

036178

REPORT NUMBER 301L-GTL-03-008

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

DAIMLERCHRYSLER CORPORATION
2003 DODGE DAKOTA PICKUP TRUCK
NHTSA NO. C30307

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



SEPTEMBER 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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16. Abstract Compliance tests were conducted on the subject, 2003 Dodge Dakota Pickup Truck 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		
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SECTION 1

PURPOSE OF COMPLIANCE TEST

1.0 PURPOSE OF COMPLIANCE TEST

A 2003 Dodge Dakota Pickup Truck 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 Dodge Dakota Pickup Truck. Nomenclature applicable to the test vehicle are:

- A. Vehicle Identification Number: 1D7FL16X63S133971
- B. NHTSA No.: C30307
- C. Manufacturer: DAIMLERCHRYSLER CORPORATION
- D. Manufacture Date: 09/02

1.2 TEST DATE

The test vehicle was subjected to FMVSS No. 301 testing on August 22, 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 Dodge Dakota Pickup Truck 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 Dodge Dakota Pickup Truck.

SUMMARY OF RESULTS

Vehicle's NHTSA No.: C30307 Test Model: DAKOTATest Date.: 08/22/03 Time: 13:40 Temperature 94° F

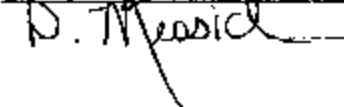
Vehicle Model Year, Make, Model and Body Style:

2003 DODGE DAKOTA PICKUP TRUCKVehicle Test Weight: 4349 lbs.; Impact Velocity: 19.35 mph

Type of Front Occupant Restraint System Installed in Test Vehicle:

Driver's DSP: TYPE 2 BELT WITH FRONTAL AIR BAG IN STEERING WHEELRight Passenger's DSP: TYPE 2 BELT WITH FRONTAL AIR BAG IN DASHStoddard solvent spillage from Vehicle's Fuel System: None

REMARKS:

RECORDED BY: APPROVED BY: DATE: 08/22/03

DATA SHEET 1

TEST VEHICLE SPECIFICATIONS

TEST VEHICLE INFORMATION:

NHTSA No.: C30307
 Year/Make/Model/Body Style: 2003 DODGE DAKOTA PICKUP
 Engine Data: 3.9 LITER V6
 Transmission Data: 4 SPEED AUTOMATIC
 Final Drive Data: REAR WHEEL DRIVE
 Major Options: CUSTOMER PREFERRED PACKAGE, TILT WHEEL,
 Date Received: 08/12/03; Odometer Reading: 1279 miles

DATA FROM VEHICLE'S CERTIFICATION LABEL:

Vehicle Manufactured By: DAIMLERCHRYSLER CORPORATION
 Date of Manufacture: 09/02
 VIN: 1D7FL16X63S133971

 GVWR: 2268 kg (5000 lbs.); GAWR Front: 1407 kg (3100 lbs.) GAWR Rear: 1409 kg (3106 lbs.)

DATA FROM VEHICLE'S TIRE PLACARD:

Location of Placard on Vehicle: DRIVER'S "B" PILLAR
 Tire Pressure With Maximum Capacity Vehicle Load —
 Front: 35 psi; Rear: 35 psi
 Recommended Tire Size: P245/70R16
 Recommended Cold Tire Pressure: Front = 206 kPa (30 psi) Rear = 206 kPa (30 psi)
 Size of Tires on Test Vehicle: P255/65R16
 Type of Spare Tire: FULL SIZE
 *NOTE: Data from supplement sheet in glove box

Vehicle Capacity Data —

Type of Front Seat(s): BUCKET
 Number of Occupants: Front = 2; Mid = 0 Rear = 0; Total = 2

A. VEHICLE CAPACITY WEIGHT (VCW) =	<u>1262</u> lbs.
B. Number of Occupants x 150 lbs. =	<u>300</u> lbs.
RATED CARGO AND LUGGAGE WEIGHT (RCLW) = A - B =	<u>962</u> lbs.

RECORDED BY: [Signature]
 APPROVED BY: [Signature]

DATE: 08/22/03

DATA SHEET 2 PRE-TEST DATA

WEIGHT OF TEST VEHICLE:

A. As Received At Laboratory (Maximum Fluids) —

Right Front = 491 kg (1082 lbs.) Right Rear = 350 kg (772 lbs.)

Left Front = 511 kg (1127 lbs.) Left Rear = 343 kg (757 lbs.)

TOTAL FRONT = 1002 kg (2209 lbs.) TOTAL REAR = 694 kg (1529 lbs.)

% of TOTAL = 59 % % of TOTAL = 41 %

TOTAL DELIVERED WEIGHT = 1696 kg (3738 lbs.)

B. Calculation of Target Test Weight —

1. Total Delivered Weight = 1696 kg (3738 lbs.)

2. Rated Cargo & Lugg. Weight (RCLW) = 136 kg (300 lbs.)

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

TARGET TEST WEIGHT = 1 + 2 + 3 = 1980 kg (4366 lbs.)

C. Vehicle, Dummies and 136 kg (300 lbs.) of Cargo Weight —

Right Front = 536 kg (1181 lbs) Right Rear = 446 kg (984 lbs)

Left Front = 555 kg (1224 lbs) Left Rear = 435 kg (960 lbs)

TOTAL FRONT = 1091 kg (2405 lbs) TOTAL REAR = 882 kg (1944 lbs)

% of TOTAL = 55 % % of TOTAL = 45 %

TOTAL TEST WEIGHT = 1973 kg (4349 lbs)

Weight of Ballast secured in cargo area = 160 kg (352 lbs)

Type of Ballast: SALT BAGS

Method of Securing Ballast: RATCHET STRAPS TO CARGO TIE DOWN RING

Vehicle Components Removed for Weight Reduction:

NONE

DATA SHEET 2 PRE-TEST DATA CONTINUED

TEST VEHICLE ATTITUDE:

As Delivered — Right Front: 855 mm (33.7 inches)
 Left Front: 858 mm (33.8 inches)
 Right Rear: 889 mm (35.0 inches)
 Left Rear: 887 mm (34.9 inches)

As Tested — Right Front: 840 mm (33.0 inches)
 Left Front: 845 mm (33.3 inches)
 Right Rear: 851 mm (33.5 inches)
 Left Rear: 852 mm (33.5 inches)

Vehicle's Wheelbase = 2845 mm (112 inches)

FUEL SYSTEM DATA:

Fuel System Capacity Listed in Owner's Manual = 83.3 liters (22 gallons)
 Usable Capacity Figure Furnished By COTR = 83.3 liters (22 gallons)

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

75.8 liters (20.02 gallons) TO 78.3 liters (20.68 gallons)

ACTUAL TEST VOLUME = 77.0 liters (20.35 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: ELECTRIC

Electric Fuel Pump Operation with Ignition Switch ON and Engine OFF —
YES, FOR APPROXIMATELY 3 SECONDS

Details of Fuel System: SEQUENTIAL MULTI PORT FUEL INJECTION
WITHIN TANK PUMP

REMARKS:

RECORDED BY: [Signature]
 APPROVED BY: [Signature]

DATE: 08/22/03

**DATA SHEET 3
POST IMPACT DATA**

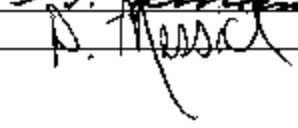
TYPE OF TEST: 301L
TEST DATE: 08/22/03 ; TIME: 13:40 ; TEMP.: 94 °F
VEH. NHTSA NO.: C30307 ; VIN: 1D7FL16X63S133971

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 = 19.3 mph
Average Impact Speed = 19.35 mph

REMARKS:

RECORDED BY: 
APPROVED BY: 

DATE: 08/22/03

DATA SHEET 4
SUMMARY OF FMVSS 301 DATA

TEST VEHICLE NHTSA NO.: C30307 ; TEST DATE: 08/22/03

VEHICLE YEAR/MAKE/MODEL/BODY STYLE:
2003 DODGE DAKOTA

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: [Signature]
APPROVED BY: [Signature]

DATE: 08/22/03

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, 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:

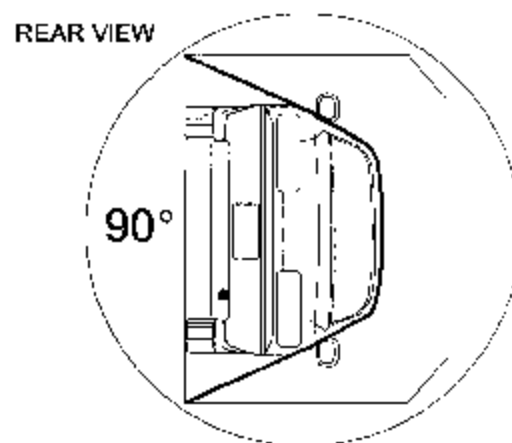
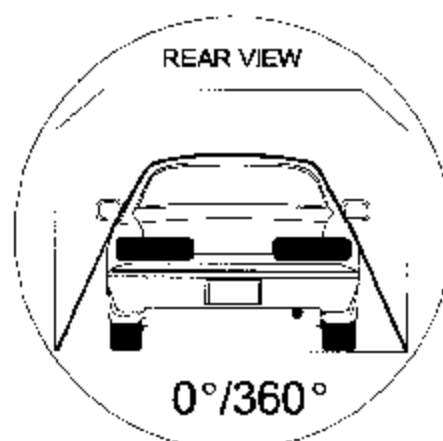
1. First 5 minutes from onset of
rotation = 0 oz.
(5 oz. allowed)

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

B. Test Phase = 90° to 180°

Determination of Stoddard
Solvent Collection Time Period:

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

(Specified Range is 1 to 3
minutes)

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

3. TOTAL = 6 minutes, 34 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)

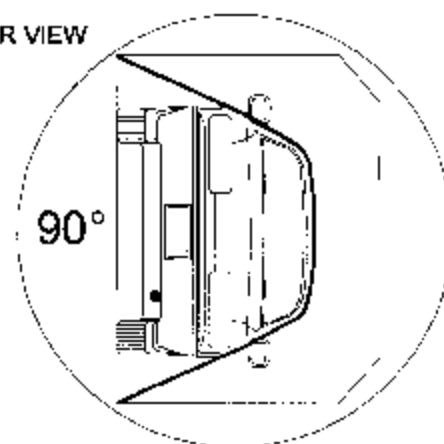
2. 6th minute = 0 oz.
(1 oz. allowed)

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

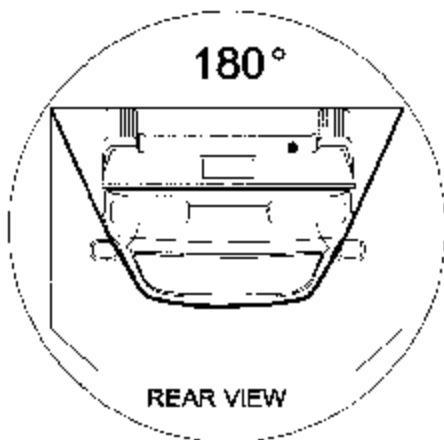
4. 8th minute (if required) = N/A oz. (1 oz. allowed)

Provide Details of Stoddard Solvent Spillage Locations — NONE

REAR VIEW

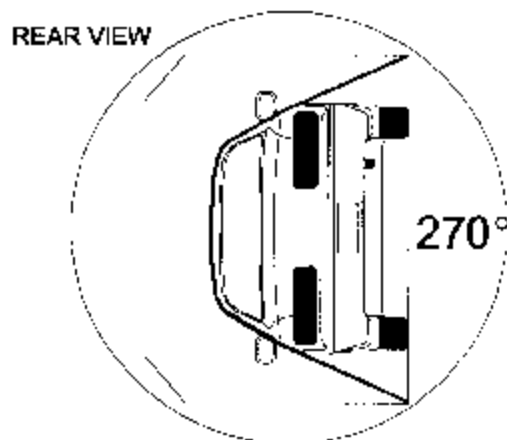
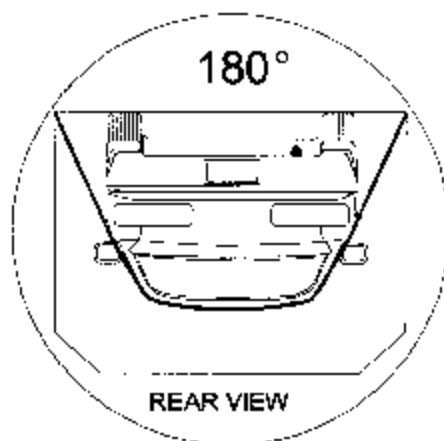


180°



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,
20 seconds(Specified Range is 1 to 3
minutes)2. FMVSS 301 Position Hold
Time = 5 minutes, 0 seconds3. TOTAL = 6 minutes, 20 seconds4. NEXT WHOLE MINUTE
INTERVAL = 7 minutesActual 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,
44 seconds

(Specified Range is 1 to 3
minutes)

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

3. TOTAL = 6 minutes, 44 seconds

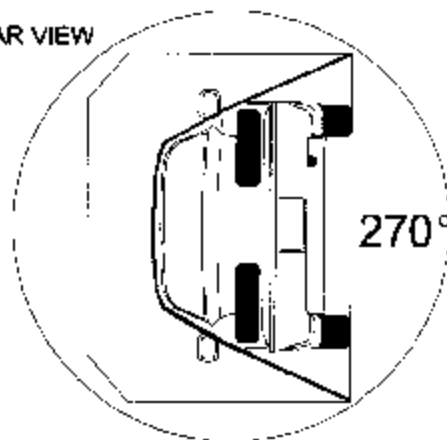
4. NEXT WHOLE MINUTE INTERVAL =
7 minutes

