

FINAL REPORT NUMBER 225-MGA-05-003

SAFETY COMPLIANCE TESTING FOR FMVSS 225
"Child Restraint Anchorage Systems"

TOYOTA MOTOR CORPORATION
2004 TOYOTA CAMRY
NHTSA No. C45108

MGA RESEARCH CORPORATION
446 Executive Drive
Troy, Michigan 48083



Test Date: January 7, 2005
Report Date: February 28, 2005

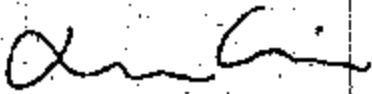
FINAL REPORT

PREPARED FOR:

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NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
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16. Abstract A compliance test was conducted on the subject 2004 Toyota Camry, NHTSA No. C45108, in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-225T & 225L for the determination of FMVSS 225 compliance. The tests were conducted at MGA Research Corporation in Troy, Michigan on January 7, 2005. Test failures identified were as follows: NONE The data recorded indicates that the 2004 Toyota Camry tested appears to comply with the requirements of FMVSS 225.			
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1.0 PURPOSE AND PROCEDURE

PURPOSE

The child restraint anchorage testing results presented in this report are part of the Federal Motor Vehicle Safety Standard (FMVSS) No. 225 compliance test program conducted for the National Highway Traffic Safety Administration (NHTSA) by MGA Research Corporation (MGA) under Contract No. DTNH22-02-D-11043. The purpose of the testing was to determine if the subject vehicle, a 2004 Toyota Camry, NHTSA No. C45108 meets the performance requirements of FMVSS No. 225, "Child Restraint Anchorage Systems."

PROCEDURE

This testing was conducted in accordance with NHTSA's Office of Vehicle Safety Compliance (OVSC) Laboratory Test Procedures, TP-225T (5/3/01) and TP-225L (6/11/01), and MGA's Laboratory Test Procedure, MGATP225GOV (3/20/03).

The front occupant compartment consisted of two (2) adjustable outboard bucket seats and the rear occupant compartment consisted of a 2nd row three-passenger 60/40 seat. Each 2nd row outboard seating position was equipped with a child restraint anchorage system (one tether and two lower anchors). The 2nd row center occupant position was equipped with a tether anchorage. The center-to-center spacing between the 2nd row outboard lower anchorages was approximately 750 mm. Each 2nd row outboard seating position was tested with the SFADII fixture, and the 2nd row center seating position was tested with the SFADI fixture.

2.0 COMPLIANCE TEST AND DATA SUMMARY

TEST SUMMARY

The testing was conducted at MGA in Troy, Michigan on January 7, 2005.

Based on the test results, the 2004 Toyota Camry appears to comply with the performance requirements of FMVSS No. 225 for these tests.

The SFADII at the 2nd row left occupant seating position sustained a maximum force of 9,580 N and held the required load for 0.8 seconds. The total displacement from point "X" on the SFADII for the 2nd row left occupant seating position was 84 mm. The SFADII at the 2nd row right occupant seating position sustained a maximum force of 8,716 N and held the required load for 1 second. The total displacement from point "X" on the SFADII for the 2nd row right occupant seating position was 70 mm. The SFADI at the 2nd row center occupant seating position sustained a maximum force of 15,252 N and held the required load for 3 seconds.

DATA SUMMARY

Strength and displacement summary data are provided below, and data for the configuration and the location of each child restraint anchorage system are provided in Section 5.0. Photographs are found in Section 6.0 and test plots are found in Section 7.0.

Table 1. Summary Data for Strength and Displacement

MGA Test #	Fixture Type	Test Configuration	Seating Position	Max. Load (N)	Displacement (mm)
SC5003	SFAD II	Lower Anchors Only	2 nd Row Left	9,580	84
			2 nd Row Right	8,716	70
SC5004	SFAD I	Top Tether Only	2 nd Row Center	15,252	N/A

N/A indicates that the displacement criteria does not apply to this test.

3.0 TEST VEHICLE INFORMATION

Table 2. General Test and Vehicle Parameter Data

VEH. MOD YR/MAKE/MODEL/BODY	2004 Toyota Camry
VEH. NHTSA NO.	C45108
VIN	4T1BE32K04U274609
COLOR	White
VEH. BUILD DATE	10/03
TEST DATE	January 7, 2005
TEST LABORATORY	MGA Research Corporation
OBSERVERS	Melanie Schick, Brad Reaume, Kenney Godfrey

GENERAL INFORMATION:

DATA FROM VEHICLE'S CERTIFICATION LABEL:

Vehicle Manufactured By: Toyota Motor Manufacturing, Kentucky, Inc.

Date of Manufacture: 10/03; VIN: 4T1BE32K04U274609

GVWR: 1,920 kg; GAWR FRONT: 1,210 kg

GAWR REAR: 1,210 kg

DATA FROM TIRE PLACARD:

Tire Pressure with Maximum Capacity Vehicle Load:

FRONT: 200 kPa REAR: 200 kPa

Recommended Tire Size: P215/60R16

Recommended Cold Tire Pressure:

FRONT: 200 kPa REAR: 200 kPa

Size of Tire on Test Vehicle: P215/60R16

Type of Spare Tire: Full Size: P215/60R16

VEHICLE CAPACITY DATA:

Type of Front Seats: Bench ____; Bucket X; Split Bench ____;
Number of Occupants: Front 2; Middle N/A; Rear 3; TOTAL: 5

4.0 TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

MGA Research Corporation 446 Executive Drive Troy, Michigan 48063	
Test Equipment Used for Testing	Calibration Due Date
MGA Hydraulic Test Frame	N/A
Three (3) Load Cell 3,000 lb Capability	S/N 600 (01/12/05), S/N 152 (6/08/05), & S/N 258 (01/12/05)
Two (2) String Potentiometer	Calibrated at each use (S/N 20760 & S/N 20765)
Hydraulic Pump	N/A
MGA CRF Fixture	N/A
MGA SFADI	N/A
MGA SFADII	N/A
MGA 2-Dimensional Template	N/A
Linear Scale	S/N TPM 319 (03/08/05)
MGA Data Acquisition System	N/A
Digital Calipers	S/N MGA00053 (09/20/05)
Force Gauge	S/N MGA00015 (06/23/05)
Inclinometer (Digital)	S/N MGA00049 (08/23/05)

5.0 DATA

Table 3. Child Restraint Tether Anchorage Configuration (Data Sheet 1)

Seating Position		Permit the attachment of a tether hook	Accessible without the need for any tool other than a screwdriver or coin	Ready for use without the need for any tools	Sealed to prevent the entry of exhaust fumes
Front Row		N/A	N/A	N/A	N/A
Second Row	LH	Yes	Yes	Yes	Yes
	Ctr.	Yes	Yes	Yes	Yes
	RH	Yes	Yes	Yes	Yes
Third Row		N/A	N/A	N/A	N/A

Note: AS DETERMINED USING THE PROCEDURES SPECIFIED IN TP-225L & 225T.

REMARKS: NONE.

Table 4. Child Restraint Lower Anchorage Configuration (Data Sheet 2)

OBSERVED LOWER ANCHORAGE CONFIGURATION	SEAT POSITION				
		FRONT ROW	SECOND ROW		THIRD ROW
			I/B	O/B	
Above anchorage, permanently marked with a circle not less than 13 mm in Dia.; and whose color contrasts with its background; and its center is not less than 50 mm and not more than 100 mm above the bar, and in the vertical longitudinal plane that passes through the center of the bar.	LH	N/A	No		N/A
	Ctr		N/A		
	RH		No		
Each of the bars is visible, without the compression of the seat cushion or seat back, when the bar is viewed, in a vertical longitudinal plane passing through the center of the bar, along a line marking an upward 30 degree angle with a horizontal plane.	LH	N/A	Yes		N/A
	Ctr		N/A		
	RH		Yes		
Diameter of the bar (mm)	LH	N/A	5.94	5.97	N/A
	Ctr		N/A		
	RH		5.96	5.98	
Inspect if the bars are straight, horizontal and transverse	LH	N/A	Yes		N/A
	Ctr		N/A		
	RH		Yes		
Optional Marking: At least one anchorage bar (when deployed for use, if storable anchorages), one guidance fixture, or one seat marking is visible.	LH	N/A	N/A		N/A
	Ctr				
	RH				
Optional Marking: If guidance fixtures are used, the fixture(s) must be installed.	LH	N/A	N/A		N/A
	Ctr				
	RH				
Measure the distance between Point "Z" of the CRF and the center of the anchorage bar (mm)	LH	N/A	62		N/A
	Ctr		N/A		
	RH		58		
Measure the distance between the SRP to the center of the anchorage bar (mm)	LH	N/A	165		N/A
	Ctr		N/A		
	RH		154		

Table 4. Child Restraint Lower Anchorage Configuration (Data Sheet 2) (continued)

OBSERVED LOWER ANCHORAGE CONFIGURATION	SEAT POSITION				
		FRONT ROW	SECOND ROW		THIRD ROW
			I/B	O/B	
Inspect if the centroidal longitudinal axes are collinear within 5 degrees	LH	N/A	Yes		N/A
	Ctr		N/A		
	RH		Yes		
Inspect if the inside surface of the bar that is straight and horizontal section of the bars, and determine they are not less than 25 mm, but not more than 40 mm in length (mm).	LH	N/A	33	36	N/A
	Ctr		N/A		
	RH		32	35	
Inspect if the bars can be connected to, over their entire inside length by the connectors of child restraint system.	LH	N/A	Yes		N/A
	Ctr		N/A		
	RH		Yes		
Measure the distance between the center of the length of one bar to the center of the length of the other bar. The requirement is 280 mm $\pm$ 1 mm (mm).	LH	N/A	280		N/A
	Ctr		N/A		
	RH		280		
Inspect if the bars are an integral and permanent part of the vehicle.	LH	N/A	Yes		N/A
	Ctr		N/A		
	RH		Yes		
Inspect if the bars are rigidly attached to the vehicle. If feasible, hold the bar firmly with two fingers and gently pull.	LH	N/A	Yes		N/A
	Ctr		N/A		
	RH		Yes		

PITCH, YAW, & ROLL INFORMATION

SEAT POSITION	PITCH (deg)	YAW (deg)	ROLL (deg)
2 nd Row Left	14	No Data	1
2 nd Row Center	N/A	N/A	N/A
2 nd Row Right	15	No Data	1

N/A indicates that there were no lower anchors in the center seating position.

Note: AS DETERMINED USING THE PROCEDURES SPECIFIED IN TP-225L & 225T.

REMARKS: NONE

Table 5. Tether Location and Dimensional Measurements (Data Sheet 3)

SEAT POSITION FOR TETHER		TETHER ANCHORAGE LOCATION Located in the required zone?
Front Row		N/A
Second Row	LH	Yes
	Ctr.	Yes
	RH	Yes
Third Row		N/A

Note: AS DETERMINED USING THE PROCEDURES SPECIFIED IN TP-225L & 225T.

REMARKS: NONE

Table 6. Tether Anchorage Static Loading and Displacement (Data Sheet 5)

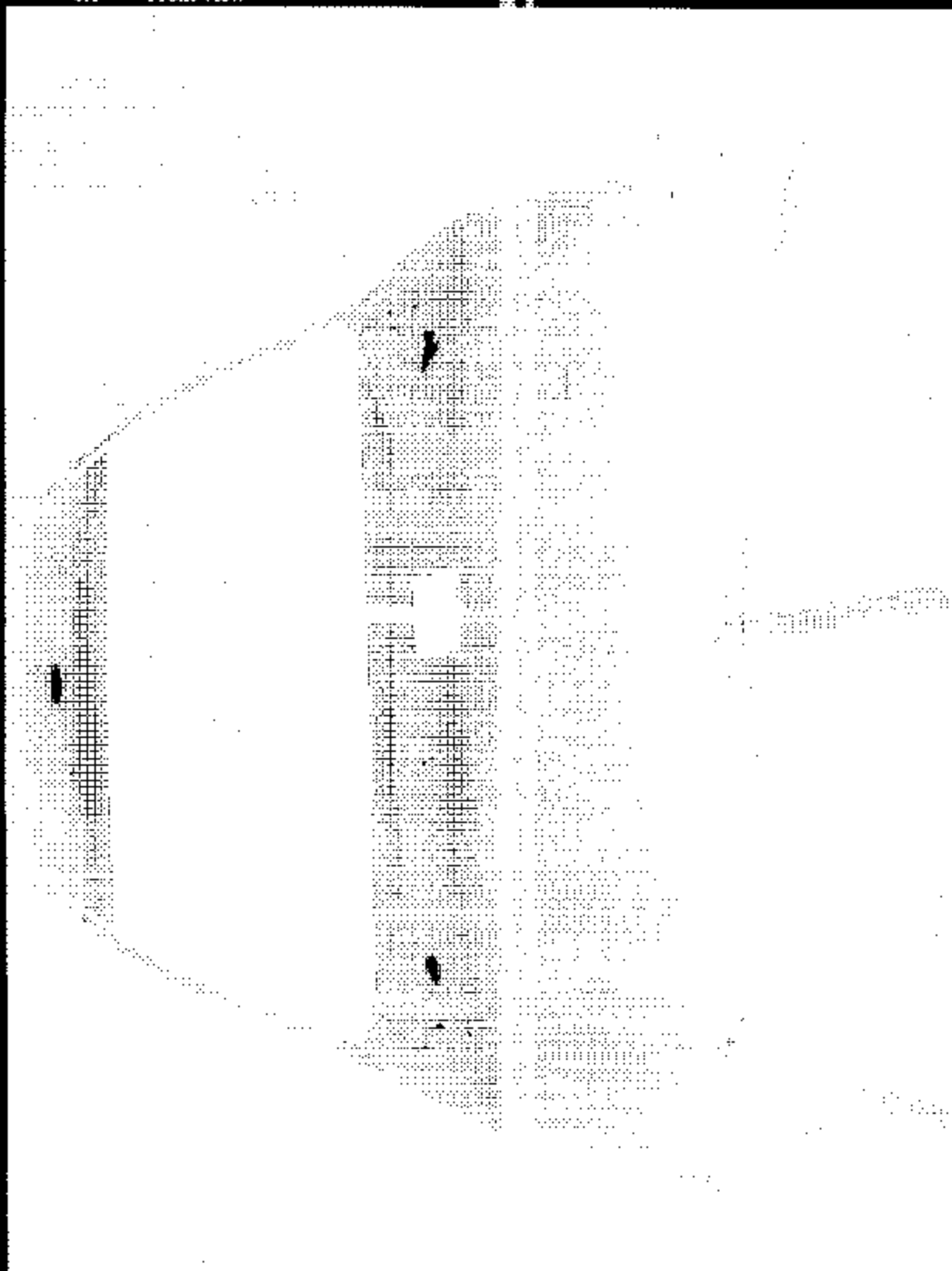
SEAT POSITION		Seat, Seat Back, & Head Restraint Positions			Type of SEAD Used	Angle (deg)	Initial Location (mm)	Onset Rate (N/sec.)	Force Applied (N)	Max. Load (N)	Final Location (mm)	Horiz. Displ. (mm)
		Seat	Seat Back	Is There a H/R?								
Front Row		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Second Row	LH	Fixed	Fixed	No**	II	10	23	4,167	7,950	9,580*	107	84
	Ctr			No	I	8	N/A	539	15,000	15,252*	N/A	N/A
	RH			Yes	II	10	26	4,167	7,950	8,716*	96	70
Third Row		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: (1) AS DETERMINED USING THE PROCEDURES SPECIFIED IN TP-225L & 225T.

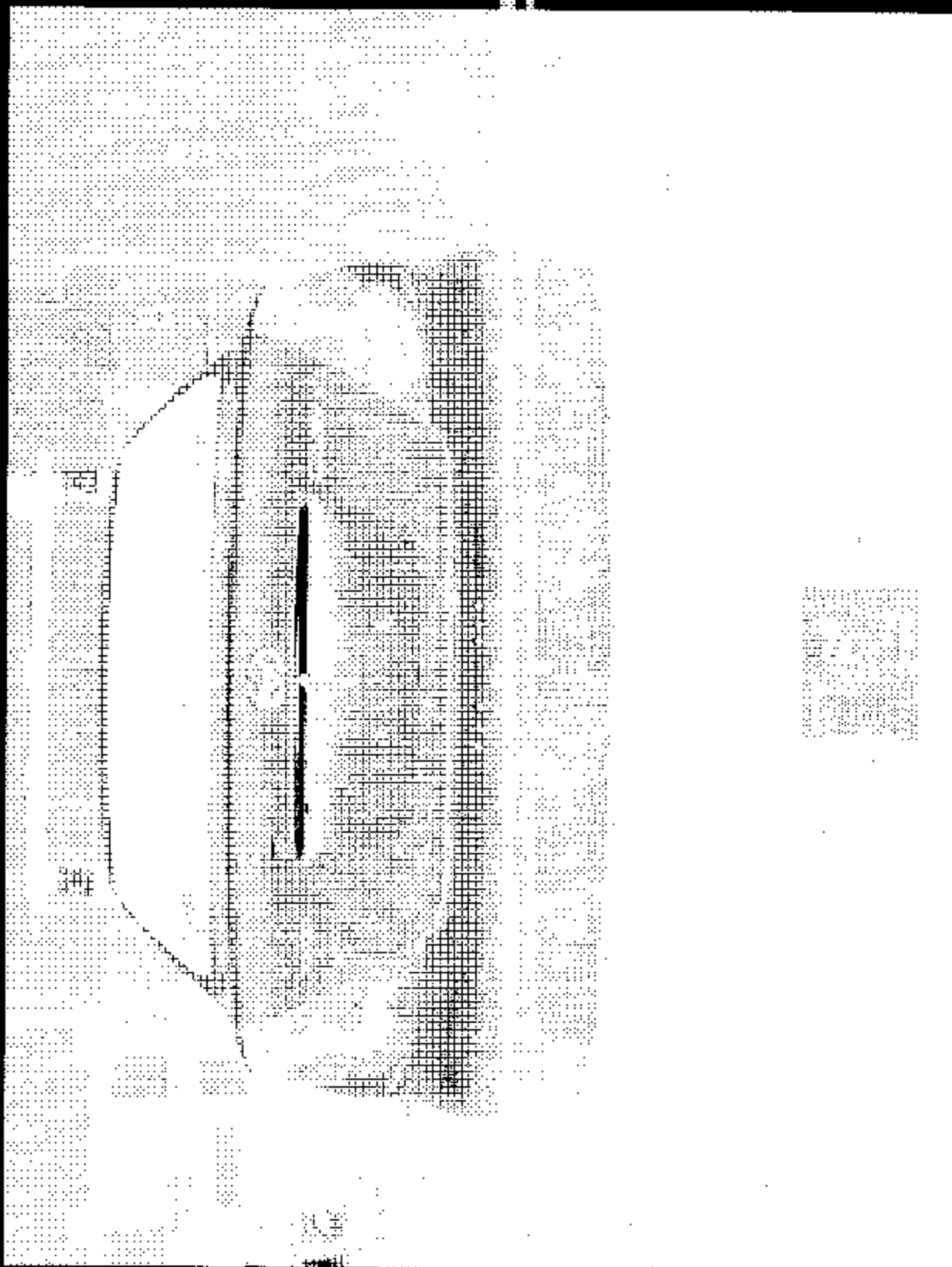
REMARKS: * Applied force exceeded the force specified in the test procedure.
 ** The LH seating position head restraint was not present at the time of testing.

