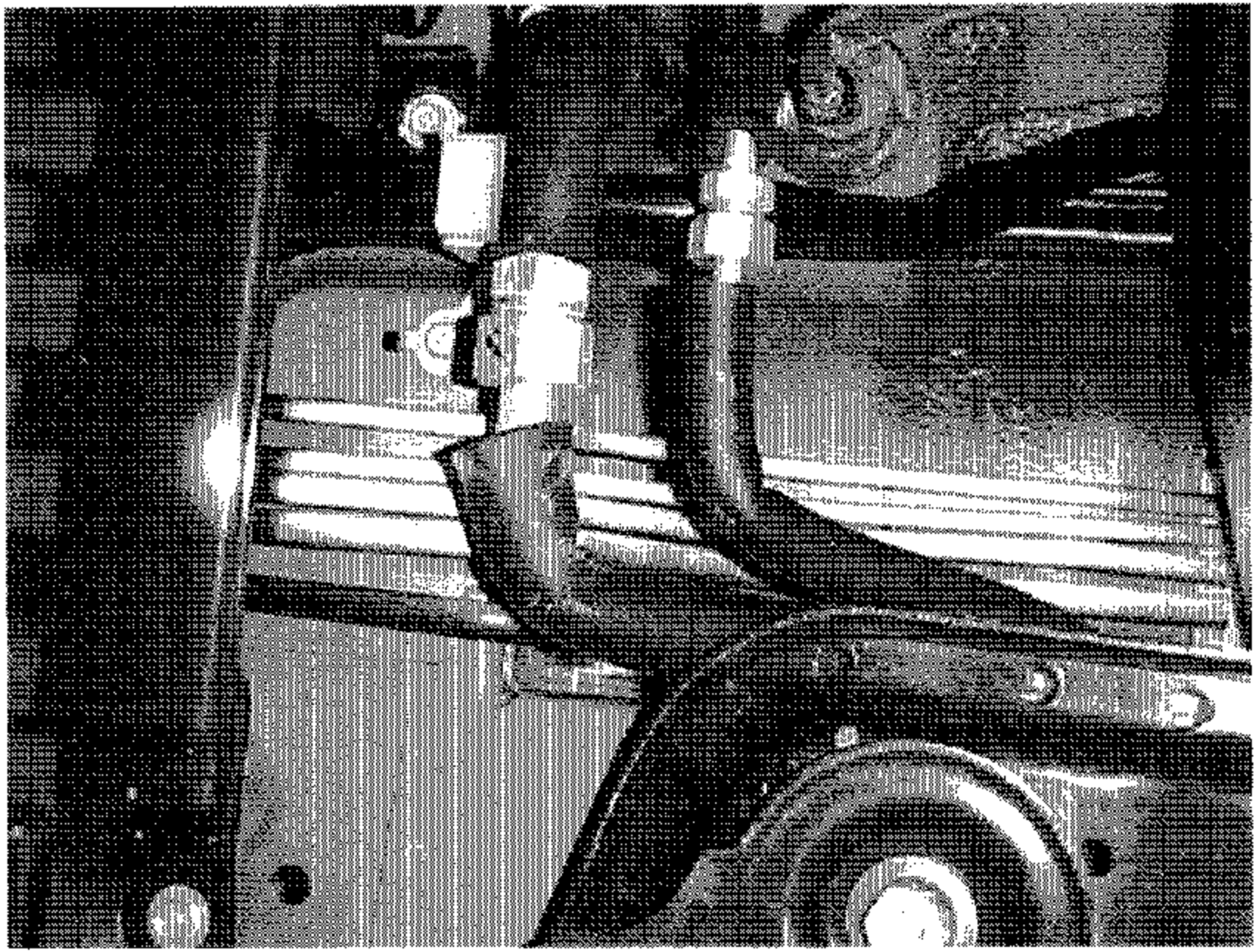
2003 HONDA PILOT
NHTSA NO. C35300
FMVSS NO. 301L