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

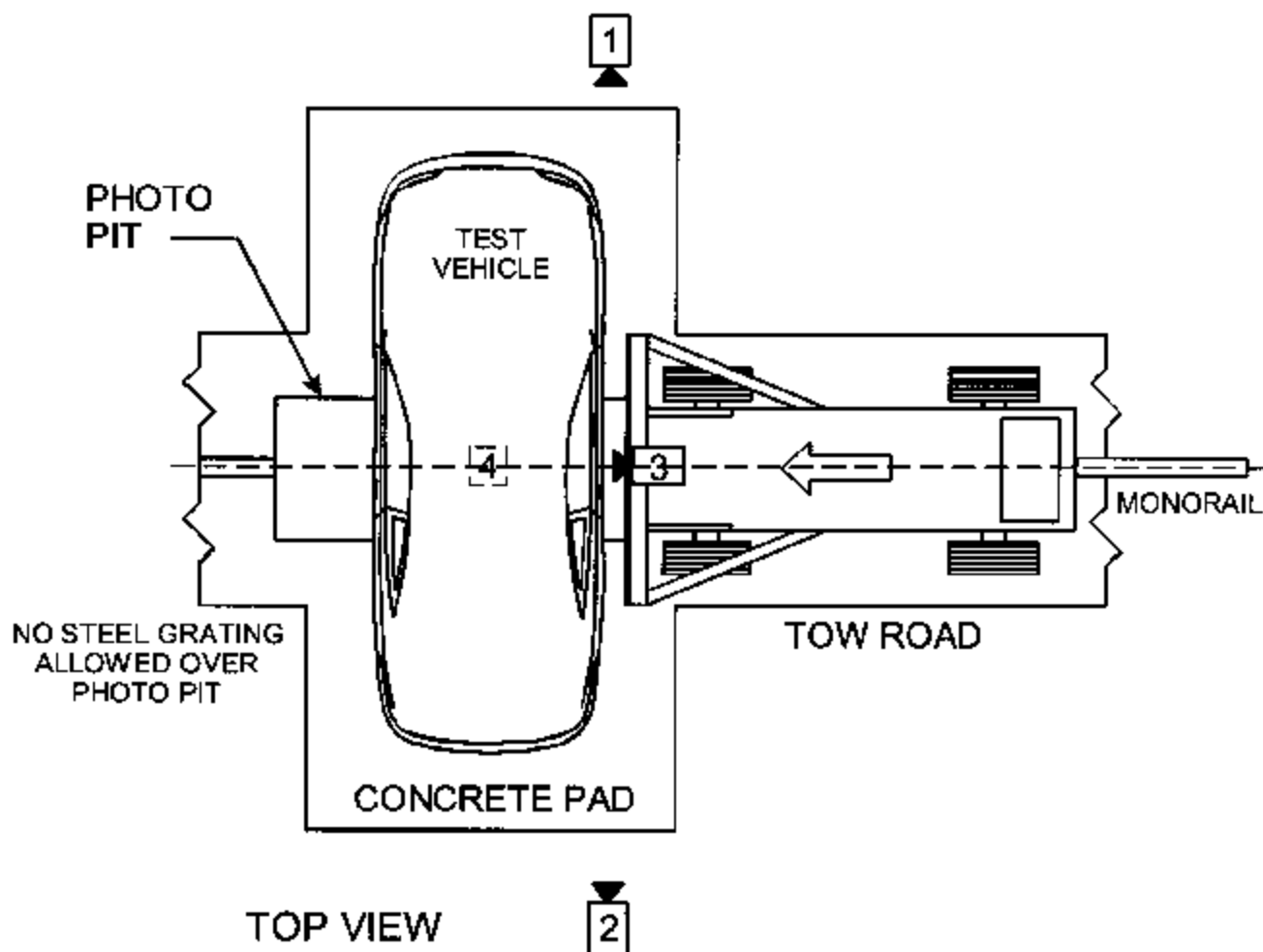
REAR VIEW



REAR VIEW



DATA SHEET 6
CAMERA LOCATION

VEHICLE NHTSA NO.: C30307TEST DATE: 08/22/03

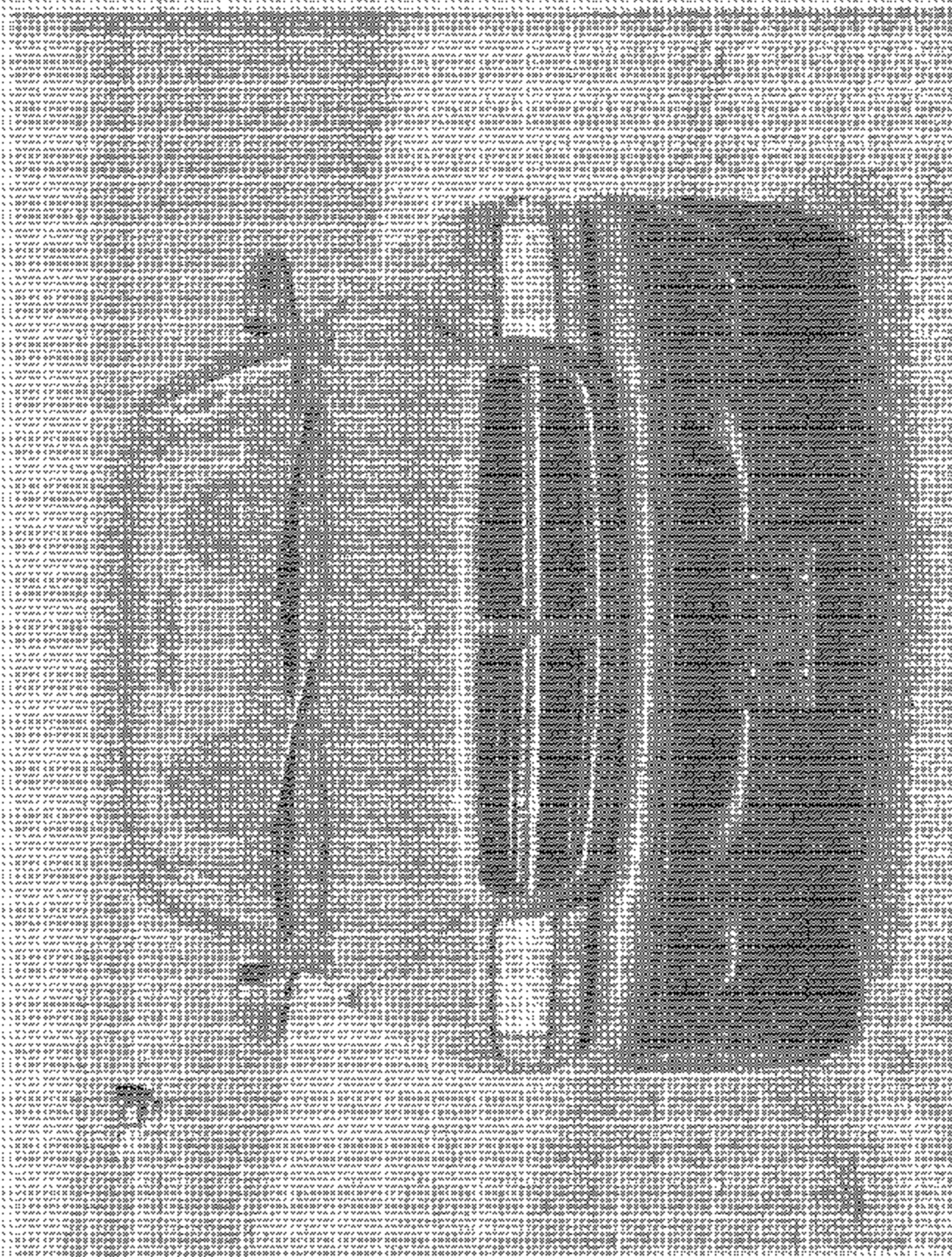
- CAMERA 1 – REAR SIDE VIEW OF VEHICLE DURING CRASH
CAMERA 2 – FRONT SIDE VIEW OF VEHICLE DURING CRASH
CAMERA 3 – OVERHEAD VIEW OF ENTIRE IMPACT
CAMERA 4 – UNDERBODY VIEW OF FUEL TANK LOCATED IN PIT

SECTION 4
INSTRUMENTATION AND EQUIPMENT LIST

TABLE 1 - INSTRUMENTATION & EQUIPMENT LIST

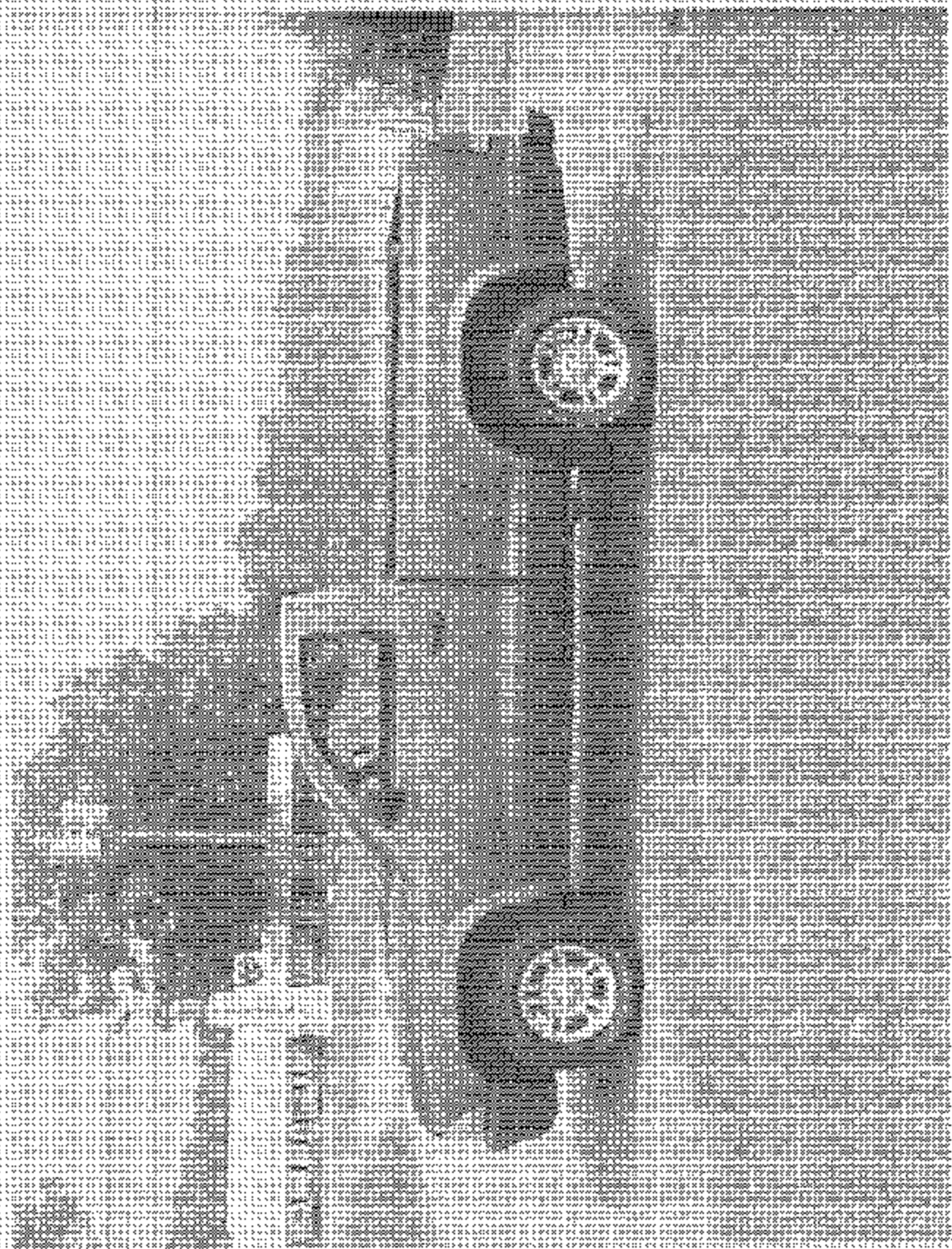
EQUIPMENT	DESCRIPTION	MODEL/ SERIAL NO.	CAL. DATE	NEXT CAL. DATE
COUNTER/TIMER	SYSTRON DONNER	19 353-10	04/03	04/04
COUNTER/TIMER	SYSTRON DONNER	19 353- 11	03/03	03/04
SPEED TRAP 2	GTL ST1	N/A	08/02	08/03
SPEED TRAP 3	GTL ST2	N/A	08/02	08/03
STOP WATCH	ACCUSPLIT	ACT 1 A&B	05/03	05/04
STOP WATCH	ACCUSPLIT	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