6.0 PHOTOGRAPHS

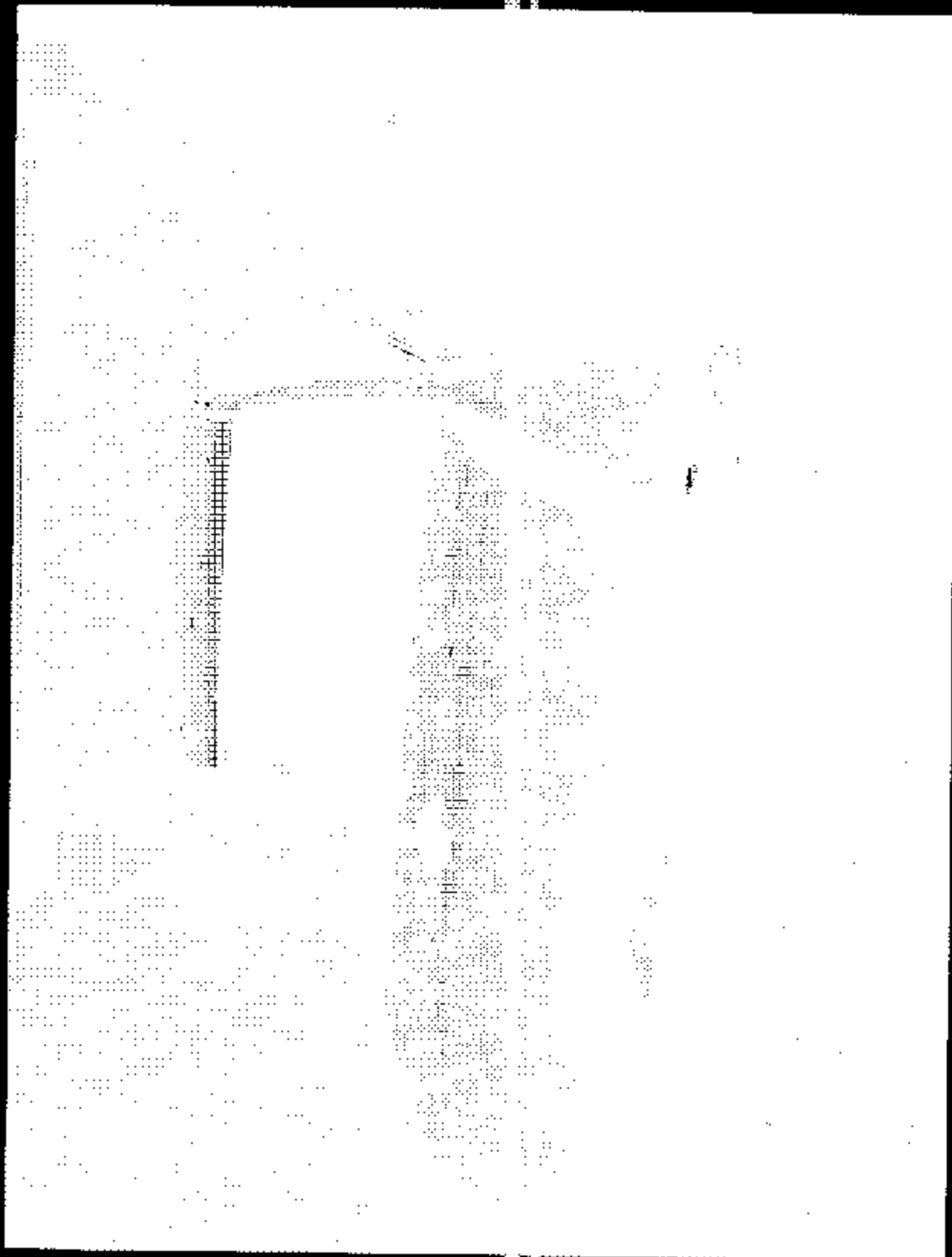
6.1 Front view



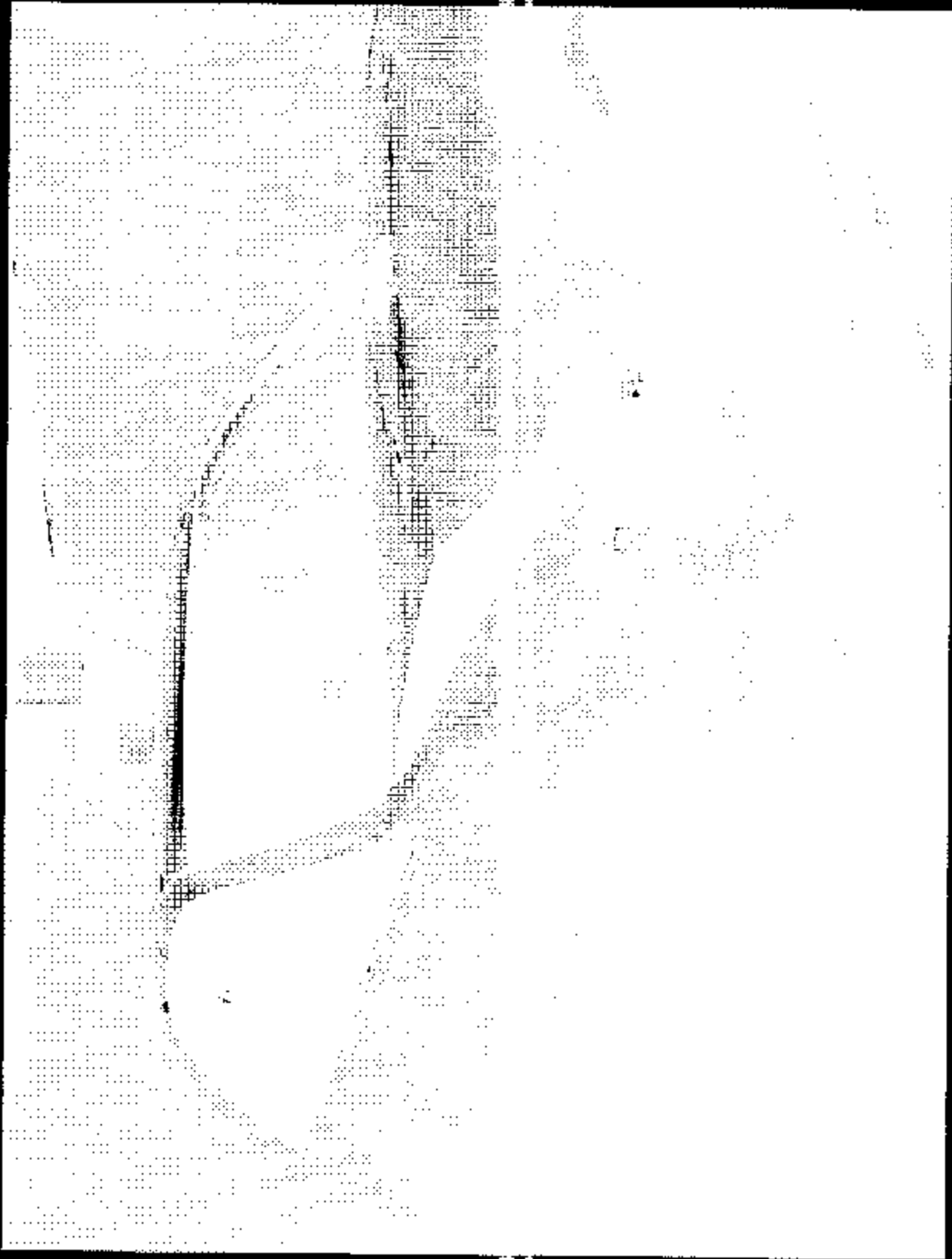
6.2 Rear view



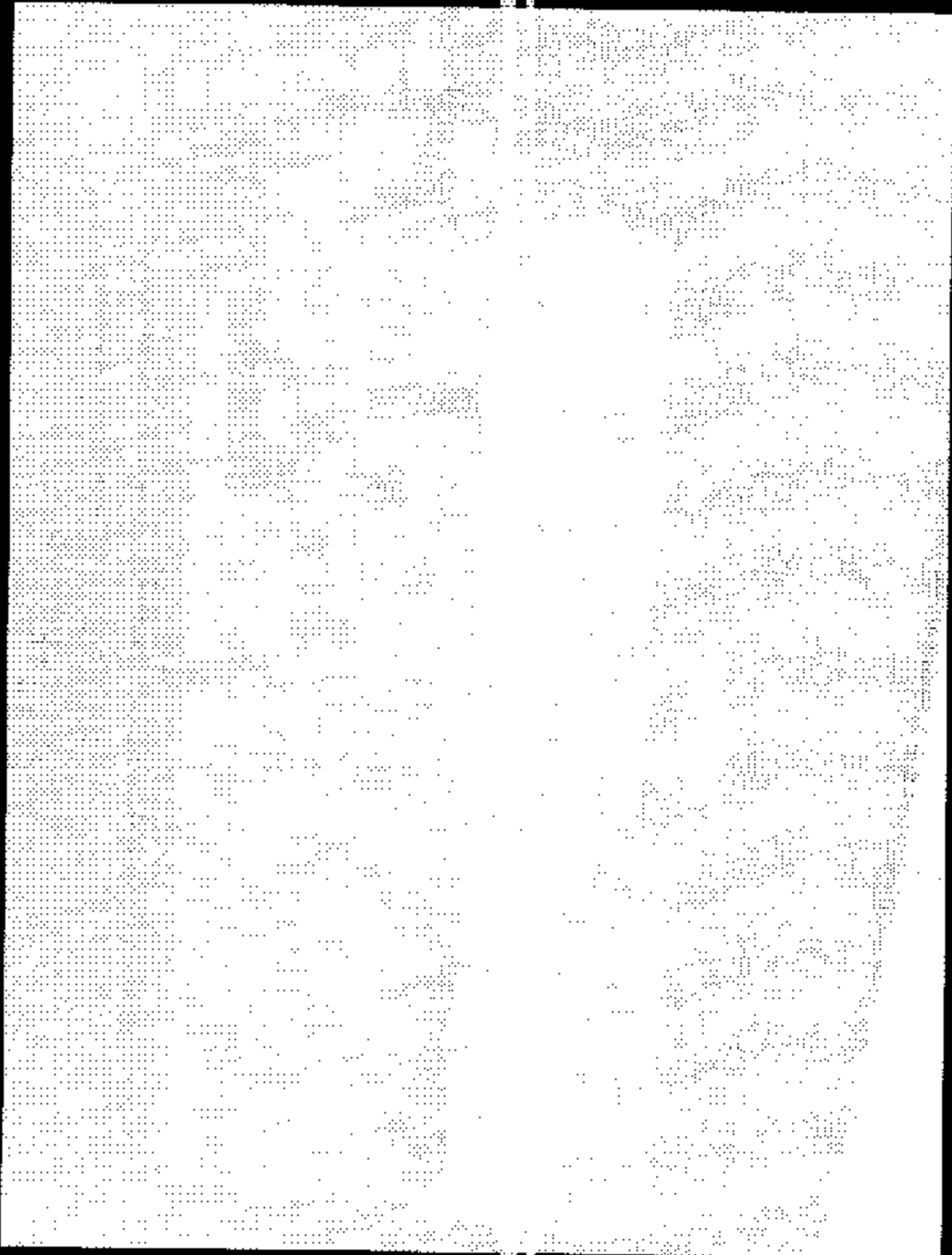
6.3 ¾ Front left view



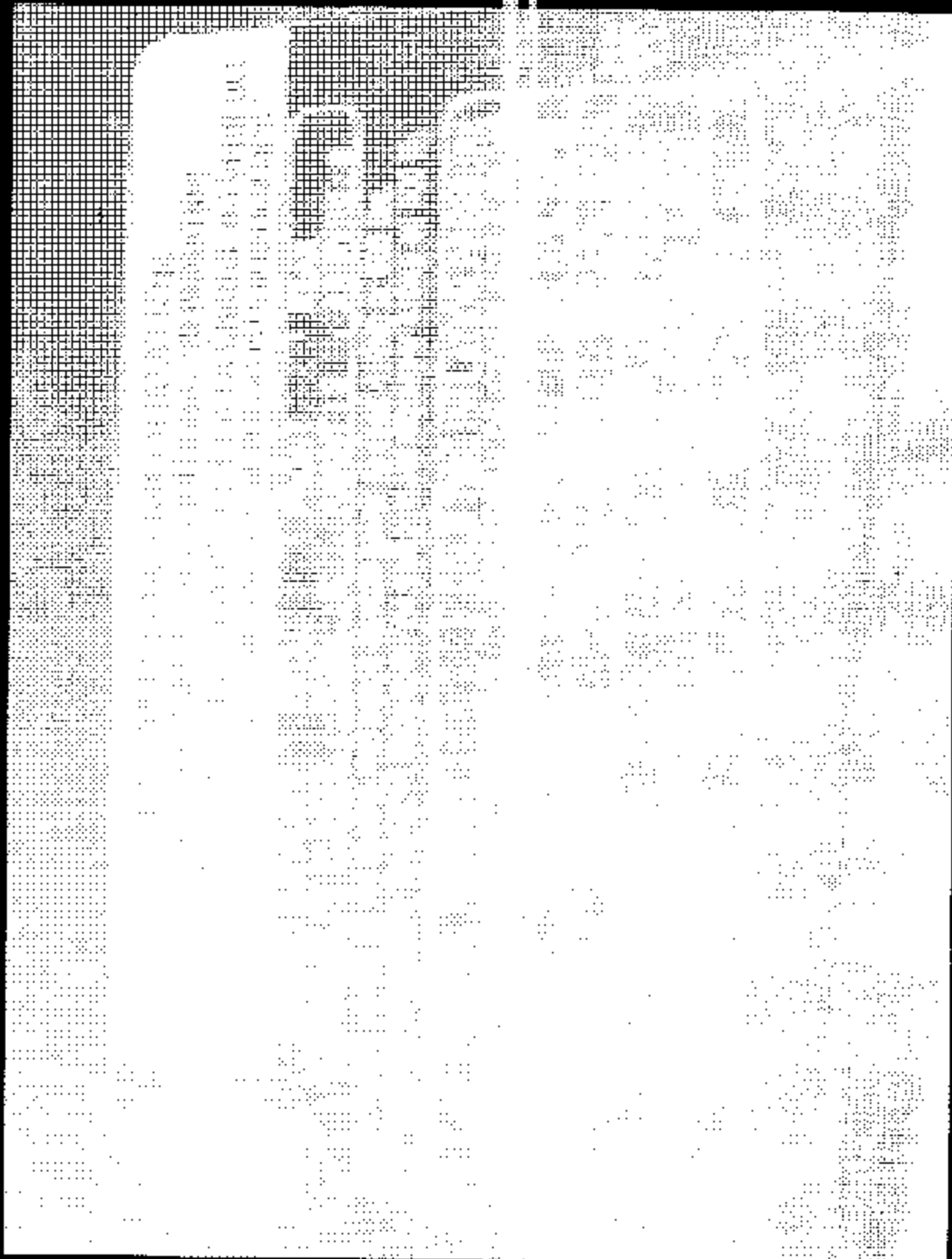
6.4 ¾ Front right view



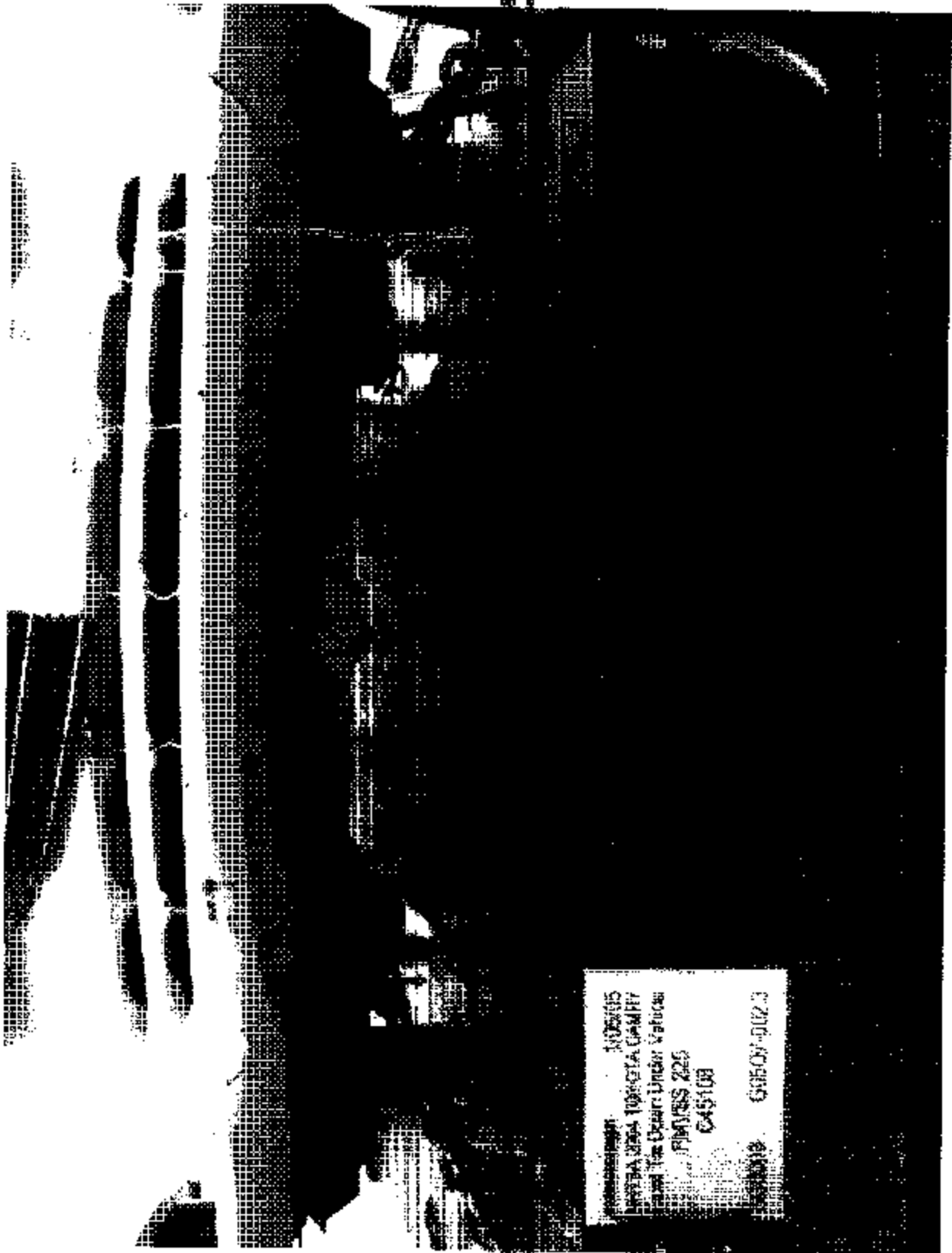
- 6.5 Test vehicle's certification label
- 6.5.1 Certification label