FIGURE 5.11
UNDERBODY VIEW OF FUEL FILL HOSE TOP
PRE-TEST



2003 HONDA PILOT
NHTSA NO. C35300
FMVSS NO. 301L

FIGURE 5.12
UNDERBODY VIEW OF FUEL FILL HOSE BOTTOM
PRE-TEST



2003 HONDA PILOT
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FMVSS NO. 301L

FIGURE 5.13
UNDERBODY VIEW OF FUEL LINES FRONT VIEW
PRE-TEST

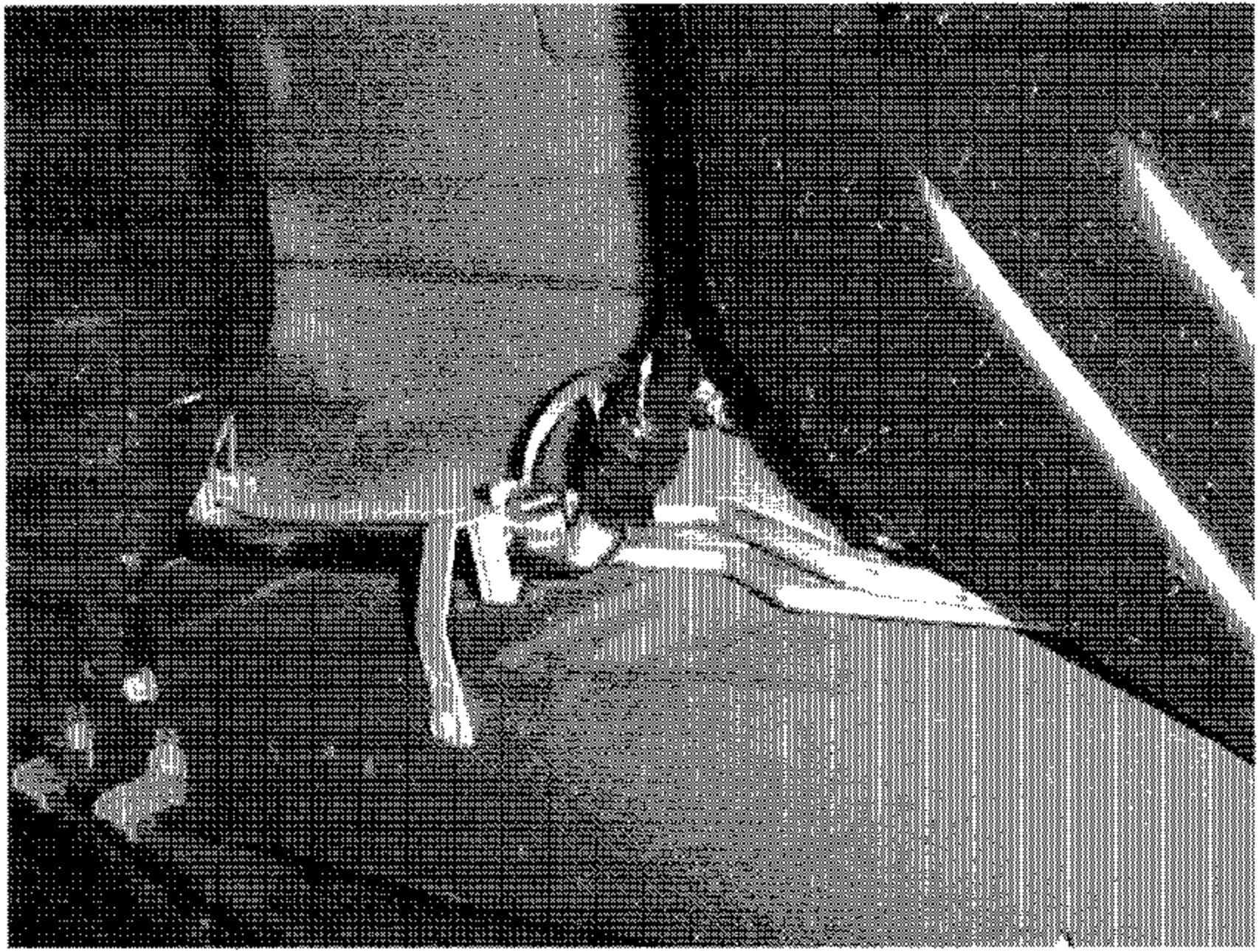

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FIGURE 5.14
UNDERBODY VIEW OF FUEL LINES MID VIEW
PRE-TEST

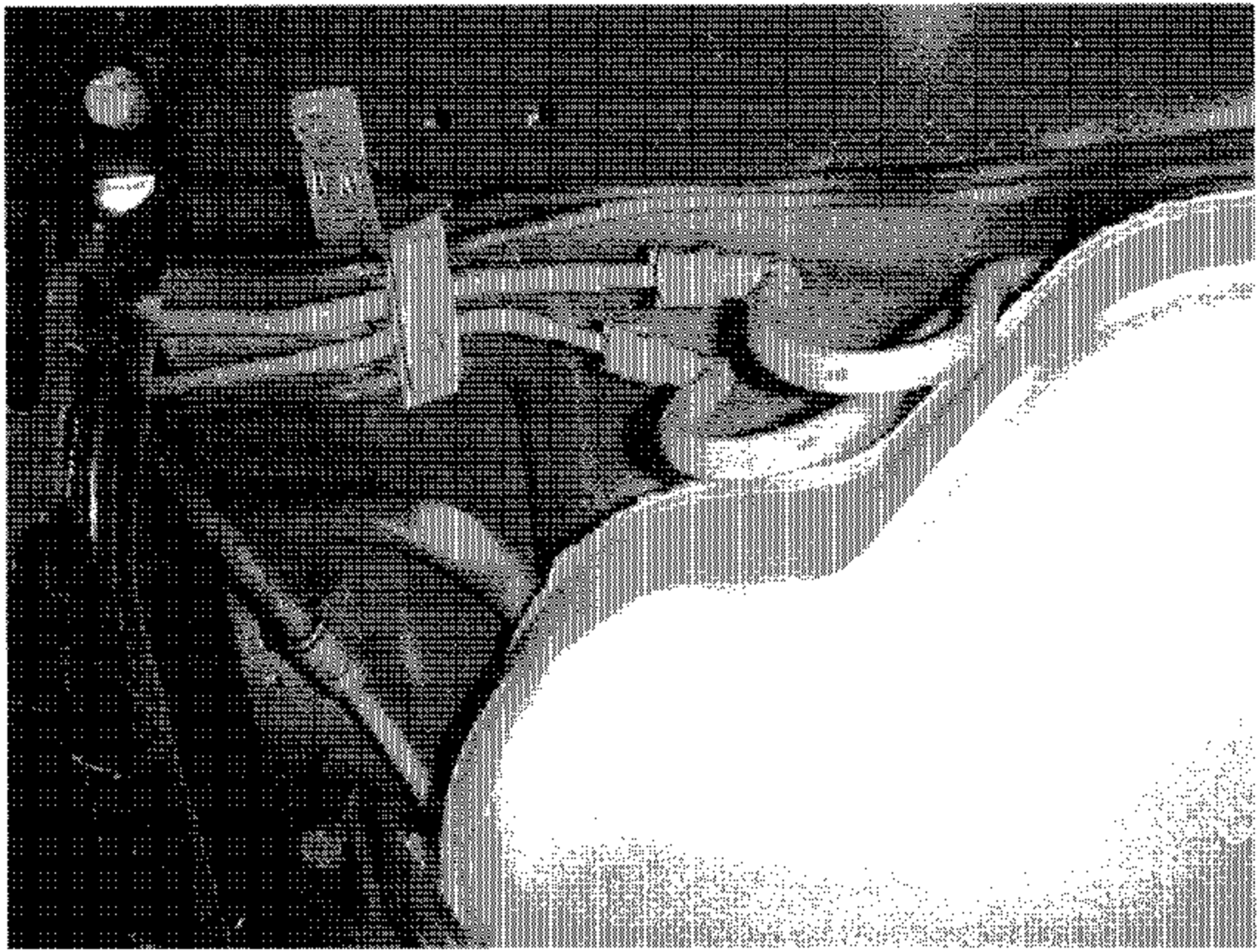

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FIGURE 5.15
UNDERBODY VIEW OF FUEL LINES REAR VIEW
PRE-TEST

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FIGURE 5.16
UNDERBODY VIEW OF FUEL LINES AT TANK
PRE-TEST

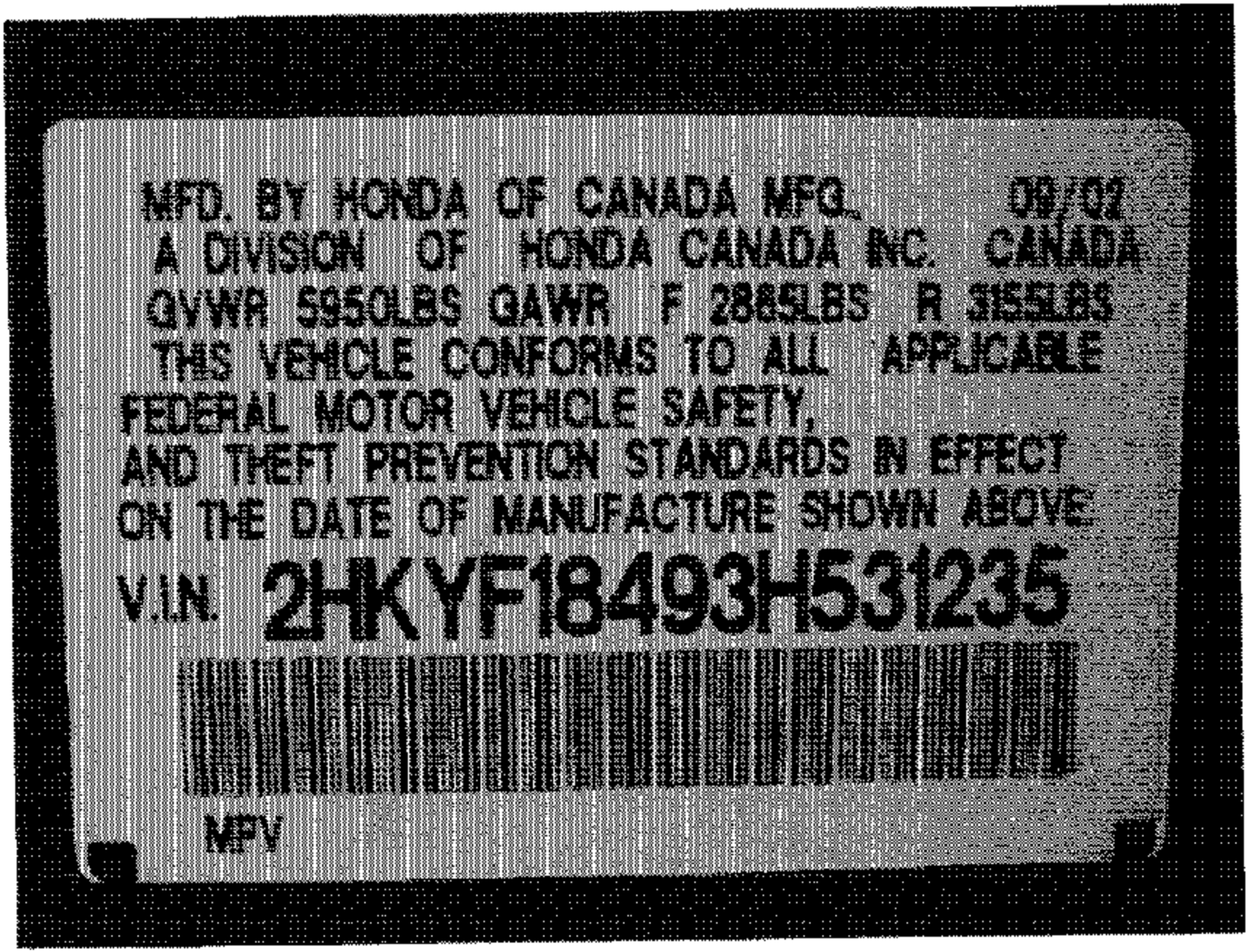

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FIGURE 5.17
VEHICLE CERTIFICATION LABEL

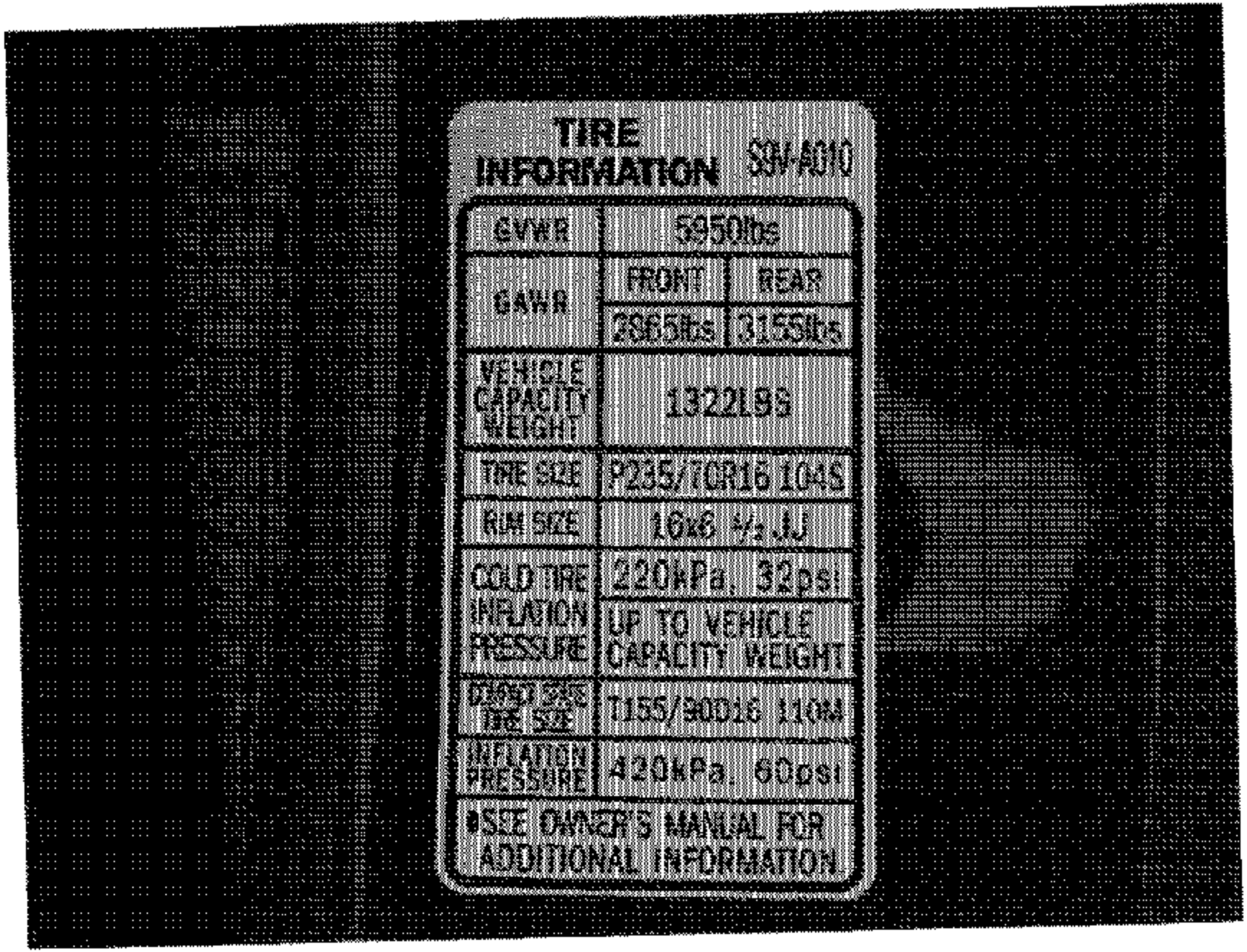

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FIGURE 5.18
TIRE INFORMATION LABEL