SECTION 5
PHOTOGRAPHS



SECRETARY OF DEFENSE

2002年11月23日 星期六



2003 DODGE DAKOTA
M/TSA NO. C00007
PNVSS N03 201L

FIGURE 3.2
LEFT SIDE VIEW OF VEHICLE PRE-TEST

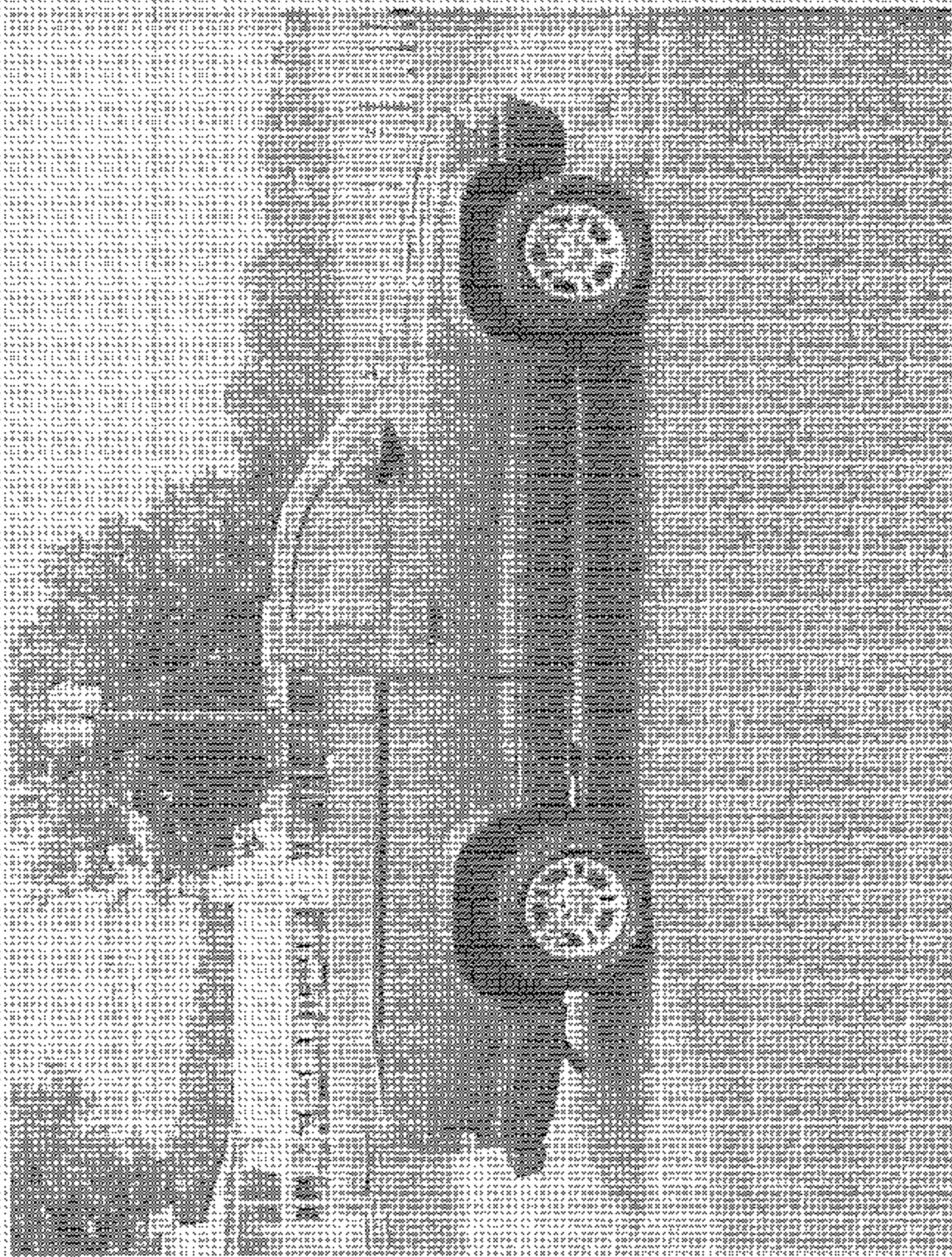


FIGURE 3A
RIGHT SIDE VIEW OF VEHICLE PRE-TEST

SNR3-D-0096 (PAK07A)
RHTSA NO. C30367
FMVSS NO. 201C

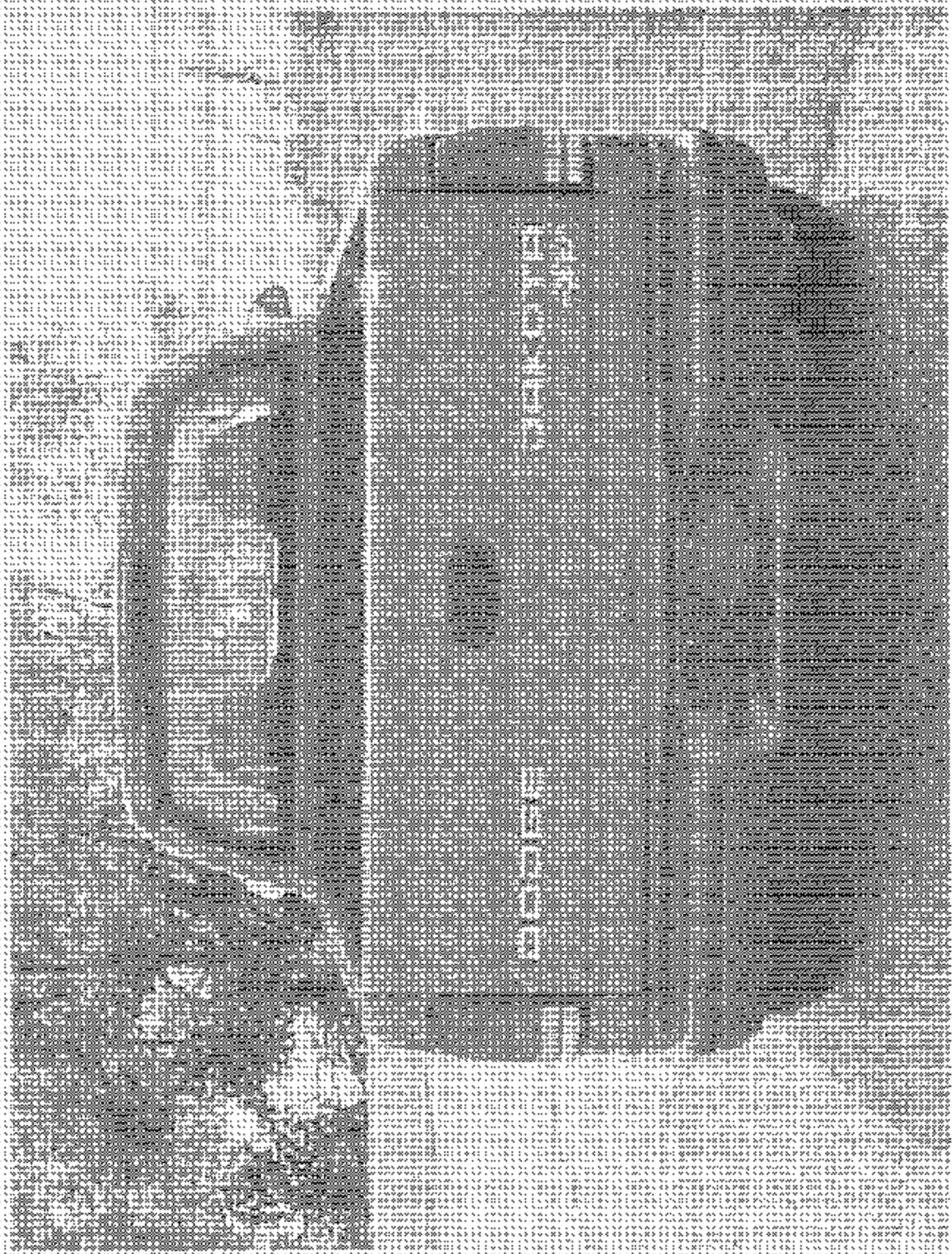


FIGURE 3-4
REAR VIEW OF VEHICLE FROM WEST

2003 DODGE CARGO
NHTSA NO. C00107
EMISS NO. 301



2000 DODGE DAKOTA
NHTSA NO. 00007
PASS NO. 001

FIGURE 68
FRONTAL VIEW FROM LEFT SIDE OF
VEHICLE PRE TEST

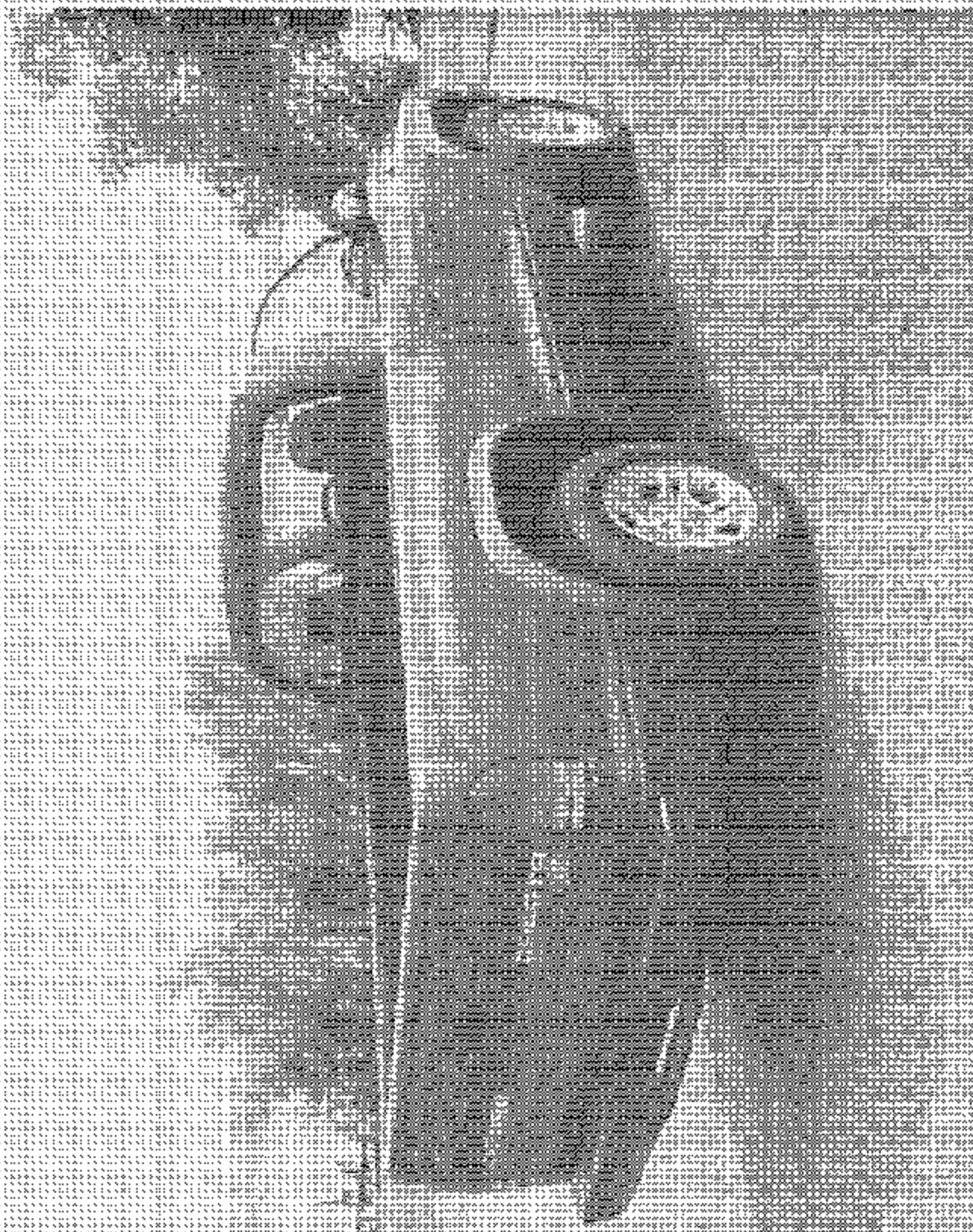


EXHIBIT 56

NHTSA NO. 63037

EMVSS NO. 301

FIGURE 56

1/2 REAR VIEW FROM RIGHT SIDE OF VEHICLE

PRETEST

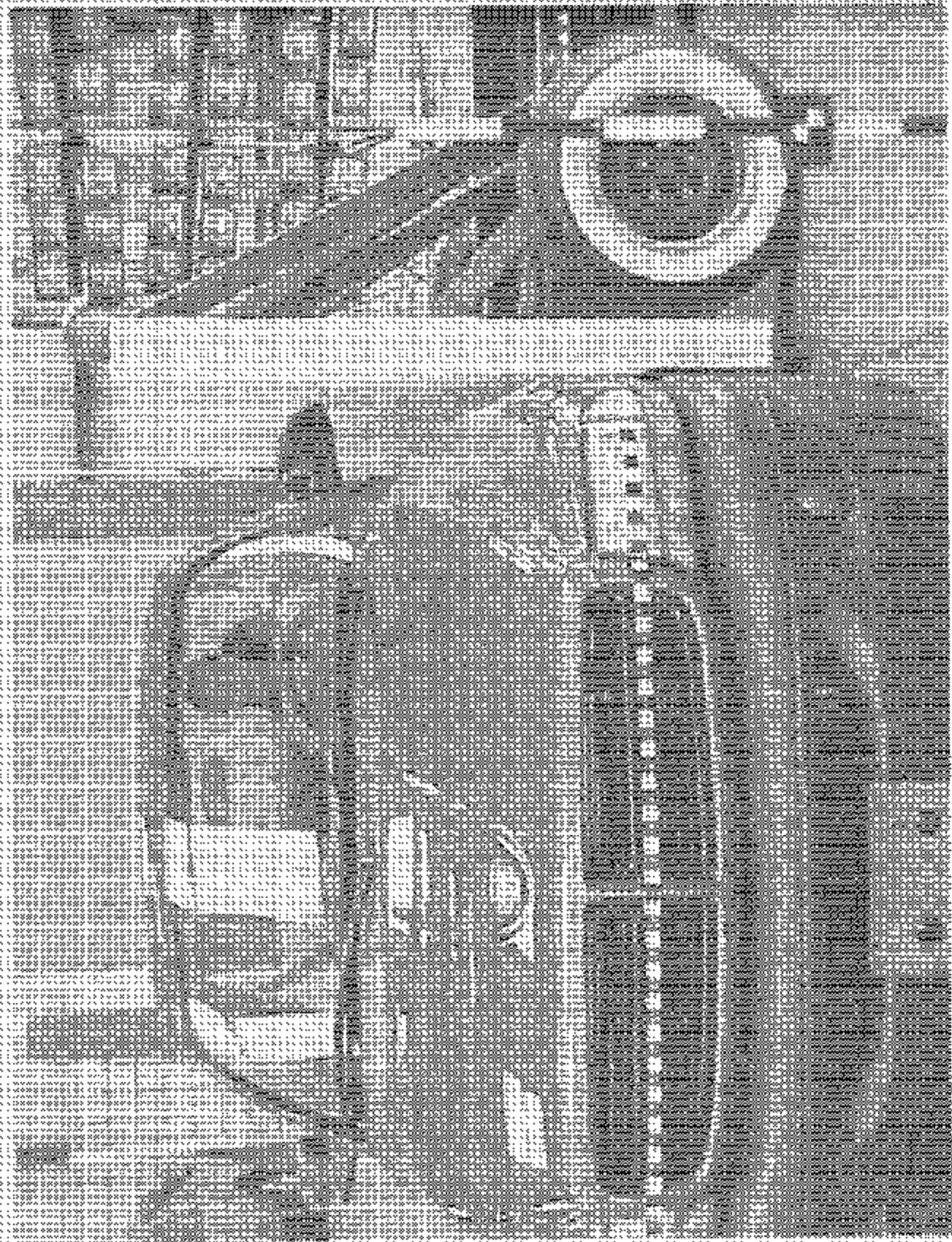


FIGURE 37
LEFT VIEW OF VEHICLE
SEARCHED BY FBI
IN MARCH 1967

FIGURE 38
LEFT VIEW OF VEHICLE
SEARCHED BY FBI
IN MARCH 1967

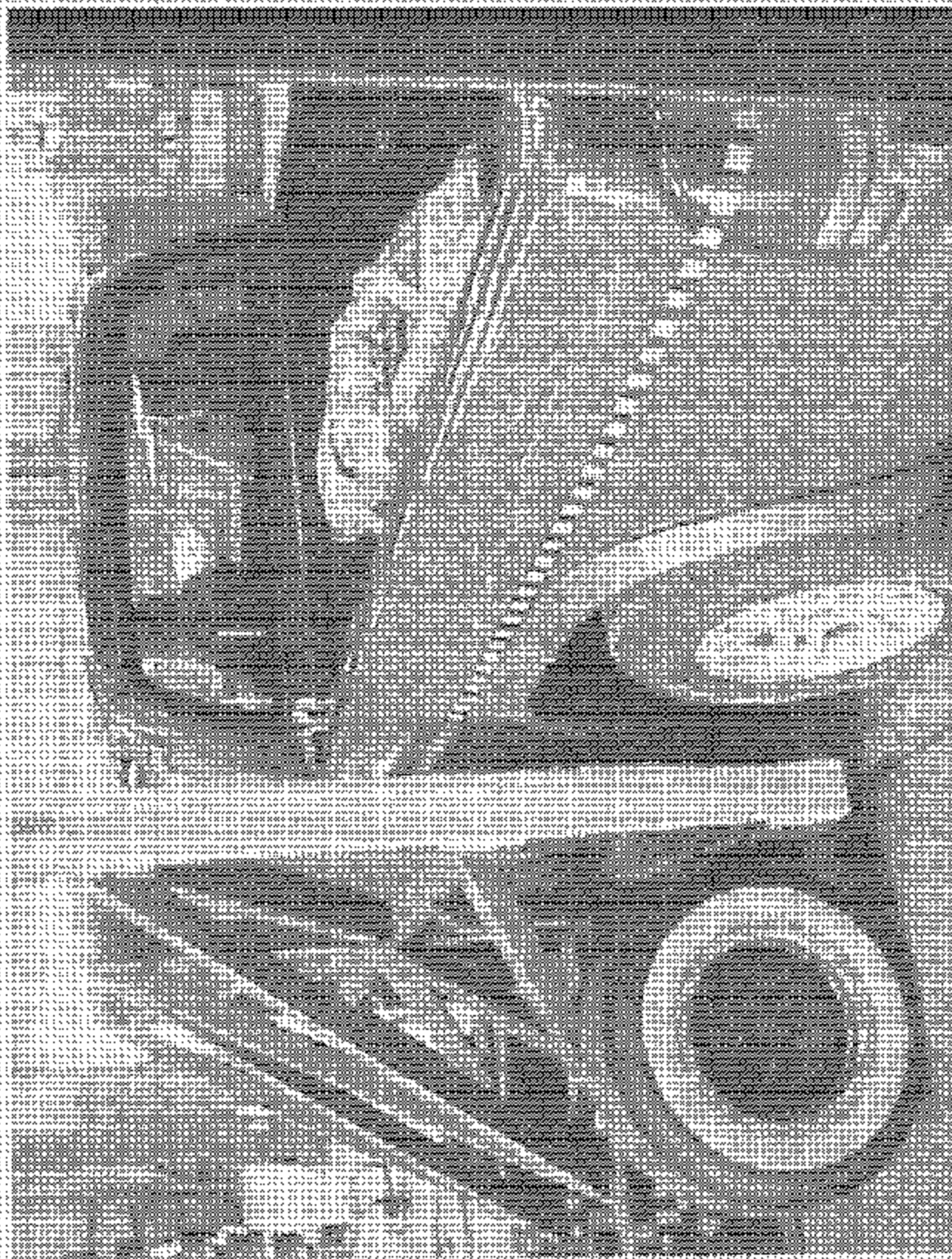
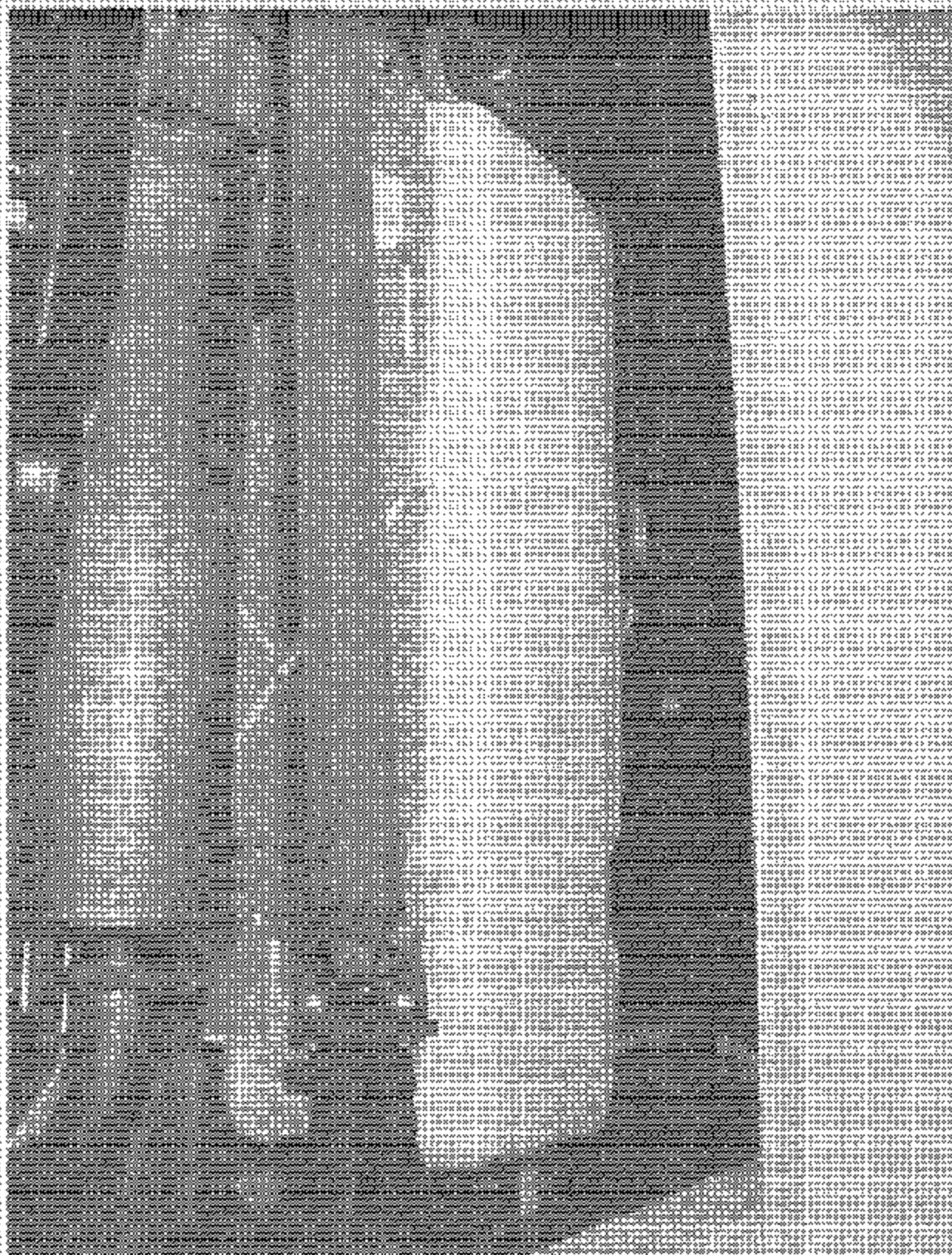