6.5.2 Tire information label

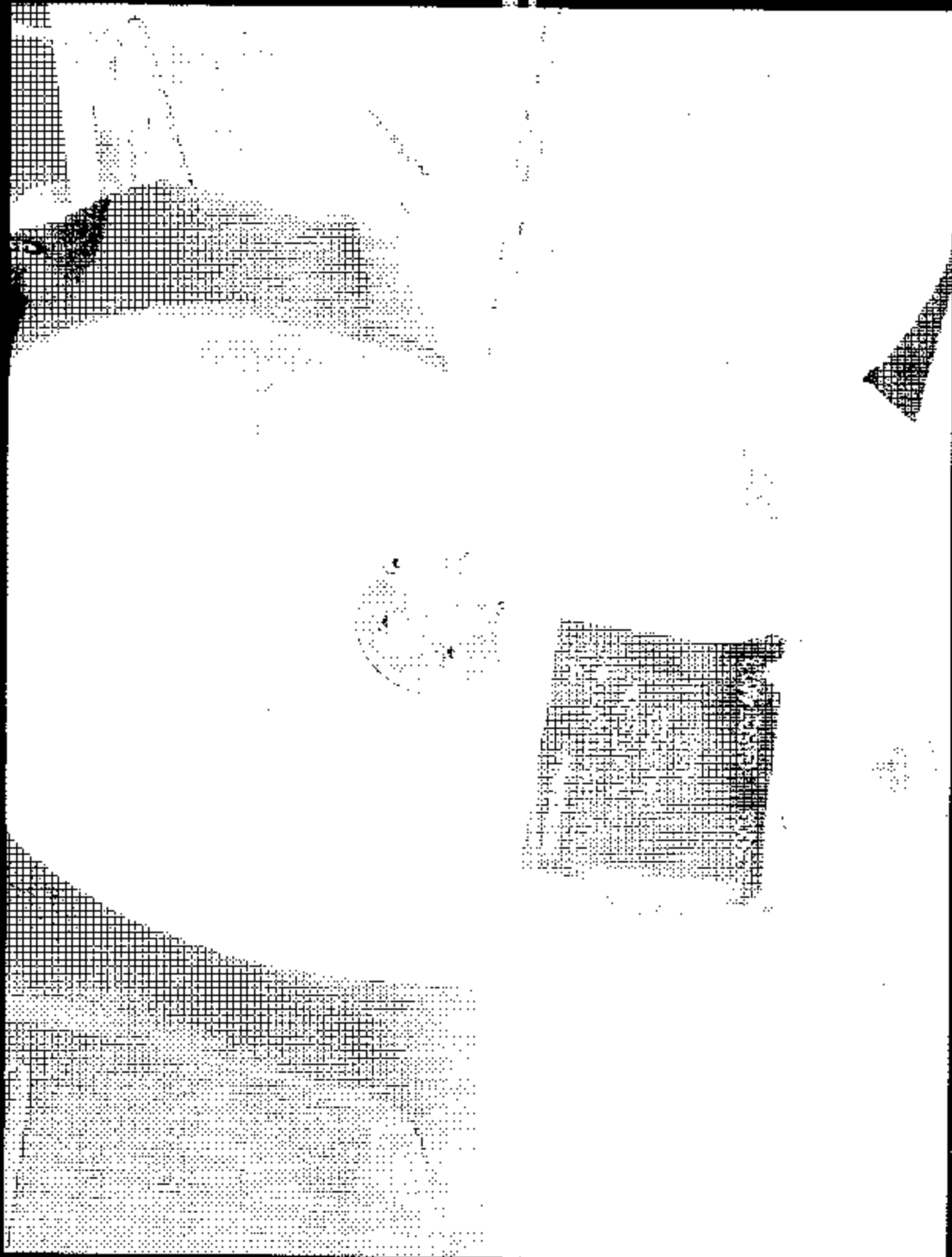


- 6.6 Vehicle tie down at each tie down location
- 6.6.1 Front under vehicle

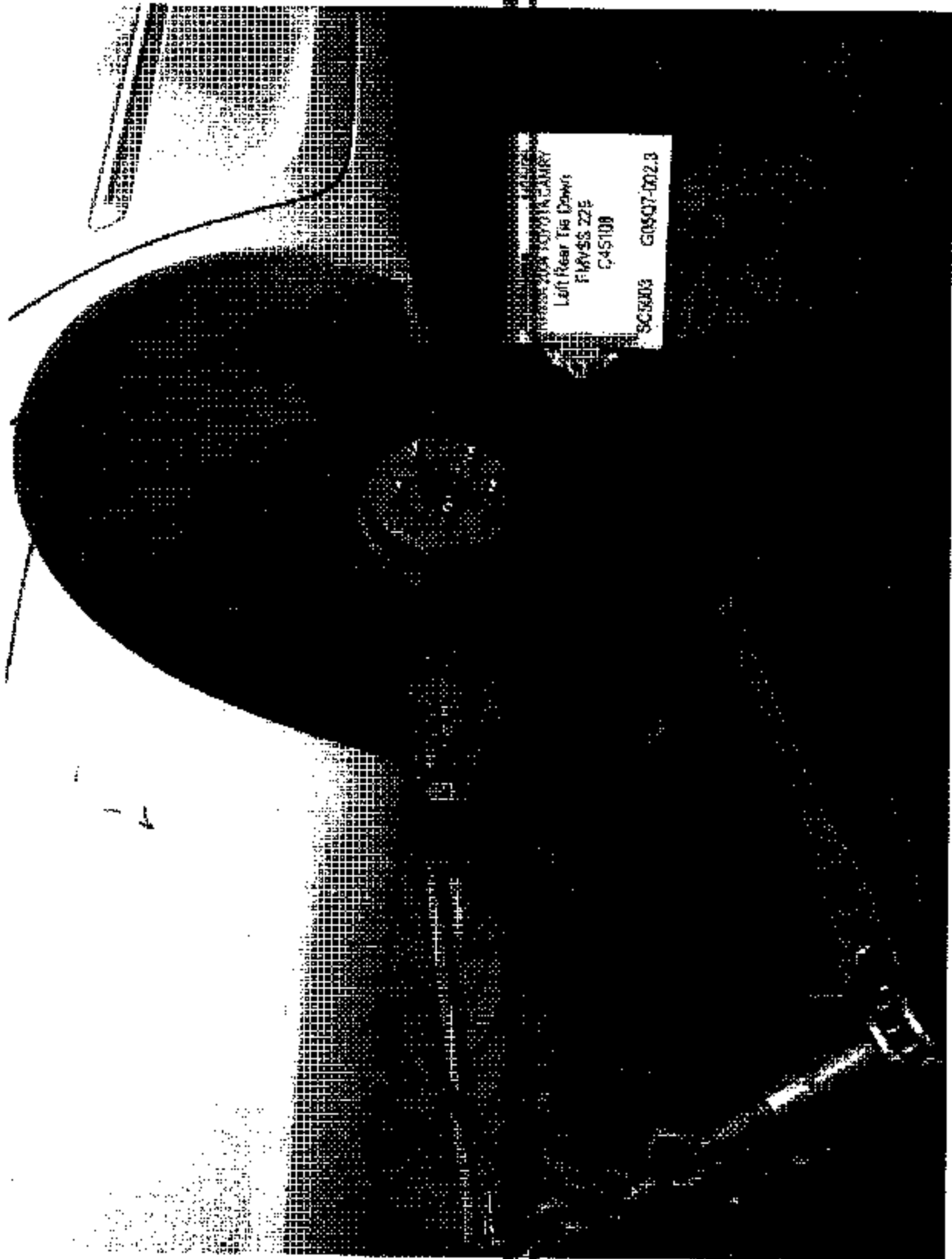


10/25/05
LAWRENCE, KATHY
Tie Down Under Vehicle
FMVSS 225
C45108
G05Q7-002.3

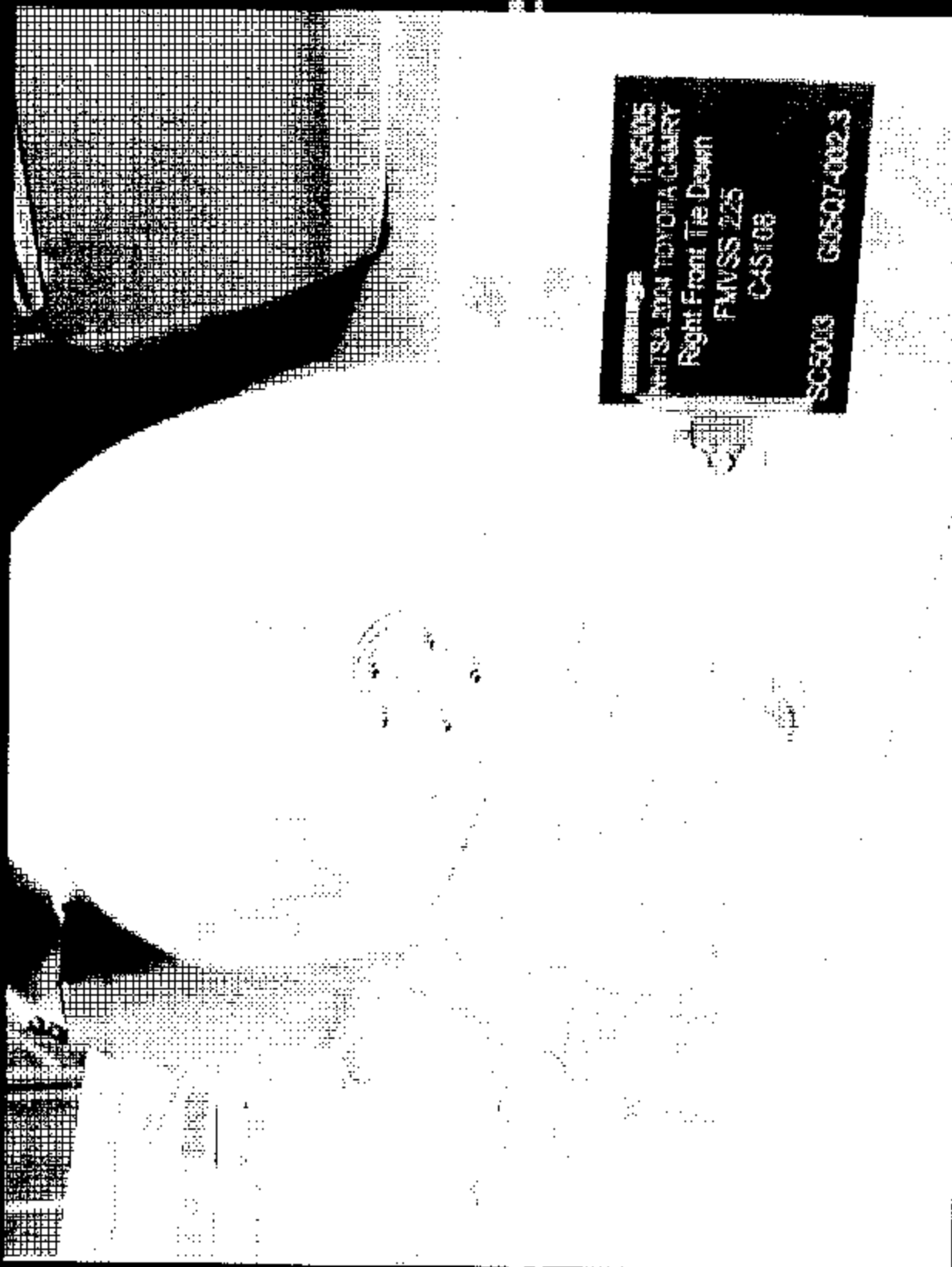
6.6.2 Left front



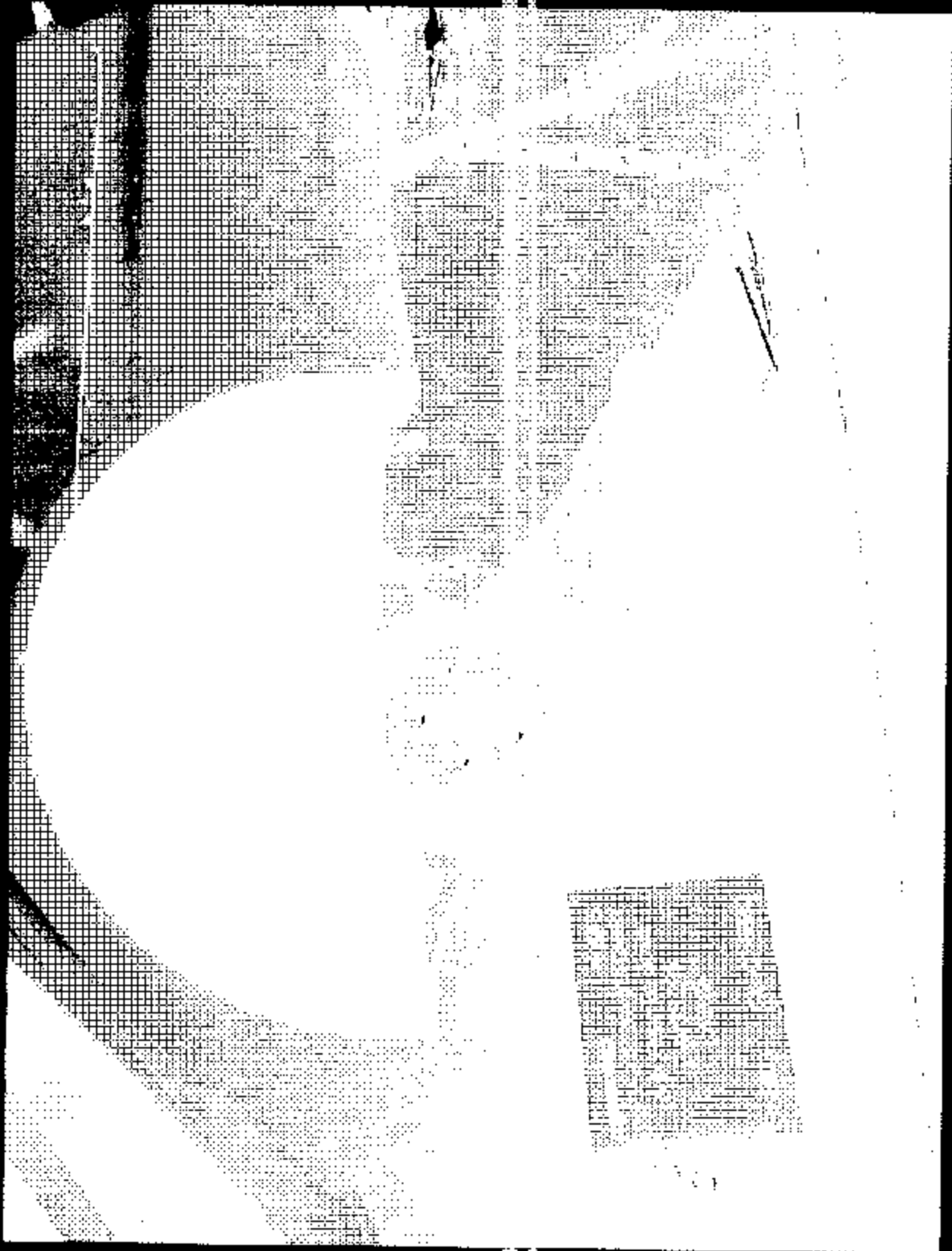
6.6.3 Left rear



6.6.4 Right front



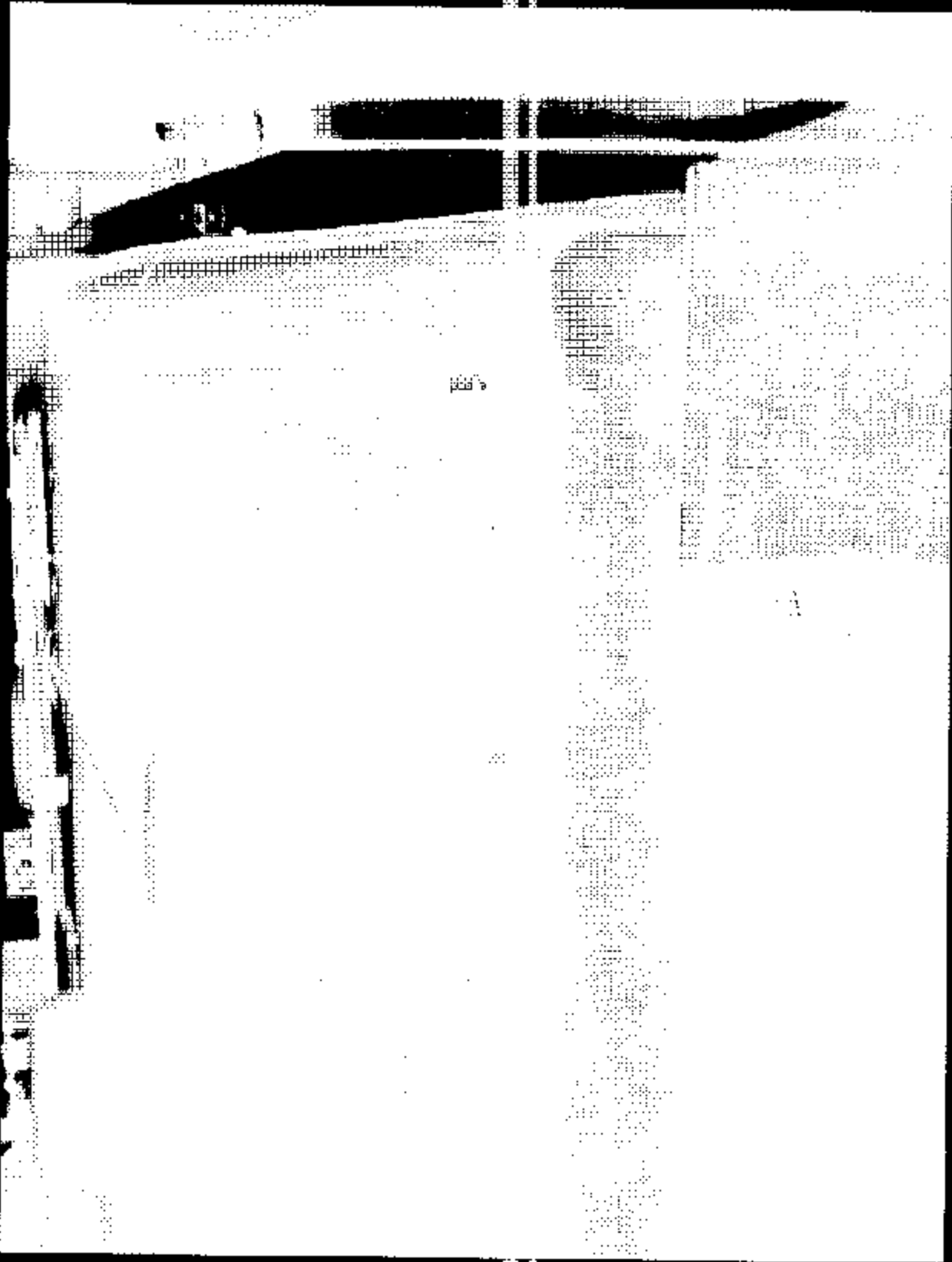
6.6.5 Right rear



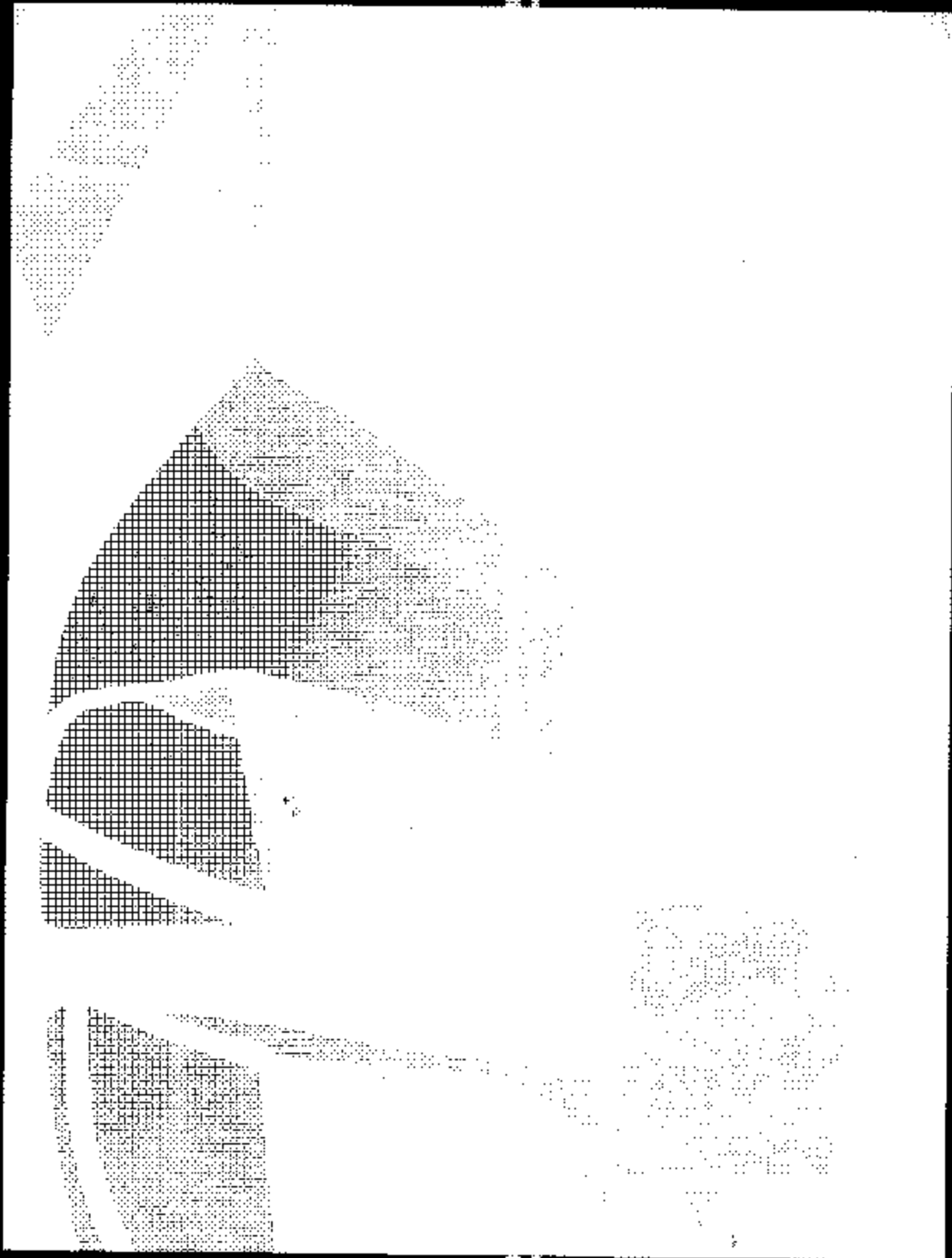
- 6.7 2-dimensional template
- 6.7.1 LH position photo #1