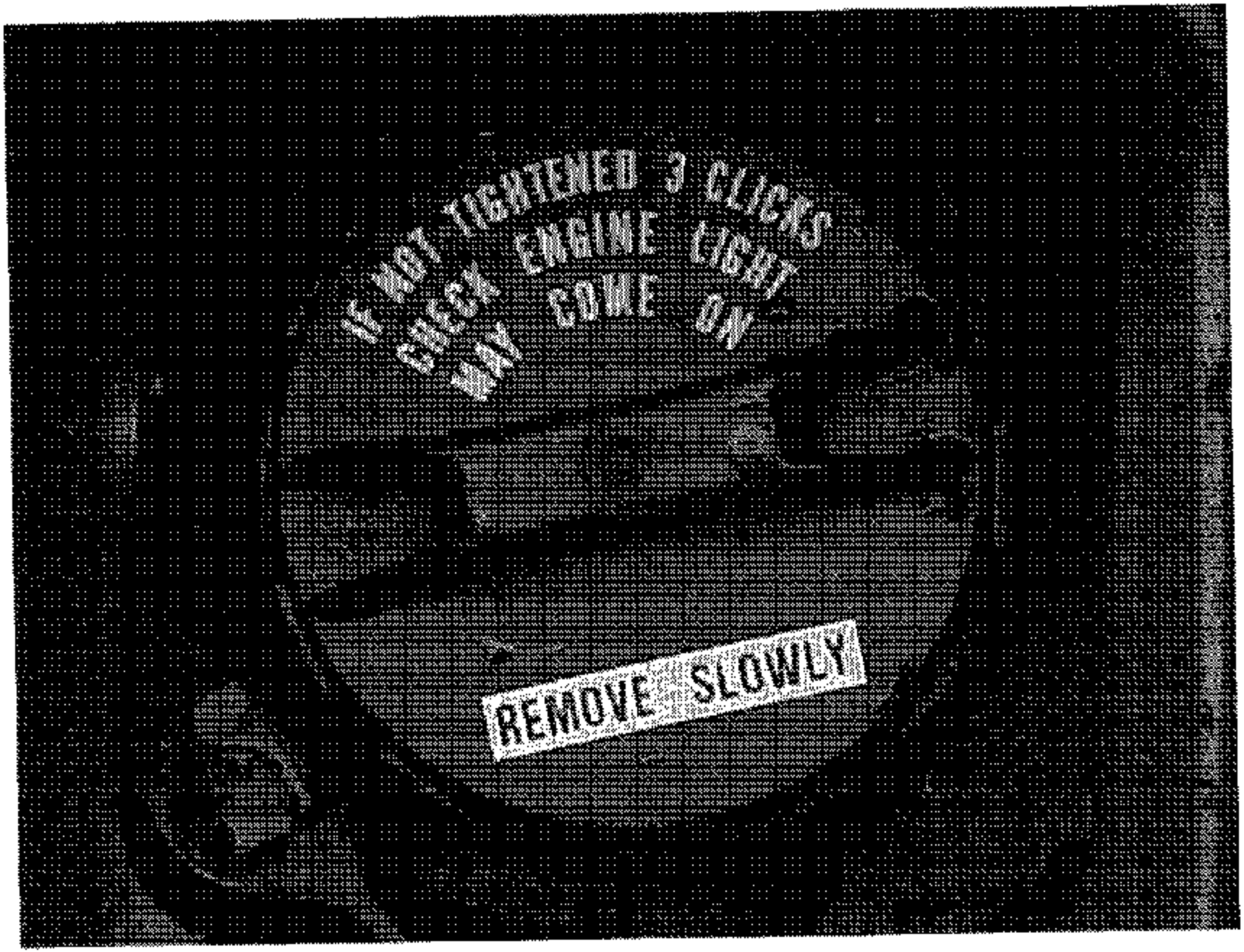

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FIGURE 5.19
VEHICLE FUEL CAP PRE-TEST

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FIGURE 5.20
FRONT VIEW OF VEHICLE POST TEST

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FIGURE 5.21
LEFT SIDE VIEW OF VEHICLE POST TEST

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FIGURE 5.22
RIGHT SIDE VIEW OF VEHICLE POST TEST

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FMVSS NO. 301L

FIGURE 5.23
REAR VIEW OF VEHICLE POST TEST

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NHTSA NO. C35300
FMVSS NO. 301L