FIGURE 58
RIGHT VIEW OF VEHICLE-DARKER PRE-TEST

INIS-DIAGNOSTIC
NHTSA 80-C-00367
PLATE NO. 301



FOOTWEAR AND LEG

WITSA NO. 02007

PAUSE NO. 001

FIGURE 53

UNDERBODY VIEW OF FEET TANG RIGHT VIEW

PRE-TEST

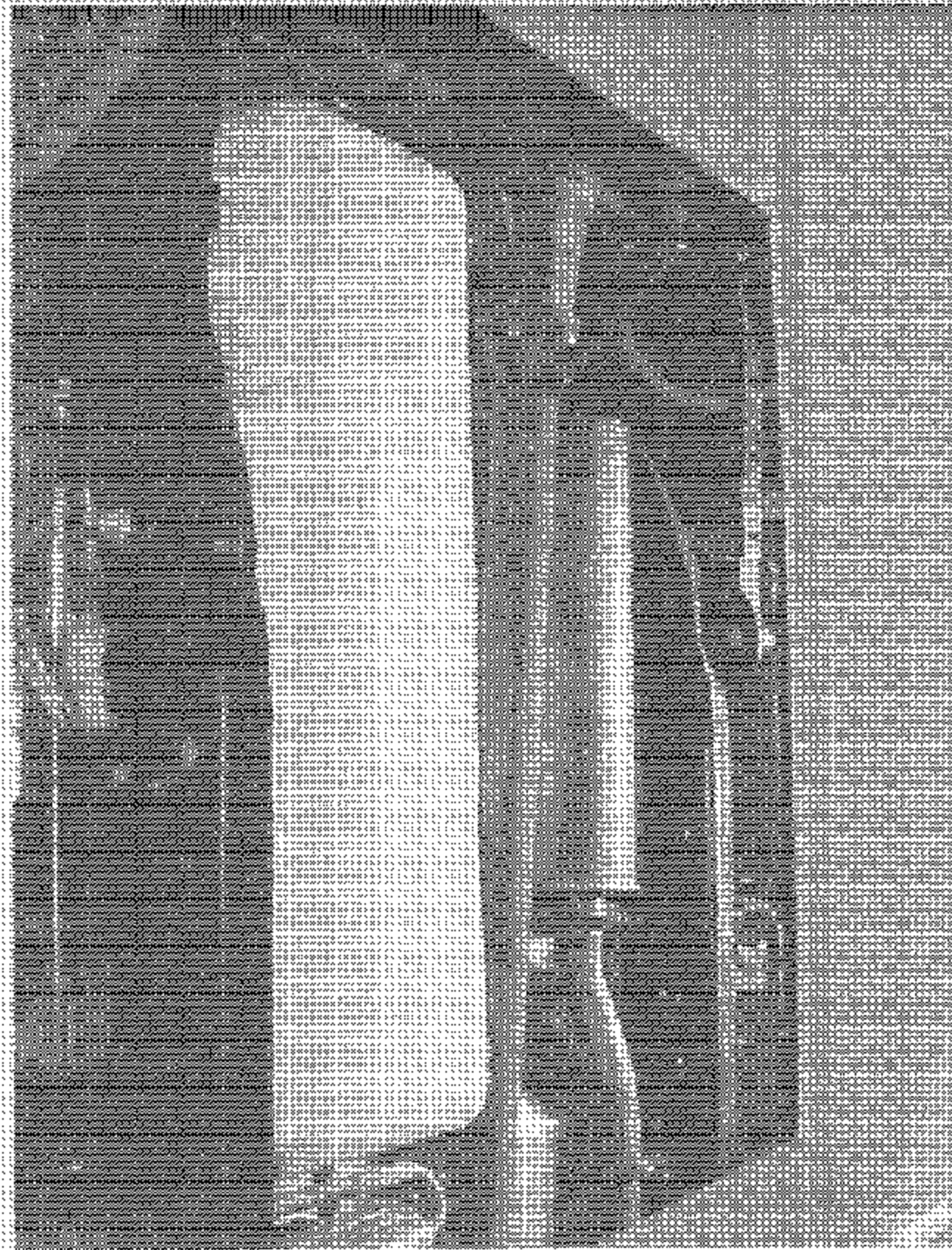


FIGURE 5.13
UNDERBODY VIEW OF FUEL TANK, LEFT VIEW
PRE-TEST

50300500E.DARTLA
NHTSA NG 050507
FW5530 301

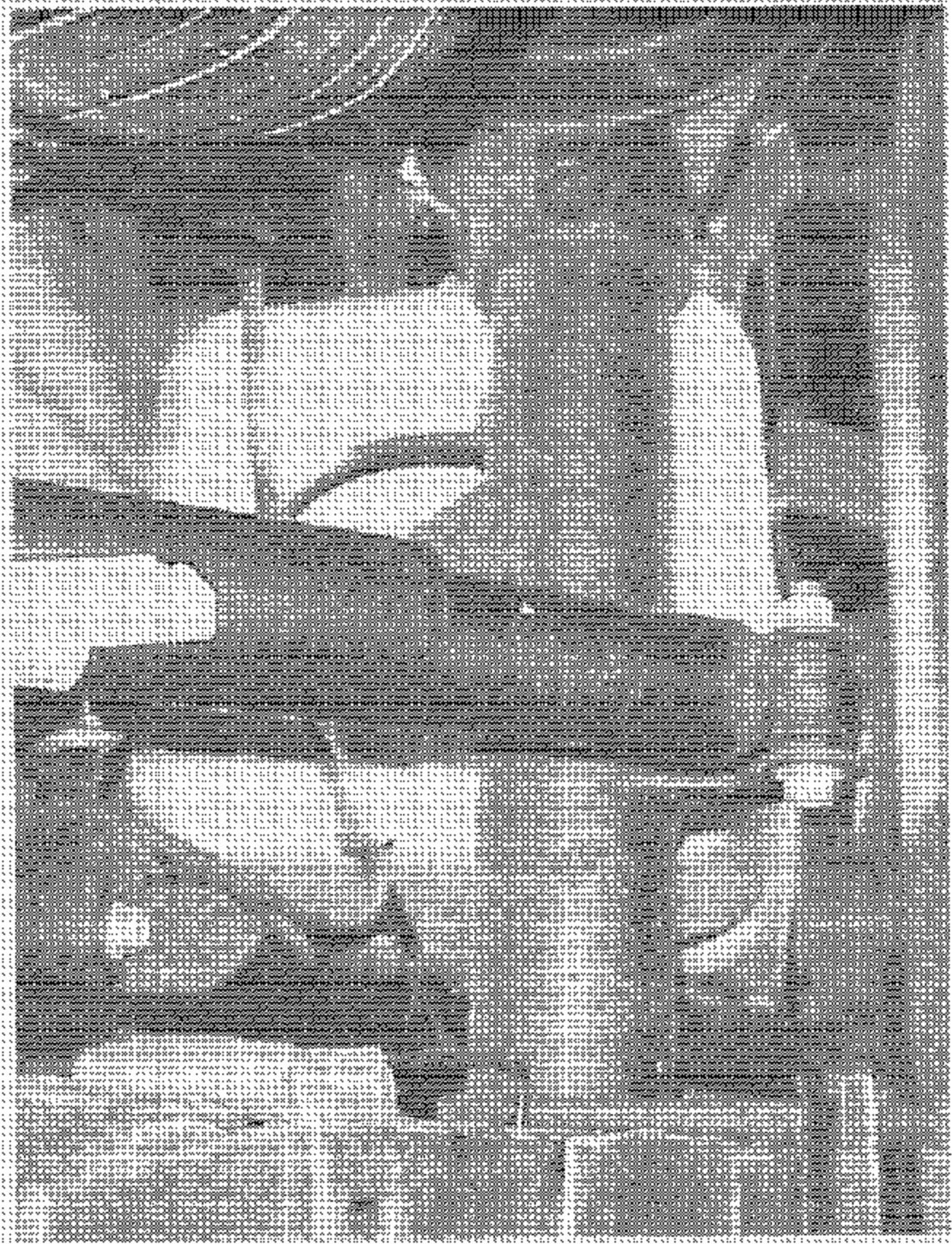
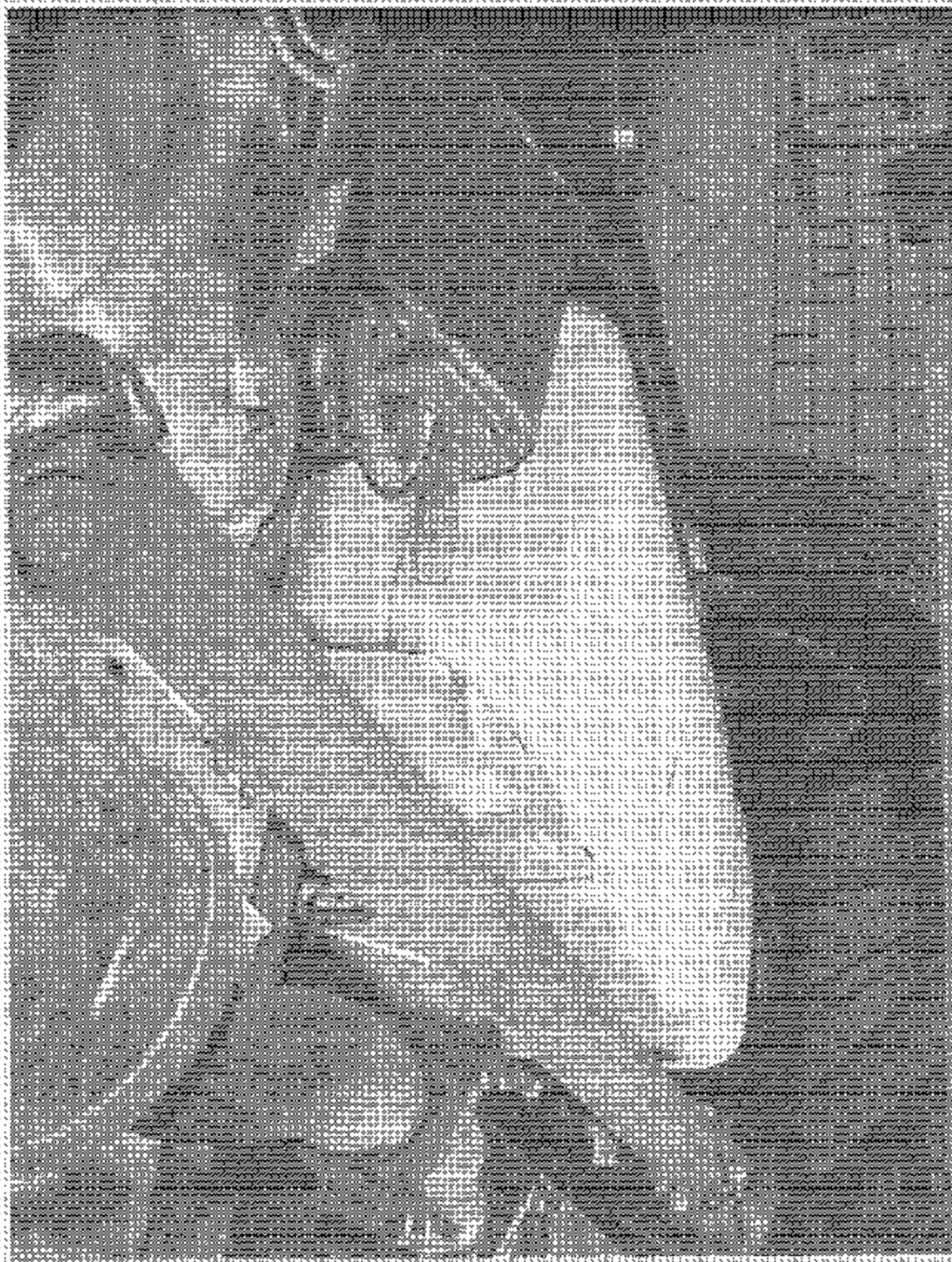


FIGURE 51
UNDERBODY VIEW OF FUEL TANK BLEAK VIEW
PRE-TEST

2007 BONDAGE DAKOTA
AMT-6A MEX 020207
#MAYSCNO 2012



DN13 D1100E0007X
NHTSA NO. C30007
REVISS NO 101

FIGURE 5.12
INTERIOR VIEW OF FUEL TANK FRONT VIEW
PRETEST

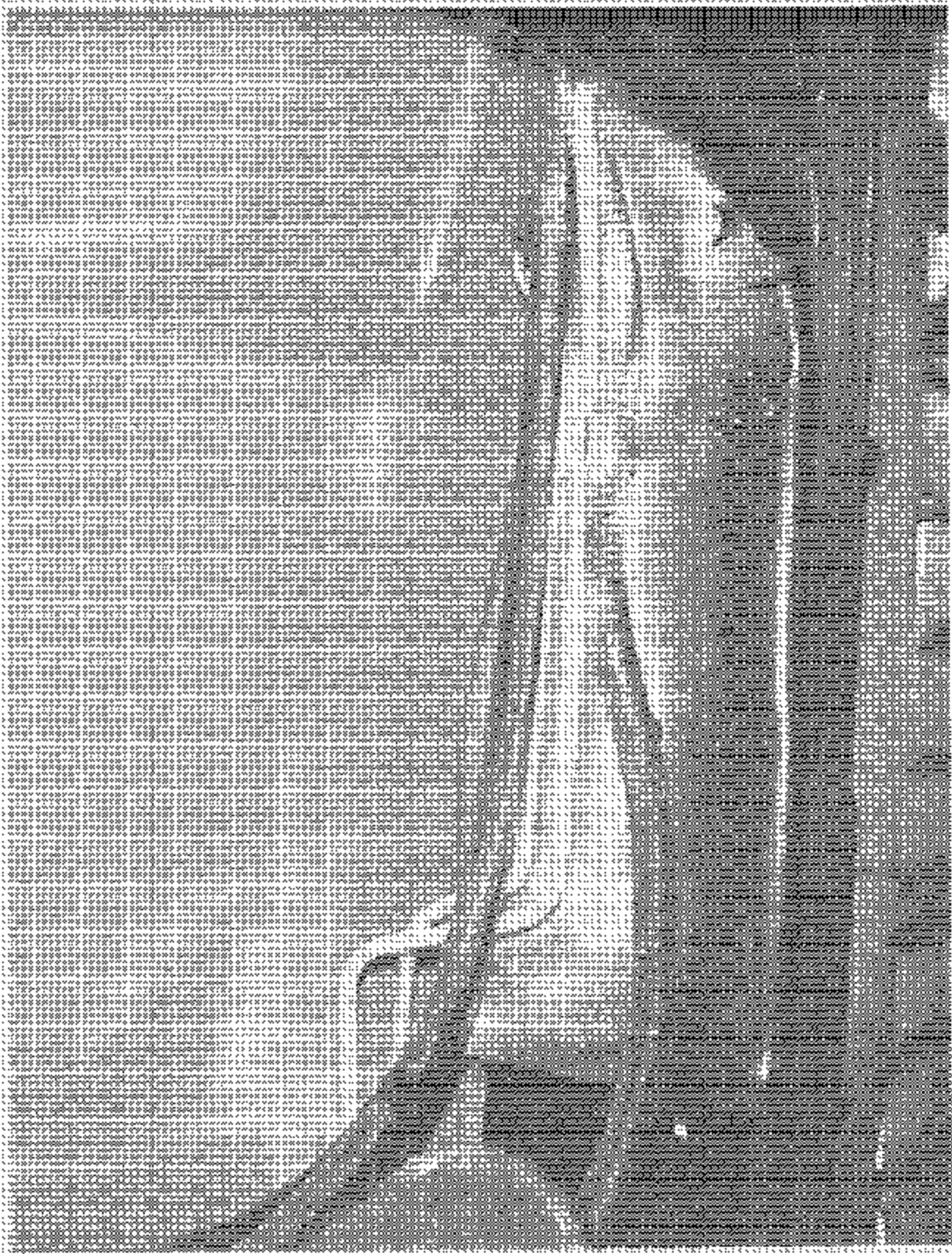
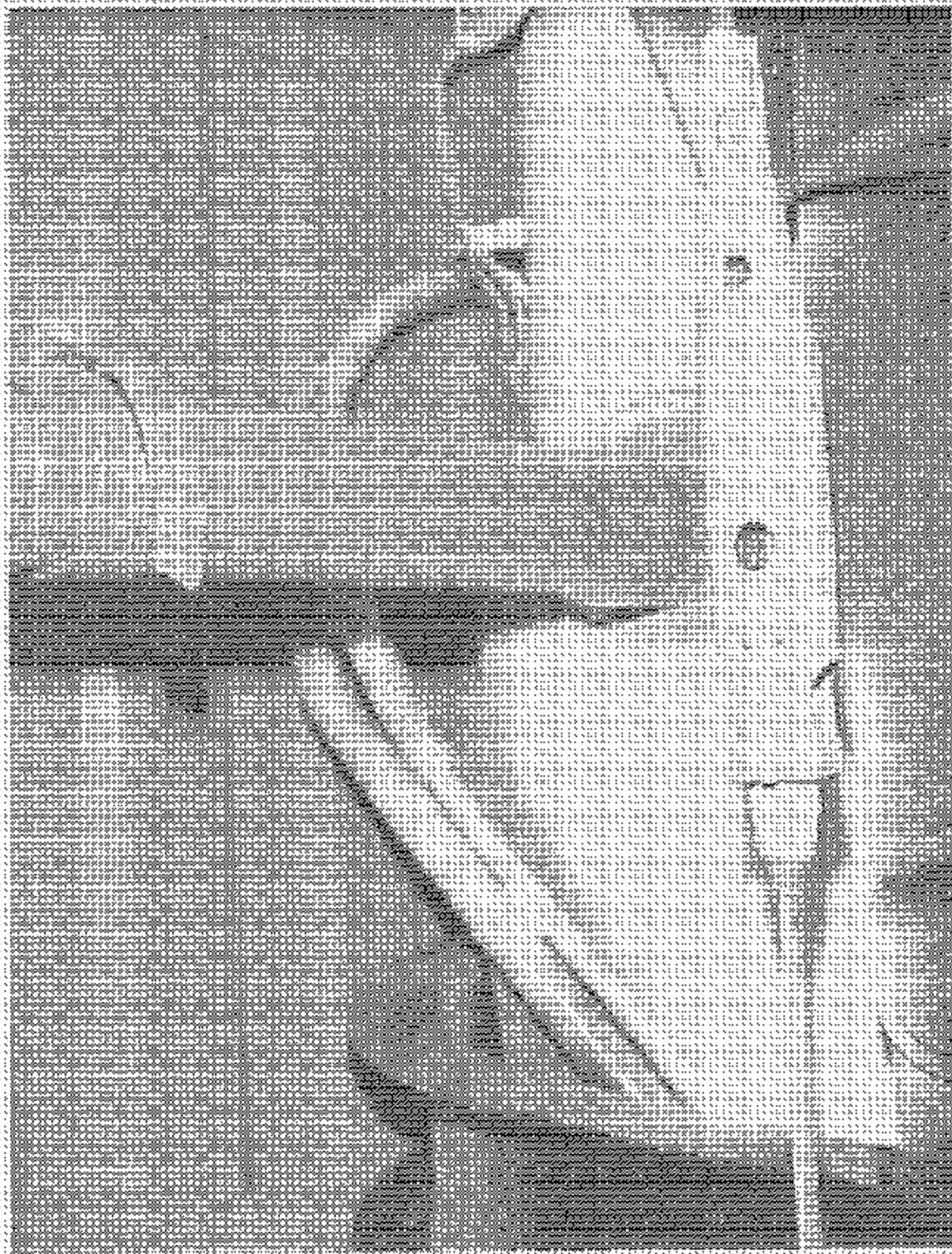


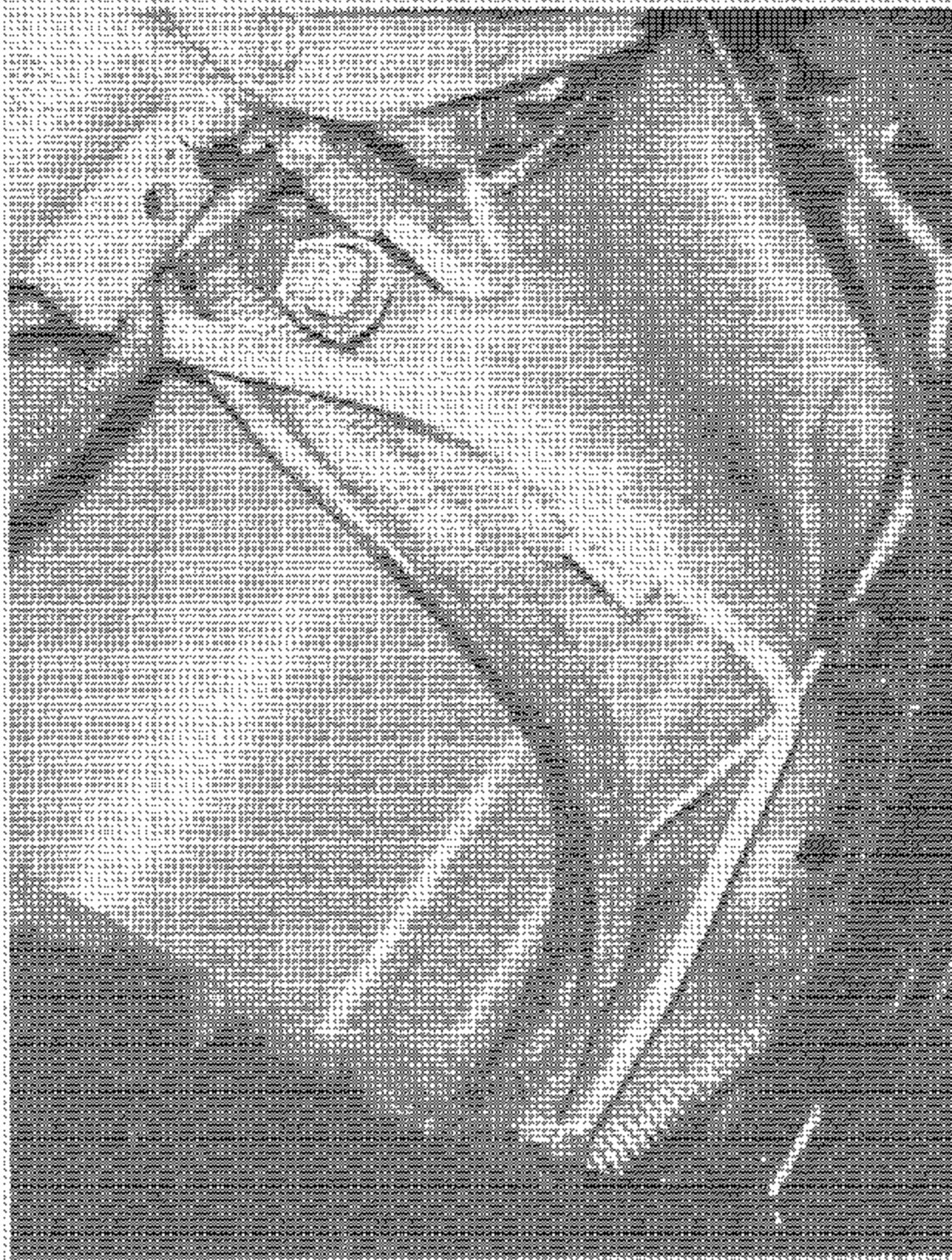
FIGURE 3-13
UNDERBODY VIEW OF FUEL LINES PRE-TEST

2003 DODGE/RYA
NHISA NY 06254
FLVSS NO 301



THIS IMAGE DATA
WAS NOT CAPTURED
ON 05/01/2011

FIGURE 11
UNDERBODY VIEW FUEL FIL HOSE AND FUEL
LINES AT TANK PRE-TEST



UNITED STATES PATENT
OFFICE
WASHINGTON, D.C.