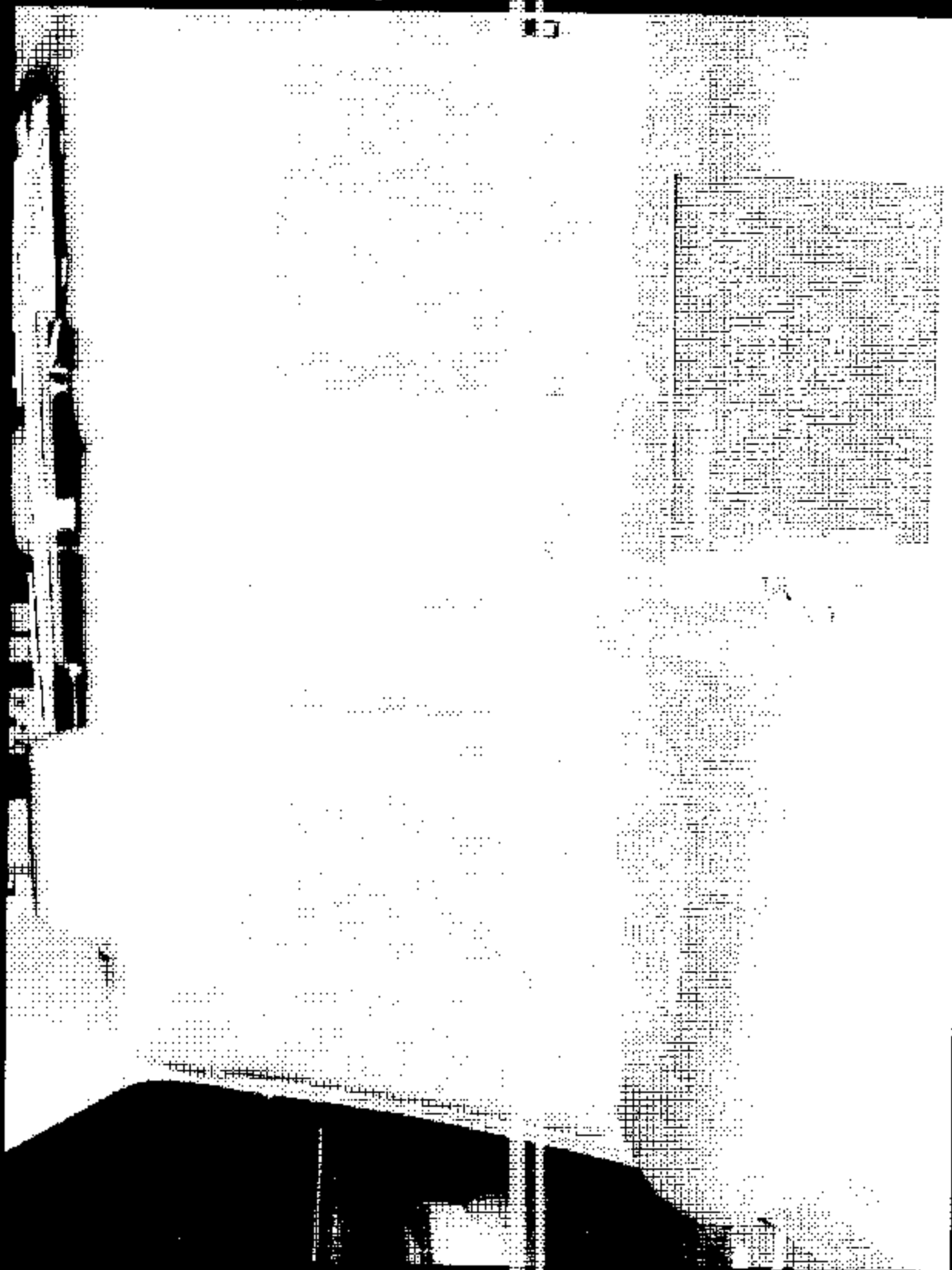
6.7.2 LH position photo #2



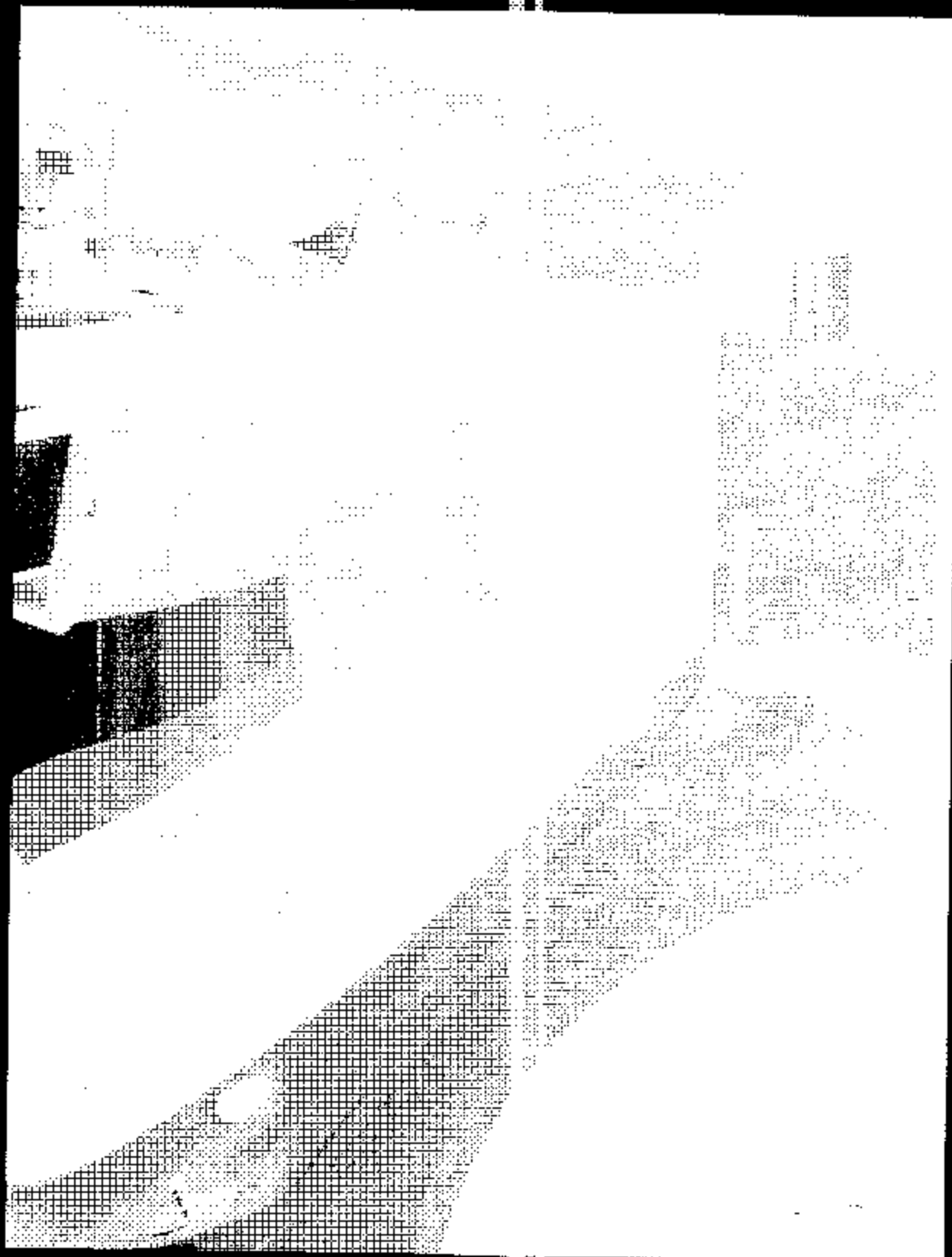
6.7.3 Center position photo #1



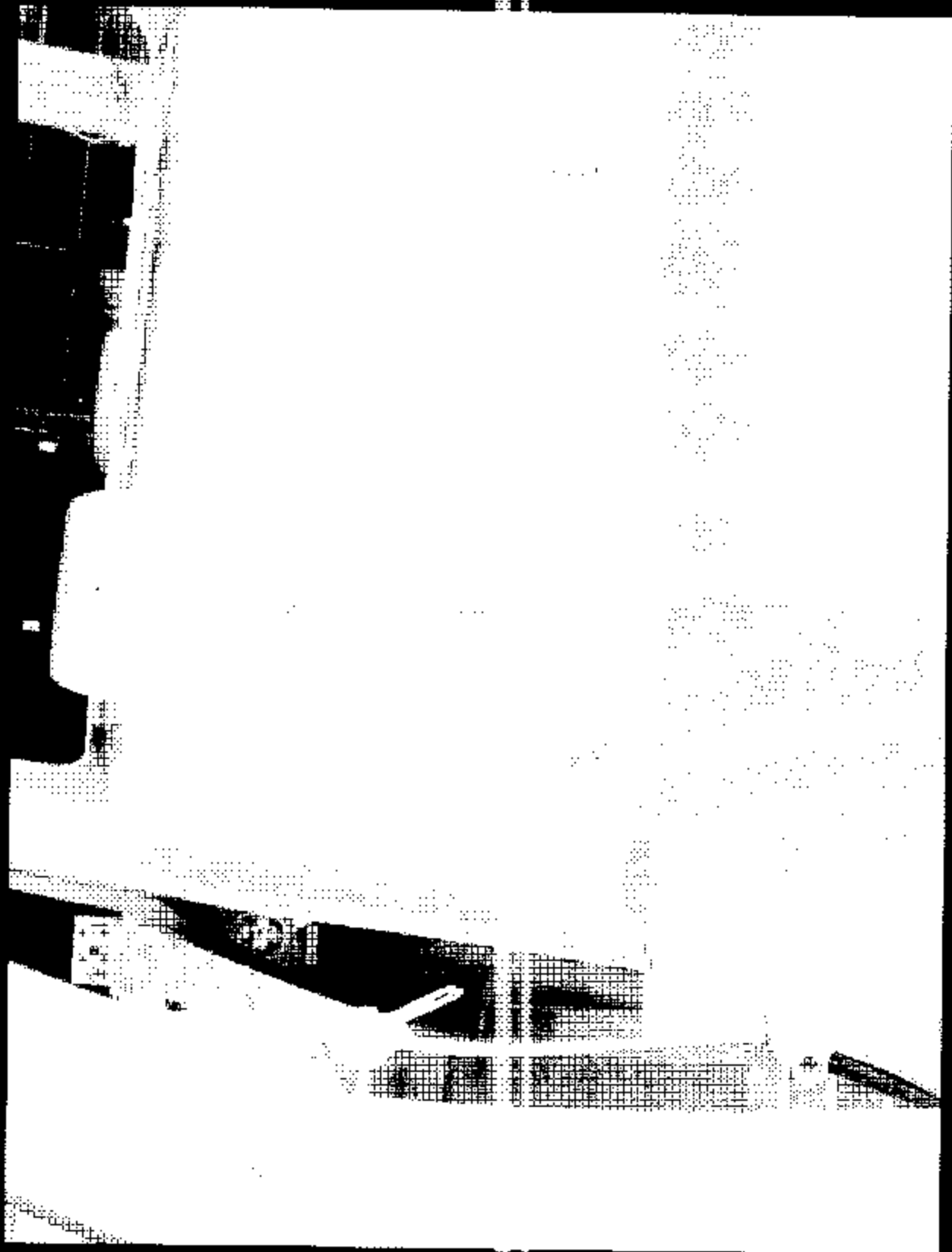
6.7.4 Center position photo #2



6.7.5 RH position photo #1



6.7.6 RH position photo #2

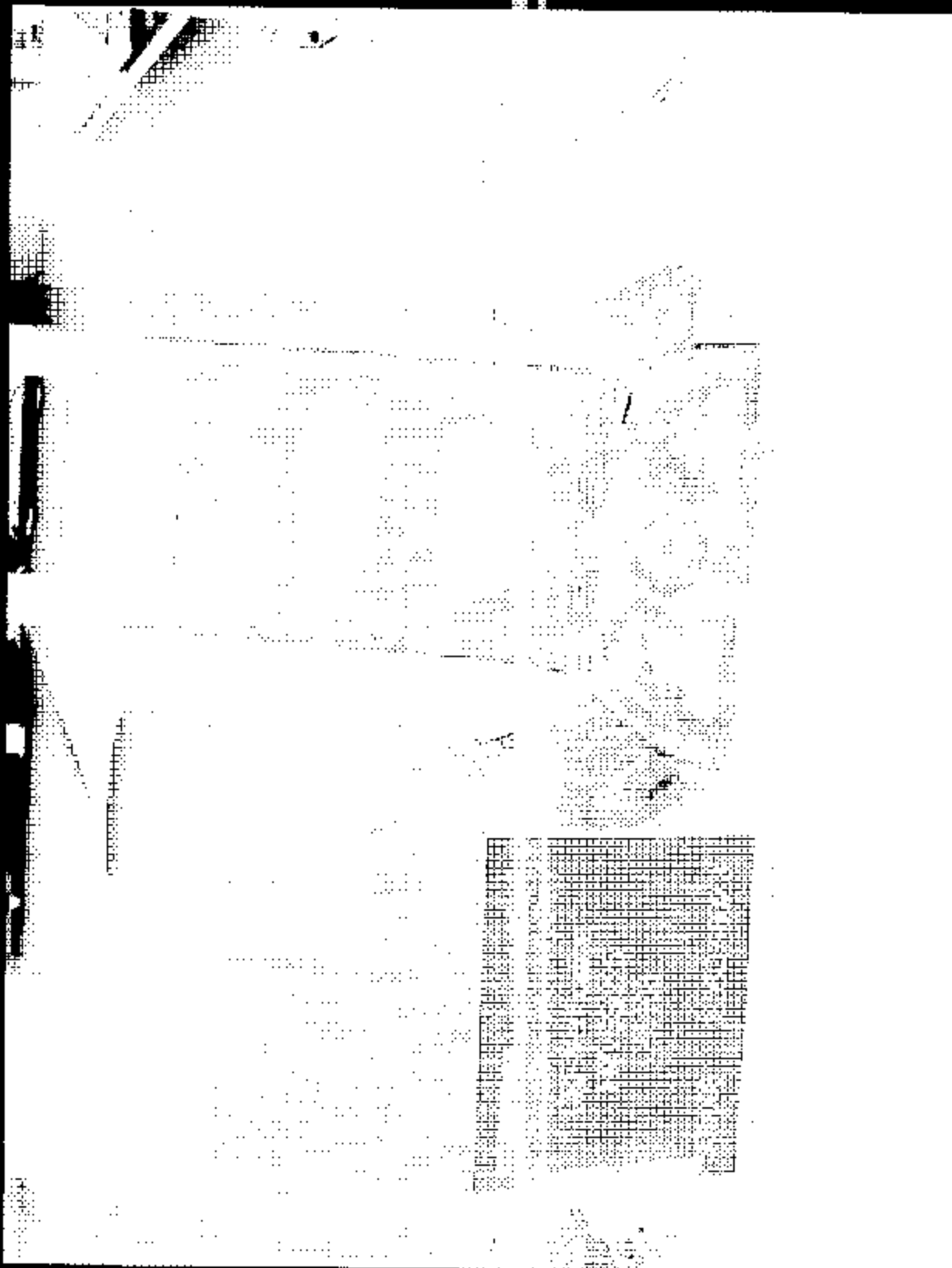


6.8 CRF verification

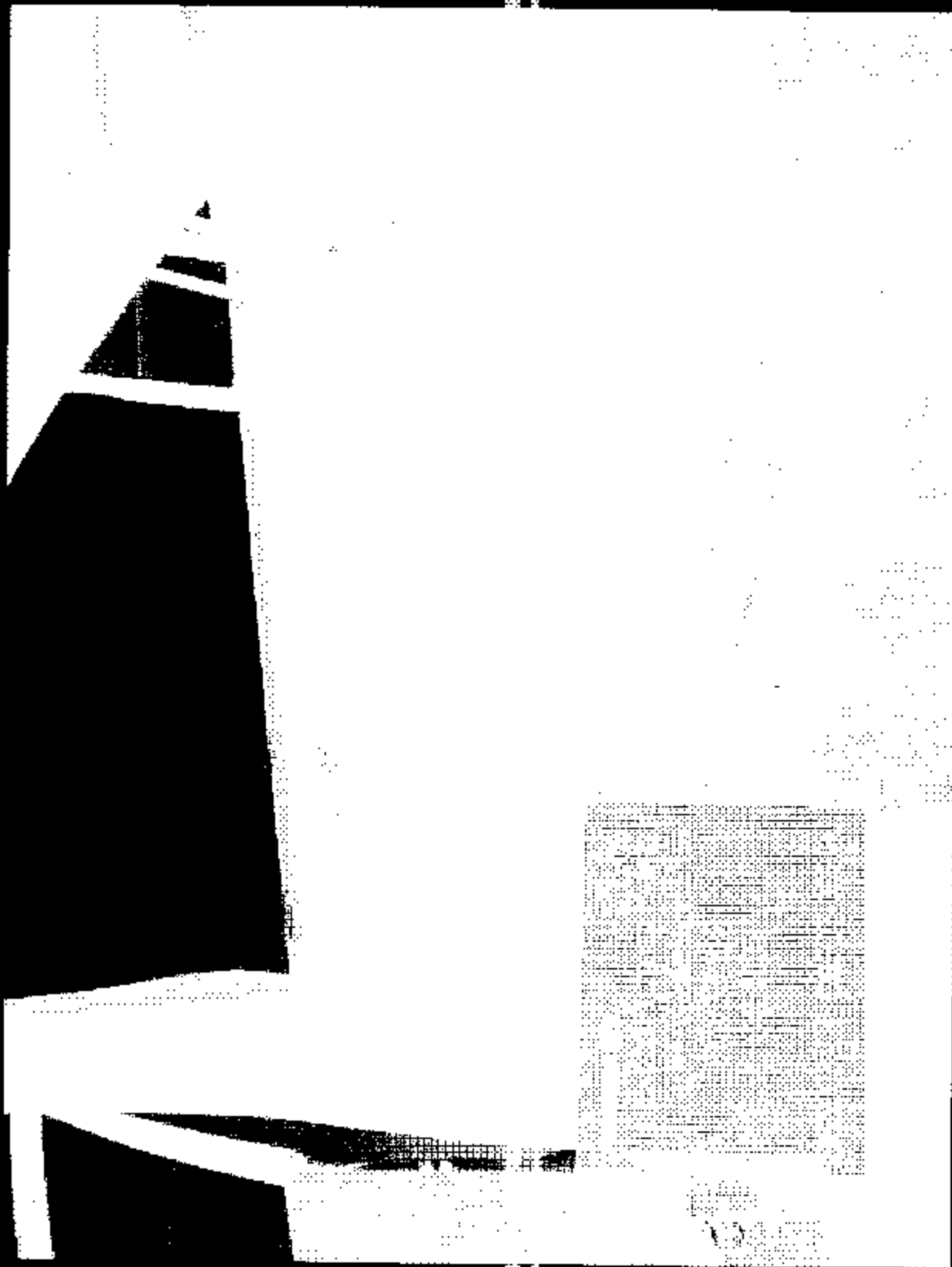
6.8.1 LH position photo #1



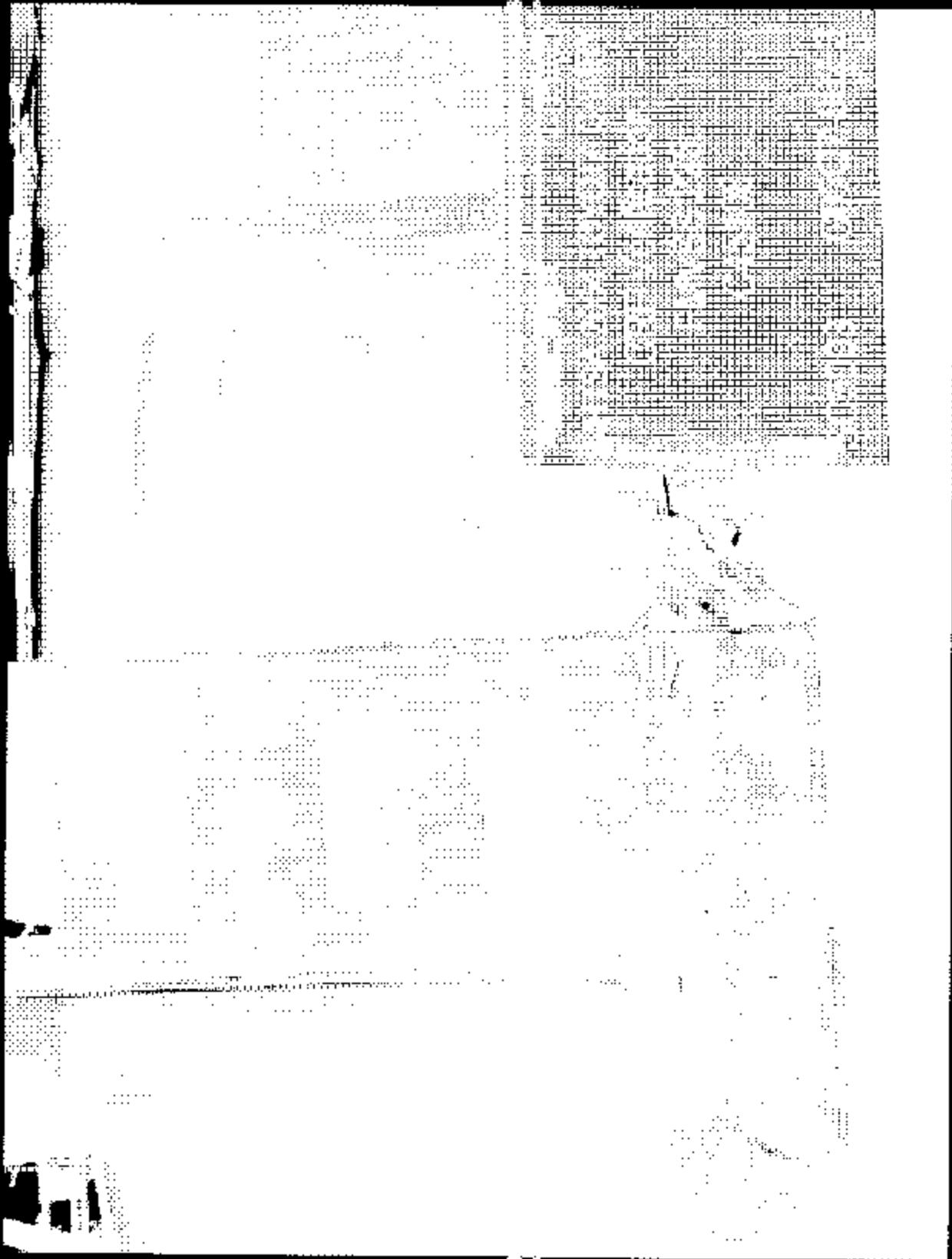
6.8.2 LH position photo #2



6.8.3 RH position photo #1



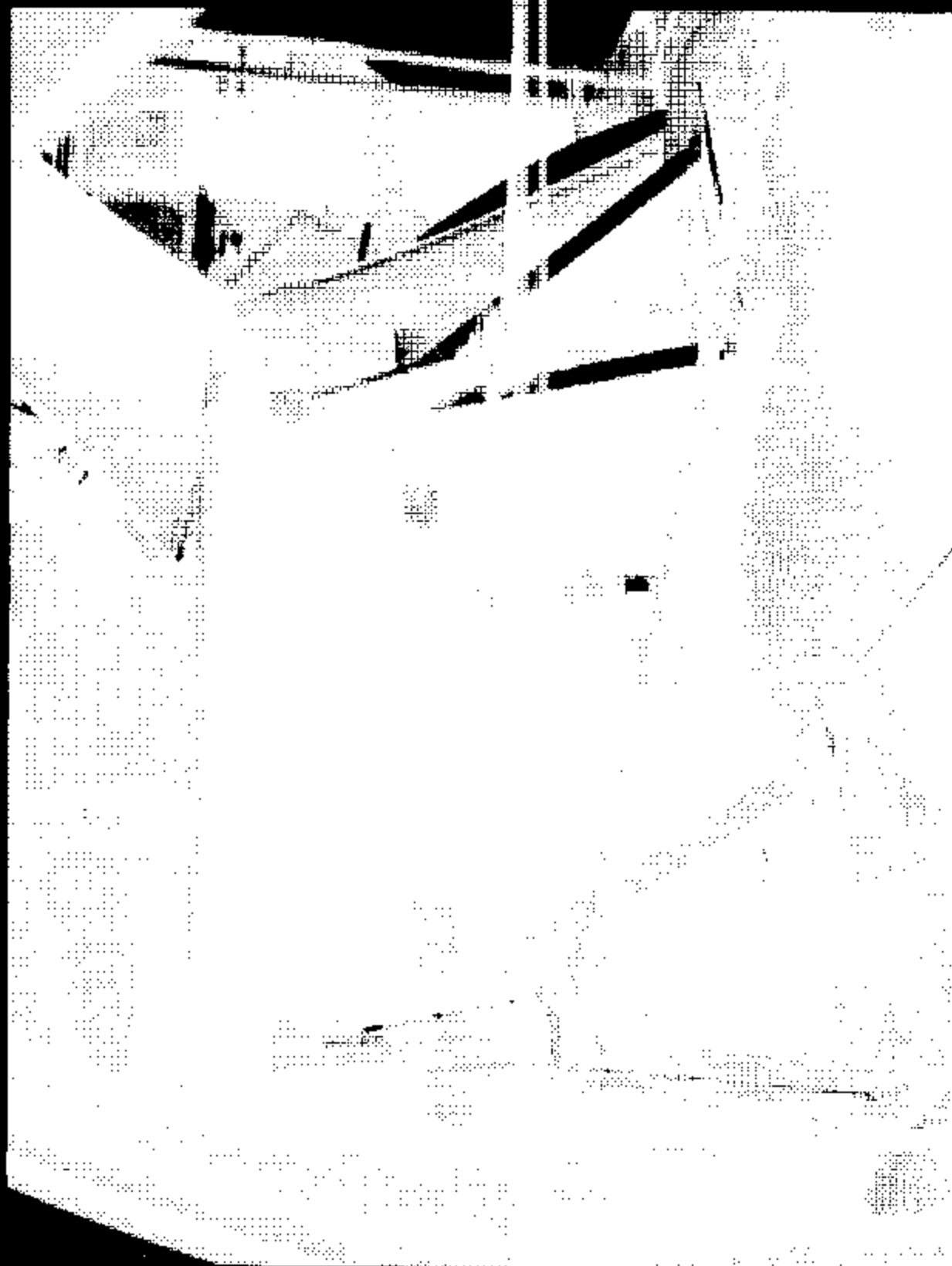
6.8.4 RH position photo #2



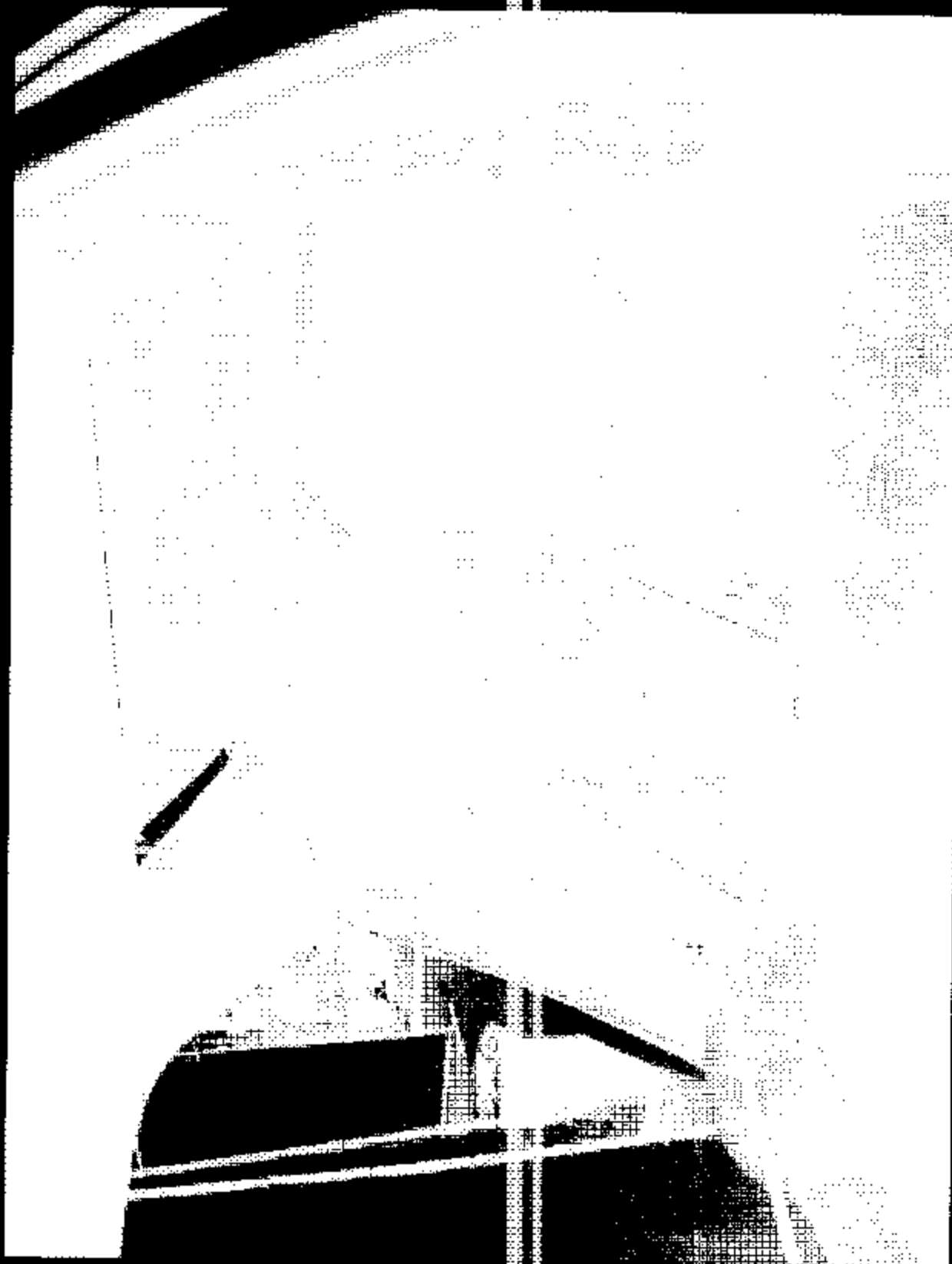
- 6.9 ¾ Front view of test vehicle with test apparatus in place
6.9.1 ¾ Front left view of SFADII test of 2



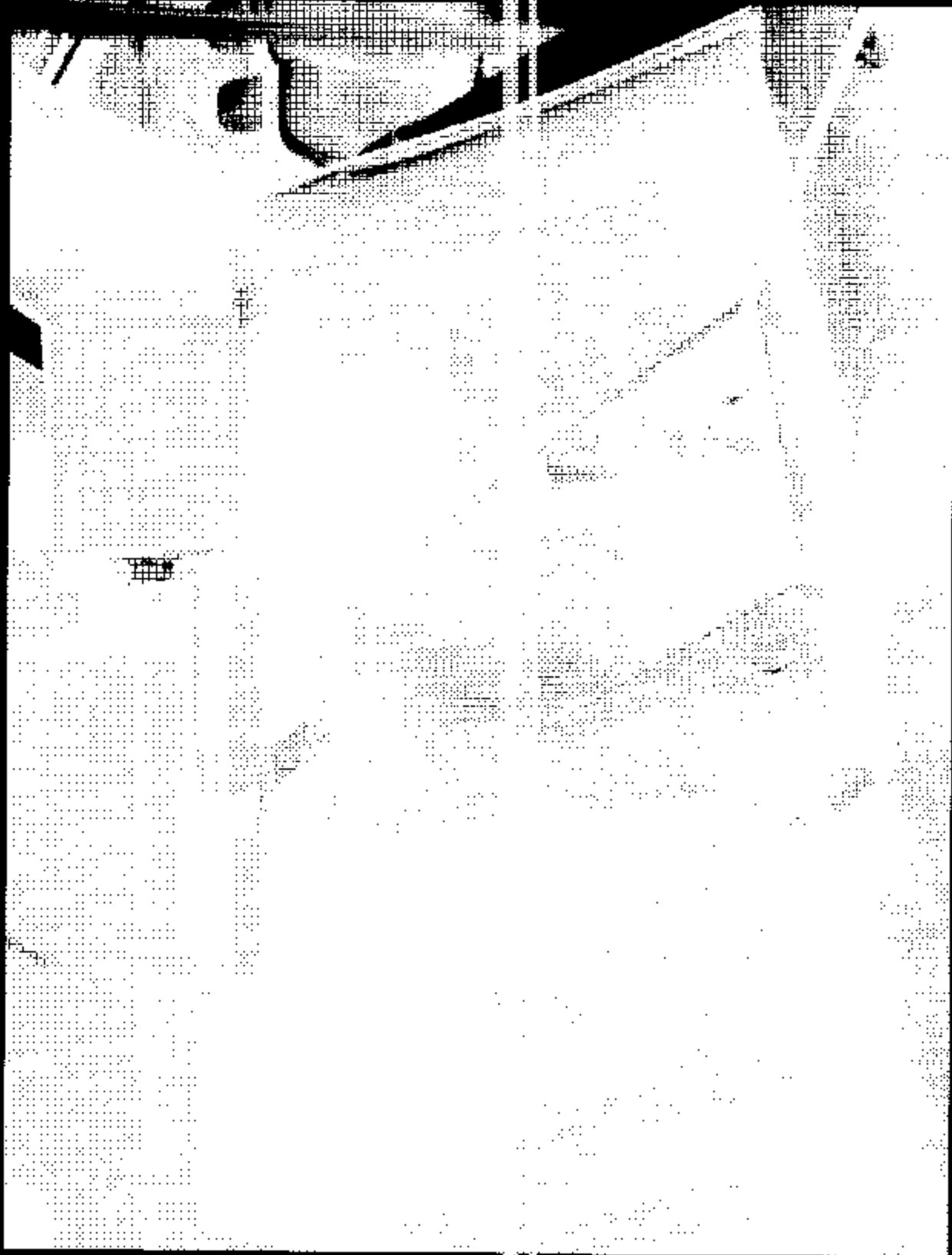
6.9.2 ¾ Front right view of SFADII test 1 of 7



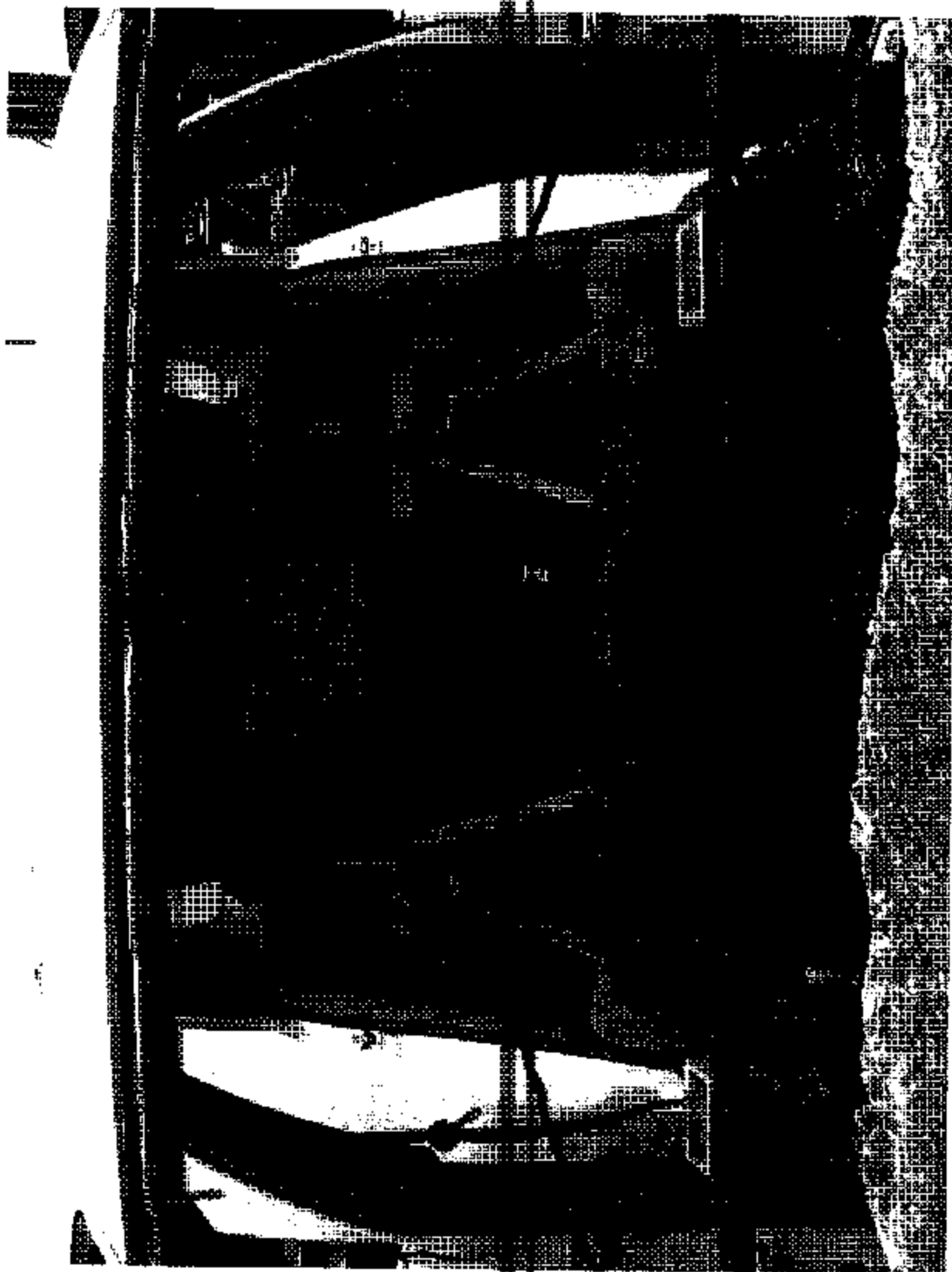
6.9.3 ¾ Front left view of SPADI test 2 of 2



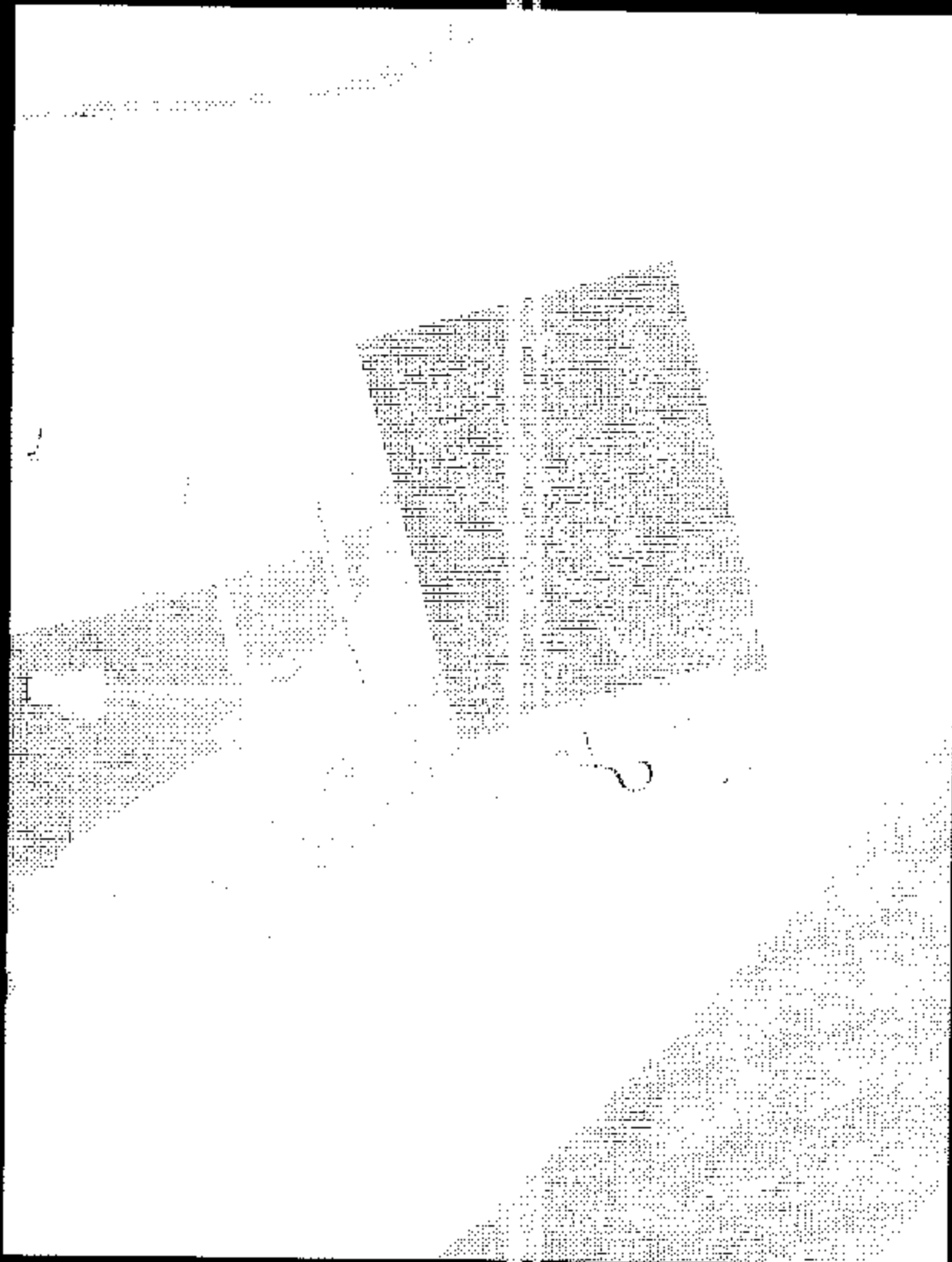
6.9.4 ¾ Front right view of SFADI test 2 of 2



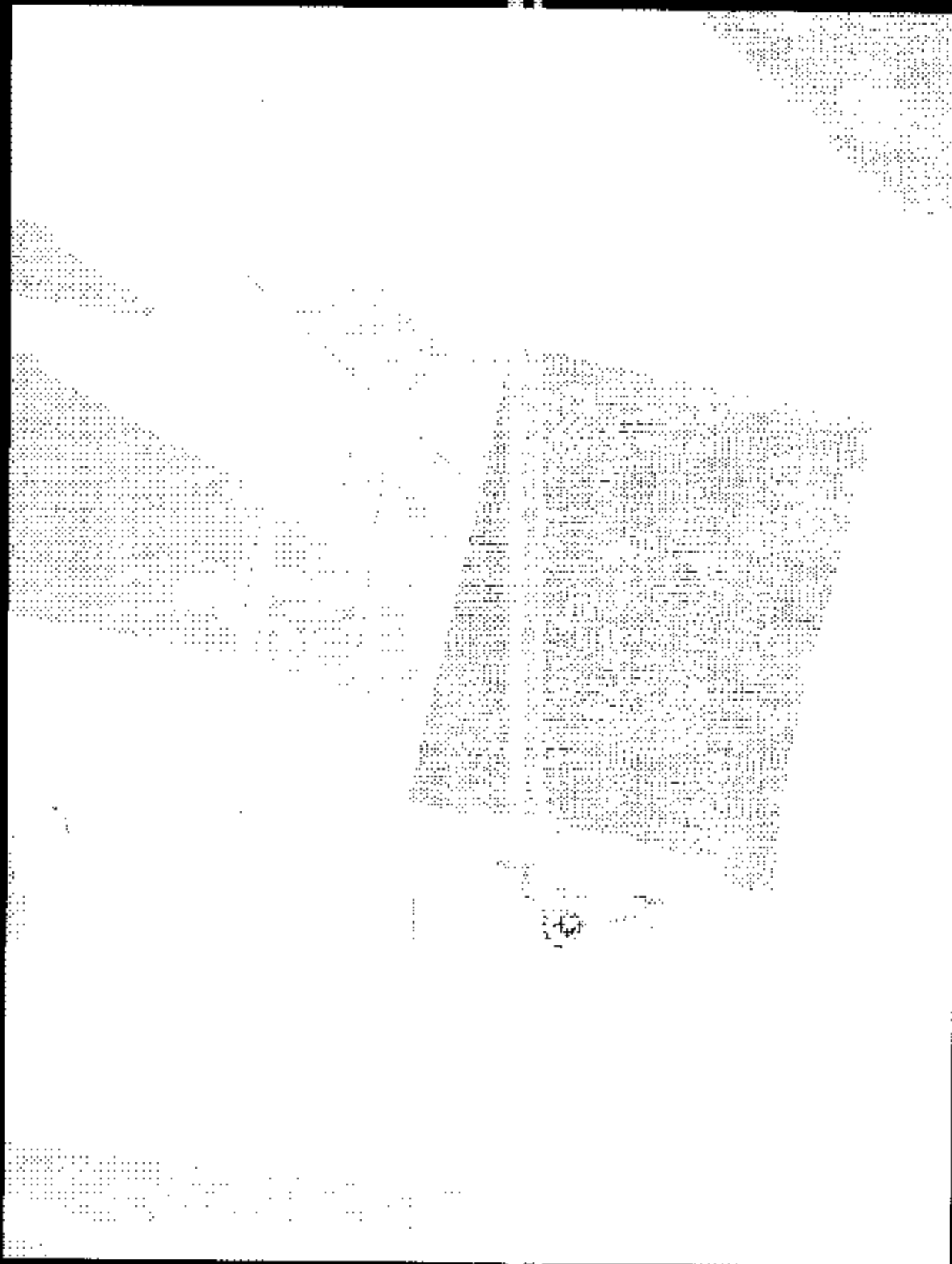
- 6.10 Pre-test views of each child restraint anchorage system installed in the vehicle
6.10.1 Pre-test photo #1 of SFADII test of 2