FIGURE 5.24
¾ FRONTAL VIEW FROM LEFT SIDE OF VEHICLE
POST TEST

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FMVSS NO. 301L

FIGURE 5.25
¾ REAR VIEW FROM RIGHT SIDE OF VEHICLE
POST TEST

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FMVSS NO. 301L

FIGURE 5.26
LEFT VIEW OF VEHICLE/BARRIER POST TEST

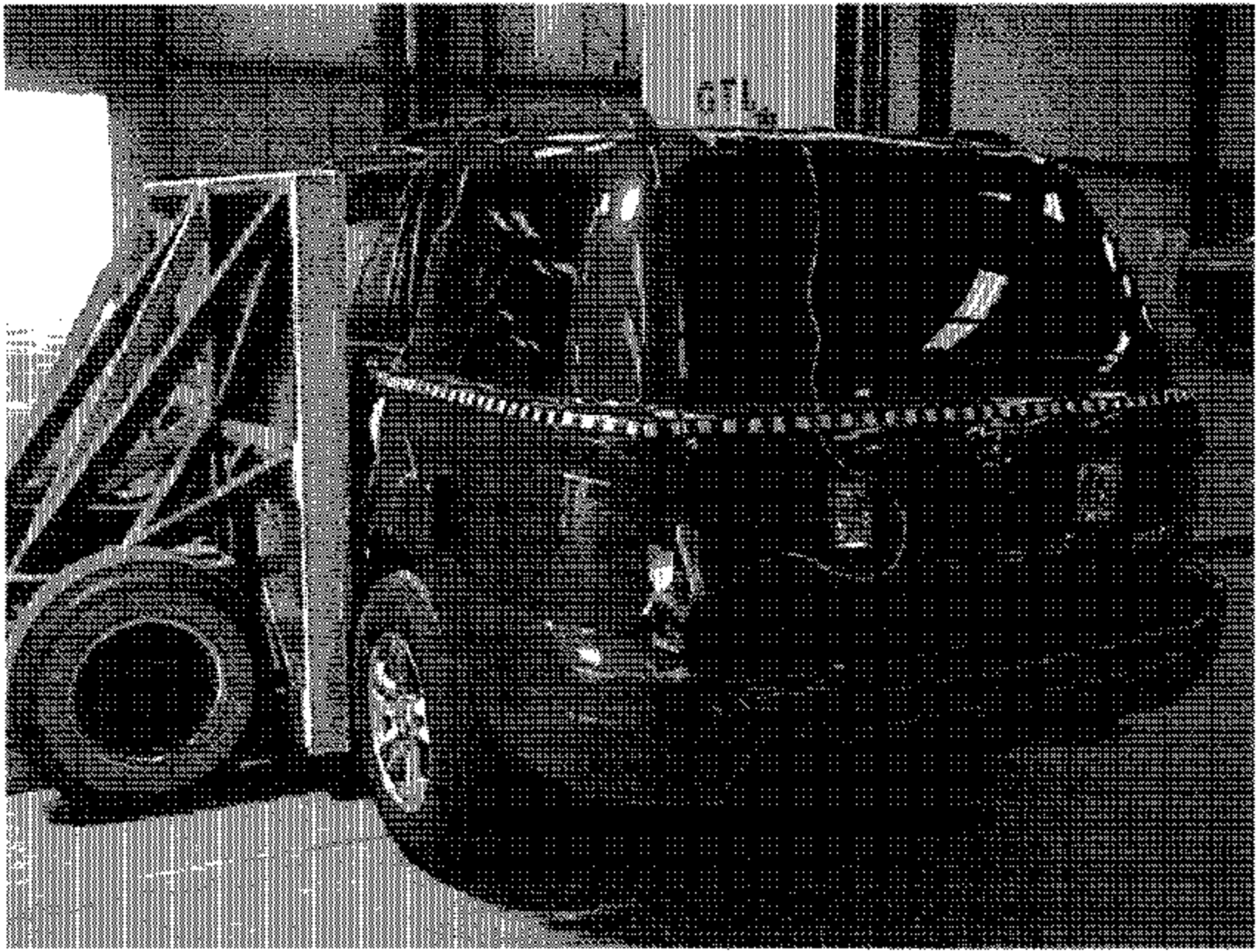

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FIGURE 5.27
RIGHT VIEW OF VEHICLE/BARRIER POST TEST

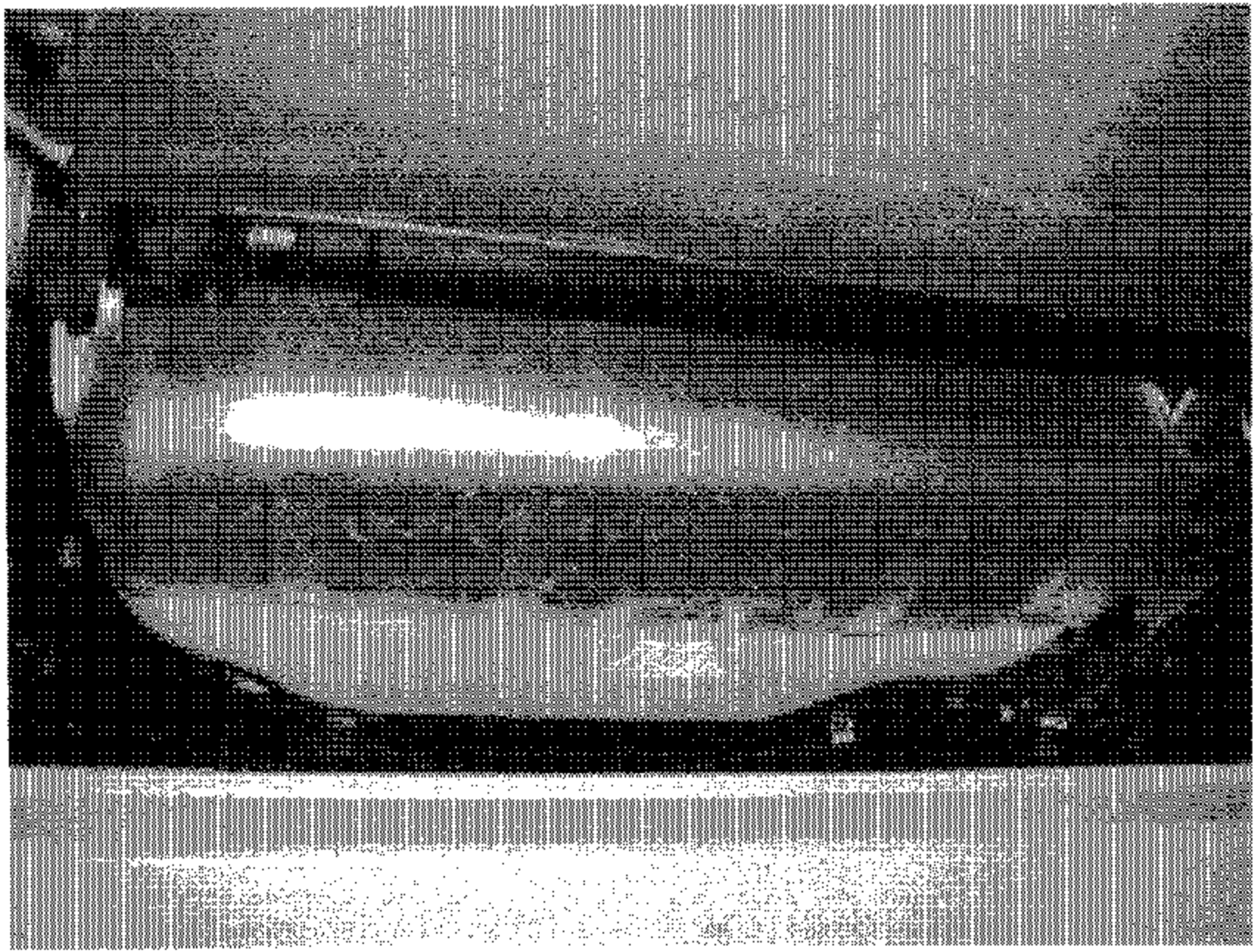

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FIGURE 5.28