FIGURE 3-45
UNDERBODY VIEW OF FUEL LINES TO ENGINE

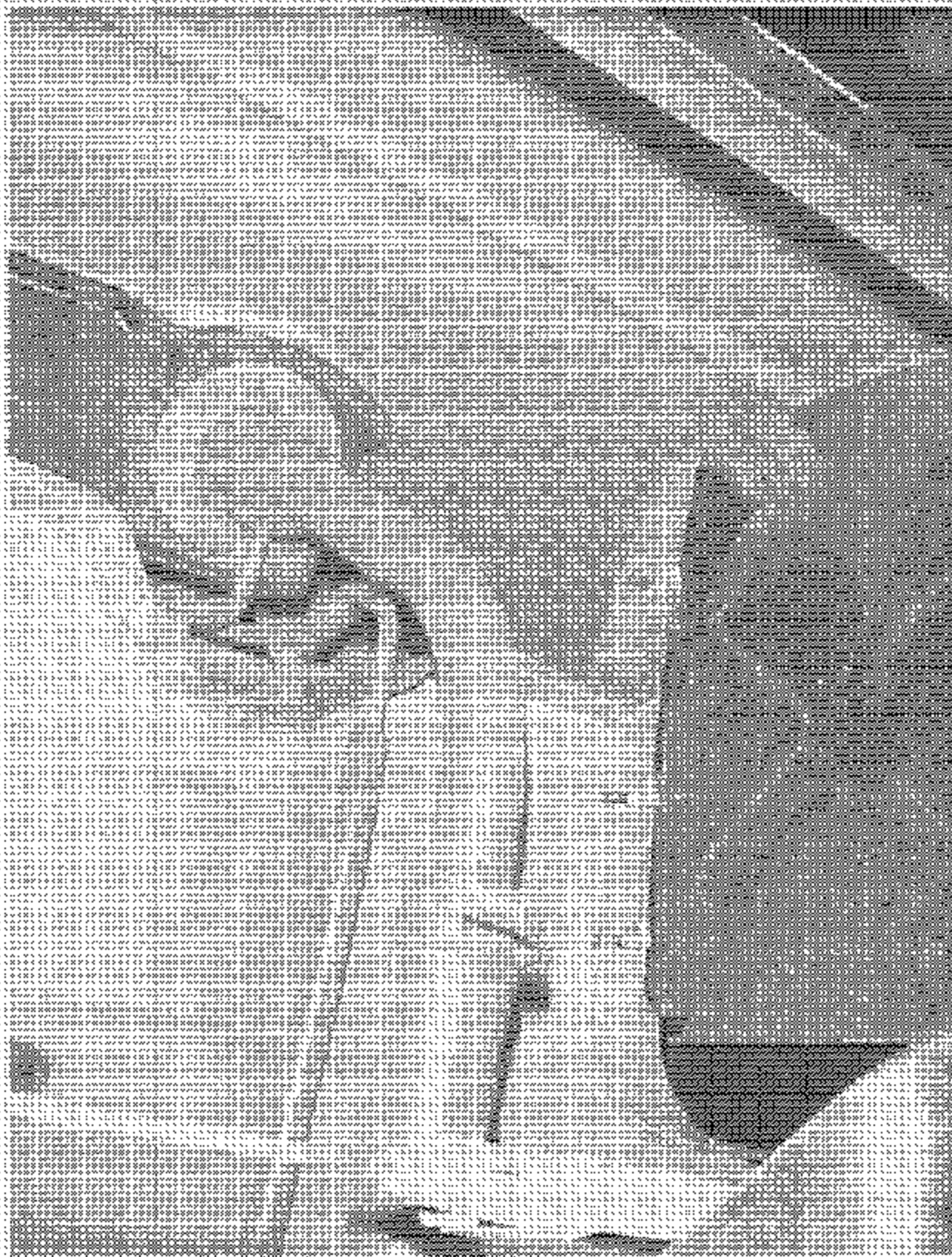


FIGURE 5.19
UNDERBODY VIEW OF FUEL, FILL AND VENT
LINES AT FILLER

THIS DOCUMENT IS
NHTSA NO. C30357
FMVSS NO. 301

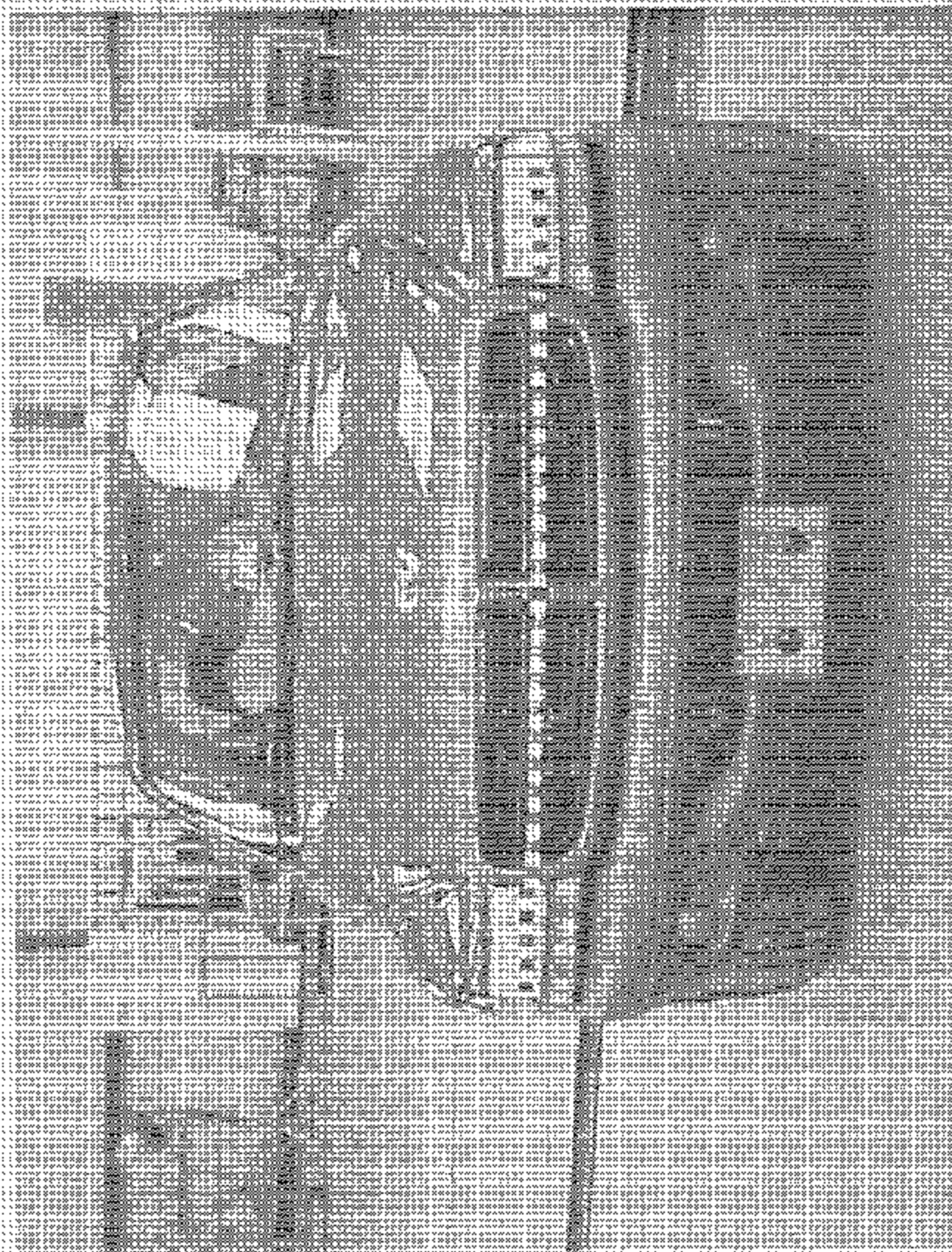
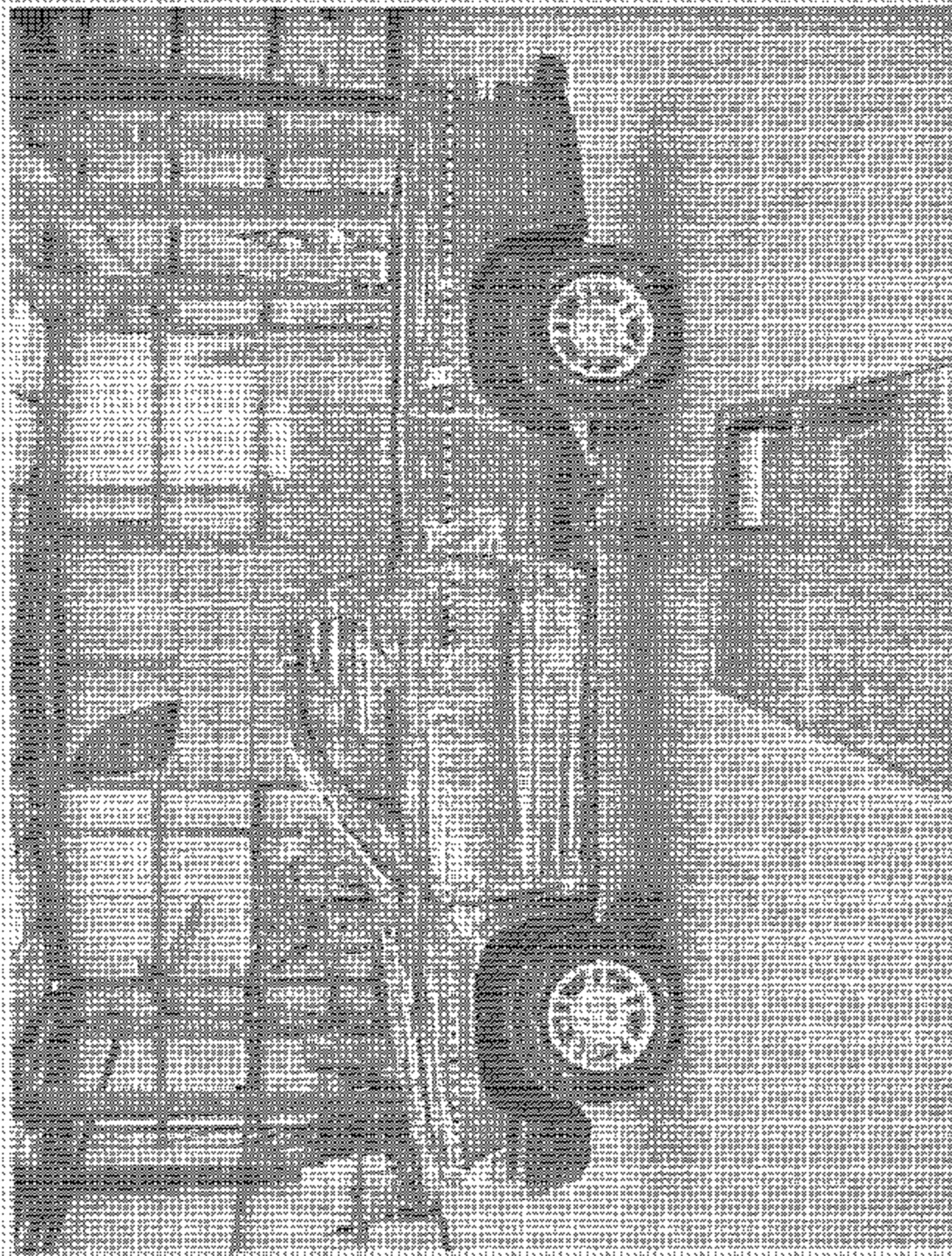