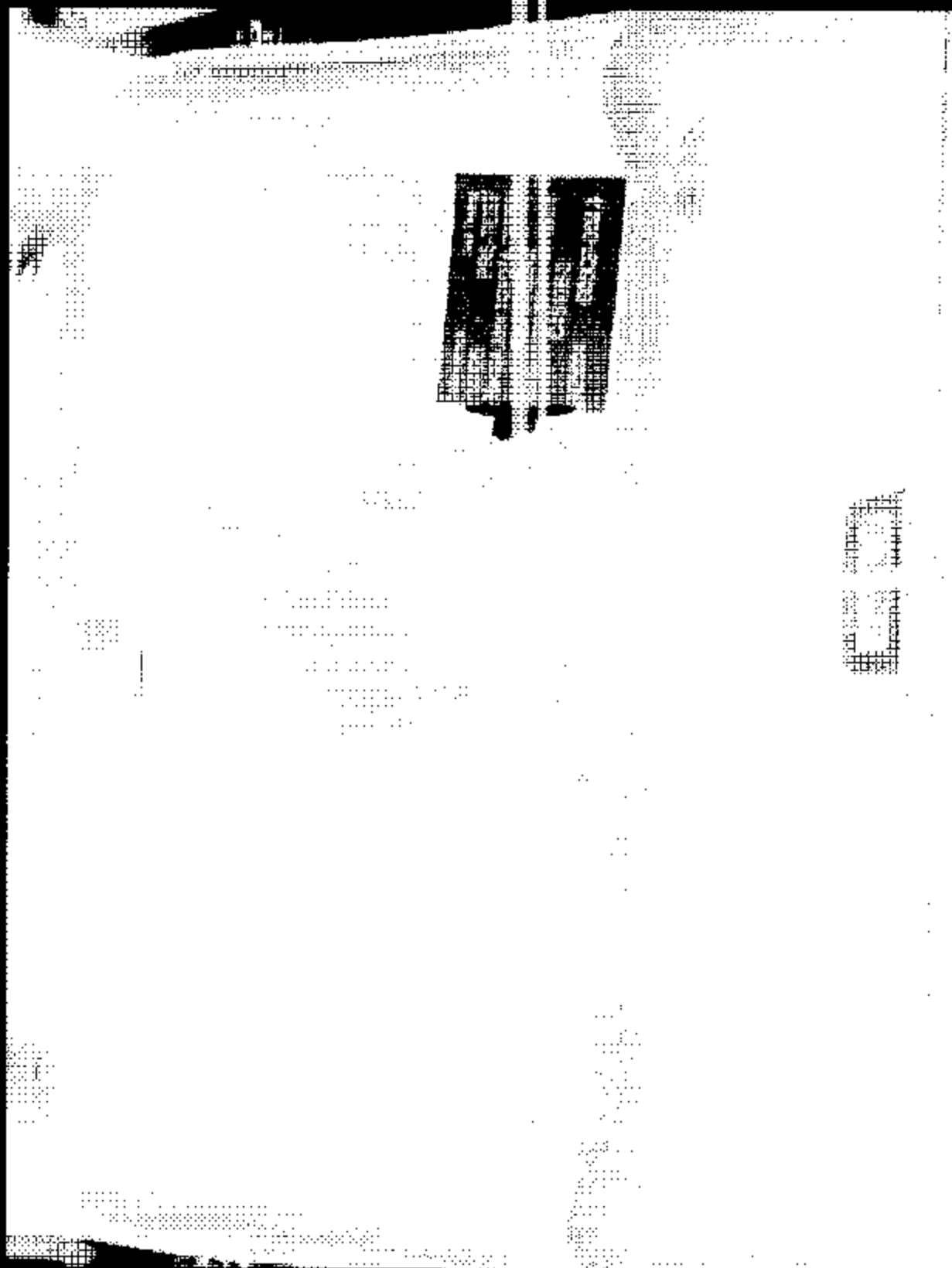
6.10.2 Pre-test photo #2 of SFADII test of 2



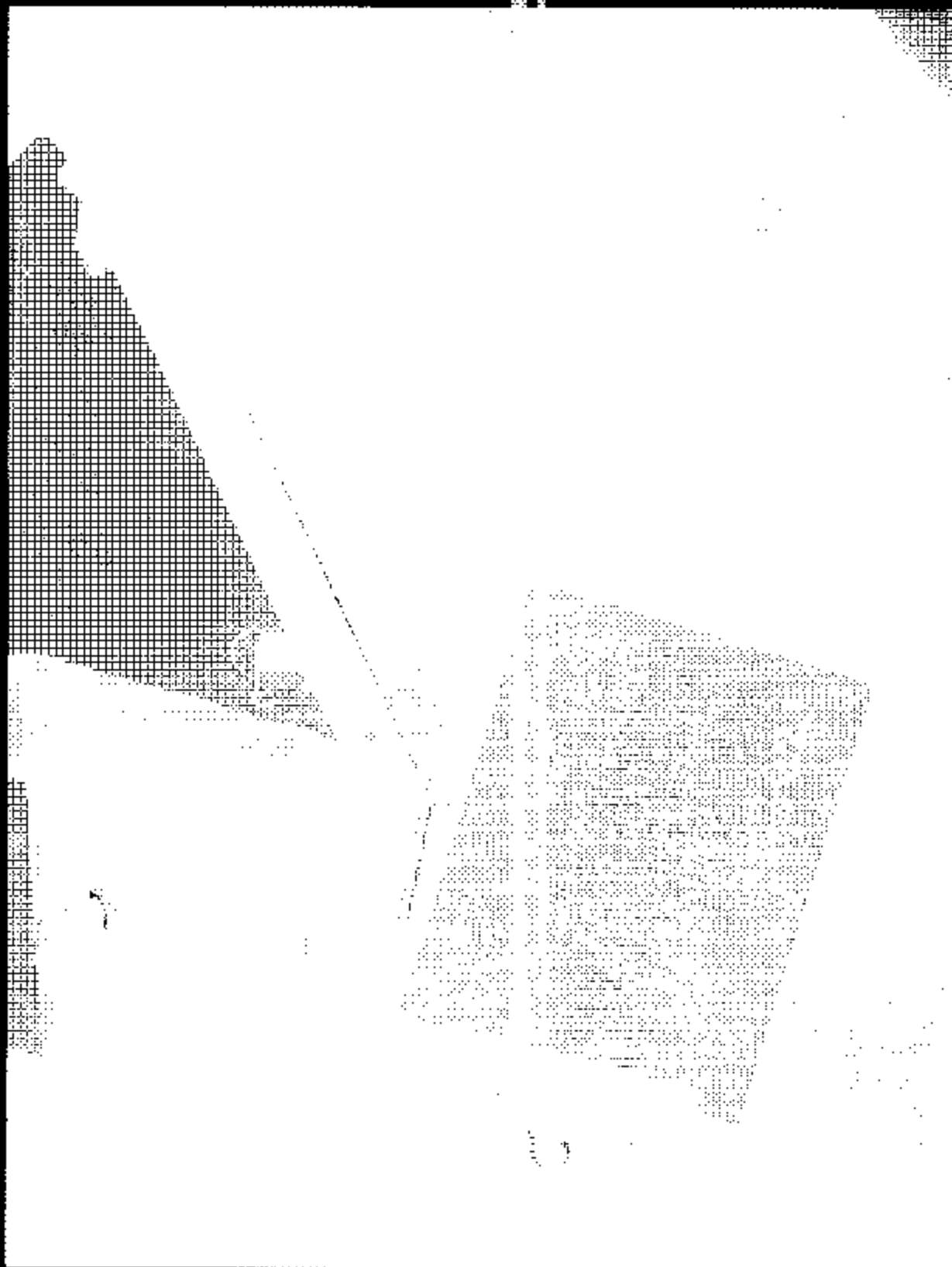
6.10.3 Pre-test photo #3 of SFADII test 1 of 2



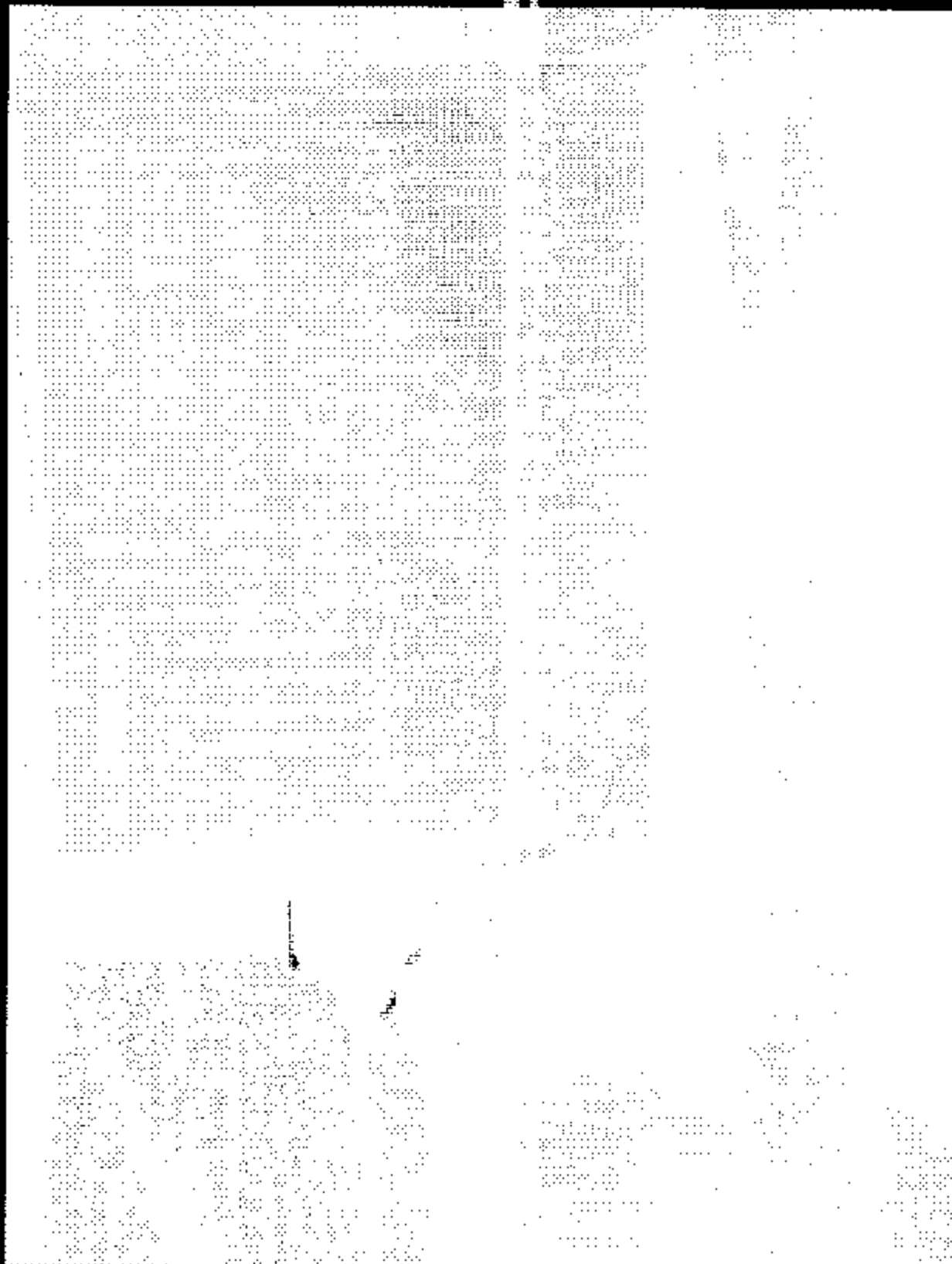
6.10.4 Pre-test photo #1 of SFADI test of 2



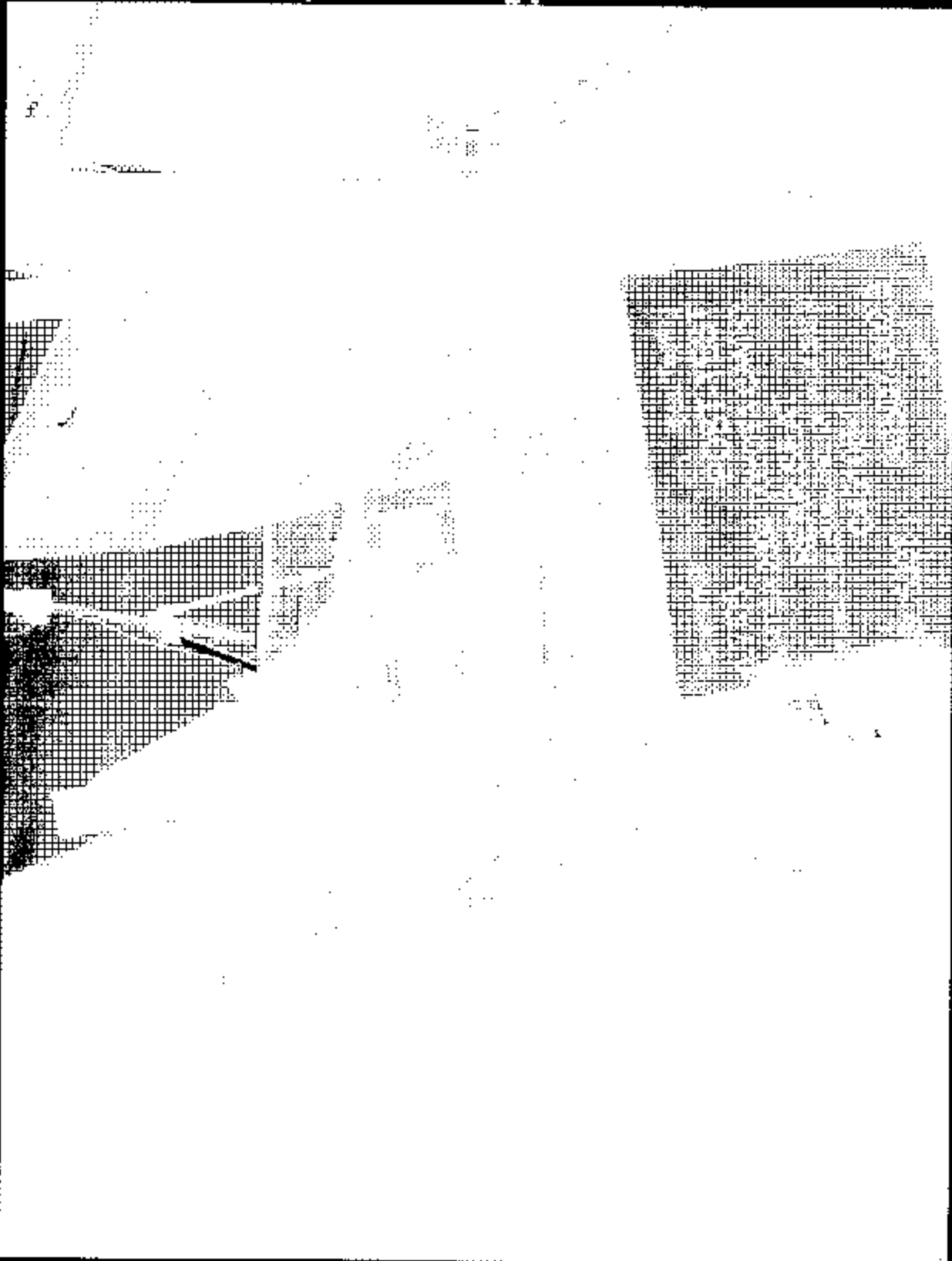
6.10.5 Pre-test photo #2 of SFADI test 2 of 2



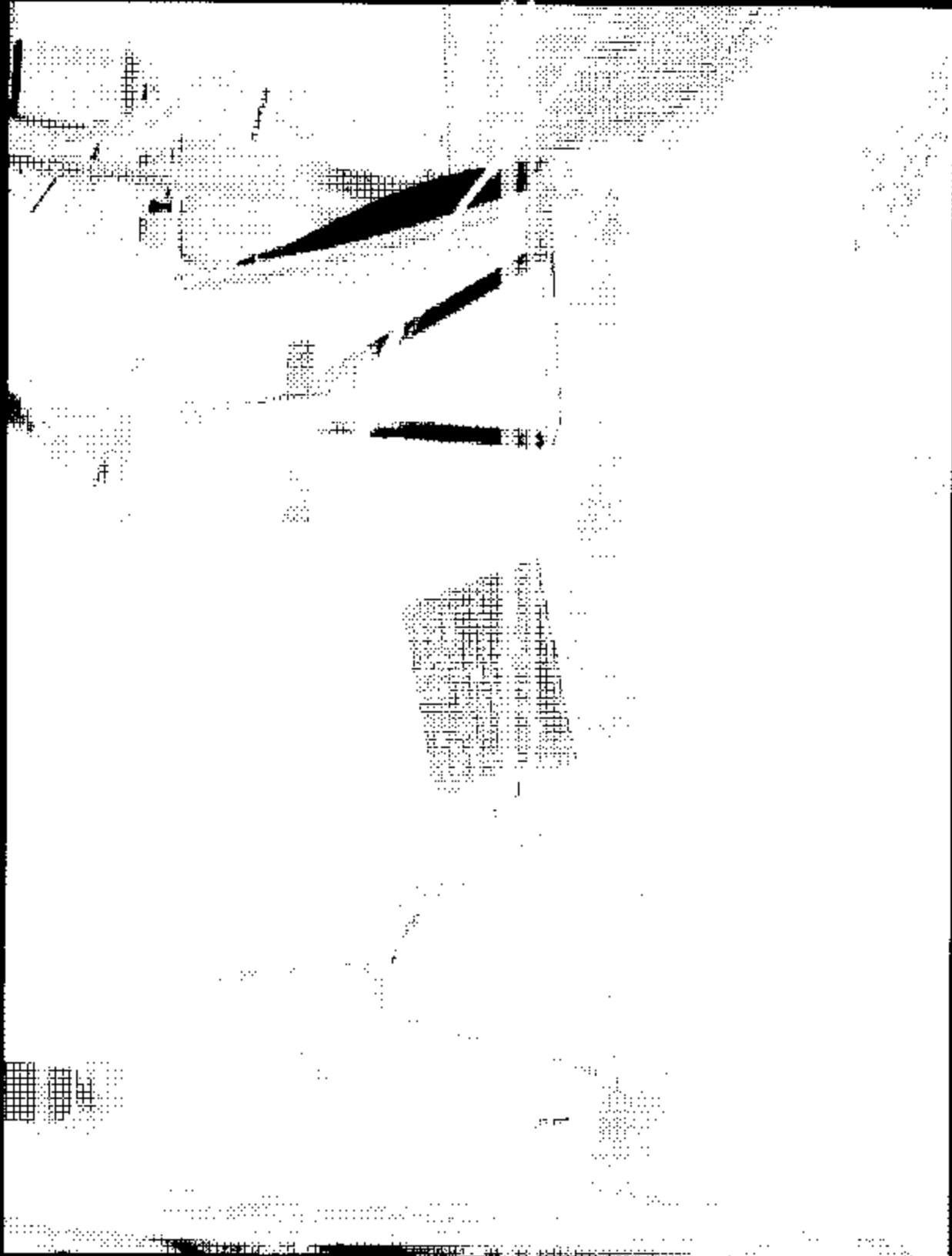
6.10.6 Pre-test photo #3 of SFADI test 2 of 2



- 6.11 Post-test condition of each child restraint anchorage system
6.11.1 Post-test photo #1 of SFADII test of 2



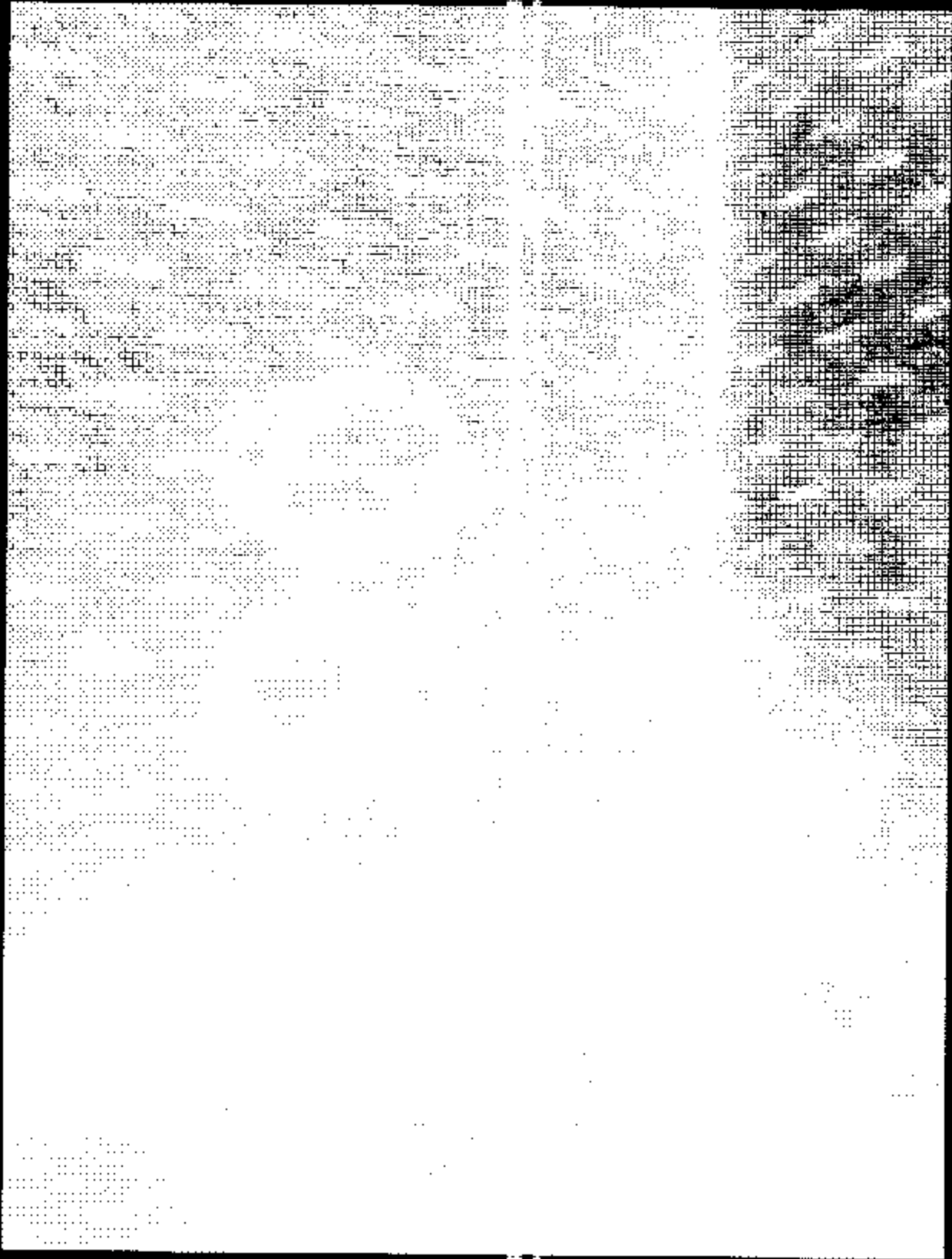
6.11.2 Post-test photo #2 of SFADII test 1 of 2