UNDERBODY VIEW OF FUEL TANK RIGHT VIEW
POST TEST

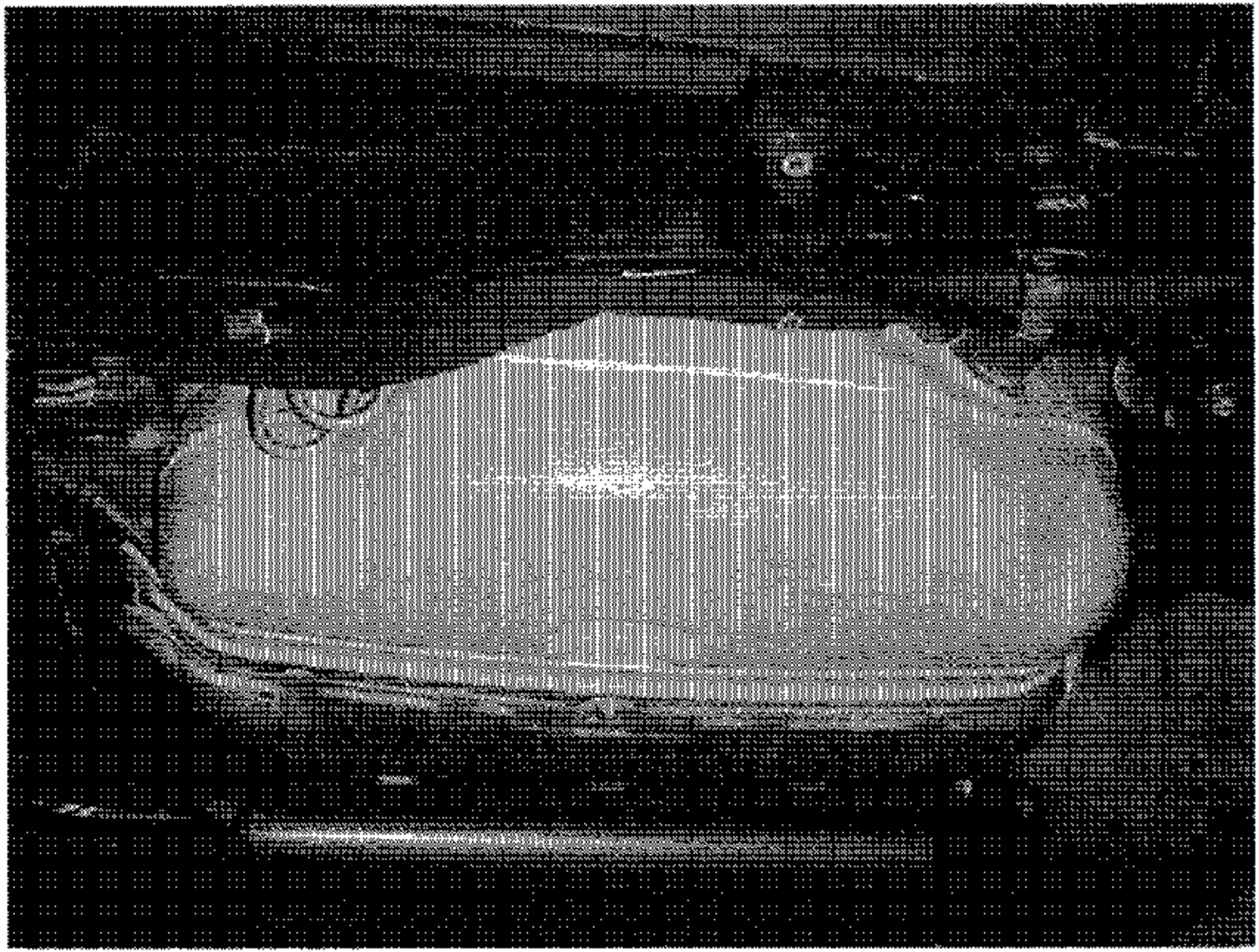

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FIGURE 5.29
UNDERBODY VIEW OF FUEL TANK LEFT VIEW
POST TEST

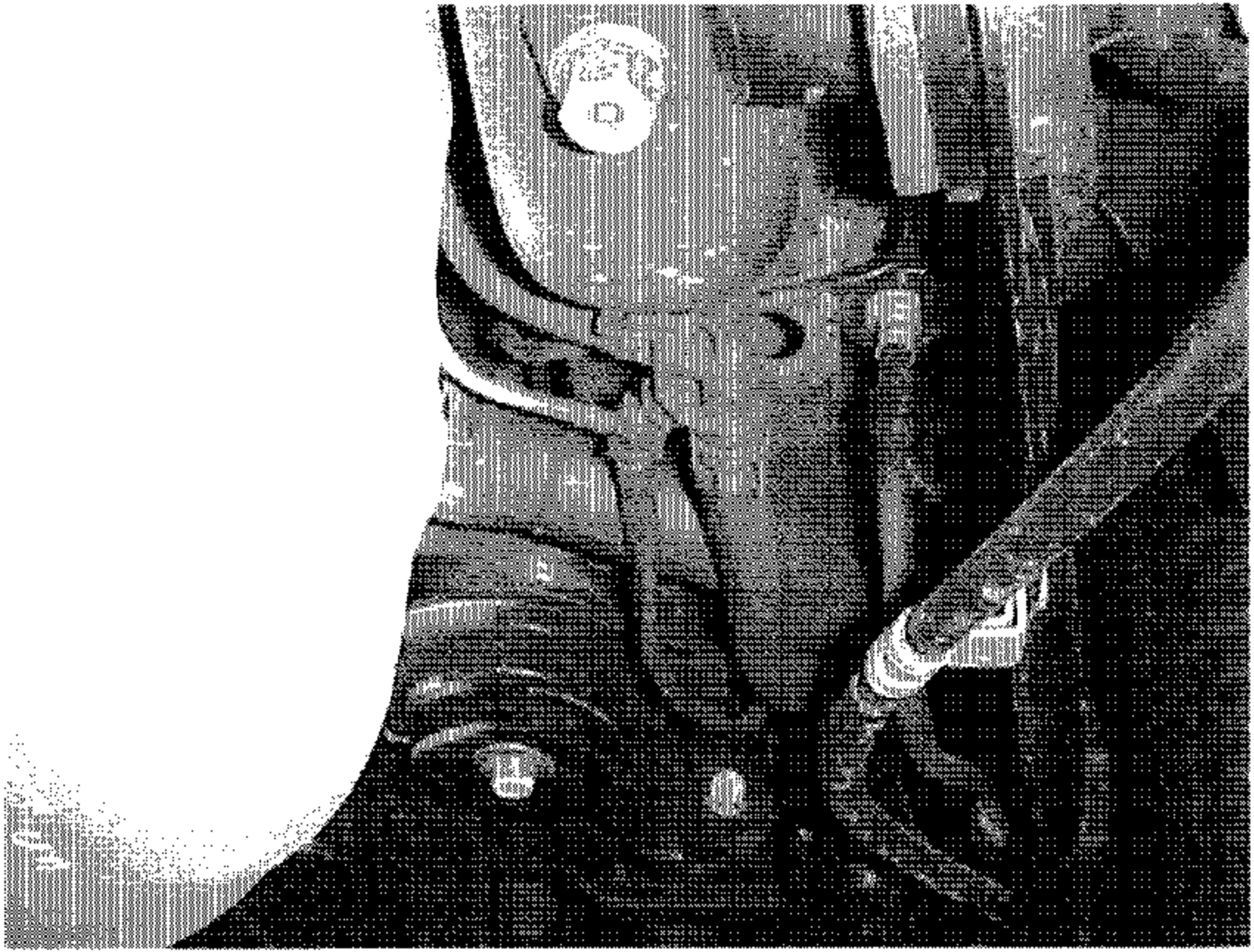

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FIGURE 5.30
UNDERBODY VIEW OF FUEL FILL HOSE BOTTOM
POST TEST

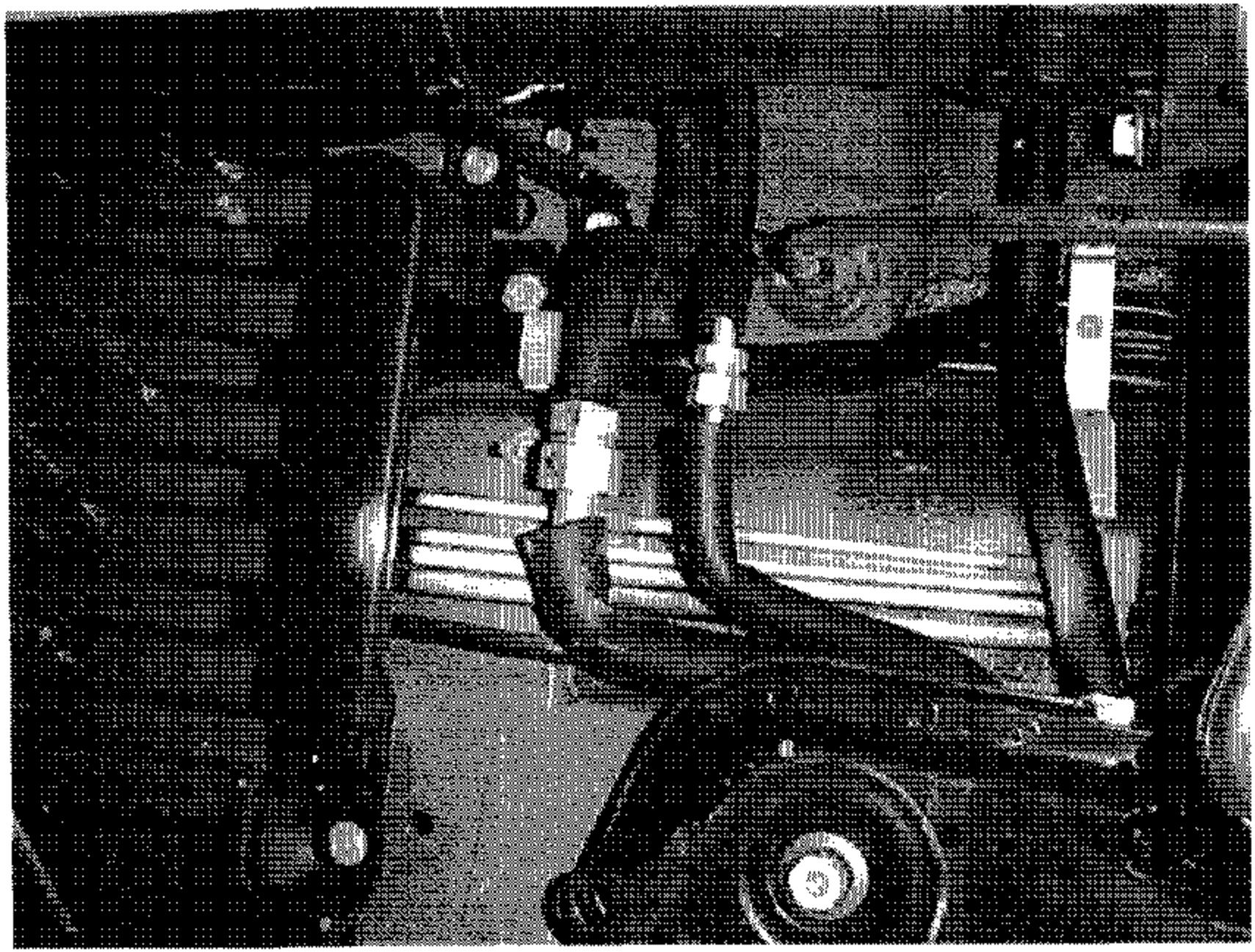

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FIGURE 5.31
UNDERBODY VIEW OF FUEL LINES FRONT VIEW
POST TEST

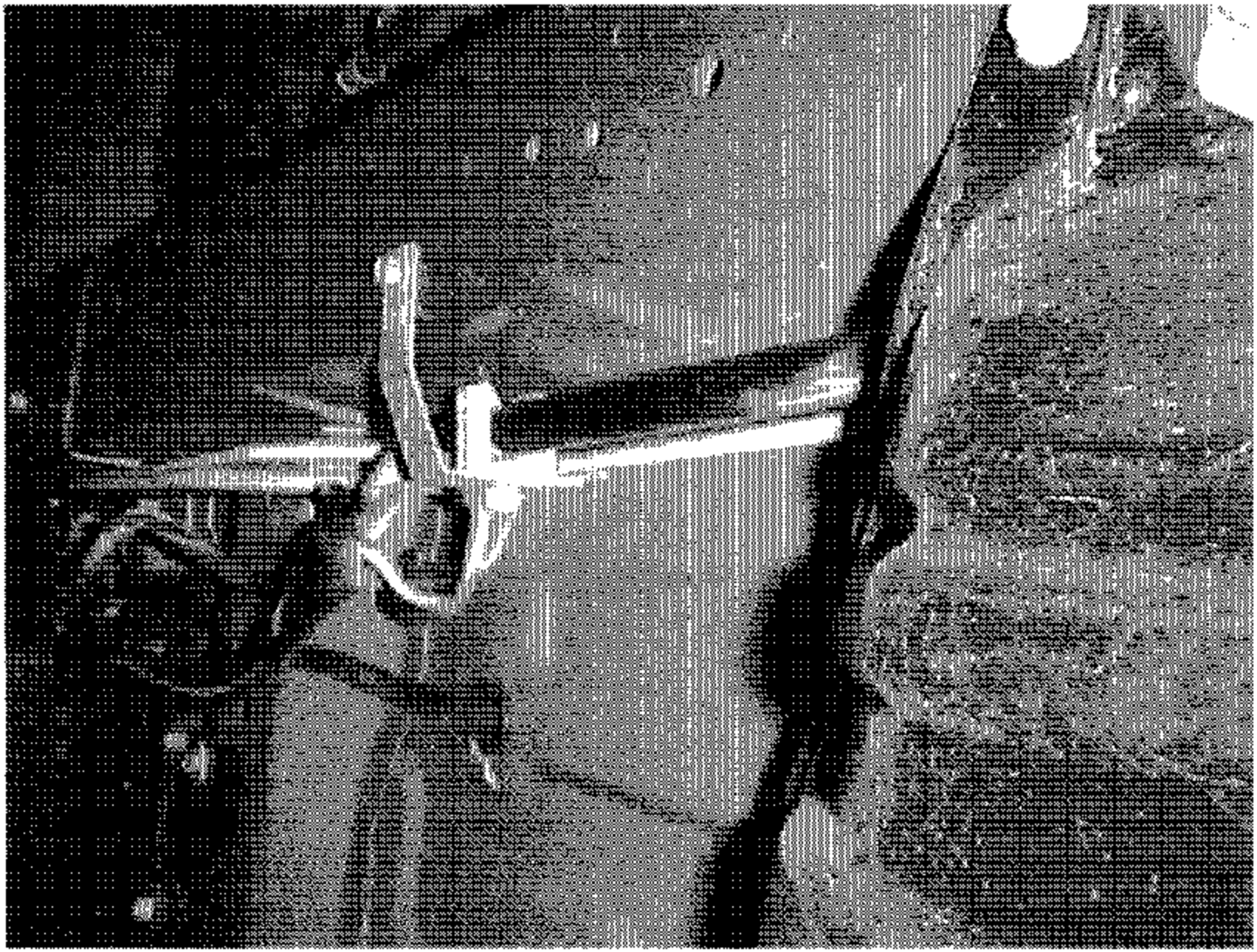