FIGURE 5-13
FRONT VIEW OF VEHICLE POST-TEST

2001 DODGE DAKOTA
4MT 5A MT 2000
AWSS NO. 301



2003 DODGE DART
ARTS NO. 00000000
CLASS NO. 001

2003 DODGE DART
LEFT SIDE VIEW OF VEHICLE POST TEST

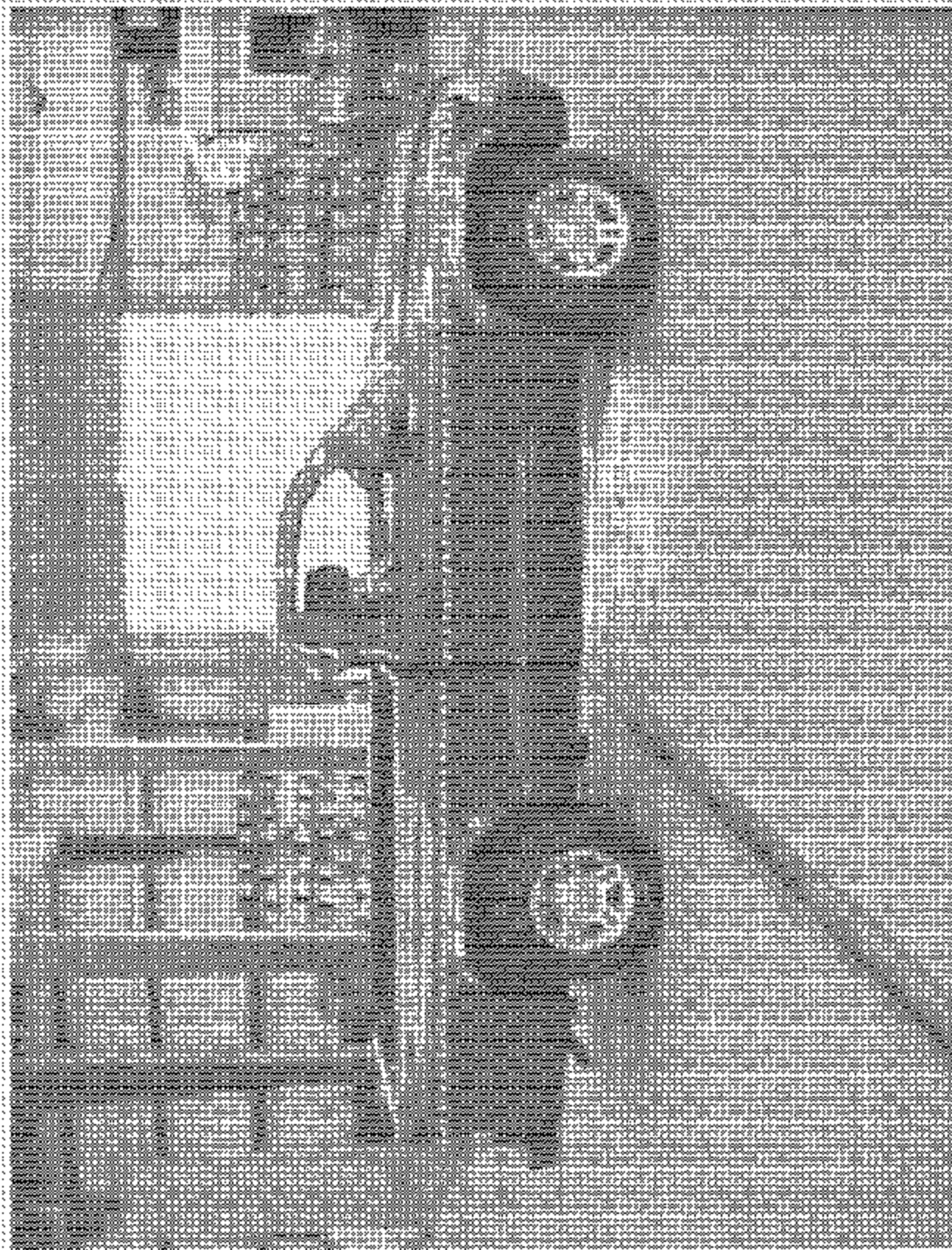


FIGURE 2-1
RIGHT SIDE VIEW OF VEHICLE FROM TEAM

2003-2004 GEORGIA
NUTS & BOLTS
SWISS NO. 3012

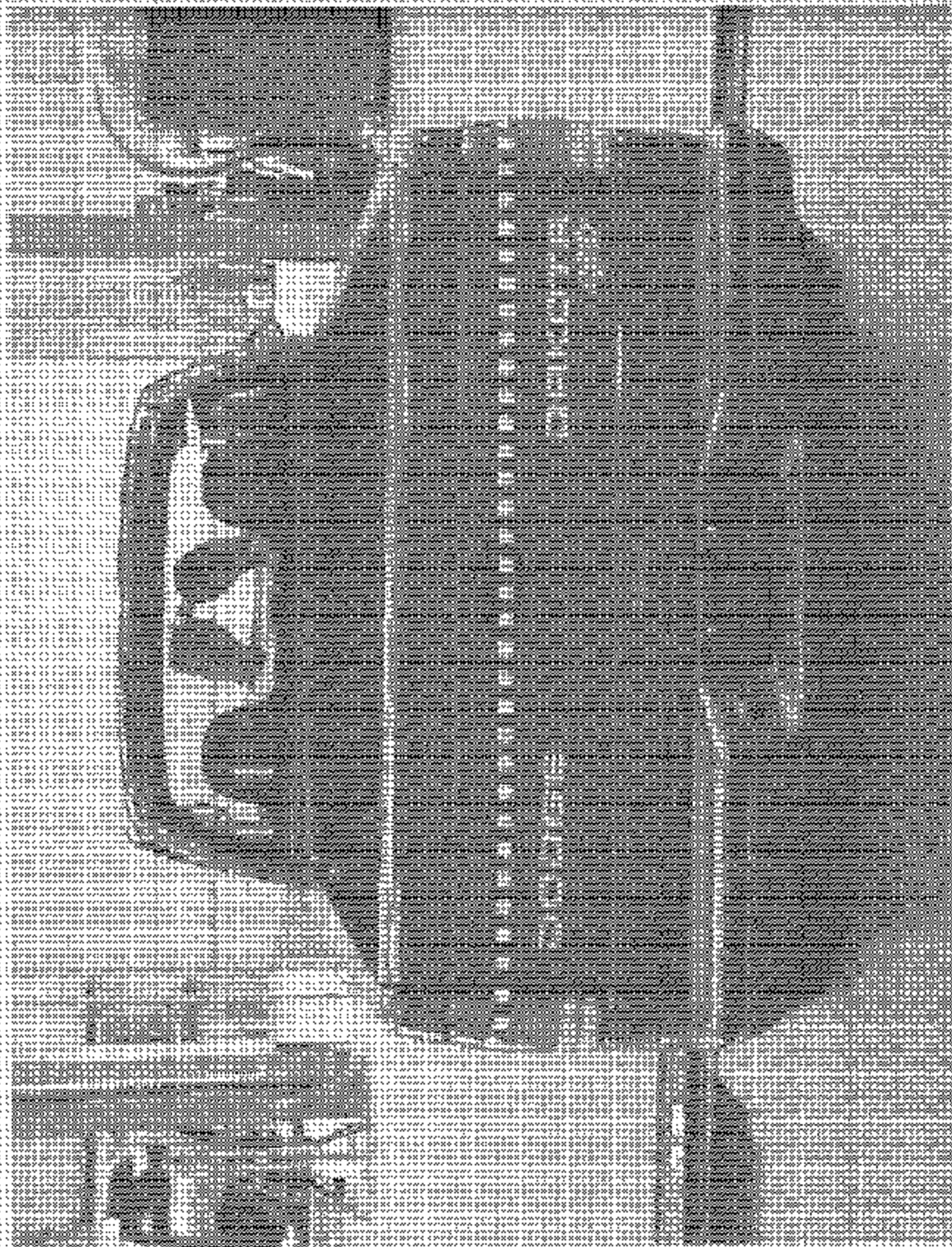
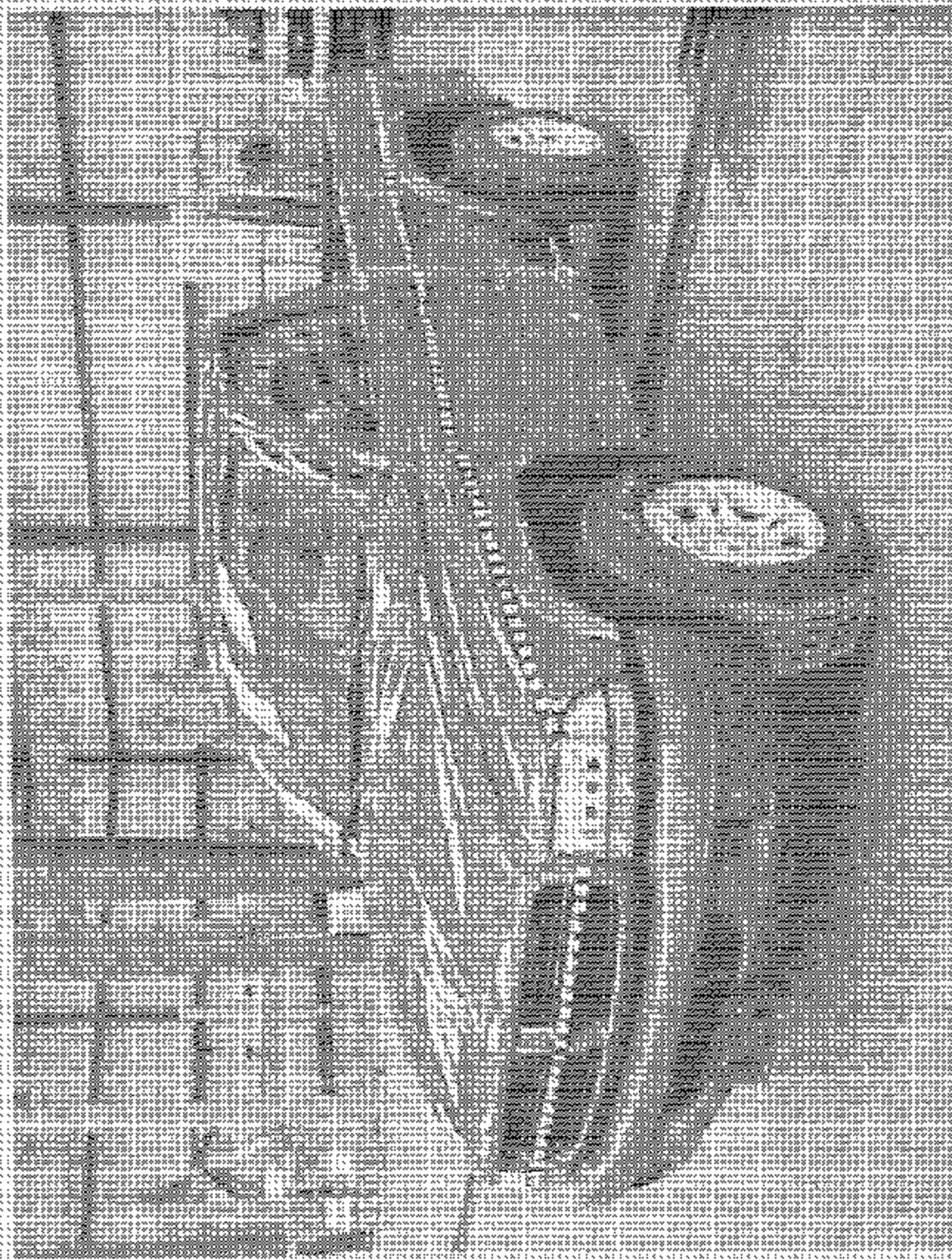


FIGURE 5.22
REAR VIEW OF VEHICLE POST TEST

STATE OF MINNESOTA
MILWAUKEE COUNTY
INVESTIG. DIV.



2001 HONDA CIVIC
NHTSA NO. 010007
FORDSON 2011

EX-100-323
A FRONTAL VIEW FROM LEFT SIDE OF
VEHICLE FOR THIS

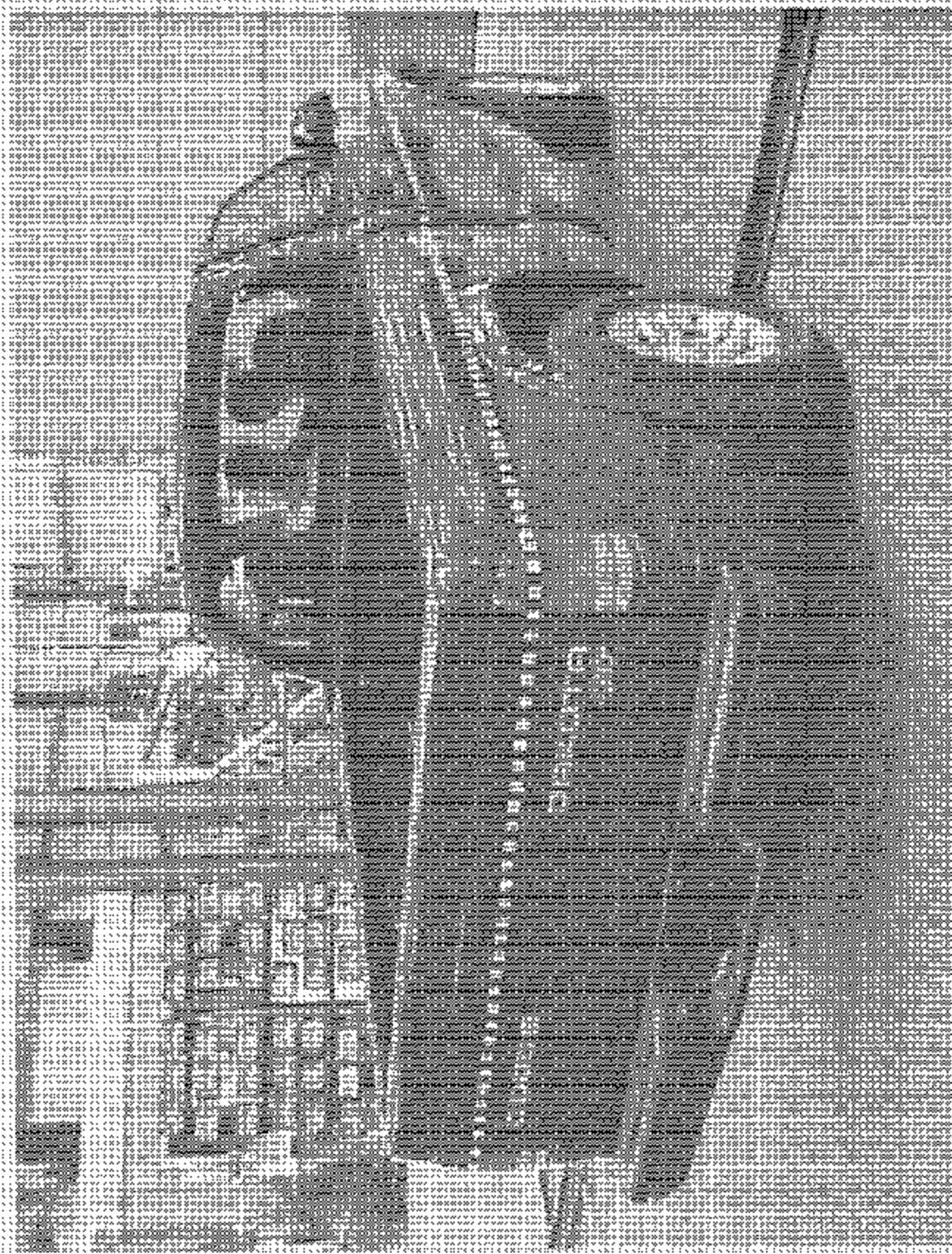
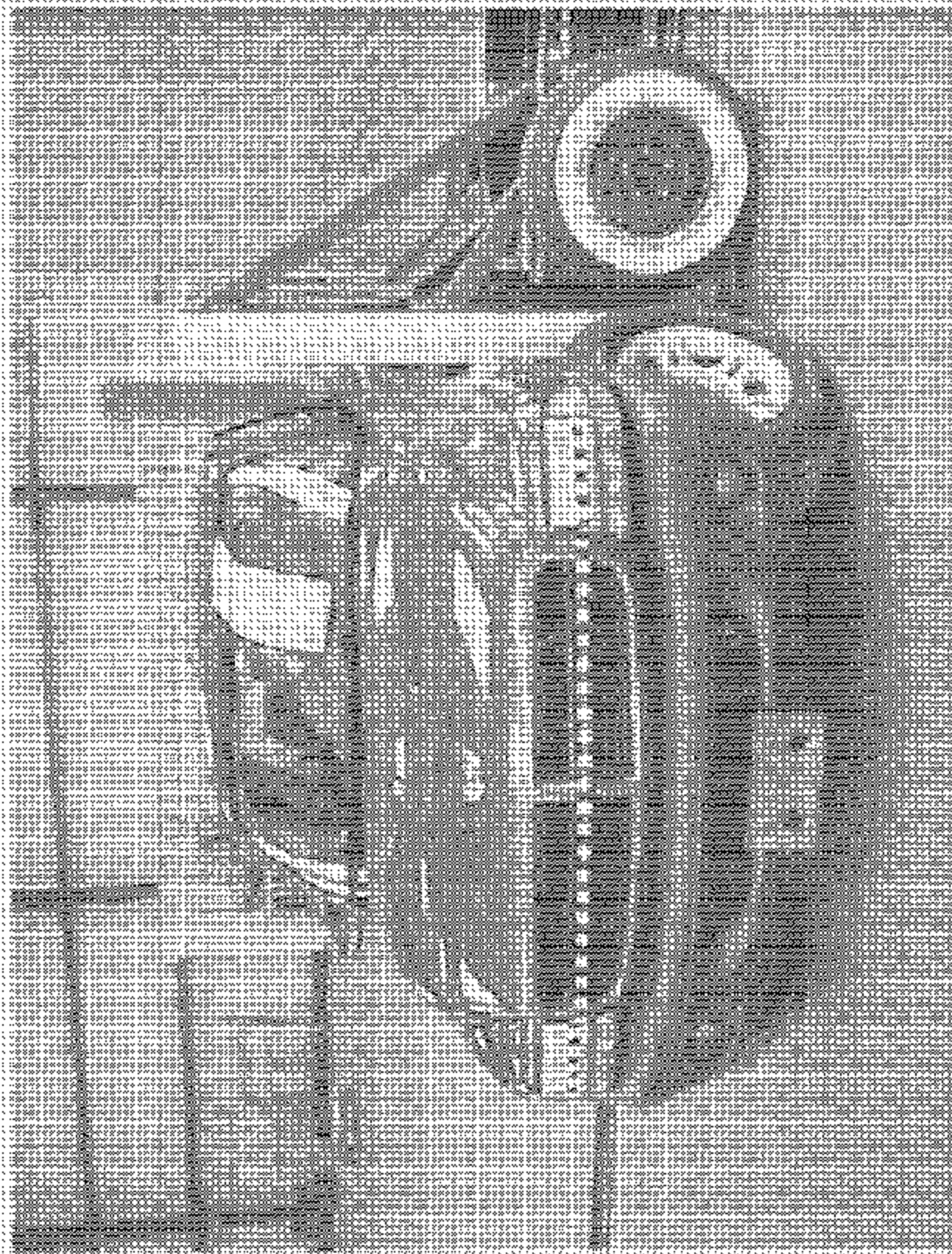


FIGURE 52A
A. REAR VIEW FROM RIGHT SIDE OF VEHICLE
POST TEST

UNIVERSITY OF ILLINOIS
AMTGA NO. 000007
PAGE NO. 001



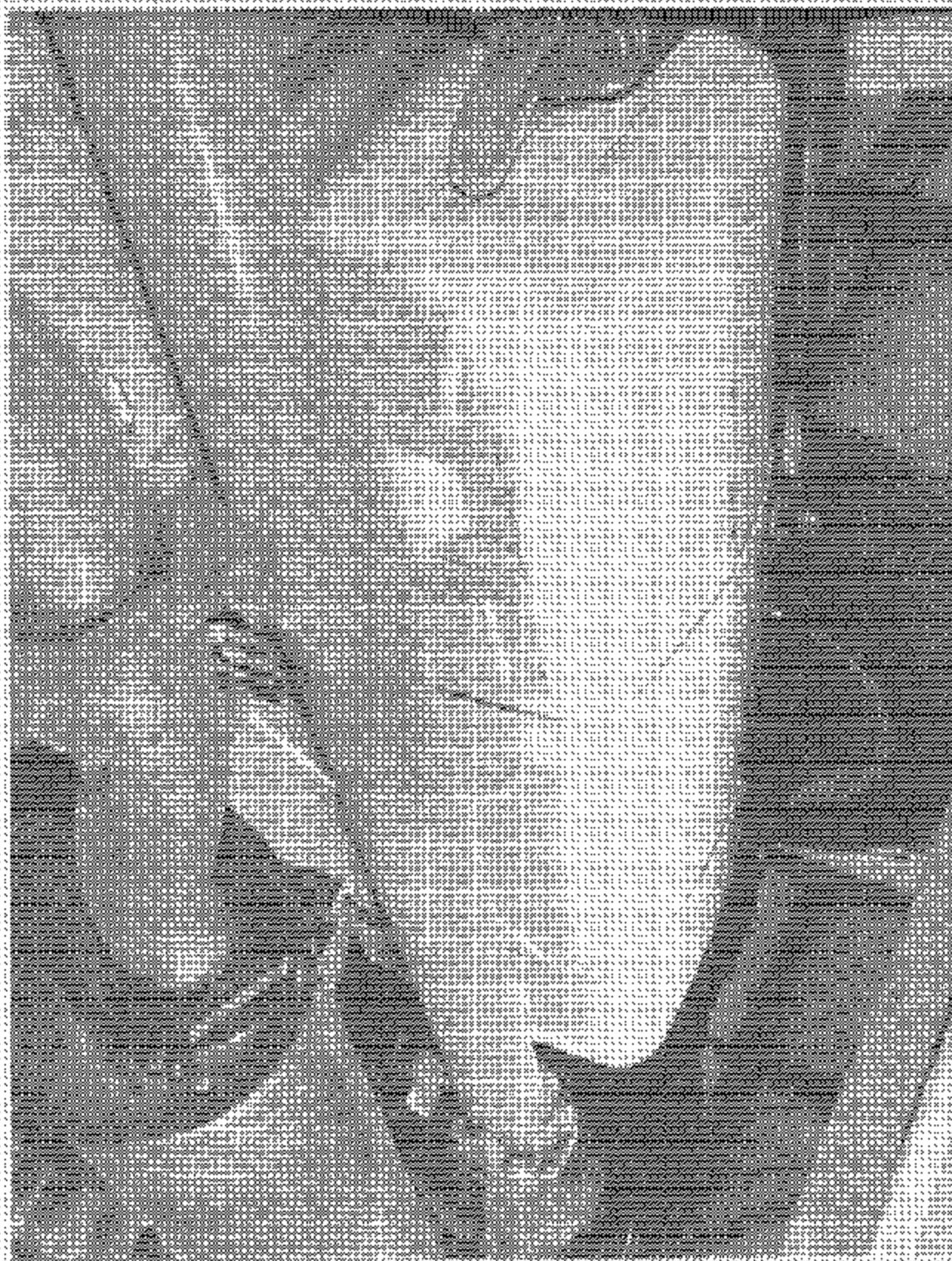
2003 DODGE DAKOTA
NHTSA NO. D20307
FMVSS NO. 301

