

REPORT NUMBER 225-GTL-04-004

**SAFETY COMPLIANCE TESTING FOR
FMVSS NO. 225
CHILD RESTRAINT ANCHORAGE SYSTEMS
LOWER AND TETHER ANCHORAGES**

**FORD MOTOR CO. IN U.S.A.
2004 LINCOLN LS, PASSENGER CAR
NHTSA NO. C40204**

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



JULY 23, 2004

FINAL REPORT

PREPARED FOR

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

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7/2004

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Appendix A – Owner's Manual Child Restraint Information

Appendix B – Manufacturer's Data

SECTION 1

PURPOSE OF COMPLIANCE TEST

1.0 PURPOSE OF COMPLIANCE TEST

A 2004 Lincoln LS Passenger Car was subjected to Federal Motor Vehicle Safety Standard (FMVSS) No. 225 testing to determine if the vehicle was in compliance with the requirements of the standard. The purpose of this standard is to establish requirements for child restraint anchorage systems to ensure their proper location and strength for the effective securing of child restraints, to reduce the likelihood of the anchorage systems' failure and to increase the likelihood that child restraints are properly secured and thus more fully achieve their potential effectiveness in motor vehicles.

1.1 The test vehicle was a 2004 Lincoln LS Passenger Car. Nomenclature applicable to the test vehicle are:

A. Vehicle Identification Number: 1LNHM86S34Y630130

B. NHTSA No.: C40204

C. Manufacturer: FORD MOTOR CO. IN U.S.A.

D. Manufacture Date: 11/03

1.2 TEST DATE

The test vehicle was subjected to FMVSS No. 225 testing on June 22, 2004.

SECTION 2

COMPLIANCE TEST RESULTS SUMMARY

2.0 TEST RESULTS

All tests were conducted in accordance with NHTSA, Office of Vehicle Safety Compliance (OVSC) Laboratory Procedures, TP-225T dated 3 May 2001 and TP-225L dated 11, June, 2001.

Based on the test performed, the 2004 Lincoln LS Passenger Car appeared to meet the requirements of FMVSS 225 testing. Strength and displacement summary data are provided below.

Table 1. Summary Data for Strength and Displacement

GTL Test #	Fixture Type	Seating Position	Max. Load (N)	Displacement (mm)
5228	Lower Anchorage	2 nd Row Left	7935	56.4
5229	Tether Anchorage No SFAD	2 nd Row Center	5258	7.4
5230	SFAD II Tether Strap	2 nd Row Right	8968	25.2

Table 2. General Test and Vehicle Parameter Data

VEH. MOD YR/MAKE/MODEL BODY	2004 Lincoln LS
VEH. NHTSA NO.	C40204
VIN	1LNHM86S34Y630130
VEH. BUILD DATE	11/03
TEST DATE	06/22/04
TEST LABORATORY	GTL
OBSERVERS	Grant Farrand, Jimmy Latane

GENERAL INFORMATION:

Date Received: 12/17/03 Odometer Reading: 130.9

DATA FROM VEHICLE'S CERTIFICATION LABEL:

Vehicle Manufactured by: Ford Motor Co.

Date of Manufacture: 11/03 VIN: 1LNHM86S34Y630130

GVWR: 2195 kg GAWR FRONT: 1181 kg
GAWR REAR: 1181 kg

SECTION 3

COMPLIANCE TEST DATA

3.0 TEST RESULTS

The following data sheets document the results of testing on the 2004 Lincoln LS Passenger Car.

DATA SHEET 1
CHILD RESTRAINT TETHER ANCHORAGE CONFIGURATION

VEH. MOD YR/MAKE/MODEL/BODY: 2004 LINCOLN LS PASSENGER CAR

VEH. NHTSA NO: C40204; VIN: 1LNHM86S34Y630130

VEH. BUILD DATE: 11/03; TEST DATE: JUNE 22, 2004

TEST LABORATORY: GENERAL TESTING LABORATORIES

OBSERVERS: GRANT FARRAND, JIMMY LATANE

Number of DSP's In Test Vehicle As Stated on Tire Label using Figures for Maximum Vehicle Loading:

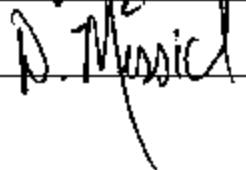
Front Seat=	<u>2</u>
Rear Seat=	<u>3</u>
Third Seat=	<u>0</u>
Total=	<u>5</u>

SEATING POSITION		OBSERVED CONFIGURATION			
		Permit the attachment of a tether hook	Accessible without the need for any tool other than a screwdriver of coin	Ready for use without the need for any tools	Sealed to prevent the entry of exhaust fumes
Front	Left	N/A	N/A	N/A	N/A
	Center	N/A	N/A	N/A	N/A
	Right	NO	N/A	N/A	N/A
Second	Left	YES	YES	YES	YES
	Center	YES	YES	YES	YES
	Right	YES	YES	YES	YES
Third	Left	N/A	N/A	N/A	N/A
	Center	N/A	N/A	N/A	N/A
	Right	N/A	N/A	N/A	N/A

REMARKS:

RECORDED BY: 

DATE: 06/22/04

APPROVED BY: 

DATA SHEET 2
CHILD RESTRAINT LOWER ANCHORAGES CONFIGURATION

VEH. MOD YR/MAKE/MODEL/BODY: 2004 LINCOLN LS PASSENGER CAR

VEH. NHTSA NO: C40204; VIN: 1LNHM86S34Y630130

VEH. BUILD DATE: 11/03; TEST DATE: JUNE 22, 2004

TEST LABORATORY: GENERAL TESTING LABORATORIES

OBSERVERS: GRANT FARRAND, JIMMY LATANE

OBSERVED LOWER ANCHORAGE CONFIGURATION	SEAT POSITION				
	FRONT	REAR		THIRD	
		LEFT	RIGHT	LEFT	RIGHT
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 75 mm above the bar, and in the vertical longitudinal plane that passes through the center of the bar.	Left	N/A	YES	YES	N/A
	Center	N/A	N/A		N/A
	Right	N/A	YES	YES	N/A
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.	Left	N/A	NO	NO	N/A
	Center	N/A	N/A		N/A
	Right	N/A	NO	NO	N/A
Diameter of the bar (mm)	Left	N/A	6.04	6.04	N/A
	Center	N/A	N/A		N/A
	Right	N/A	6.04	6.04	N/A
Inspect if the bars are straight, horizontal and transverse	Left	N/A	YES	YES	N/A
	Center	N/A	N/A		N/A
	Right	N/A	YES	YES	N/A

DATA SHEET 2 CONTINUED
CHILD RESTRAINT LOWER ANCHORAGES CONFIGURATION

VEH. MOD YR/MAKE/MODEL/BODY: 2004 LINCOLN LS PASSENGER CAR

VEH. NHTSA NO: C40204; VIN: 1LNHM86S34Y630130

VEH. BUILD DATE: 11/03; TEST DATE: JUNE 22, 2004

TEST LABORATORY: GENERAL TESTING LABORATORIES

OBSERVERS: GRANT FARRAND, JIMMY LATANE

OBSERVED LOWER ANCHORAGE CONFIGURATION	SEAT POSITION			
		FRONT	REAR	THIRD
Inspect if the centroidal longitudinal axes are collinear within 5 degrees.	Left	N/A*	YES	N/A
	Center	N/A	N/A	N/A
	Right	N/A	YES	N/A
Inspect 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.	Left	N/A*	YES 40 MM	N/A
	Center	N/A	N/A	N/A
	Right	N/A	YES 40 MM	N/A
Inspect if the bars can be connected to, over their entire inside length by the connectors of child restraint system.	Left	N/A*	YES	N/A
	Center	N/A	N/A	N/A
	Right	N/A	YES	N/A
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.	Left	N/A*	279	N/A
	Center	N/A	N/A	N/A
	Right	N/A	279	N/A
Inspect if the bars are an integral and permanent part of the vehicle.	Left	N/A*	YES	N/A
	Center	N/A	N/A	N/A
	Right	N/A	YES	N/A
Inspect if the bars are rigidly attached to the vehicle. If feasible, hold the bar firmly with two fingers and gently pull.	Left	N/A*	YES	N/A
	Center	N/A	N/A	N/A
	Right	N/A	YES	N/A

* DRIVER'S SEAT

RECORDED BY: [Signature]