6.11.3 Post-test photo #3 of SFADII test 1 of 2



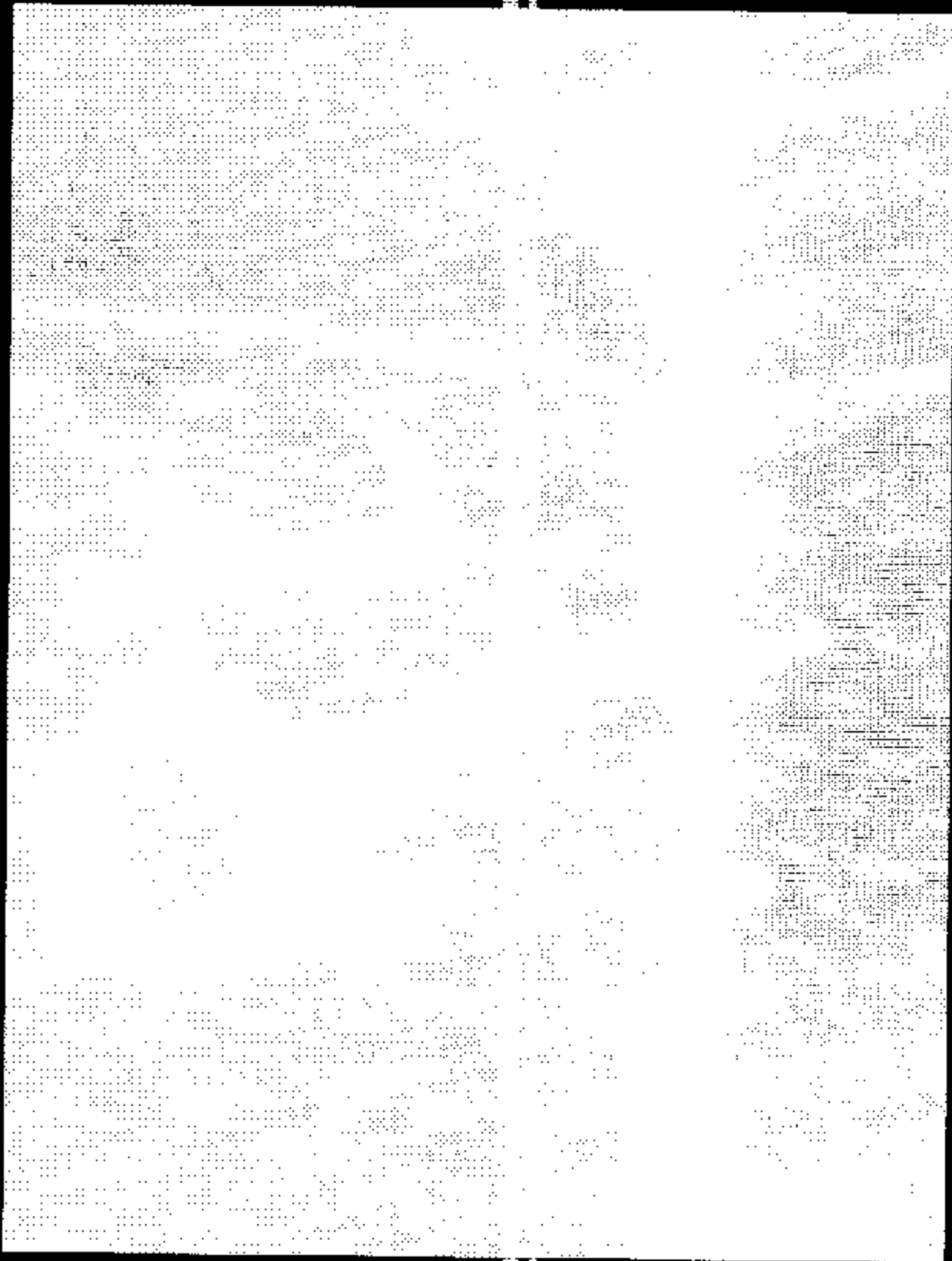
6.11.4 Post-test photo #4 of SFADII test 1 of 2



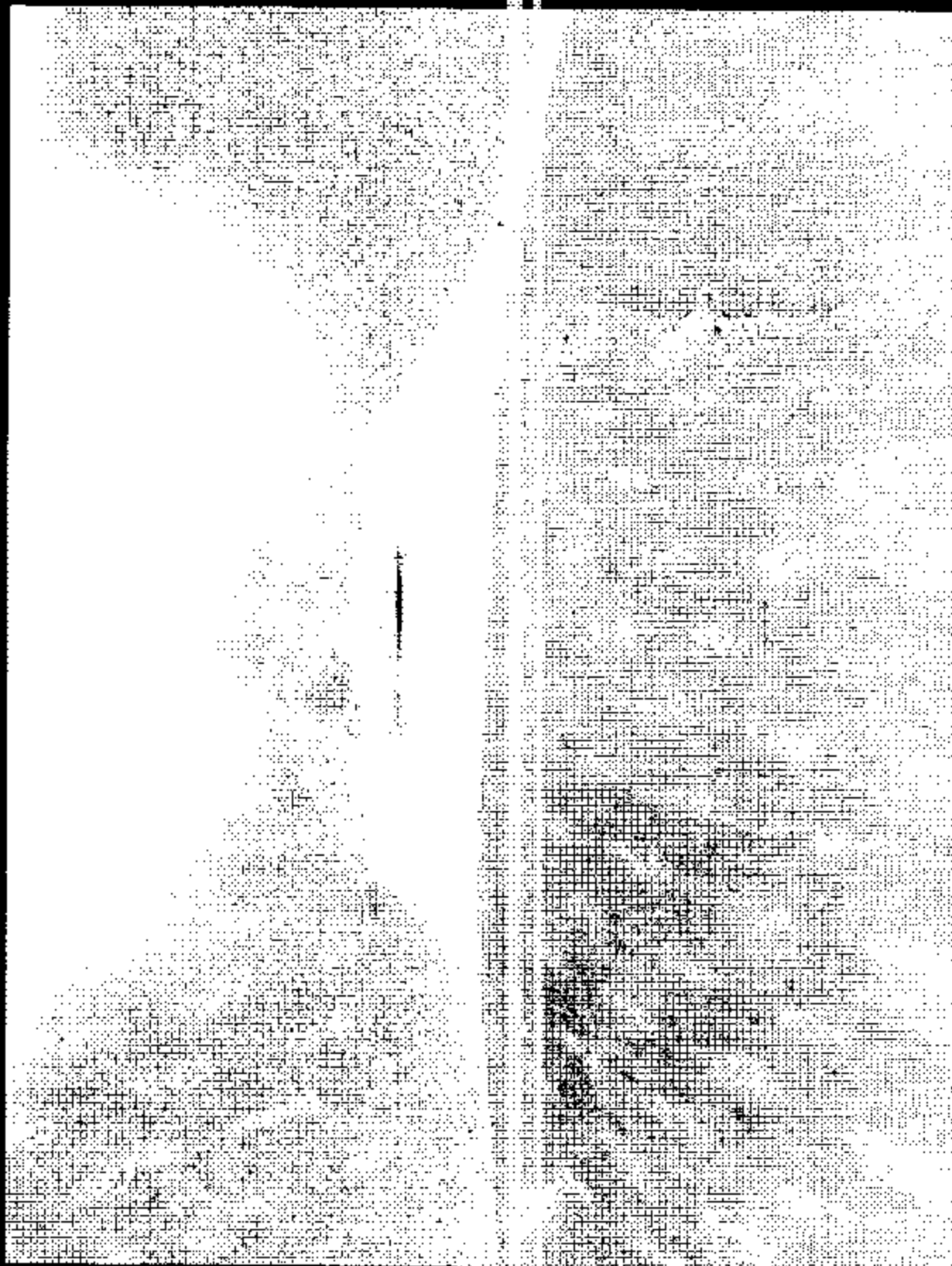
6.11.5 Post-test photo #3 of SFADII test 1 of 2



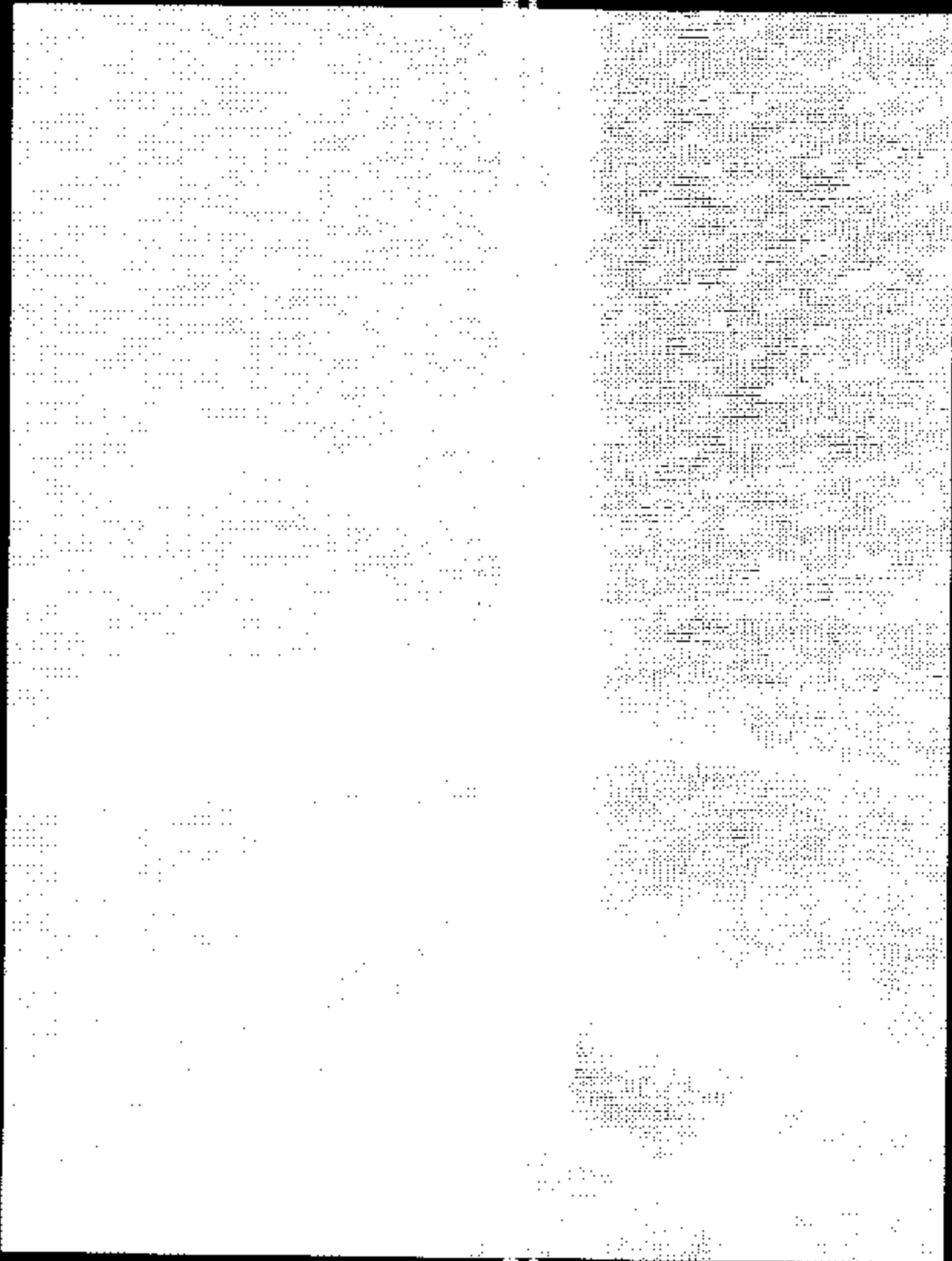
6.11.6 Post-test photo #6 of SFADII test 1 of 2



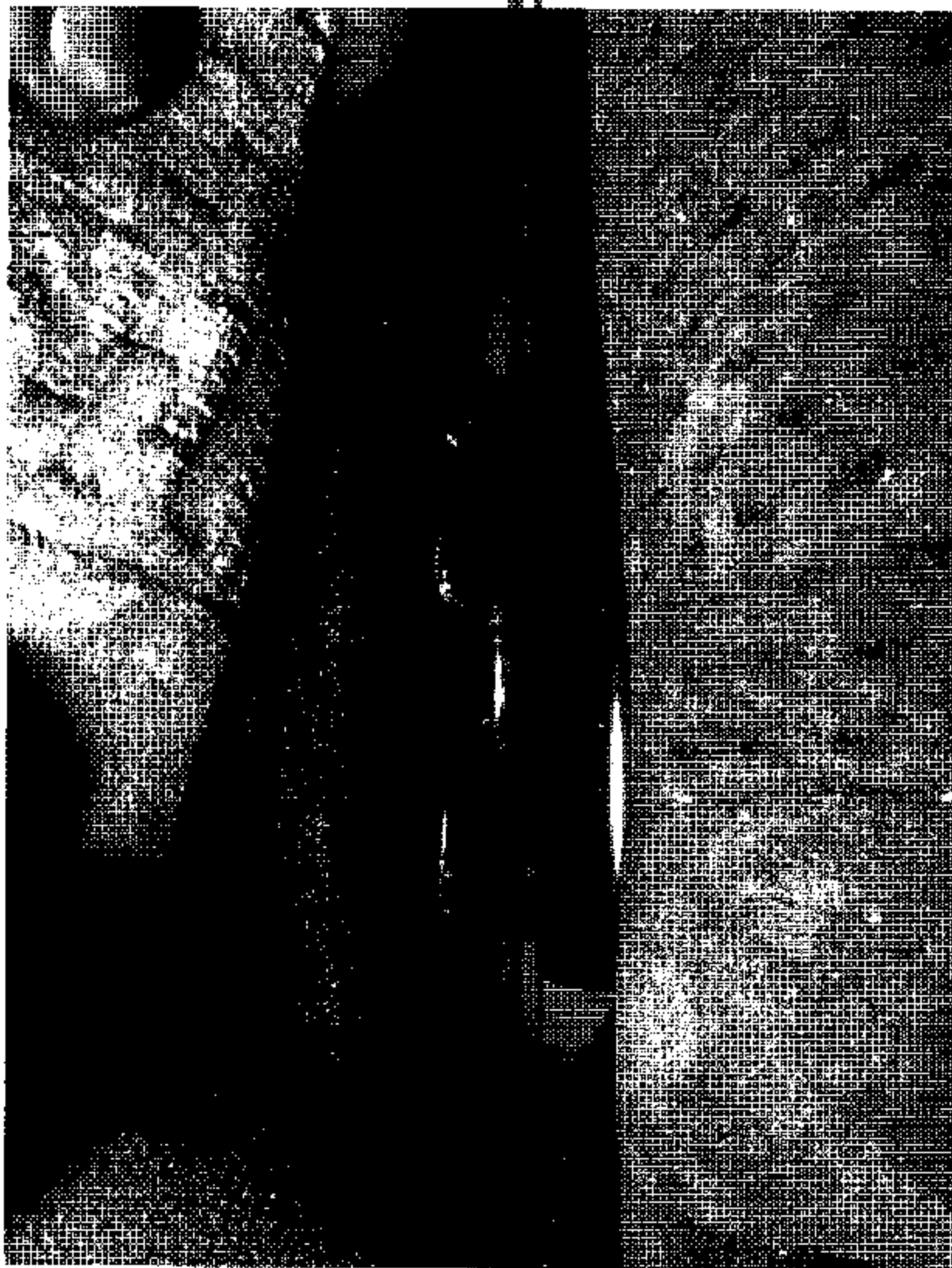
6.11.7 Post-test photo #7 of SFADII test of 2



6.11.8 Post-test photo #8 of SFADII 1 of 2



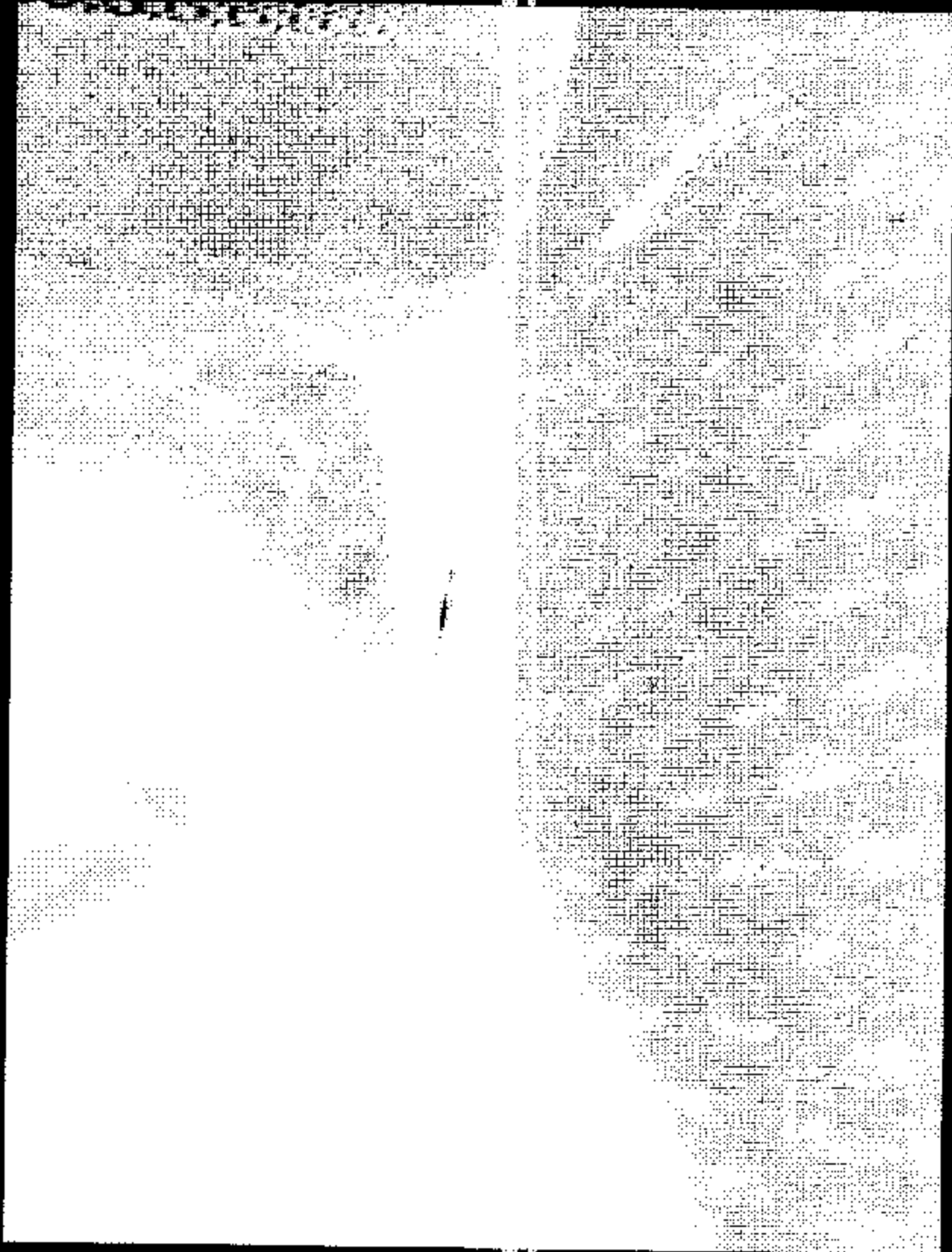
6.11.9 Post-test photo #9 of SFADII test 1 of 2



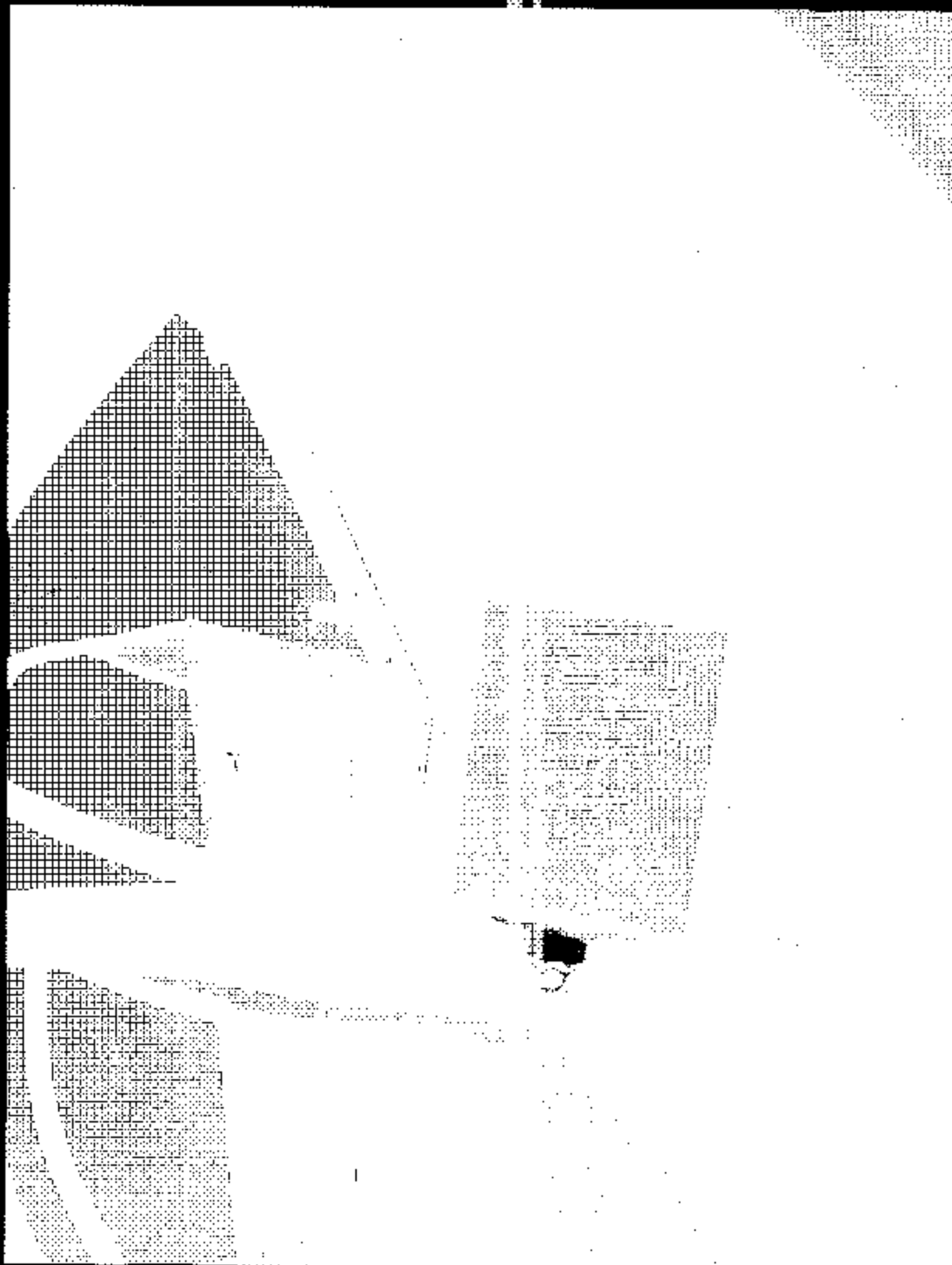
6.11.10 Post-test photo #10 of SFAD



6.11.11 Post-test photo #11 of SFADII test 1



6.11.12 Post-test photo #1 of SFADl test of 2



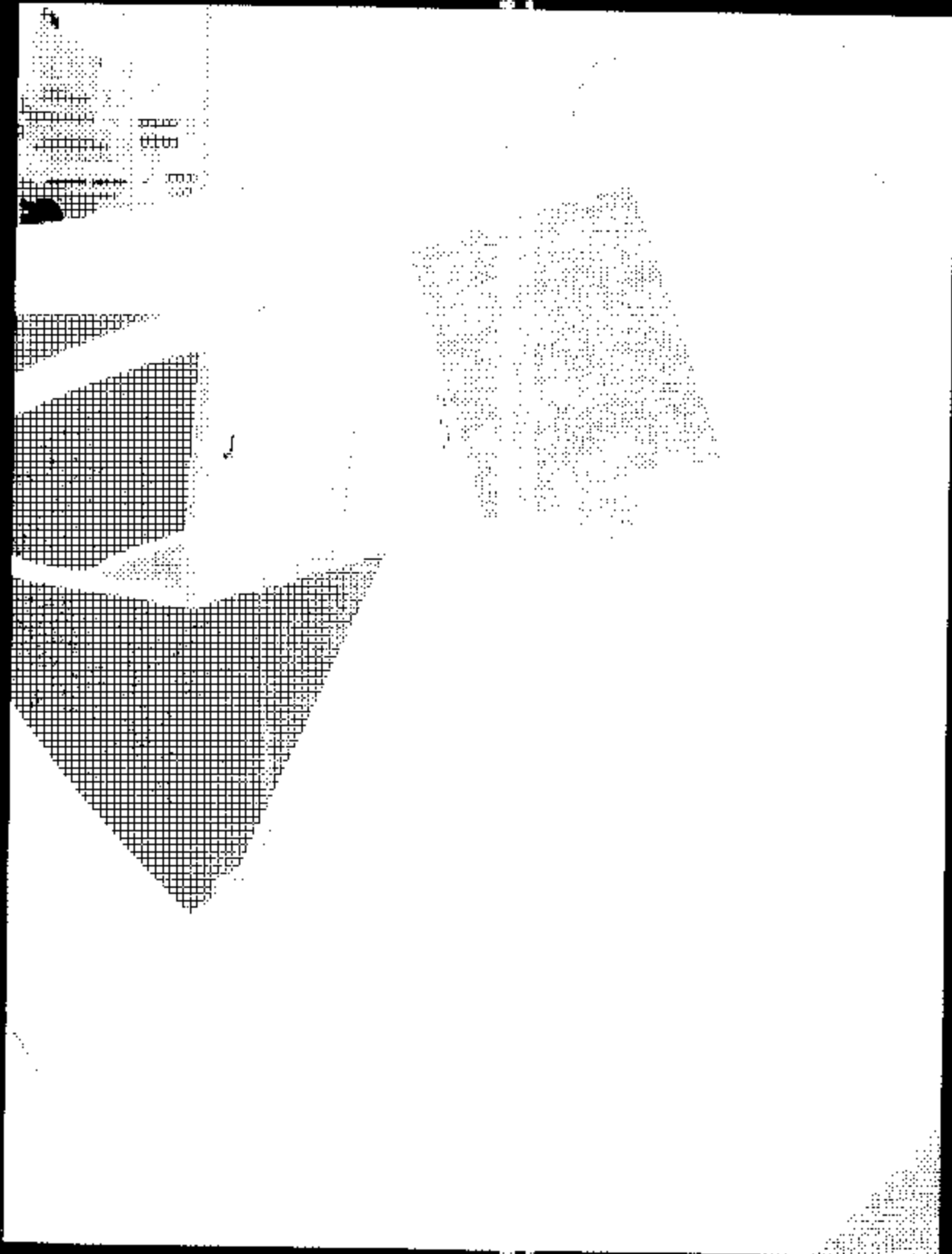
6.11.13 Post-test photo #2 of SFADI test of 2