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FIGURE 5.32
UNDERBODY VIEW OF FUEL LINES MID VIEW
POST TEST

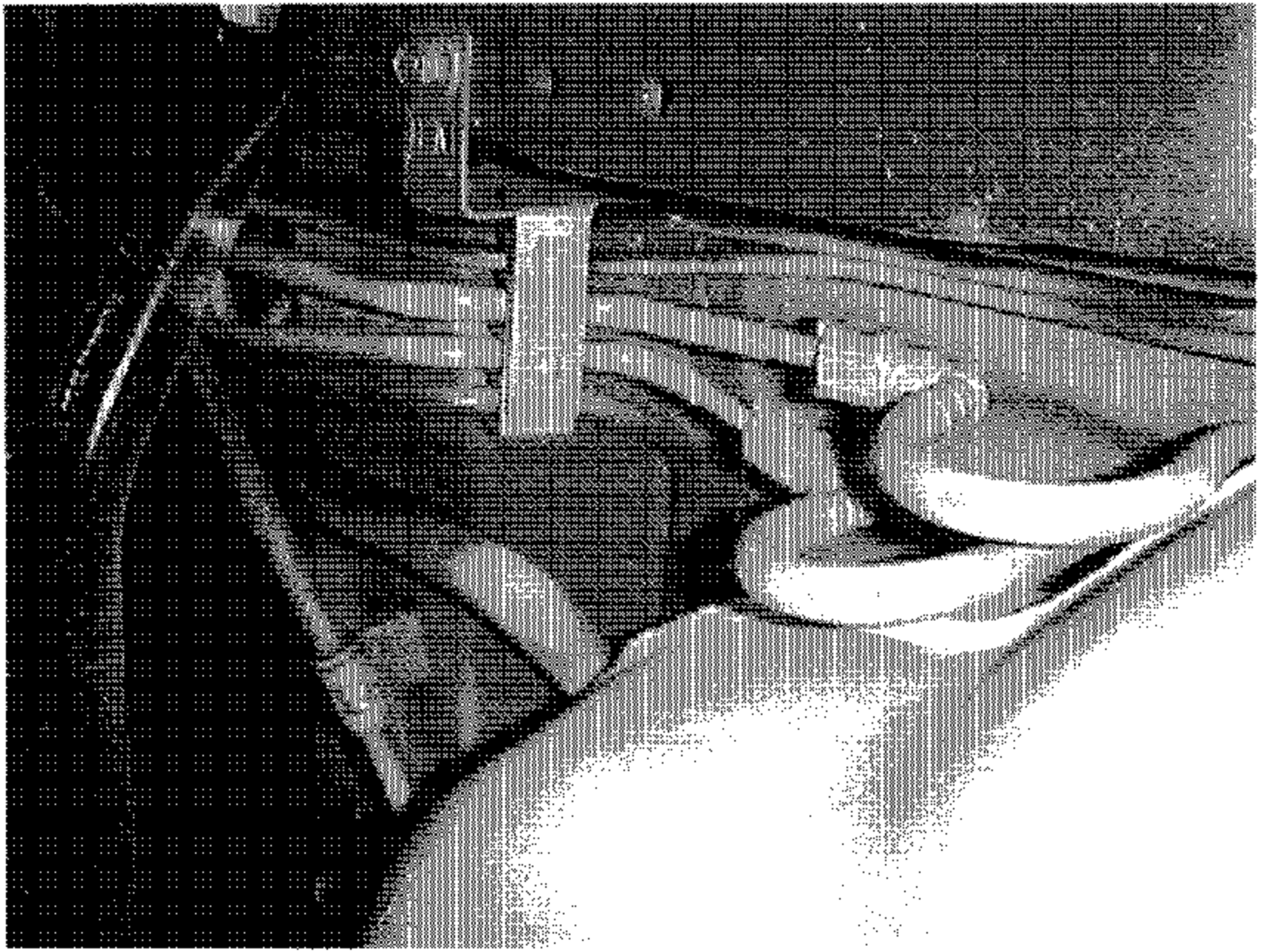

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FIGURE 5.33
UNDERBODY VIEW OF FUEL LINES REAR VIEW
POST TEST

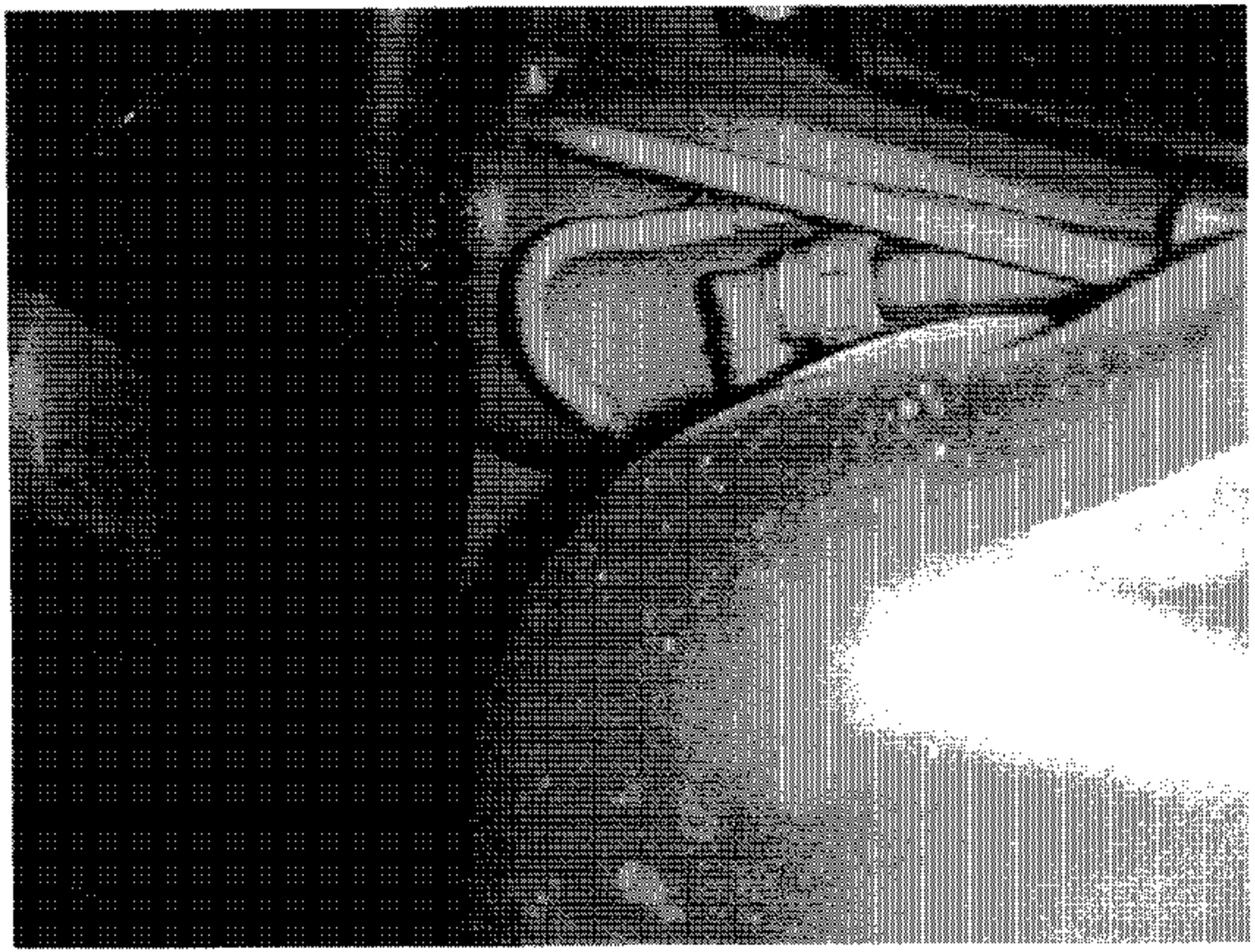

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FIGURE 5.34
UNDERBODY VIEW OF FUEL LINES AT TANK
POST TEST

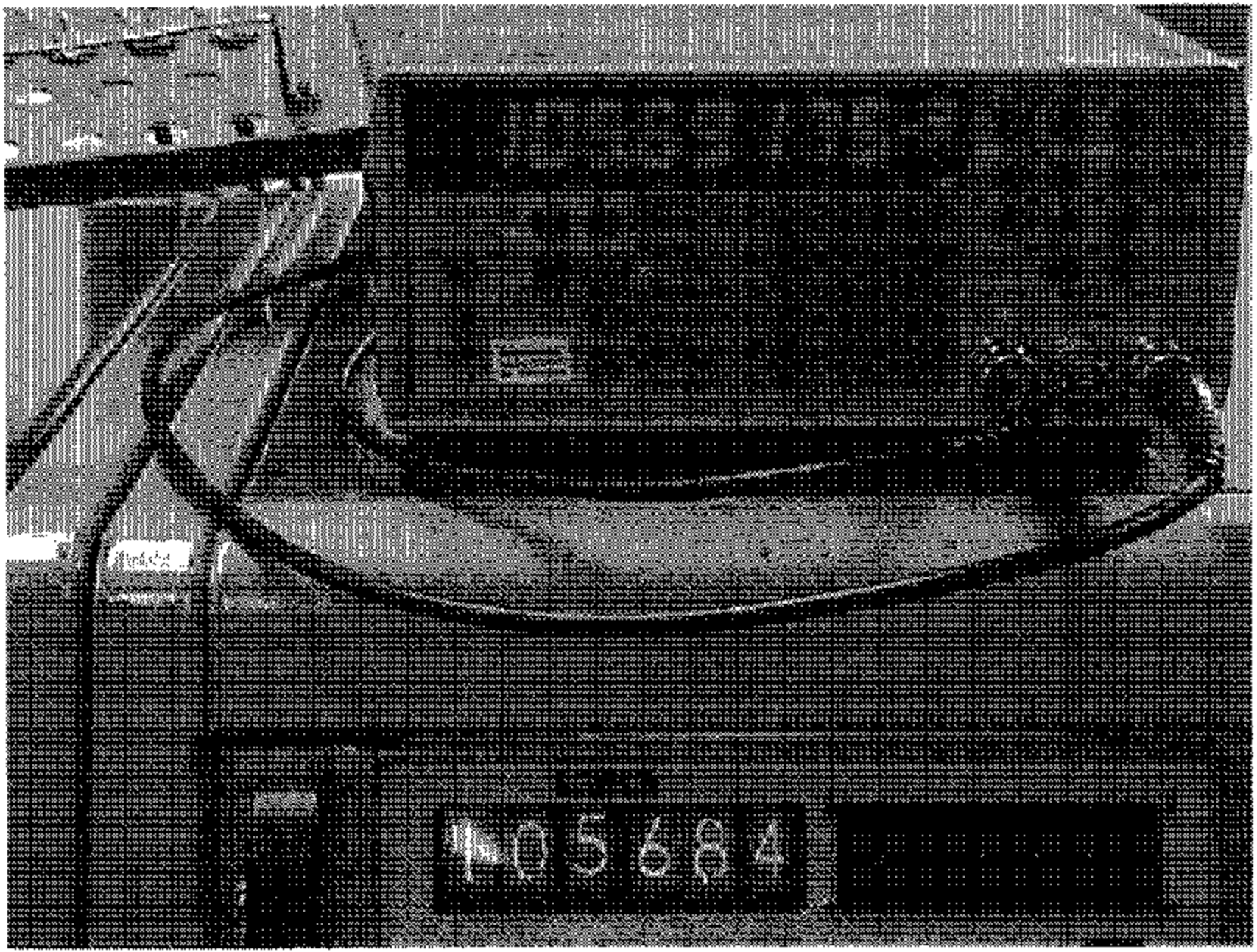

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FIGURE 5.35
SPEED COUNTERS POST TEST