FIGURE 25
LEFT VIEW OF VEHICLE/SAMIER POST TEST



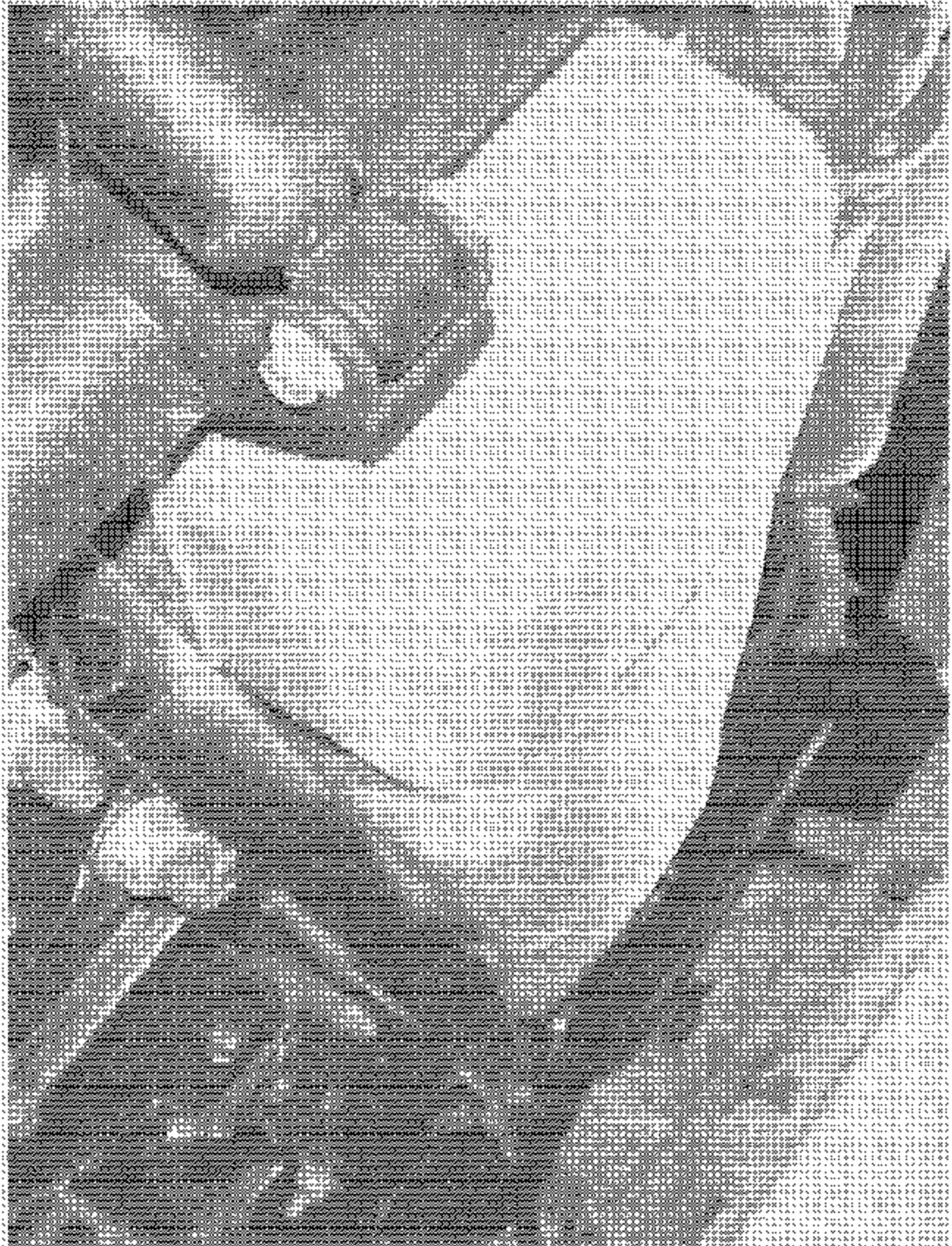
DAVIDSON TECHNOLOGY
ARTS AND CRAFTS
FABRICATING

FIGURE 120
RIGHT VIEW OF VEHICLE BARRIER POST TEST



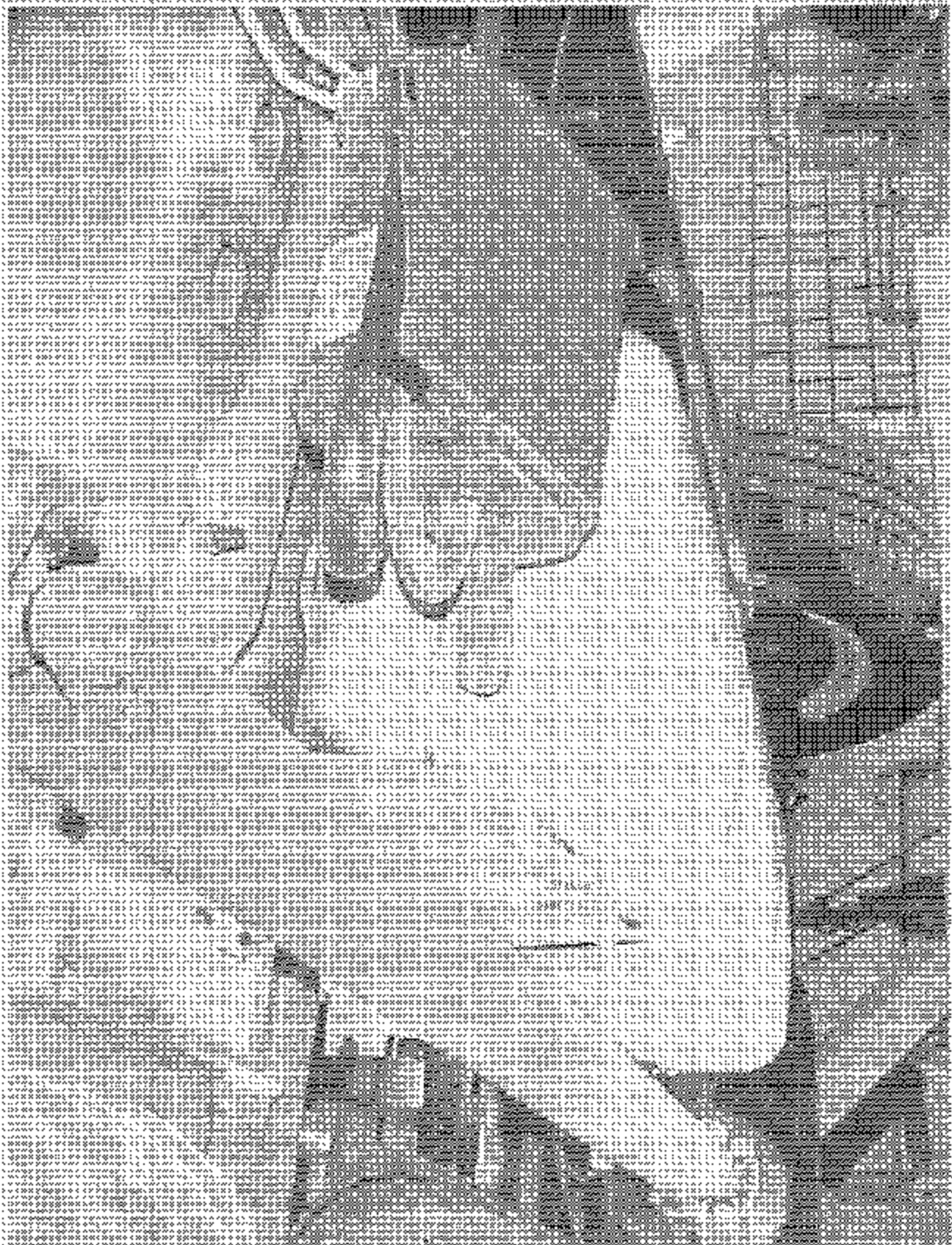
FOOTPRINT/INVESTIGATION
NMT&A NO. 00-217
PHOTO NO. 101C

FIGURE 3.27
UNDERBODY VIEW OF FUEL TANK RIGHT VIEW
POST TEST



503 DPMO EPMO EA
NHTSA NO. 230597
FMVSS NO. 301C

FIGURE E-29
UNDERSOBY VIEW OF FUEL TANK LEFT VIEW
POST TEST

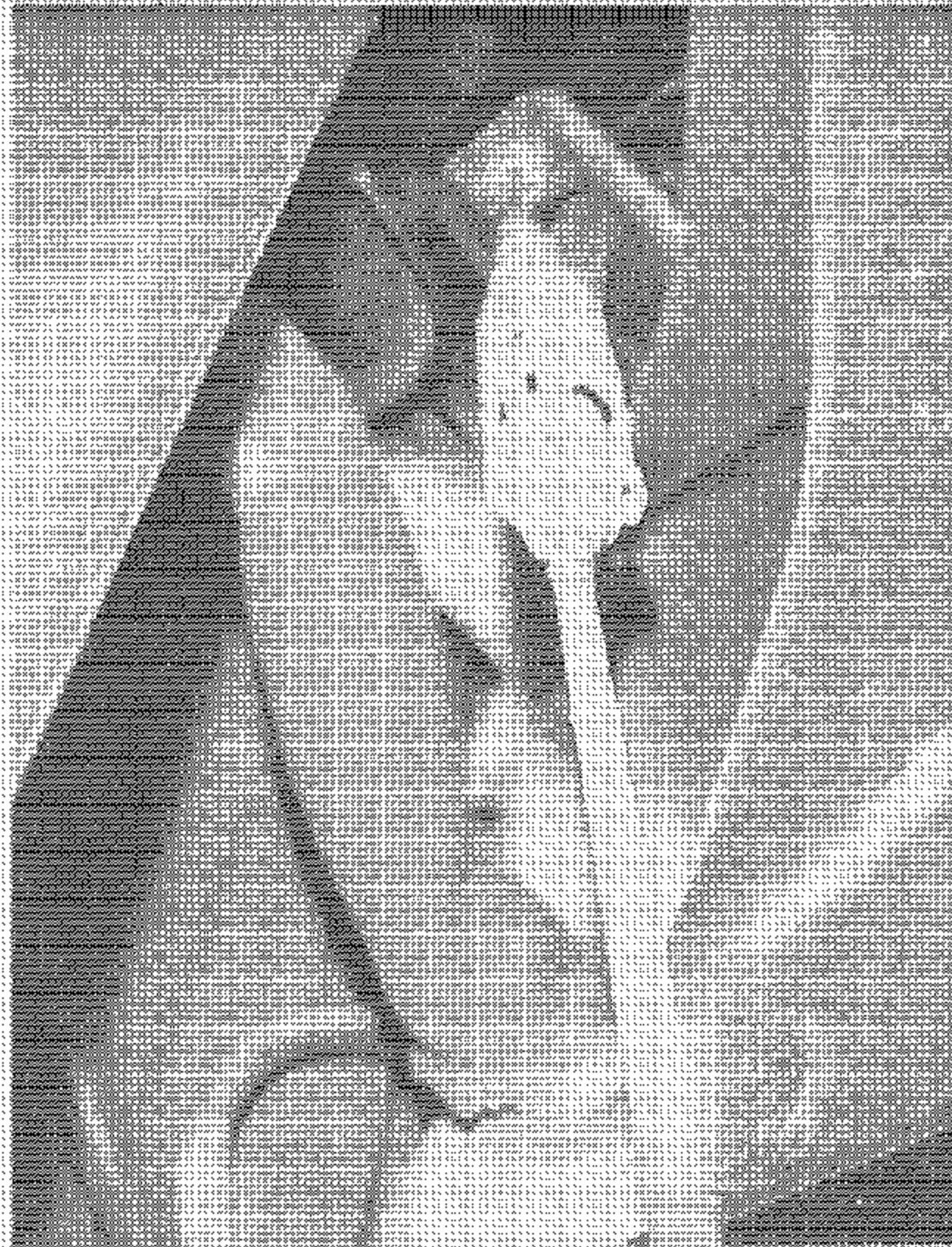


2005 DODGE CARGO
MITSUBISHI CARGO
FUSION 3.0L

2005 DODGE CARGO
MITSUBISHI CARGO
FUSION 3.0L

Figure 1 displays a sequence of 40 grayscale images arranged in a 4x10 grid. Each image shows a handwritten digit '4' on a textured background. The images are indexed from 1 to 40, starting from the top-left and moving right, then down. As the index increases, the digit becomes progressively more distorted and noisy, representing a degradation process.