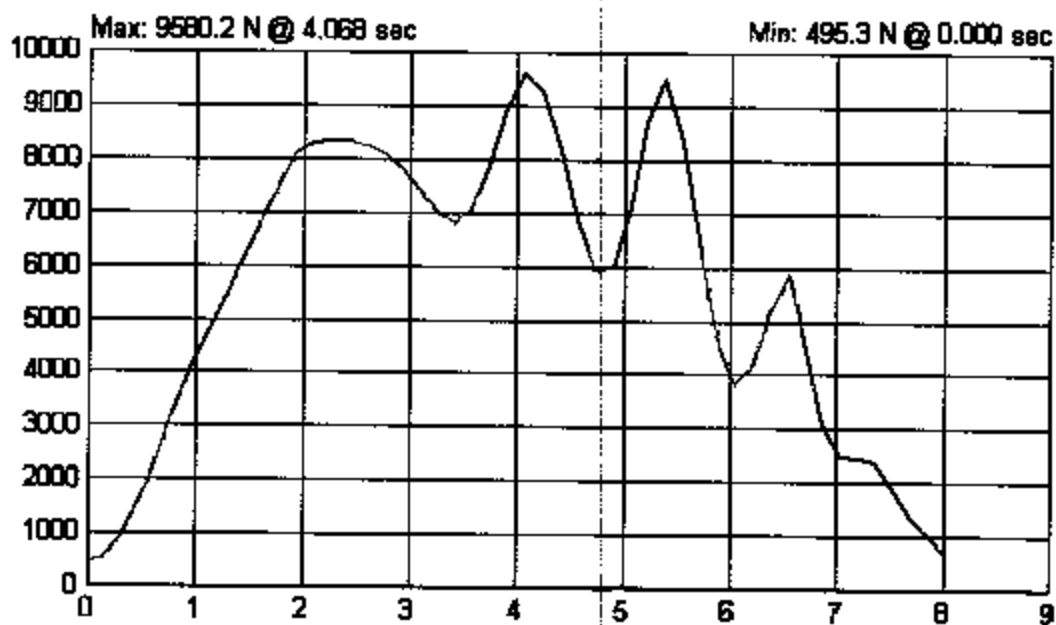
6.11.14 Post-test photo #3 of SFADI test of 2



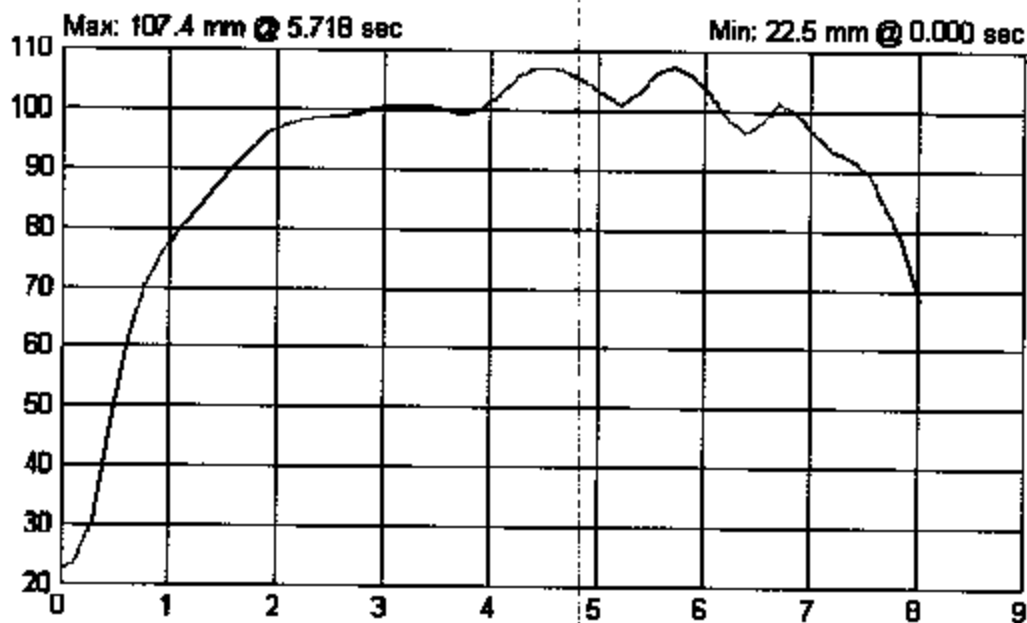
6.11.15 Post-test photo #4 of SFAD1 2 of 2



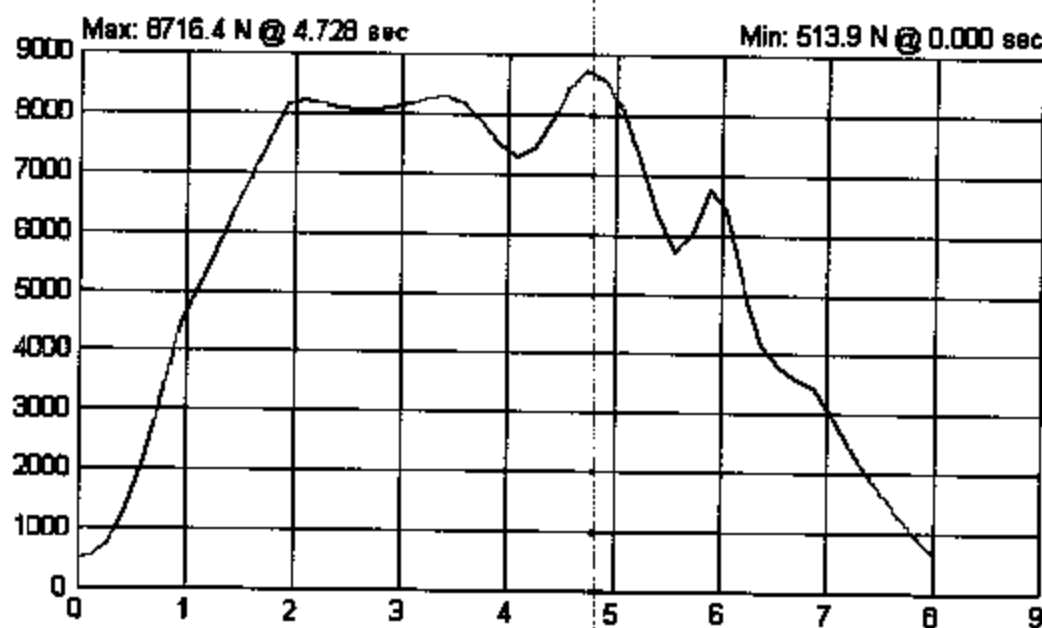
7.0 PLOTS



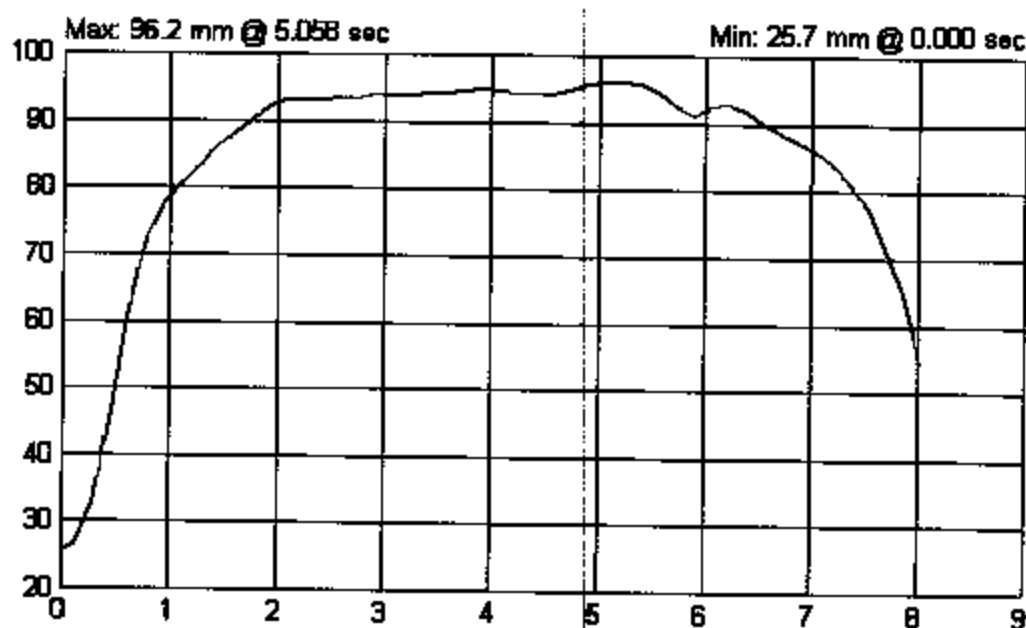
Run# SC5003: Lower Anchor Test (S15.2)-RS LH Load (N) vs. Time (sec)



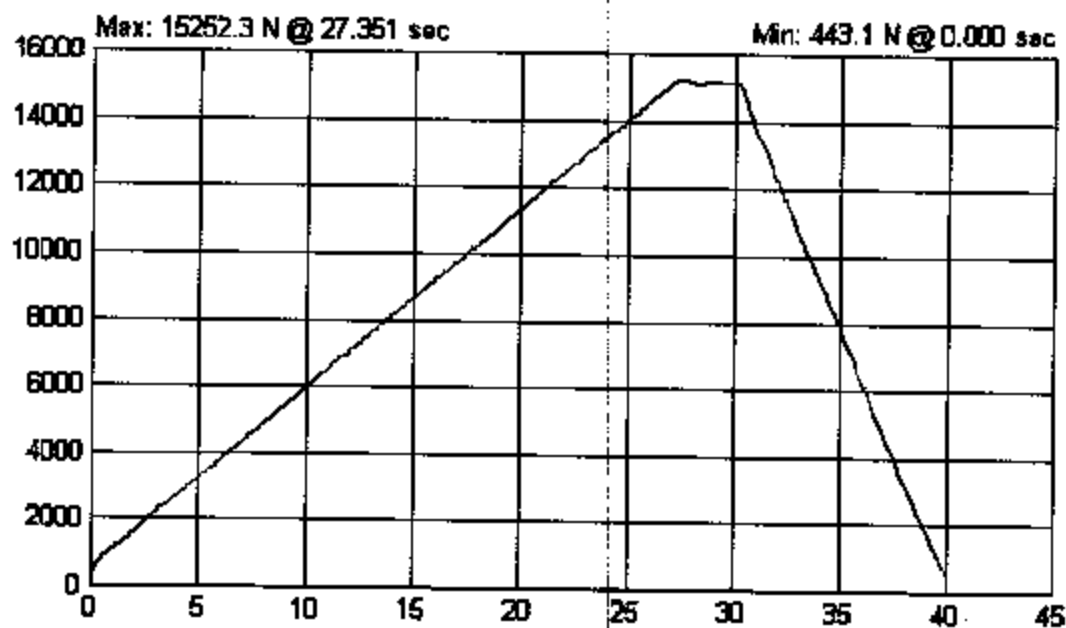
Run# SC5003: LH X Displacement (S15.2) (mm) vs. Time (sec)



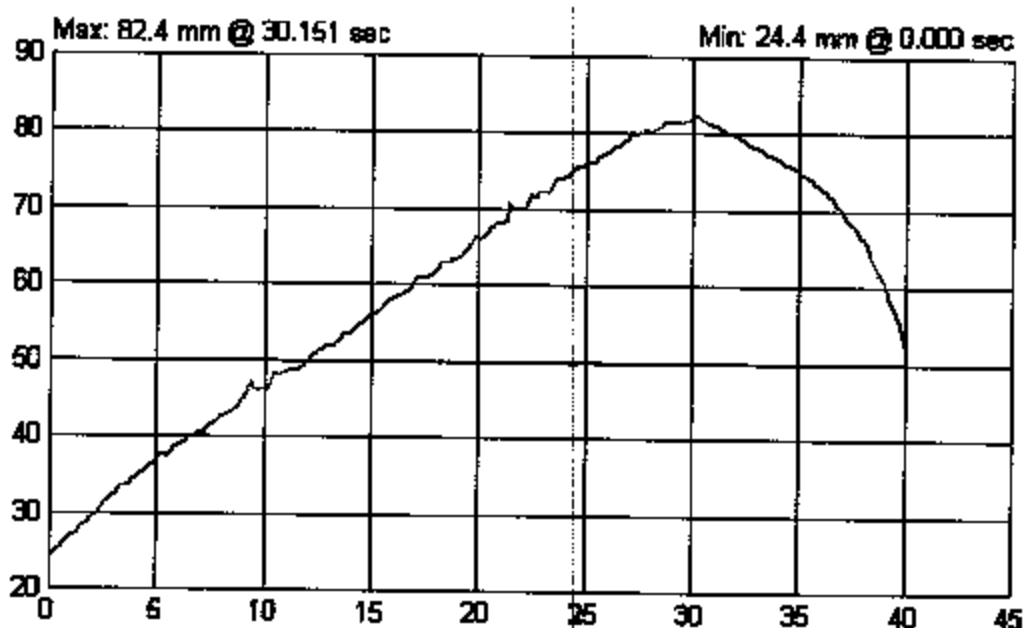
Run# SC5003: Lower Anchor Test (S15.2) RS RH Load (N) vs. Time (sec)



Run# SC5003: RH X Displacement (S15.2) (mm) vs. Time (sec)



Run# SC5004: Top Tether Test (S6.3.1) RS Center Load (N) vs. Time (sec)



Run# SC5004: Center X Displacement (S6.3.1) (mm) vs. Time (sec)

8.0 REPORT of VEHICLE CONDITION

REPORT OF VEHICLE CONDITION AT THE COMPLETION OF TESTING

CONTRACT No.: DTNH22-02-D-11043

DATE: January 7, 2005

From: MGA Research Corporation, 446 Executive Drive, Troy, MI 48083

To: NHTSA, OVSC, NVS-221

The following vehicle has been subjected to compliance testing for FMVSS No. 208 and 225

The vehicle was inspected upon arrival at the laboratory for the test and found to contain all of the equipment listed below. All variances have been reported within 2 working days of vehicle arrival, by letter, to the NHTSA Industrial Property Manager (NAD0-30), with a copy to the OVSC COTR. The vehicle is again inspected, after the above test has been conducted, and all changes are noted below. The final condition of the vehicle is also noted in detail.

VEH. MOD YR/MAKE/MODEL/BODY: 2004 Toyota Camry

VEH. NHTSA NO.: C45108

VIN: 4T1BE32K04U274609

COLOR: White

ODOMETER READINGS: ARRIVAL 215 miles Date: 2/23/04

COMPLETION N/A miles Date: 1/07/05

PURCHASE PRICE: \$22,994 DEALER'S NAME: Jack Saftro of Brookfield, LLC

ENGINE DATA: 4 Cylinders 2.4 Liters Cubic Inches

TRANSMISSION DATA: X Automatic Manual No. of Speeds 4

FINAL DRIVE DATA: Rear Drive X Front Drive 4 Wheel Drive

CHECK APPROPRIATE BOXES FOR VEHICLE EQUIPMENT:

TEST LABORATORY: MGA Research Corporation

OBSERVERS: Melanie Schick, Brad Resaume, Kenney Godfrey

☒	Air Conditioning	☐	Traction Control	☒	Clock
☐	Tinted Glass	☐	All Wheel Drive	☐	Roof Rack
☒	Power Steering	☒	Speed Control	☐	Console
☒	Power Windows	☒	Rear Window Defroster	☒	Driver Air Bag
☒	Power Door Locks	☐	Sun Roof or T-Top	☒	Passenger Air Bag
☐	Power Seat(s)	☐	Tachometer	☒	Front Disc Brakes
☐	Power Brakes	☒	Tilt Steering Wheel	☒	Rear Disc Brakes
☐	Antilock Brake System	☒	AM/FM/Compact Disc	☐	Other

REMARKS:

Salvage only.

Equipment that is no longer on the test vehicle as noted on previous pages:

All equipment inventoried and placed in vehicle.

Explanation for equipment removal:

Windshield and front seats were removed before conducting the testing.

Test Vehicle Condition:

Salvage only.

RECORDED BY: Melanie Schick, Kenney Godfrey

DATE: January 7, 2005

APPROVED BY: Brad Reaume

APPENDIX A
OWNERS MANUAL CHILD RESTRAINT SYSTEMS

- Do not put objects under the front passenger seat.
- Child restraint systems installed on the rear seat should not block the front seatbacks.

The "AIRBAG ON" indicator light may be illuminated (the front passenger airbag and side airbag on the front passenger seat may deploy) even if observing the above cautions, when a child sits in, or a forward-facing child restraint system is installed on the front passenger seat. Refer to all the cautions in "SRS airbags" on page 65 and "Child restraint" on page 74 in this Section.

Child restraint— —Child restraint precautions

Toyota strongly urges the use of appropriate child restraint systems for children.

The laws of all 50 states in the U.S.A. and Canada now require the use of a child restraint system.

Your vehicle conforms to BAEJ1819.

If a child is too large for a child restraint system, the child should sit in the rear seat and must be restrained using the vehicle's seat belt. See "Seat belts" on page 45 in this Section for details.

CAUTION

- For effective protection in automobile accidents and sudden stops, a child must be properly restrained, using a seat belt or child restraint system depending on the age and size of the child. Holding a child in your arms is not a substitute for a child restraint system. In an accident, the child can be crushed against the windshield, or between you and the vehicle's interior.

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- A forward-facing child restraint system should be secured to be installed on the front passenger seat only when it is unavoidable. Always move the seat as far back as possible even if the "AIRBAG OFF" indicator light is illuminated, because the front passenger airbag could interfere with considerable speed and force. Otherwise, the child may be killed or seriously injured.

- On vehicles with side airbags and certain shield airbags, do not allow the child to lean his/her head or any part of his/her body against the door or the area of the seat, front or rear pillar or roof side rail from which the side airbags or curtain shield airbags deploy even if the child is seated in the child restraint system. It is dangerous if the side airbag and curtain shield airbag inflate, and the impact could cause death or serious injury to the child.

- Do not use the seat belt extender when installing a child restraint system on the front or rear passenger seat. If installing a child restraint system with the seat belt extender connected to the seat belt, the seat belt will not securely hold the child restraint system, which could cause death or serious injury to the child or other passengers in the event of collision.

- Make sure you have complied with all installation instructions provided by the child restraint manufacturer and that the system is properly secured. If it is not secured properly, it may cause death or serious injury to the child in the event of a sudden stop or accident.

- Toyota strongly urges use of a proper child restraint system which conforms to the size of the child, installed on the rear seat. According to accident statistics, the child is safer when properly restrained in the rear seat than in the front seat.

- Never install a rear-facing child restraint system on the front passenger seat even if the "AIRBAG OFF" indicator light is illuminated. In the event of an accident, the force of the rapid inflation of the front passenger airbag can cause death or serious injury to the child if the rear-facing child restraint system is installed on the front passenger seat.

—Child restraint system

A child restraint system for a small child or baby must itself be properly restrained on the seat with the lap portion of the lap/shoulder belt. You must carefully consult the manufacturer's instructions which accompany the child restraint system.

To provide proper restraint, use a child restraint system following the manufacturer's instructions about the appropriate age and size of the child for the child restraint system.

Install the child restraint system correctly following the instructions provided by its manufacturer. General directions are also provided under the following illustrations.

The child restraint system should be installed on the rear seat. According to accident statistics, the child is safer when properly restrained in the rear seat than in the front seat.

When not using the child restraint system, keep it secured with the seat belt or place it in the trunk or somewhere other than the passenger compartment. This will prevent it from injuring passengers in the event of a sudden stop or accident.

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—Types of child restraint system

Child restraint systems are classified into the following 3 types depending on the child's age and size.

- (A) Infant seat
- (B) Convertible seat
- (C) Booster seat

Install the child restraint system following the instructions provided by its manufacturer.

Your vehicle has anchor brackets for securing the top strap of a child restraint system.

For instructions about how to use the anchor bracket, see "Using a top strap" on page 67 in this Section.

The child restraint lower anchorages approved for your vehicle may also be used. See "Installation with child restraint lower anchorages" on page 68 in this Section.



(A) Infant seat



(C) Booster seat



(B) Convertible seat

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—Installation with seat belt



(A) INFANT SEAT INSTALLATION

An infant seat must be used in rear-facing position only.



L13039



L13035

CAUTION

• Never install a rear-facing child restraint system on the front passenger seat even if the "AIRBAG OFF" indicator light is illuminated. In the event of an accident, the impact of the rapid inflation of the front passenger airbag could cause death or serious injury to the child if the rear-facing child restraint system is installed on the front passenger seat.

• Do not install a child restraint system on the rear seat if it interferes with the lock mechanism of the front seats. Otherwise, the child or front seat occupant(s) may be killed or seriously injured in case of sudden braking or a collision.

• If the driver's seat position does not allow sufficient space for safe installation, install the child restraint system on the rear right seat.

77



1. Run the lap and shoulder belt through or around the infant seat following the instructions provided by its manufacturer and insert the tab into the buckle taking care not to twist the belt. Keep the lap portion of the belt tight.

CAUTION

- After inserting the tab, make sure the tab and buckle are locked and that the lap and shoulder portions of the belt are not twisted.
- Do not insert coins, clips, etc. in the buckle as this may prevent your child from properly latching the tab and buckle.
- If the seat belt does not function normally, it cannot protect your child from death or serious injury. Contact your Toyota dealer immediately. Do not install the child restraint system on the seat until the seat belt is fixed.



2. Fully extend the shoulder belt to put it in the lock mode. When the belt is then retracted even slightly, it cannot be extended.

To hold the infant seat securely, make sure the belt is in the lock mode before letting the belt retract.

79

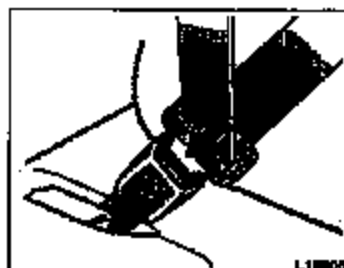


3. While pressing the infant seat firmly against the seat cushion and seatback, let the shoulder belt retract as far as it will go to hold the infant seat securely.



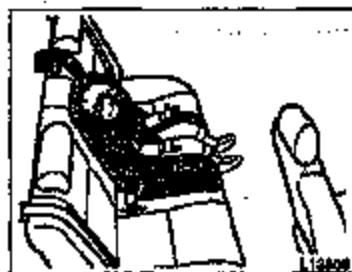
CAUTION

Push and pull the child restraint system in different directions to be sure it is secure. Follow all the installation instructions provided by its manufacturer.



4. To remove the infant seat, press the buckle release button and allow the belt to retract completely. The belt will move freely again and be ready to work for an adult or older child passenger.

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(B) CONVERTIBLE SEAT INSTALLATION

A convertible seat must be used in forward-facing or rear-facing position depending on the age and size of the child. When installing, follow the manufacturer's instructions about the applicable age and size of the child as well as directions for installing the child restraint system.

Install the child restraint system on the front passenger seat only when it is unavoidable. Your vehicle is equipped with a front passenger occupant classification system. In order to activate the occupant classification system correctly, install the forward-facing child restraint system on the front passenger seat in the following order:

1. Turn the ignition key to the "ON" position.
2. Move the front passenger seat to the rearward position.
3. Put the child restraint system on the front passenger seat without putting your weight on the front passenger seat.
4. Insert the seat belt lap into the seat belt buckle.
5. Fully extend the shoulder belt to put it in the lock mode. When the belt is then retracted even slightly, it cannot be extended. To hold the seat securely, make sure the belt is in the lock mode before letting the belt retract.

6. While pressing the convertible seat firmly against the seat cushion and seatback, let the shoulder belt retract as far as it will go to hold the convertible seat securely.

CAUTION

Push and pull the child restraint system in different directions to be sure it is secure. Follow all the installation instructions provided by its manufacturer.

7. Put a child on the child restraint system and secure the child, complying with the instructions provided by the child restraint system manufacturer.

80

The "AIRBAG OFF" indicator light should be illuminated when the ignition key is "ON" and the child is in the child restraint system after following these procedures. The "AIRBAG OFF" indicator light indicates the SRS front passenger airbag and side airbag on the passenger side will not deploy. If the "AIRBAG ON" indicator light is illuminated, remove the child restraint system and reinstall it with the ignition key in the "ACC" or "LOCK" position. If the "AIRBAG ON" indicator light is illuminated when the ignition key is turned to the "ON" position, then the SRS front passenger airbag and side airbag on the passenger side may deploy in an accident. Do not drive the vehicle in this condition. Remove the child restraint system and contact your Toyota dealer.

CAUTION

Never install a rear-facing child restraint system on the front passenger seat. A forward-facing child restraint system should only be installed on the front passenger seat when unavoidable. If you must install the child restraint system on the front passenger seat, put the seat in its most rearward position, and install the forward-facing child restraint system in the proper order. Otherwise, the front passenger occupant classification system can not detect the presence of the child restraint system and the front passenger airbag and side airbag on the front passenger seat could deploy.



Never install a rear-facing child restraint system on the front passenger seat even if the "AIRBAG OFF" indicator light is illuminated. In the event of an accident, the impact of the rapid inflation of the front passenger airbag could cause death or serious injury to the child if the rear-facing child restraint system is installed on the front passenger seat.

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• A forward-facing child restraint system should be allowed to be installed on the front passenger seat only when it is unavoidable. Always move the seat as far back as possible even if the "AIRBAG OFF" indicator light is displayed, because the front passenger airbag could inflate with considerable speed and force. Otherwise, the child may be killed or seriously injured.

• On vehicles with side airbags and curtain shield airbags, do not allow the child to lean his/her head or any part of his/her body against the door or the area of the seat, front or rear pillar or roof side rail from which the side airbags or curtain shield airbags deploy even if the child is seated in the child restraint system. It is dangerous if the side airbag and curtain shield airbag inflate, and the impact could cause death or serious injury to the child.



• Do not install a child restraint system on the rear seat if it interferes with the lock mechanism of the front seats. Otherwise, the child or front seat occupant(s) may be killed or seriously injured in case of sudden braking or a collision.

• If the driver's seat position does not allow sufficient space for safe installation, install the child restraint system on the rear right seat.

82



1. Run the lap and shoulder belt through or around the convertible seat following the instructions provided by its manufacturer and insert the tab into the buckle taking care not to twist the belt. Keep the lap portion of the belt tight.

CAUTION

- After inserting the tab, make sure the tab and buckle are locked and that the lap and shoulder portions of the belt are not twisted.
- Do not insert coins, clips, etc. in the buckle as this may prevent your child from properly releasing the tab and buckle.
- If the seat belt does not function normally, it cannot protect your child from death or serious injury. Contact your Toyota dealer immediately. Do not install the child restraint system on the seat until the seat belt is fixed.