APPROVED BY: [Signature]

DATE: 06/22/04

DATA SHEET 2 CONTINUED
CHILD RESTRAINT LOWER ANCHORAGES CONFIGURATION

VEH. MOD YR/MAKE/MODEL/BODY: 2004 LINCOLN LS PASSENGER CAR

VEH. NHTSA NO: C40204; VIN: 1LNHM86S34Y630130

VEH. BUILD DATE: 11/03; TEST DATE: JUNE 22, 2004

TEST LABORATORY: GENERAL TESTING LABORATORIES

OBSERVERS: GRANT FARRAND, JIMMY LATANE

OBSERVED LOWER ANCHORAGE CONFIGURATION	SEAT POSITION			
		FRONT	REAR	THIRD
Optional Marking: At least one anchorage bar (when deployed for use, if storable anchorages), one guidance fixture, or one seat marking is visible	Left	N/A*	N/A	N/A
	Center	N/A	N/A	N/A
	Right	N/A	N/A	N/A
Optional Marking: If guidance fixtures are used, the fixture(s) must be installed.	Left	N/A*	N/A	N/A
	Center	N/A	N/A	N/A
	Right	N/A	N/A	N/A

* DRIVER'S SEAT

RECORDED BY: *G. Farrand*

DATE: 06/22/04

APPROVED BY: *D. Munn*

DATA SHEET 3
LOCATION AND DIMENSIONAL MEASUREMENTS

VEH. MOD YR/MAKE/MODEL/BODY: 2004 LINCOLN LS PASSENGER CAR

VEH. NHTSA NO: C40204 VIN: 1LNHM86S34Y630130

VEH. BUILD DATE: 11/03 TEST DATE: JUNE 22, 2004

TEST LABORATORY: GENERAL TESTING LABORATORIES

OBSERVERS: GRANT FARRAND, JIMMY LATANE

Number of DSP's in Test Vehicle As Stated on Tire Label using Figures for Maximum Vehicle Loading:

Front Seat=	<u>2</u>
Rear Seat=	<u>3</u>
Thrd Seat=	<u>0</u>
Total=	<u>5</u>

SEAT POSITION FOR TETHER		LOCATION OF DSPs	TETHER ANCHORAGE LOCATION	
		TETHER OBSERVED	REQUIRED	MEASURED Is it in the required zone?
FRONT	Left	NO	NO	N/A
	Center	NO	NO	N/A
	Right	NO	NO	N/A
SECOND	Left	YES	YES	YES
	Center	YES	YES	YES
	Right	YES	YES	YES
THIRD	Left	N/A	N/A	N/A
	Center	N/A	N/A	N/A
	Right	N/A	N/A	N/A

RECORDED BY: *[Signature]*

DATE: 06/22/04

APPROVED BY: *[Signature]*

DATA SHEET 3 CONTINUED
LOCATION AND DIMENSIONAL MEASUREMENTS

VEH. MOD YR/MAKE/MODEL/BODY: 2004 LINCOLN LS PASSENGER CAR

VEH. NHTSA NO: C40204; VIN: 1LNHM86S34Y630130

VEH. BUILD DATE: 11/03; TEST DATE: JUNE 22, 2004

TEST LABORATORY: GENERAL TESTING LABORATORIES

OBSERVERS: GRANT FARRAND, JIMMY LATANE

Number of DSP's in Test Vehicle As Stated on Tire Label using Figures for Maximum Vehicle Loading: Front Seat= 2 Rear Seat 3 Third Seat= 0 Total= 5

SEAT POSITION FOR LOWER ANCHORAGE		PRESENCE OF ANCHORAGES				COMMENTS		
		REQUIRED		OBSERVED				
FRONT		NONE		NONE		N/A		
REAR		2		2		LEFT & RIGHT		
THIRD		NONE		NONE		N/A		
SEAT POSITIONS FOR LOWER ANCHORAGES		LOCATION OF ANCHORAGE				COMMENTS PITCH ROLL YAW		
		MEASURED FROM "Z" (mm)		MEASURED FROM "SRP" (mm)				
		Left	Right	Left	Right			
FRONT	Left	N/A		N/A		N/A		
	Center	N/A		N/A		N/A		
	Right	N/A		N/A		N/A		
REAR	Left	30	30	167	166	14°	2°	0°
	Center	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Right	30	30	165	172	14°	1°	0°
THIRD	Left	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Center	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Right	N/A	N/A	N/A	N/A	N/A	N/A	N/A