THE WOMAN CONNECTION



2003 DODGE DART EA
NHTSA NO. 330267
CROSSAD 331E

FIGURE 3-32
UNDERBODY VIEW OF FUEL NOZZLE AT
TANK POST TEST

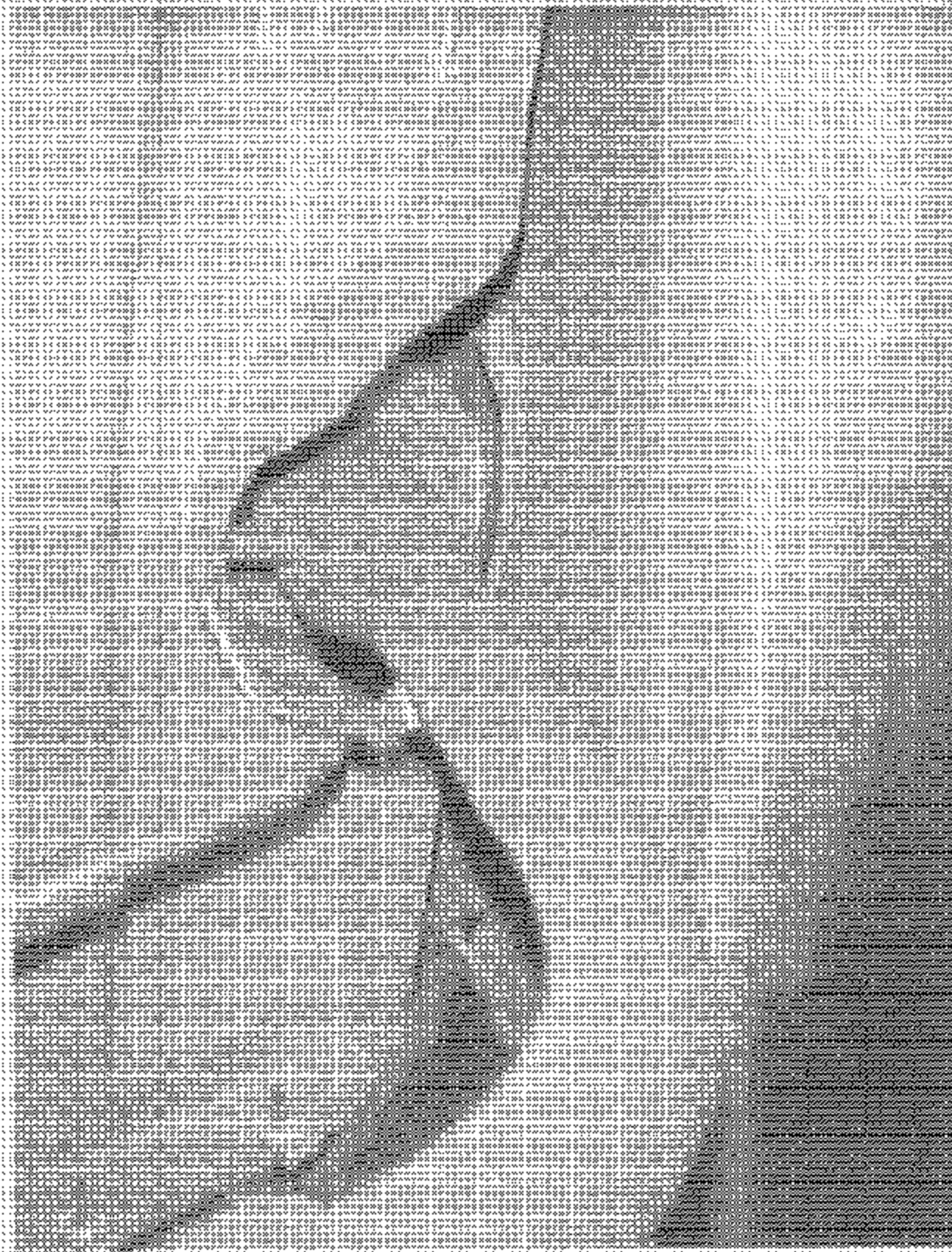


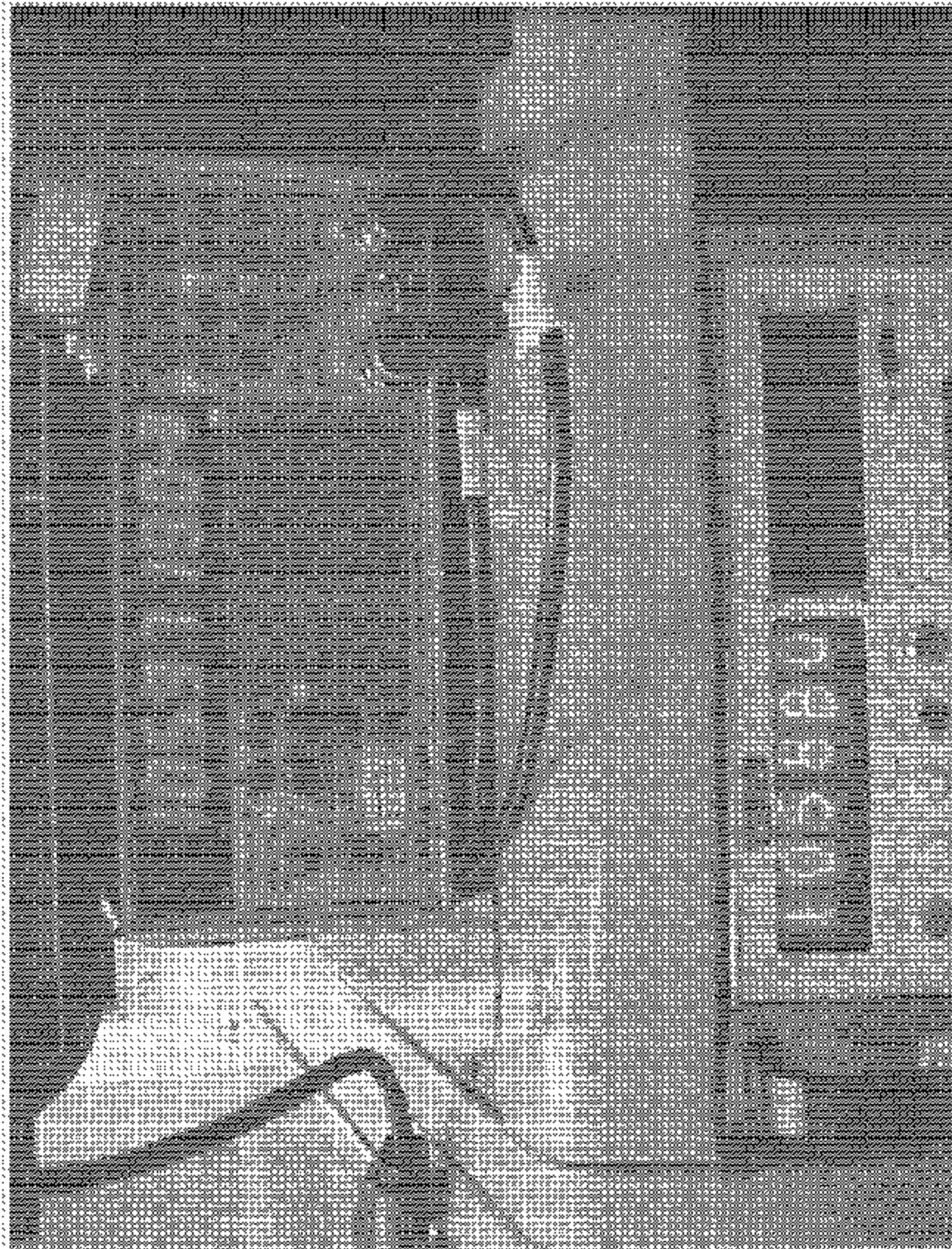
FIGURE 5-13
UNDERBODY VIEW OF FULL FLIC NOSE AT
FLIPPOST TEST

2003 DODGE DAKOTA
NHTSA NO. 230627
FMVSS NO. 2011



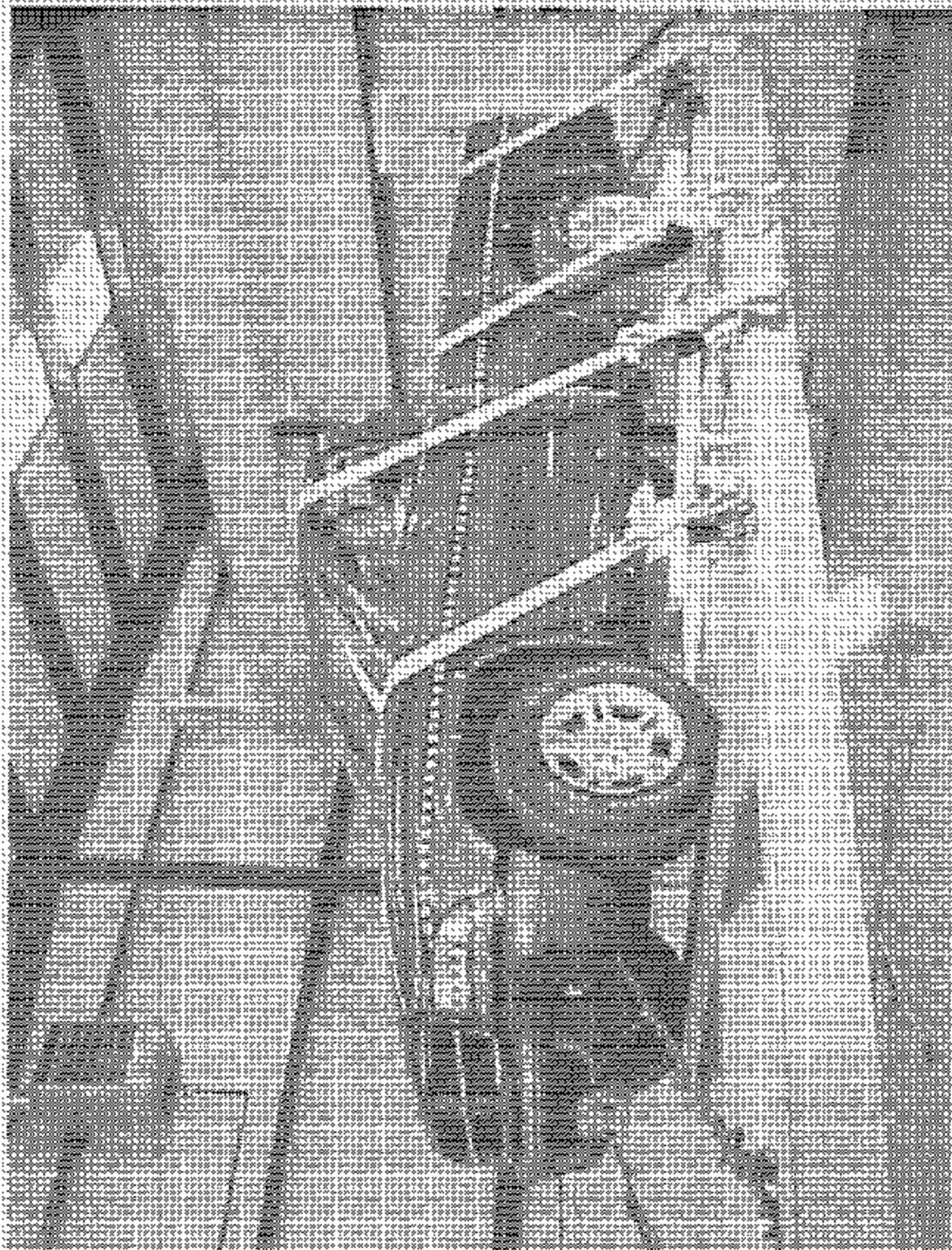
SCOTT DODGE DANCER
 NHTBA NO. C20877
 FIVE AND SEVEN

FIGURE 3-14
 UNDERBODY VIEW OF FUEL LINES TO ENGINE
 POST TEST



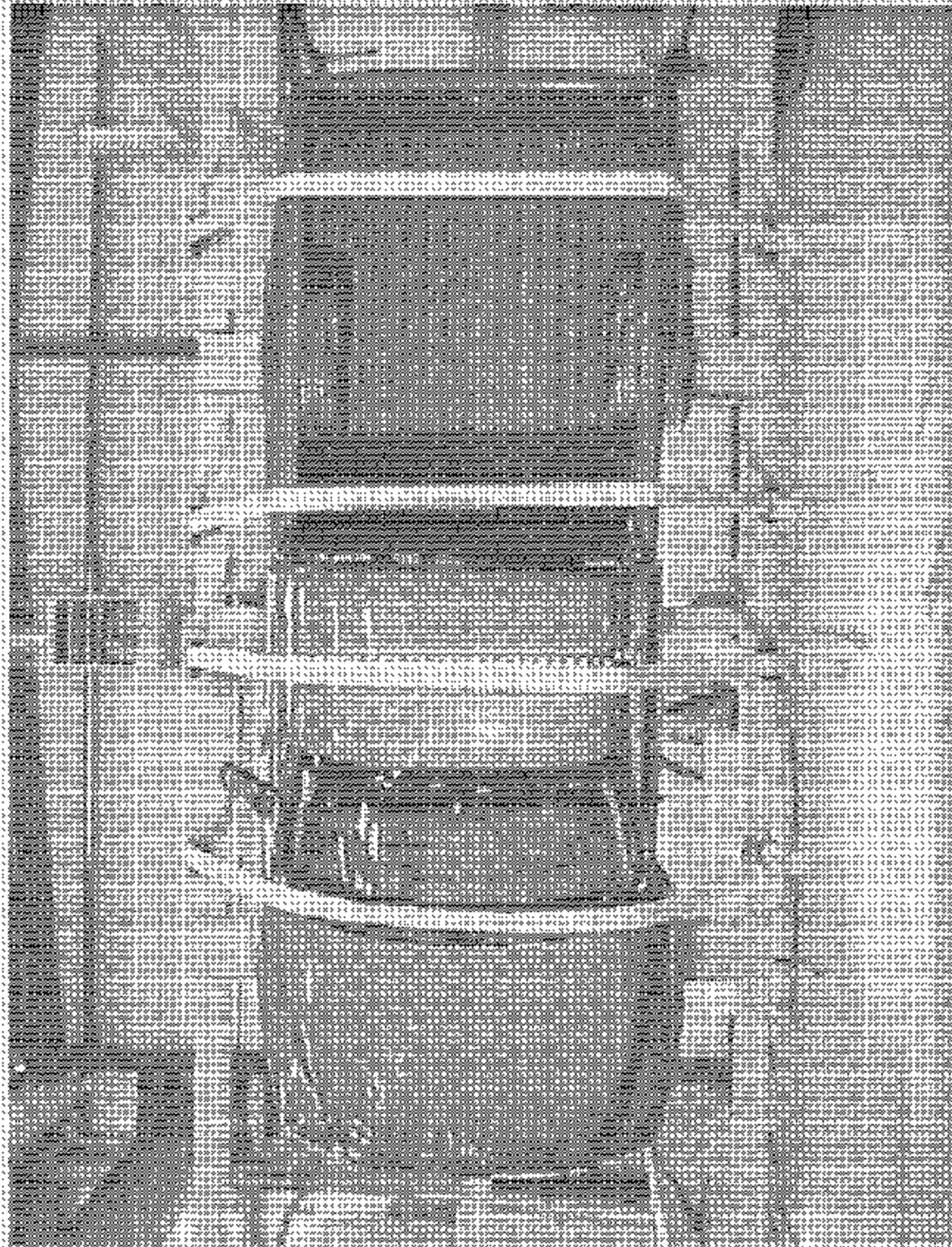
SEASIDE, CALIFORNIA
NORTH OCEAN
PACIFIC COAST

SEASIDE, CALIF.
SEASIDE COASTAL HOTEL



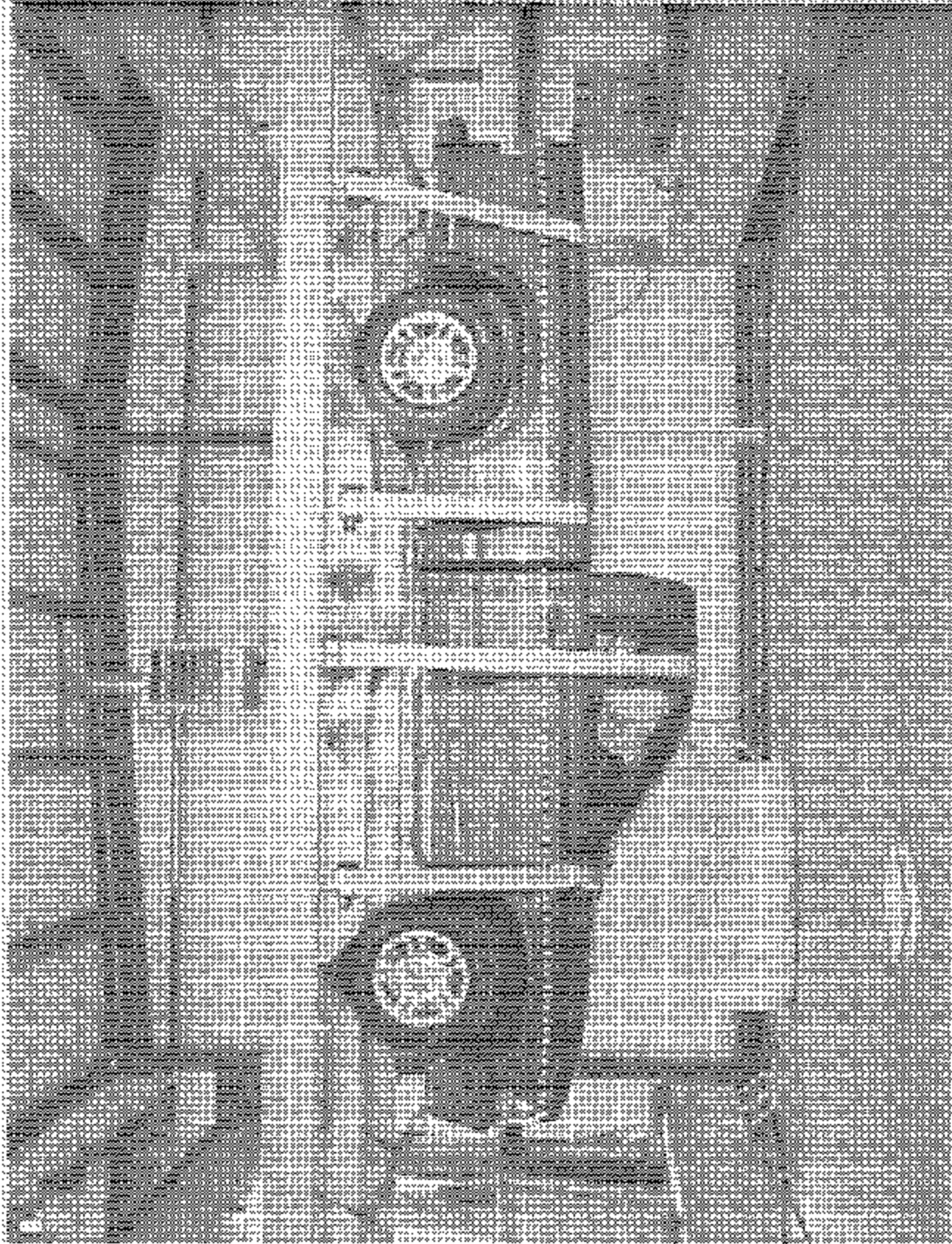
2001 DODGE DAKOTA
NHTSA NO. C33957
FINES NO. 3412

FIGURE 3-18
VIRIDIAN POLYMER FININGS ST-2



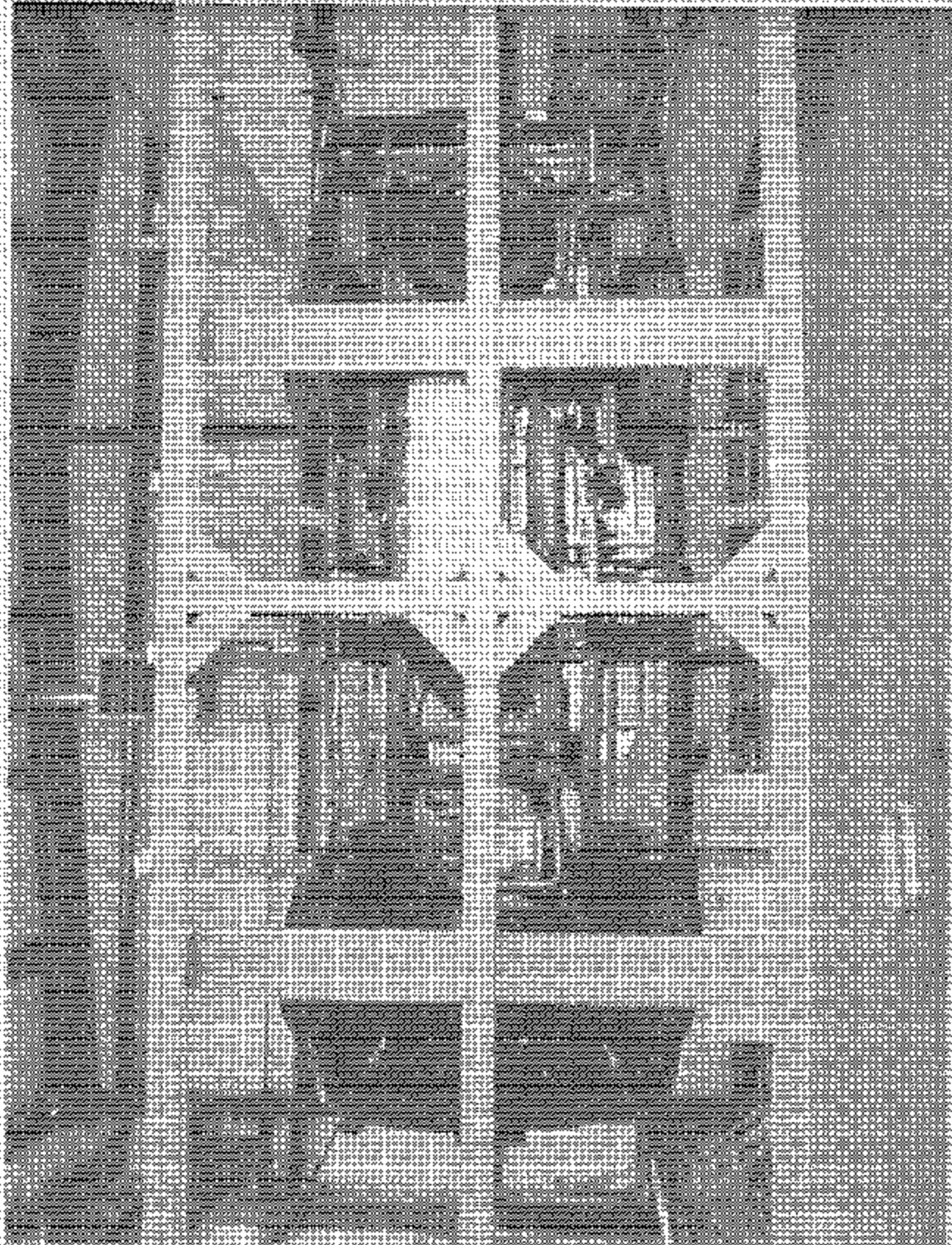
2003 OGDEN DARTON
NHTSA NO. C0087
PLANS NO. 001E

SHOULD BE
STILL IN FOLLOWED FUTURE AT US



1981 DODGE RAM
TRUCK NO. 32097
FV5530 JUNE

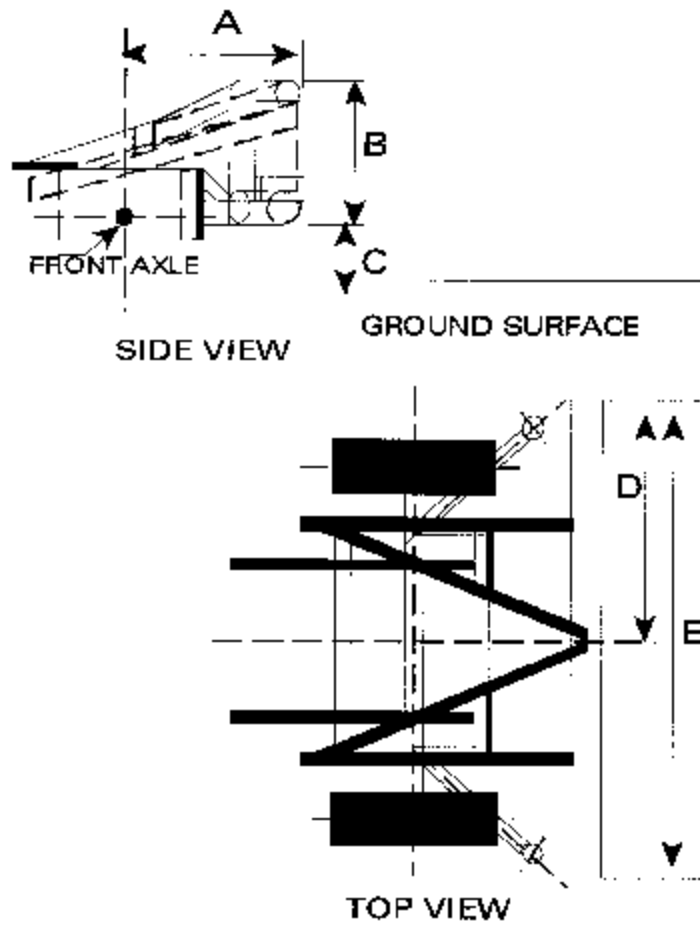
5106 JUNE 5 35
VICTOR J. ENROLLMENT FIVE 180



2005 DODGE DODGE
NUTS & BOLTS
NUTS & BOLTS

FIGURE 3.90
VEHICLE IN PRAIRIEVIEW FIXTURE AT 280°

SECTION 6
BARRIER INFORMATION



DIMENSIONS SHOWN IN TABLE ON NEXT PAGE

NOTES:

1. Face Plate 0.50 in. (19mm) thick cold rolled steel
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