2. Fully extend the shoulder belt to put it in the lock mode. When the belt is then retracted even slightly, it cannot be extended.

To hold the convertible seat securely, make sure the belt is in the lock mode before letting the belt retract.

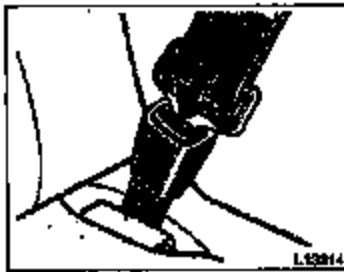
83



3. While pressing the convertible seat firmly against the seat cushion and seatback, let the shoulder belt retract as far as it will go to hold the convertible seat securely.



CAUTION
Push and pull the child restraint system in different directions to be sure it is secure. Follow all the installation instructions provided by its manufacturer.



4. To remove the convertible seat, press the buckle release button and allow the belt to retract completely. The belt will move freely again and be ready to work for an adult or older child passenger.

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(C) BOOSTER SEAT INSTALLATION
A booster seat must be used in forward-facing position only.



CAUTION
A forward-facing child restraint system should be allowed to be installed on the front passenger seat only when it is unavoidable. Always move the seat as far back as possible even if the "AIRBAG OFF" indicator light is illuminated, because the front passenger airbag could inflate with considerable speed and force. Otherwise, the child may be killed or seriously injured.

Do not allow the child to lean his/her head or any part of his/her body against the door or the area of the seat, front or rear pillar or roof side rail from which the side airbag or curtain shield airbag deploy even if the child is seated in the child restraint system. It is dangerous if the side airbag and curtain shield airbag inflate, and the impact could cause death or serious injury to the child.

85



1. Sit the child on a booster seat. Run the lap and shoulder belt through or around the booster seat and across the child following the instructions provided by its manufacturer and insert the tab into the buckle taking care not to twist the belt.

Make sure the shoulder belt is correctly across the child's shoulder and that the lap belt is positioned as low as possible on child's hips. See "Seat belts" on page 46 in this Section for details.

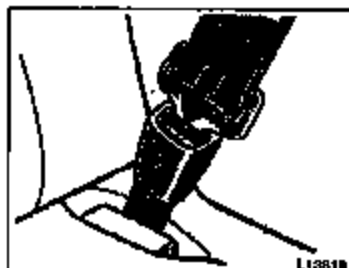
CAUTION

- Always make sure the shoulder belt is positioned across the center of child's shoulder. The belt should be kept away from child's neck, but not falling off child's shoulder. Otherwise, the child may be killed or seriously injured in case of sudden braking or a collision.
- Both high-positioned lap belts and loose-fitting belts could cause death or serious injuries due to sliding under the lap belt during a collision or other unintended event. Keep the lap belt positioned as low on a child's hips as possible.
- For child's safety, do not place the shoulder belt under child's arm.
- After inserting the tab, make sure the tab and buckle are locked and that the lap and shoulder portions of the belt are not twisted.
- Do not insert coins, slips, etc. in the buckle as this may prevent your child from properly latching the tab and buckle.

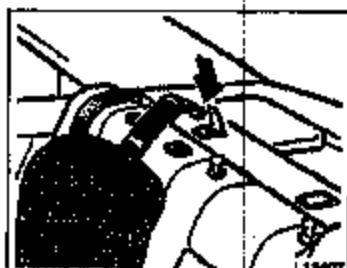
- If the seat belt does not function normally, it cannot protect your child from death or serious injury. Contact your Toyota dealer immediately. Do not install the child restraint system on the seat until the seat belt is fixed.

68

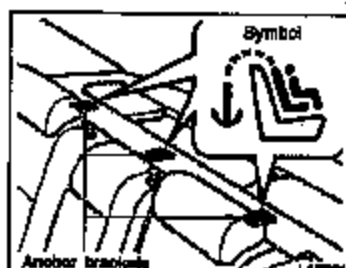
Using a top strap



2. To remove the child restraint system, press the buckle release button and allow the belt to retract.



Follow the procedure below for a child restraint system that requires the use of a top strap.

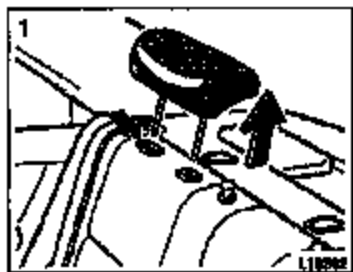


Use the anchor bracket on the package tray behind the rear seat to attach the top strap.

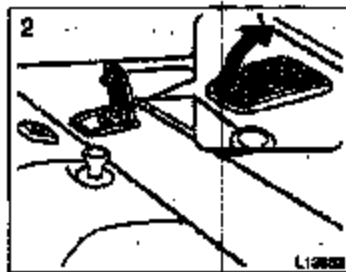
Anchor brackets are installed for each rear seating position.

This symbol indicates the location of the anchor brackets.

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TO USE THE ANCHOR BRACKET:
1. Outside anchor brackets only—
Remove the head restraint.



2. Open the lid of the anchor bracket.



3. Securely fasten the child restraint system with the seat belt. Latch the hook onto the anchor bracket and tighten the top strap. For instructions to install the child restraint system, see "Child restraint" on page 74 in this Section.

CAUTION

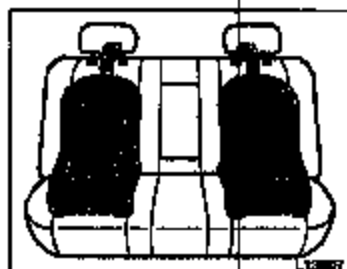
Make sure the top strap is securely latched, and check that the child restraint system is secure by pushing and pulling it in different directions. Follow all the installation instructions provided by its manufacturer.

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—Installation with child restraint lower anchorages



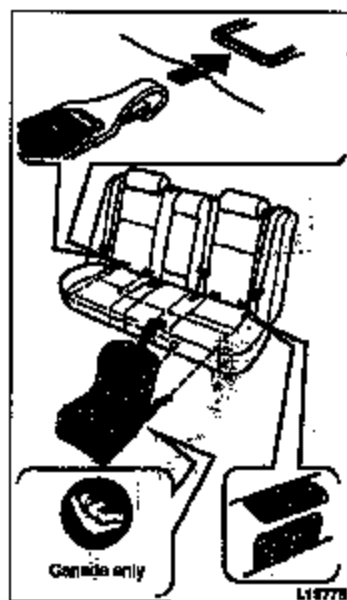
4. Replace the head restraint and lift it up to the uppermost lock position.



Lower anchorages for the child restraint systems complying with the FMVSS225 or CMVSS210.2 specifications are installed in the rear seat.

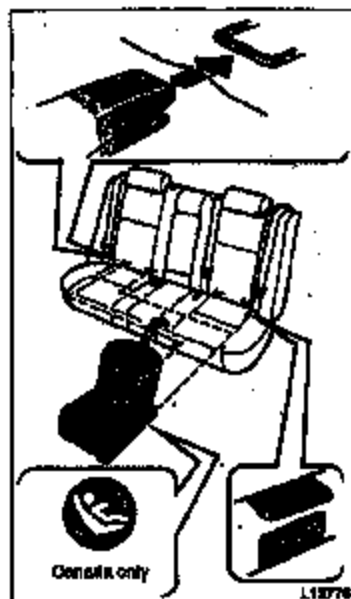
The anchorages are installed in the clearance between the seat cushion and seat-back of both outside rear seats.

Child restraint systems complying with the FMVSS225 or CMVSS210.2 specification can be fixed to these anchorages. In this case, it is not necessary to fix the child restraint system with a seat belt on the vehicle.



Type A

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Type B

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For owners in Canada

The symbol on a child restraint system indicates the presence of a lower connector system.

**CHILD RESTRAINT SYSTEM
INSTALLATION**

Type A—

1. Widen the clearance between the seat cushion and seatback a little and confirm the position of the lower anchorages near the bottom on the seatback.
2. Latch the hooks of lower straps onto the anchorages and tighten the lower straps.

Type B—

1. Widen the clearance between the seat cushion and seatback a little and confirm the position of the lower anchorages near the bottom on the seatback.
2. Latch the buckles onto the anchorages.

If your child restraint system has a top strap, it should be anchored. (For the installation of the top strap, see "Using a top strap" on page 57 in this Section.)

For the installation details, refer to the instruction manual equipped with each product.

CAUTION

- When using the lower anchorages for the child restraint system, be sure that there are no irregular objects around the anchorages or that the seat belt is not caught.
- Push and pull the child restraint system in different directions to be sure it is secure. Follow all the installation instructions provided by its manufacturer.
- Do not install a child restraint system on the rear seat if it interferes with the lock mechanism of the front seats. Otherwise, the child or front seat occupant(s) may be killed or seriously injured in case of sudden braking or a collision.

APPENDIX B
MANUFACTURER'S DATA (OVSC FORM 1)

03/17/2004 10:55 FAX 303 388 3081

CVSCL/NVR/221

+ RGA TROY

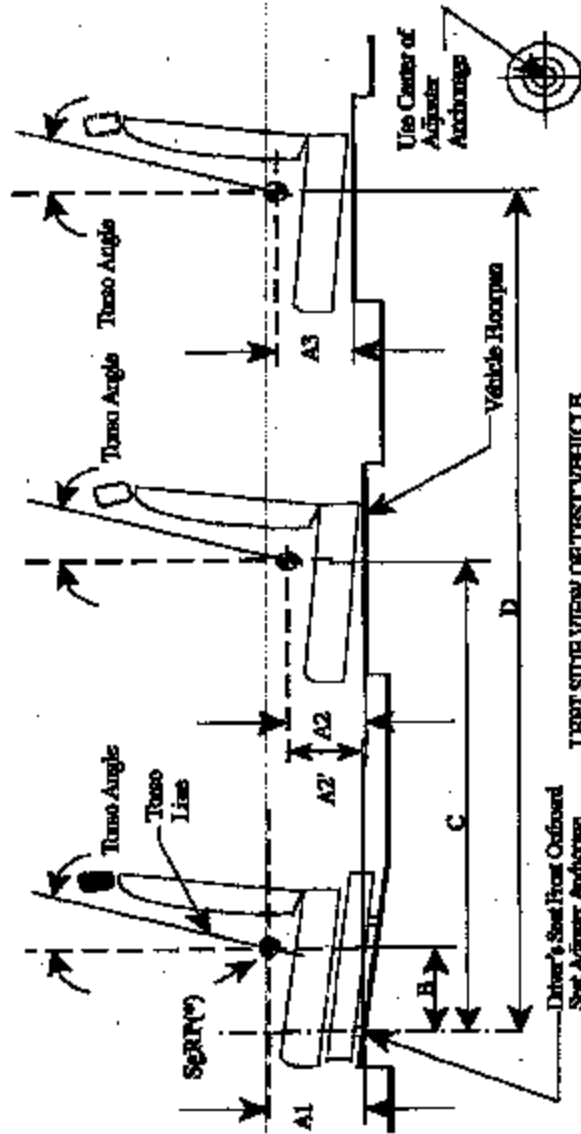
4088/342

Attachment 3-1

SEAT REFERENCE POINT (SRP) AND TORSO ANGLE DATA
 FOR FMVSS 225

(All dimensions in mm)

Model Year: 2004 ; Make: TOYOTA ; Model: CAMRY ; Body Style: 4Door Sedan
 Seat Style: Front row: Sedan ; Second row: 64 Split Bench ; Third row: N/A



(*) In case of manual seat, front seat position is 3 inches forward from the rear most.
 In case of power seat, front seat position is 45mm forward along seat rail from the rear most.

03/17/2004 15:54 FAX 202 336 2861

DTWC/NVA/221

→ MGA TEST

0009/042

Table L. Seating Positions and Turno Angles

	Left (Driver Side)	Center (If any)	Right
A1	(Driver) 250.9	N/A	(Front Passenger) 250.9
A2' (*)	258	283	258
A3	N/A	N/A	N/A
B	325.3	N/A	325.3
C	1184.1	1154.1	1184.1
D	N/A	N/A	N/A
Turno Angle (degree)	19	N/A	19
Second Row	25	22	25
Third Row	N/A	N/A	N/A

Note: L. All dimensions are in mm. If not, provide the unit used.

(*) A2' are the dimensions from the driver's seat front outboard seat adjuster anchorage.

05/17/2004 18:24 FAX R02 535 R001

CVSC/RVB/XE1

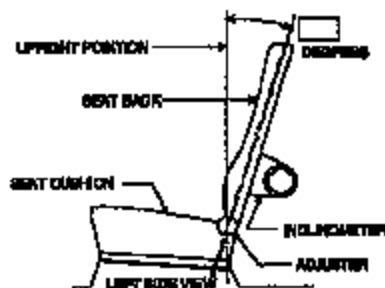
• MGA TRUY

0010/042

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NOMINAL DESIGN RIDING POSITION

For adjustable driver, passenger, 2nd row and 3rd row seat backs, describe how to position the inclinometer to measure the seat back angle. Include description of the location of the adjustment latch detent if applicable. Indicate if applicable, how the detents are numbered (Is the first detent "0" or "1"?). Indicate if the seat back angle is measured with the dummy in the seat.



Seat back angle for driver's seat = ____ degrees
Measurement Instructions:

See Attachment 3-2

Seat back angle for passenger's seat = ____ degrees
Measurement Instructions:

See Attachment 3-2

Seat back angle for 2nd row seat = ____ degrees
Measurement Instructions:

2nd row seat has no seat back adjustment.

Seat back angle for 3rd row seat = ____ degrees
Measurement Instructions:

N/A

03/17/2004 16:55 FAX 202 386 8081

OVBC/NVS/225

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Rev. 14
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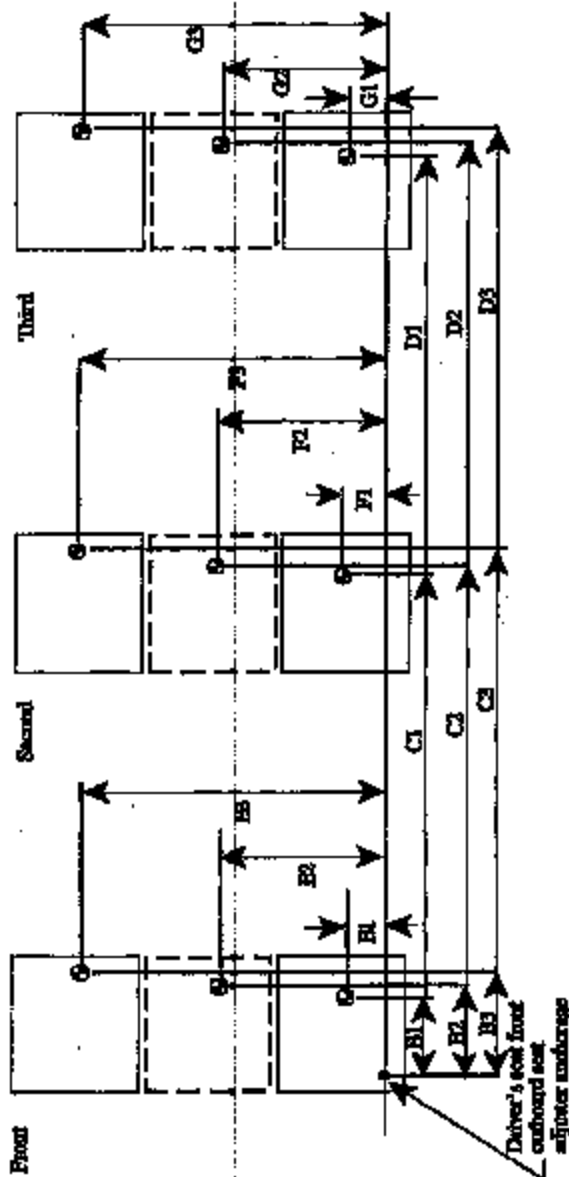
SEATING REFERENCE POINT

FOR FMVSS 225

(All dimensions in mm)

(Note: The Child Restraint Anchorage Location determines the 225 SgRP location)

Model Year: 2004 ; Make: TOYOTA ; Model: CAMRY ; Body Style: 4Door Sedan
 Seat Style: Front row: Separate ; Second row: 60/40 Split Bench ; Third row: N/A



02/17/2004 10:58 FAX 301 346 8881

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MGA TEST

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Table 2. Seating Reference Point and Tether Anchorage Locations

Seating Reference Point (SgRP)	Distance from Driver's front outboard seat adjuster anchorage ¹	
Front Row	B1	325.3
	H1	217
	B2	N/A
	H2	N/A
	B3	325.3
	H3	967
Second Row	C1	1184.1
	F1	217
	C2	1154.1
	F2	592
	C3	1184.1
	F3	967
Third Row	D1	N/A
	G1	N/A
	D2	N/A
	G2	N/A
	D3	N/A
	G3	N/A

Note: 1. Use the center of anchorage.

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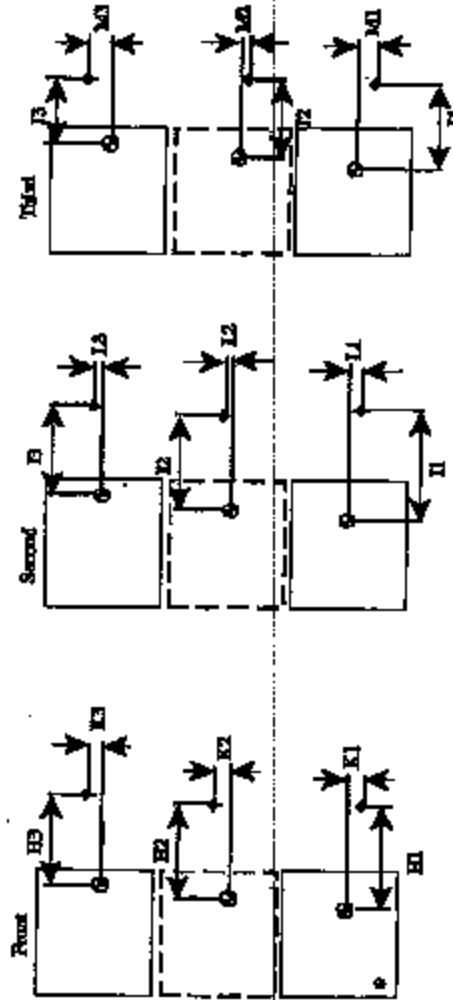
CY200/RYB/221

→ MGA TRUCK

0115/043

**TETHER ANCHORAGE LOCATIONS
 FOR FMVSS 225**
 (All dimensions in mm)

Model Year: 2004 ; Make: TOYOTA ; Model: CAMRY ; Body Style: 4Door Sedan
 Seat Style: Front row: Second ; Second row: 1st Split Bench ; Third row: N/A



⊙: SeHP

⬆: Tether anchorage

Note 1. The location shall be measured at the center of anchorage.

03/17/2004 10:55 FAX 202 335 3001

OVSC/HVB/221

+ RGA TRDY

0314/04E

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Table 3. Seating Reference Point and Tether Anchorage Locations

Seating Reference Point (SgRP)	Distance from SgRP	
Front Row	H1	N/A
	K1	N/A
	H2	N/A
	K2	N/A
	H3	N/A
	K3	N/A
Second Row	I1	595.7
	L1	0
	I2	625.7
	L2	0
	I3	595.7
	L3	0
Third Row	J1	N/A
	M1	N/A
	J2	N/A
	M2	N/A
	J3	N/A
	M3	N/A

Note: 1. Use the center of anchorage.

08/17/2004 15:57 FAX 202 858 8061

IVWQ/WVS/221

+ NSA TRUY

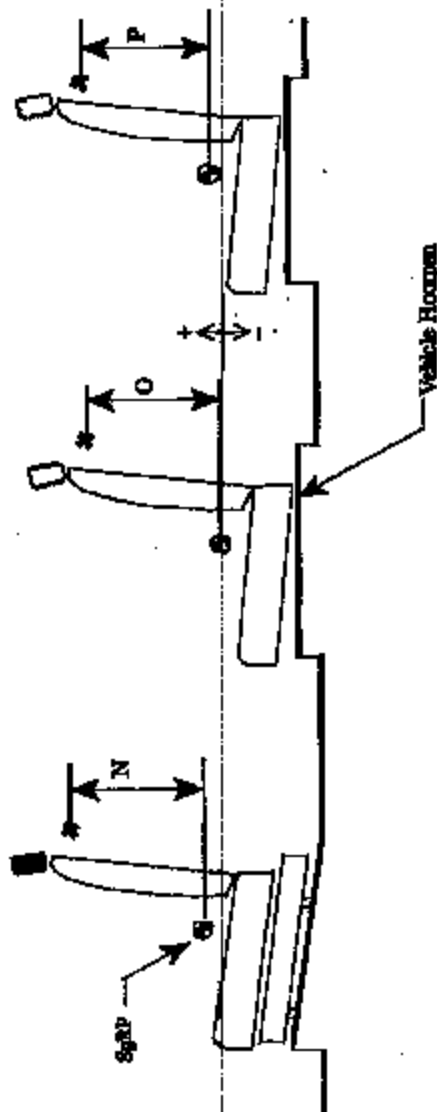
0018/042

SEAT ANCHORAGE LOCATIONS - VERTICAL

FOR FMVSS 225

(All dimensions in mm)

Model Year: 2004; Make: TOYOTA; Model: CAMRY; Body Style: 4-Door Sedan
Seat Style: Front row: Separate; Second row: 6/4 Split Bench; Third row: N/A



LEFT SIDE VIEW OF TEST VEHICLE

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04/17/2004 15:57 FAX 202 338 8031

UTBC/NV8/223

→ N/A TIGHT

0018/042

Table 4. Vertical Dimension For The Tether Anchorage

Seating Row	Vertical Distance from Seating Reference Point
Front Row	N1 (Driver) N/A
	N2 (Center) N/A
	N3 (Right) N/A
Second Row	D1 (Left) 479.6
	O2 (Center) 454.6
	O3 (Right) 479.6
Third Row	P1 (Left) N/A
	P2 (Center) N/A
	P3 (Right) N/A

Note: 1. All dimensions are in mm. If not, provide the unit anchorage.

ON/17/2004 11:44 FAX 202 336 3081

CV80/HVB/281

- MGA TRDY

0817/043

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Test Procedures Used for Compliance Tests

Lower Anchorage

For each seating location in each row record applicable FMVSS Section		FMVSS 225 Section(s)			
Block 1	Lower anchorage dimension certification method used (Enter applicable section used in Block 1 of each position by circling A or B) A) 9.1.1 or B) 15.1.1				
Block 2	Lower anchorage location (Enter applicable section used in Block 2 by circling A or B) A) 9.2.1 or B) 15.2.2 (also provide roll and yaw angles) roll <u>0°</u> yaw <u>0°</u>				
Block 3	Lower anchorage marking (Enter applicable section used in Block 3 by circling A or B) A) 9.3 or B) 15.3				
Block 4	Strength requirements (Enter applicable section used in Block 4 by circling A or B) A) Section 9 or B) Section 15				
Driver	N/A				
Front	Center (if any)	Block 1 A B	Block 2 A B Pitch ° Roll ° Yaw °	Block 3 A B	Block 4 A B
	Right (if any)	Block 1 A B	Block 2 A B Pitch ° Roll ° Yaw °	Block 3 A B	Block 4 A B
Second	Left	Block 1 A B	Block 2 A B Pitch 10° Roll 0° Yaw 0°	Block 3 A B	Block 4 A B
	Center	Block 1 A B	Block 2 A B Pitch ° Roll ° Yaw °	Block 3 A B	Block 4 A B
	Right (if any)	Block 1 A B	Block 2 A B Pitch 11° Roll 0° Yaw 0°	Block 3 A B	Block 4 A B
Third	Left	Block 1 A B	Block 2 A B Pitch ° Roll ° Yaw °	Block 3 A B	Block 4 A B
	Center	Block 1 A B	Block 2 A B Pitch ° Roll ° Yaw °	Block 3 A B	Block 4 A B
	Right	Block 1 A B	Block 2 A B Pitch ° Roll ° Yaw °	Block 3 A B	Block 4 A B
Fourth	Left	Block 1 A B	Block 2 A B Pitch ° Roll ° Yaw °	Block 3 A B	Block 4 A B
	Center	Block 1 A B	Block 2 A B Pitch ° Roll ° Yaw °	Block 3 A B	Block 4 A B
	Right	Block 1 A B	Block 2 A B Pitch ° Roll ° Yaw °	Block 3 A B	Block 4 A B

05/17/2004 15:04 FAX 202 234 5221

QYHQ/NYS/221

- MGA TEST

0019/062

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Test Procedures Used for Compliance Tests

Tether Anchorage

For each seating location in each row record applicable FMVSS Section		FMVSS Section(s) - Req.		
Block 1		Tether anchorage location/certification method used (Enter applicable section used in block 1 by circling A, B, C, D, E or F) (A) 6.2.1 (B) 6.2.1.1 (C) 6.2.1.2 (D) 6.2.2 (E) 6.2.2.1 (F) 6.2.2.2		
Block 2		Number of tether anchorages based upon the applicable section (Enter applicable section used in block 2 by circling A or B) A) 4.4 (B) 4.5		
Block 3		Tether anchorage strength requirement (Enter applicable section used in block 3 by circling A, B, or C) (A) 6.3.1 (B) 6.3.2 (C) 6.3.4		
Front	Driver	N/A		
	Center (if any)	Block 1 A B C D E F	Block 2 A B	Block 3 A B C
	Right (if any)	Block 1 A B C D E F	Block 2 A B	Block 3 A B C
Second	Left	Block 1 (A) B C D E F	Block 2 A (B)	Block 3 (A) B C
	Center	Block 1 (A) B C D E F	Block 2 A (B)	Block 3 (A) B C
	Right	Block 1 (A) B C D E F	Block 2 A (B)	Block 3 (A) B C
Third	Left	Block 1 A B C D E F	Block 2 A B	Block 3 A B C
	Center	Block 1 A B C D E F	Block 2 A B	Block 3 A B C
	Right	Block 1 A B C D E F	Block 2 A B	Block 3 A B C
Fourth	Left	Block 1 A B C D E F	Block 2 A B	Block 3 A B C
	Center	Block 1 A B C D E F	Block 2 A B	Block 3 A B C
	Right	Block 1 A B C D E F	Block 2 A B	Block 3 A B C