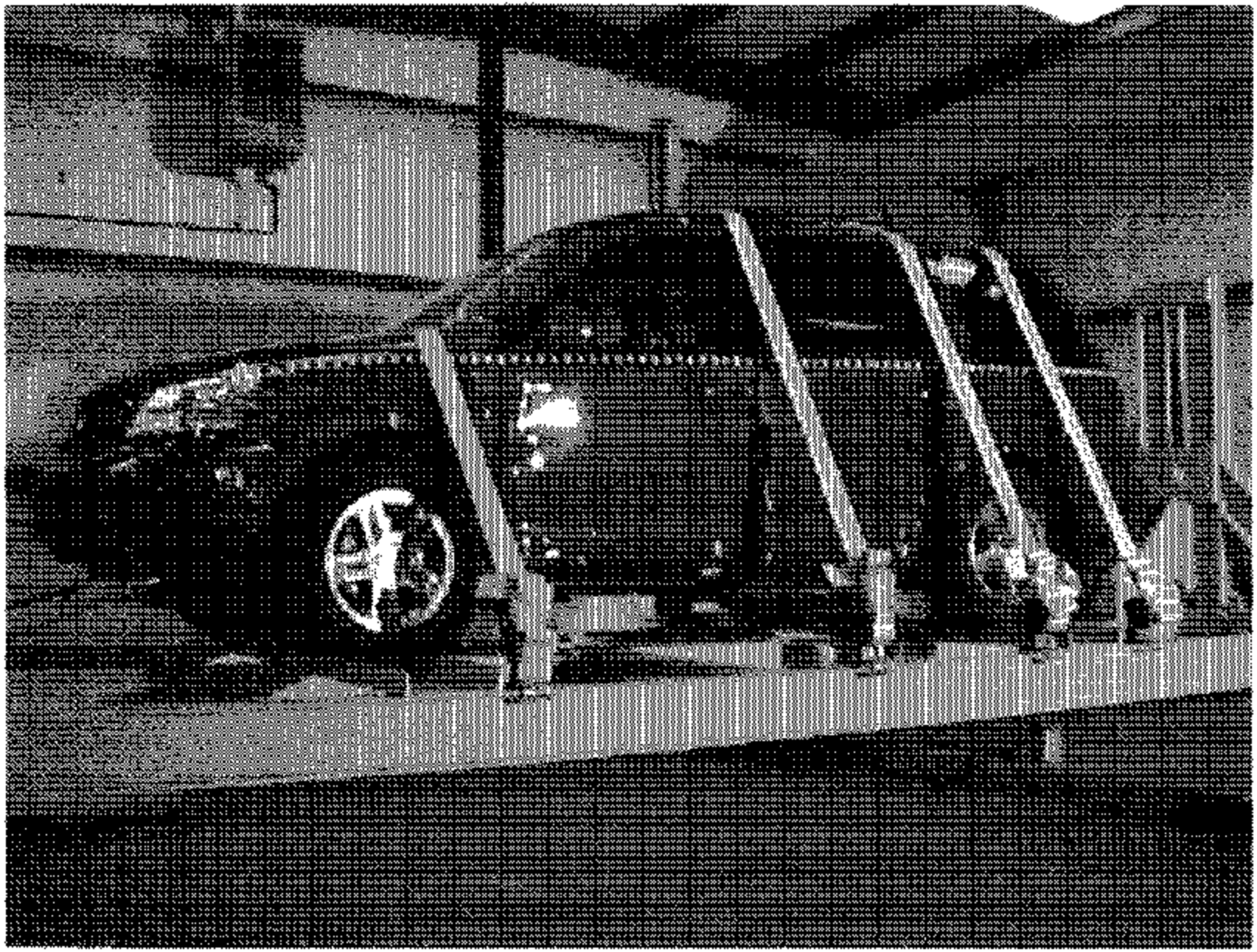

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FIGURE 5.36
VEHICLE IN ROLLOVER FIXTURE AT 0°

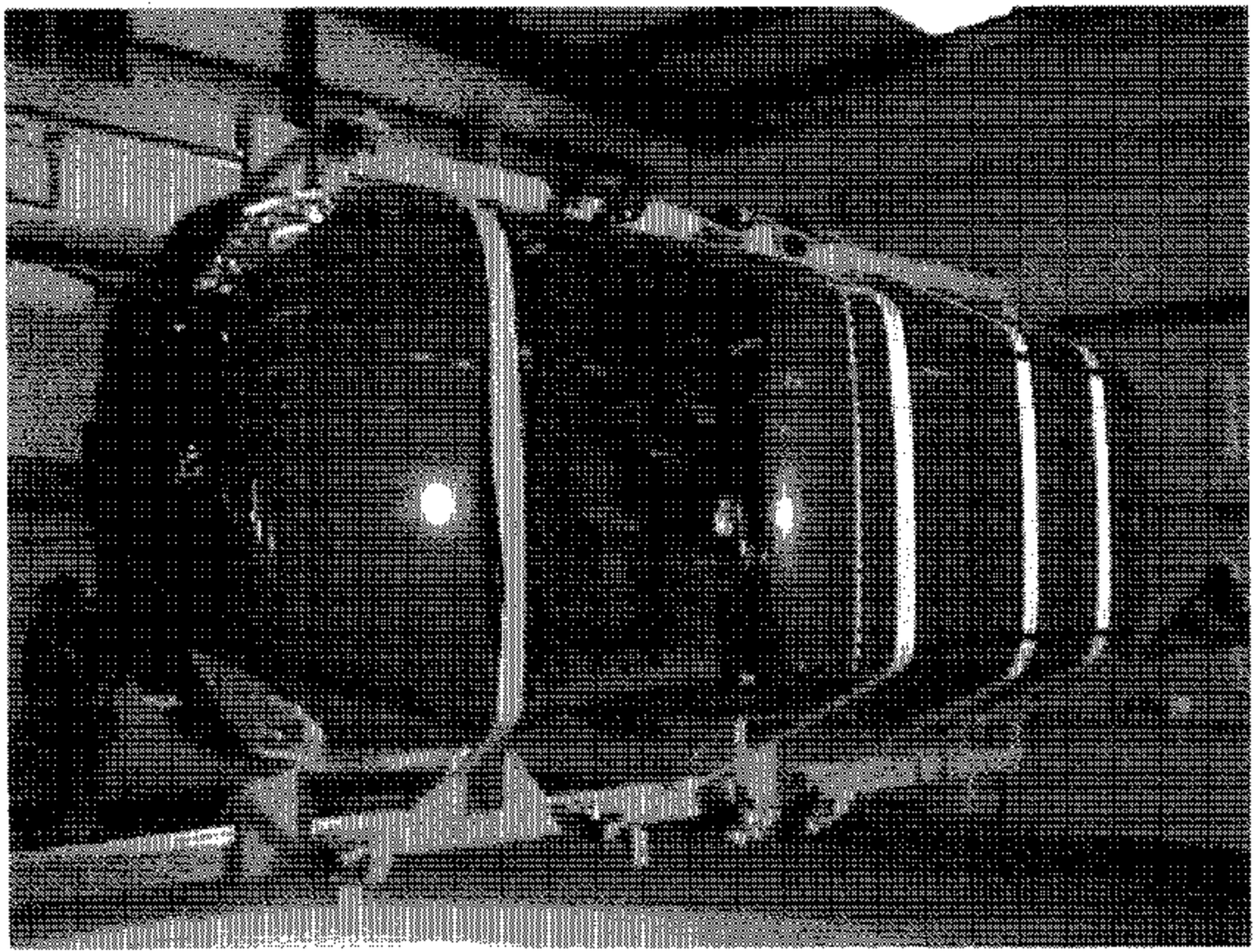

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FIGURE 5.37
VEHICLE IN ROLLOVER FIXTURE AT 90°