RECORDED BY: [Signature]

APPROVED BY: [Signature]

DATE: 06/22/04

DATA SHEET 4
ANCHORAGE STATIC LOADING

VEH. MOD YR/MAKE/MODEL/BODY: 2004 LINCOLN LS PASSENGER CAR
 VEH. NHTSA NO: C40204; VIN: 1LNHM86S34Y630130
 VEH. BUILD DATE: 11/03; TEST DATE: JUNE 16, 2004
 TEST LABORATORY: GENERAL TESTING LABORATORIES
 OBSERVERS: GRANT FARRAND, JIMMY LATANE
 TEST # 5229

TETHER ANCHORAGE- WITHOUT SFAD:

SEATING POSITION	Seat, Seat Back & Head Restraint positions			Belt Strap Extension	Angle	Initial location	Onset rate	Force Applied	Final location	Horizontal Displacement
	Seat	Seat Back	Head Restraint							
Front	Driver	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Center	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Right	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Second	Left	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Center	FIXED	FIXED	NO	0°	0.0	204 N/SEC	5258	7.4	7.4
	Right (if any)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Third	Left	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Center	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Right	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

REMARKS: TESTED TO S6.3.4.1

RECORDED BY: 
 APPROVED BY: 

DATE: 06/22/04

DATA SHEET 5
ANCHORAGE STATIC LOADING

VEH. MOD YR/MAKE/MODEL/BODY: 2004 LINCOLN LS PASSENGER CAR
 VEH. NHTSA NO: C40204; VIN: 1LNHM86S34Y630130
 VEH. BUILD DATE: 11/03; TEST DATE: JUNE 16, 2004
 TEST LABORATORY: GENERAL TESTING LABORATORIES
 OBSERVERS: GRANT FARRAND, JIMMY LATANE

TEST # 5230

TETHER ANCHORAGE- WITH SFAD:

SEATING POSITION	Seat, Seat Back & Head Restraint positions			Type of SFAD used	Angle	Initial location	Onset rate	Force Applied	Final location	Horizontal Displacement
	Seat	Seat Back	Head Restraint							
Front	Driver	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Center	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Right	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Second	Left	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Center	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Right (if any)	FIXED	FIXED	FIXED	0°	0.0	385 N/SEC	9868	25.2	25.2
Third	Left	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Center	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Right	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

REMARKS: TESTED TO S8.3.4

RECORDED BY: [Signature] DATE: 06/22/04

APPROVED BY: [Signature]

DATA SHEET 6
ANCHORAGE STATIC LOADING

VEH. MOD YR/MAKE/MODEL/BODY: 2004 LINCOLN LS PASSENGER CAR
 VEH. NHTSA NO: C40204; VIN: 1LNHM86S34Y630130
 VEH. BUILD DATE: 11/03; TEST DATE: JUNE 16, 2004
 TEST LABORATORY: GENERAL TESTING LABORATORIES
 OBSERVERS: GRANT FARRAND, JIMMY LATANE

TEST # 5228

LOWER ANCHORAGE- FORWARD FORCE APPLICATION:

SEATING POSITION	Seat, Seat Back & Head Restraint positions			Measured Angles		Initial location	Onset rate	Force Applied	Final location	Displacement
	Seat	Seat Back	Head Restraint	Vertical	Horizontal					
Front	Driver	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Center	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Right	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rear	Left	FIXED	FIXED	10°	0°	0.0	4000 N/SEC	7935	58.4	58.4
	Center	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Right (if any)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Third	Left	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Center	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Right	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

REMARKS:

RECORDED BY: [Signature] DATE: 06/22/04

APPROVED BY: [Signature]

SECTION 4
INSTRUMENTATION AND EQUIPMENT LIST

TABLE 1 - INSTRUMENTATION & EQUIPMENT LIST

EQUIPMENT	DESCRIPTION	MODEL/ SERIAL NO.	CAL. DATE	NEXT CAL. DATE
COMPUTER	AT&T	486DX266	BEFORE USE	BEFORE USE
LOAD CELL	INTERFACE	496	06/03	06/04
LINEAR TRANSDUCER	CELESCO	69	BEFORE USE	BEFORE USE
LINEAR TRANSDUCER	CELESCO	70	BEFORE USE	BEFORE USE
LINEAR TRANSDUCER	CELESCO	72	BEFORE USE	BEFORE USE
LEVEL	STANLEY	42-449	02/04	02/05
FORCE GAUGE	CHATILLON	8781	BEFORE USE	BEFORE USE
CALIPER	N/A	Q9322365	BEFORE USE	BEFORE USE

SECTION 5
PHOTOGRAPHS



FIGURE 5.1
% FRONTAL RIGHT SIDE VIEW OF VEHICLE

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225



FIGURE 3.2
¾ REARWARD LEFT SIDE VIEW OF VEHICLE

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

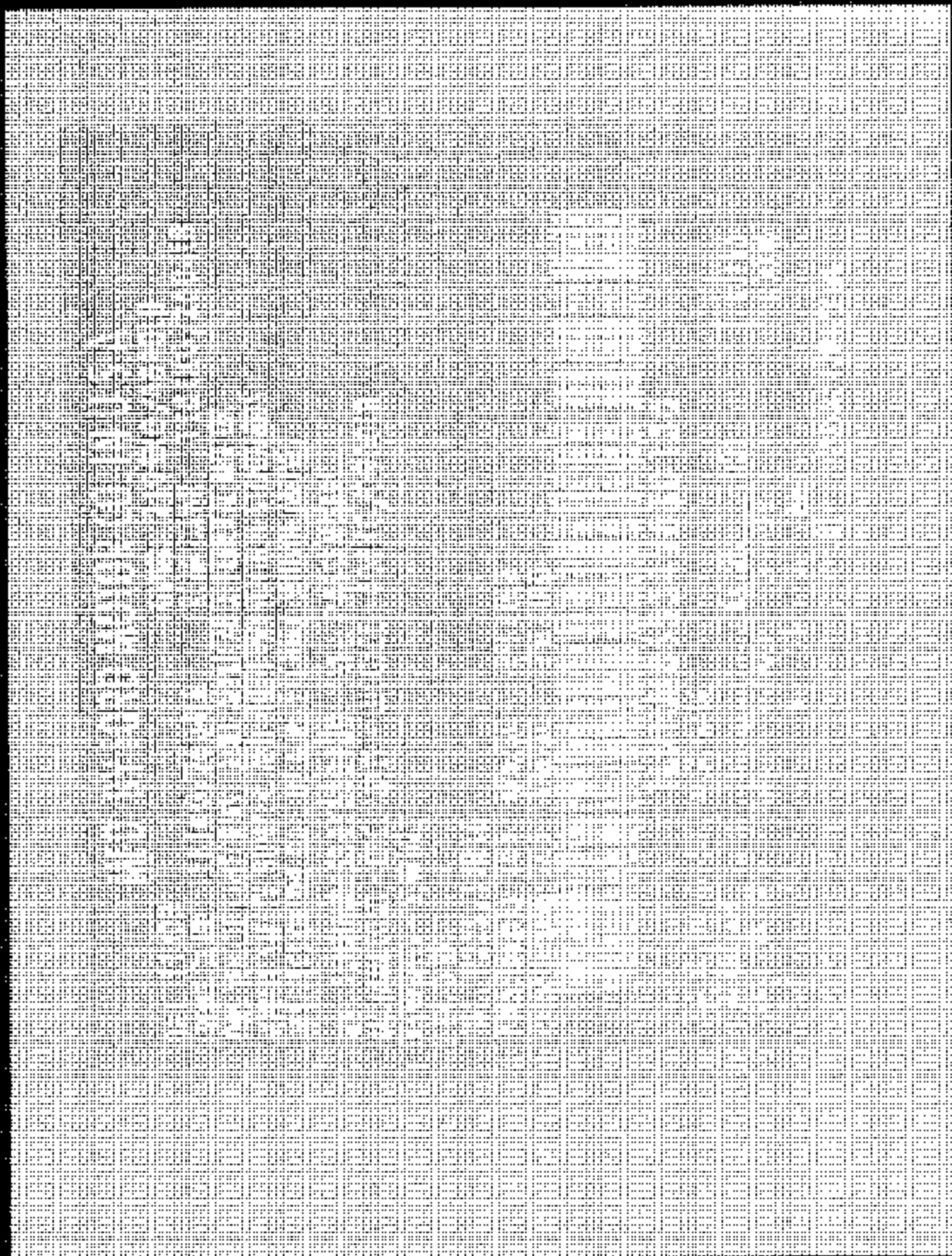


FIGURE 5.3
CLOSE-UP VIEW OF VEHICLE CERTIFICATION