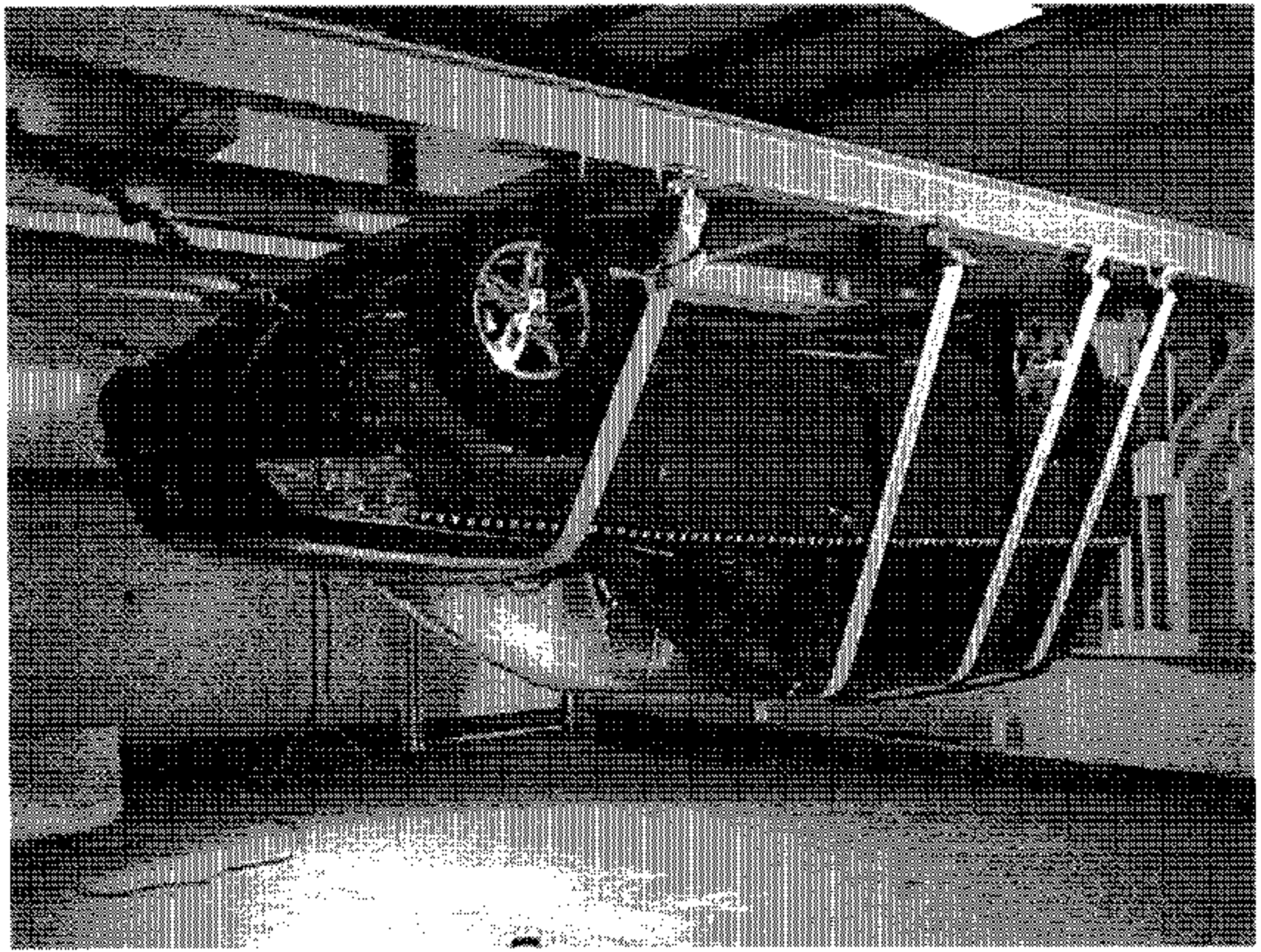

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FIGURE 5.38
VEHICLE IN ROLLOVER FIXTURE AT 180°

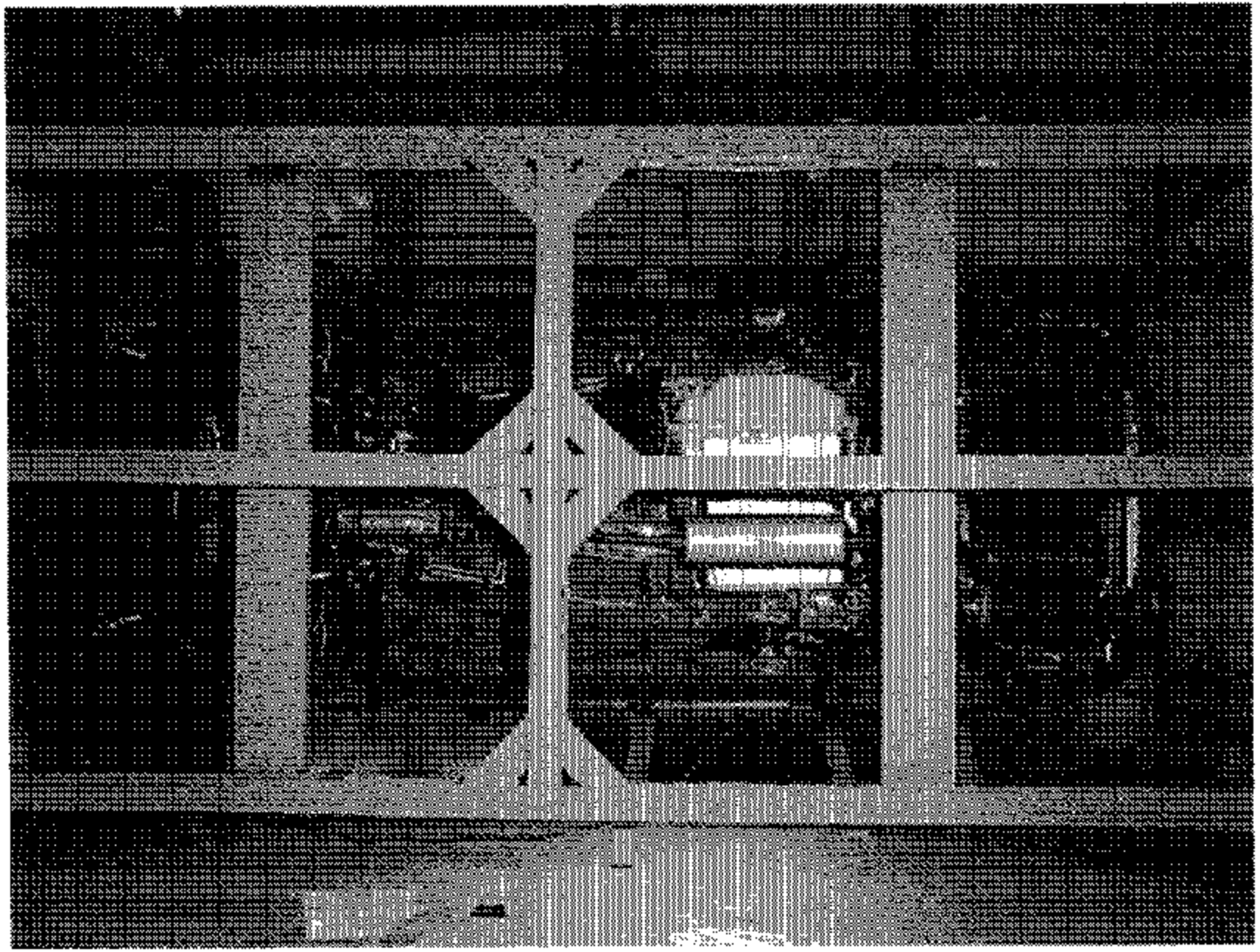

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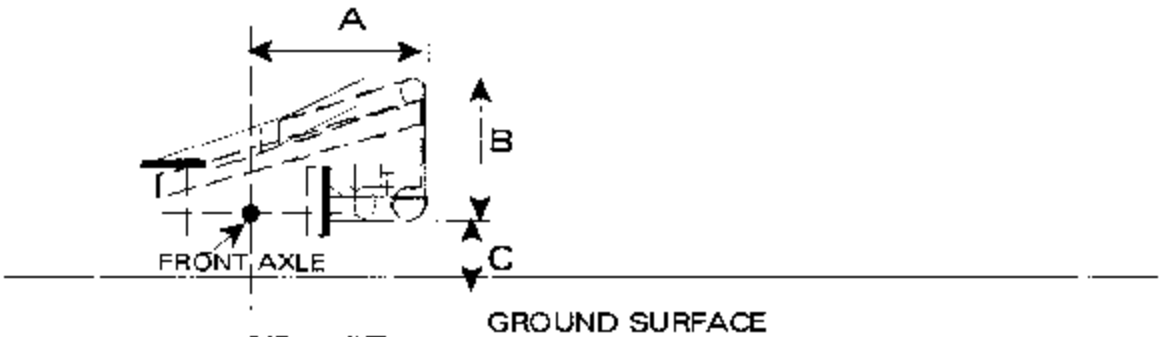
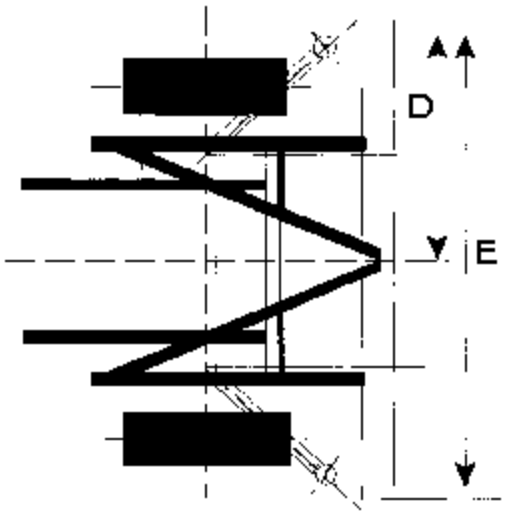
FIGURE 5.39
VEHICLE IN ROLLOVER FIXTURE AT 270°

SECTION 6

BARRIER INFORMATION



SIDE VIEW



TOP VIEW

DIMENSIONS SHOWN IN TABLE ON NEXT PAGE

NOTES:
1.Face Plate 0.50 in. (19mm) thick cold rolled steell
2.All Inner Reinforcements 4.0 x 2.0 x 0.19 in. (102 x 51 x 5mm) Steel Tubing
3.Impact Surface above shown without .75 x 48 x 96 in. Plywood Face attached

LETTER	INCHES	MILLIMETERS
A	20.5*	521*
B	60.0	1524
C	5.0	127
D	39.0	991
E	78.0	198

TEST SET-UP OF COMMON CARRIAGE WITH 60" x 78" FLAT FACE IMPACT SURFACE INSTALLED:

LEFT FRONT WEIGHT 1081
RIGHT FRONT WEIGHT 1079
LEFT REAR WEIGHT 882
RIGHT REAR WEIGHT 873

TOTAL WEIGHT 3915

* EXCLUDING 3/4" PLYWOOD FACE

DIMENSIONS FOR GTL 60" x 78" FLAT FACE IMPACT SURFACE