AND TIRE INFORMATION LABEL

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225



FIGURE 5.4
% LEFT FRONT VIEW OF TEST VEHICLE IN
EST RIG

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225



2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 226

FIGURE 5.5
¾ RIGHT FRONT VIEW OF TEST VEHICLE IN
TEST RIG



FIGURE 5.6
RIGHT FRONT VEHICLE MOUNTING

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

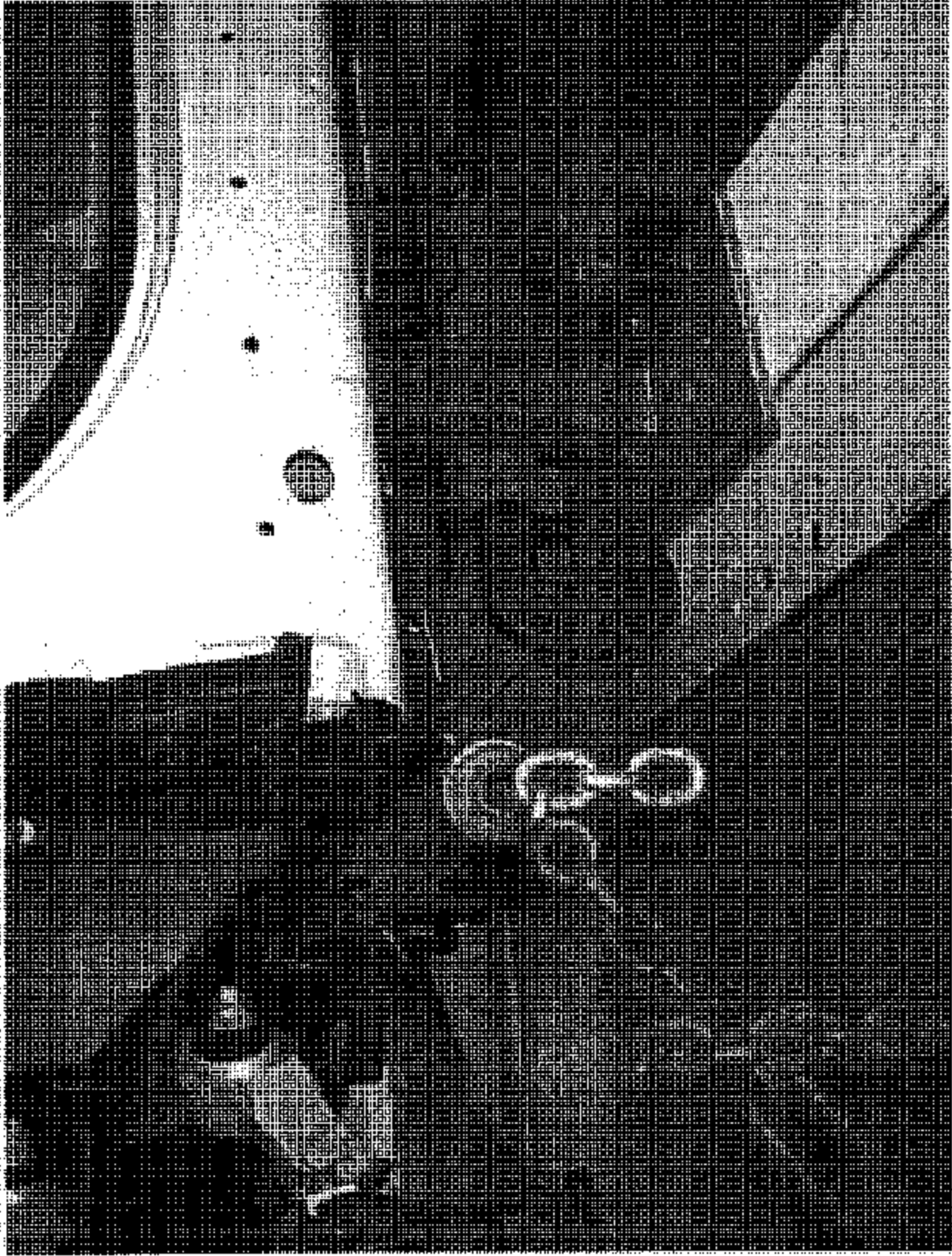


FIGURE 5.7
RIGHT REAR VEHICLE MOUNTING

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

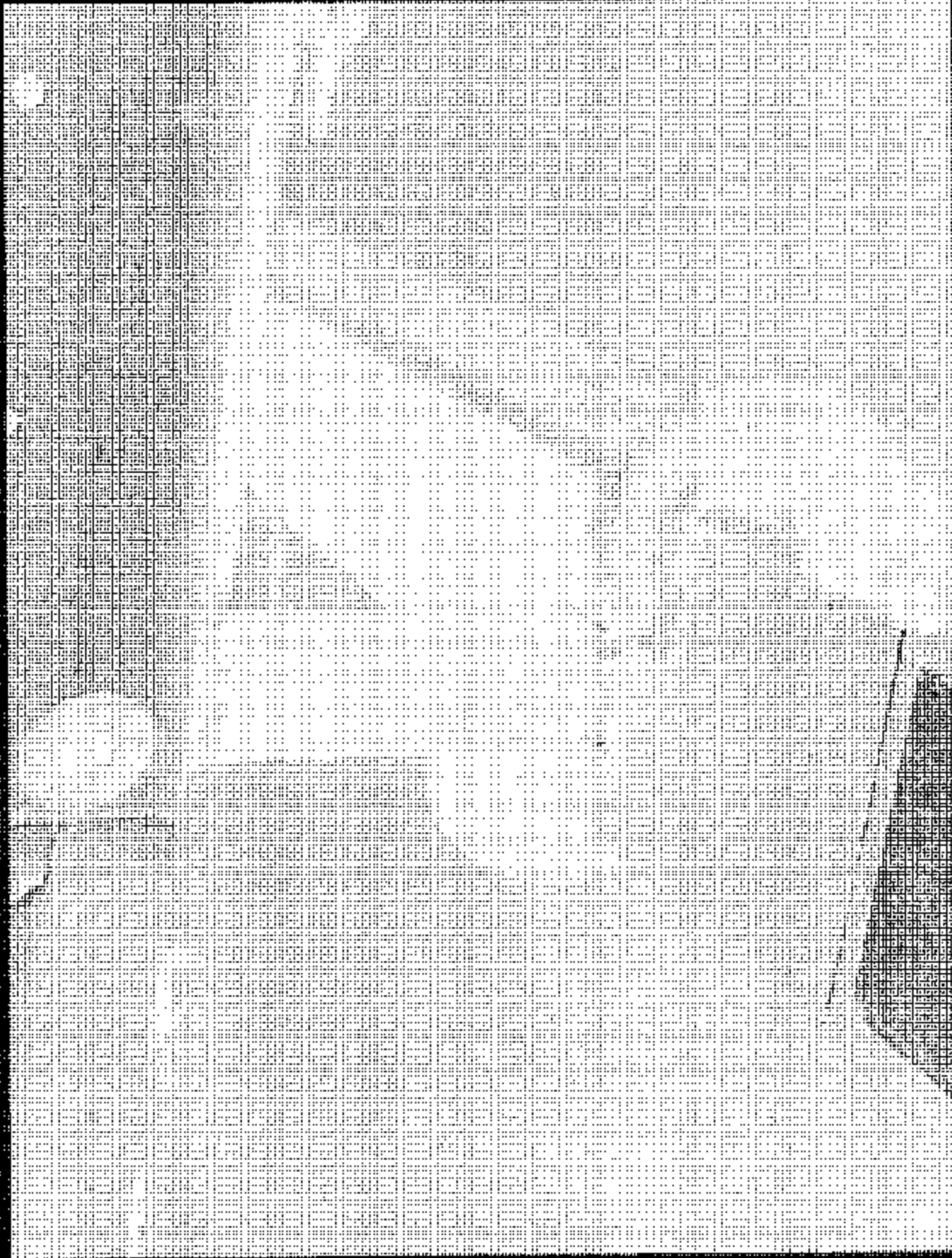


FIGURE 5.8
LEFT FRONT VEHICLE MOUNTING

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

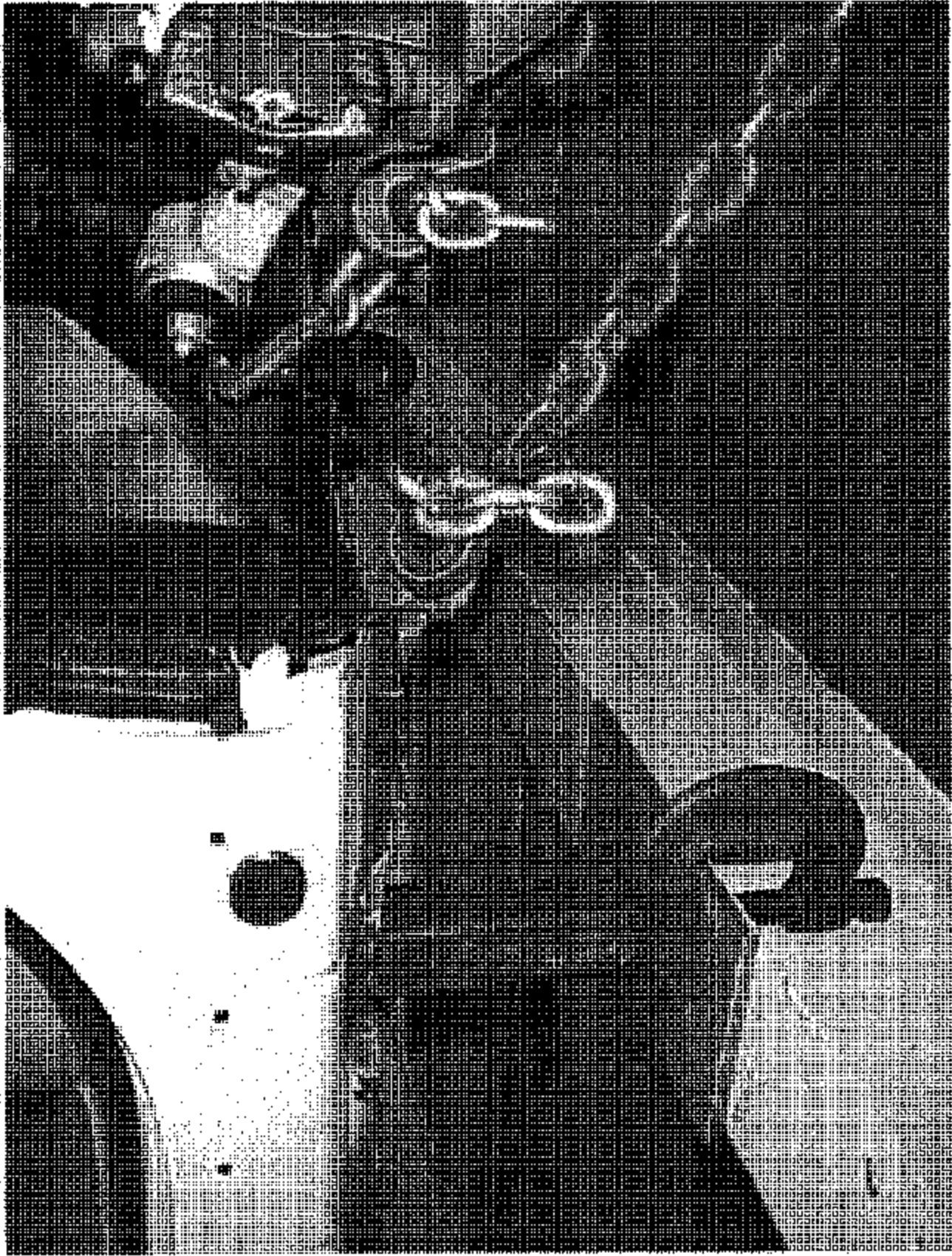


FIGURE 3.9
LEFT REAR VEHICLE MOUNTING

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

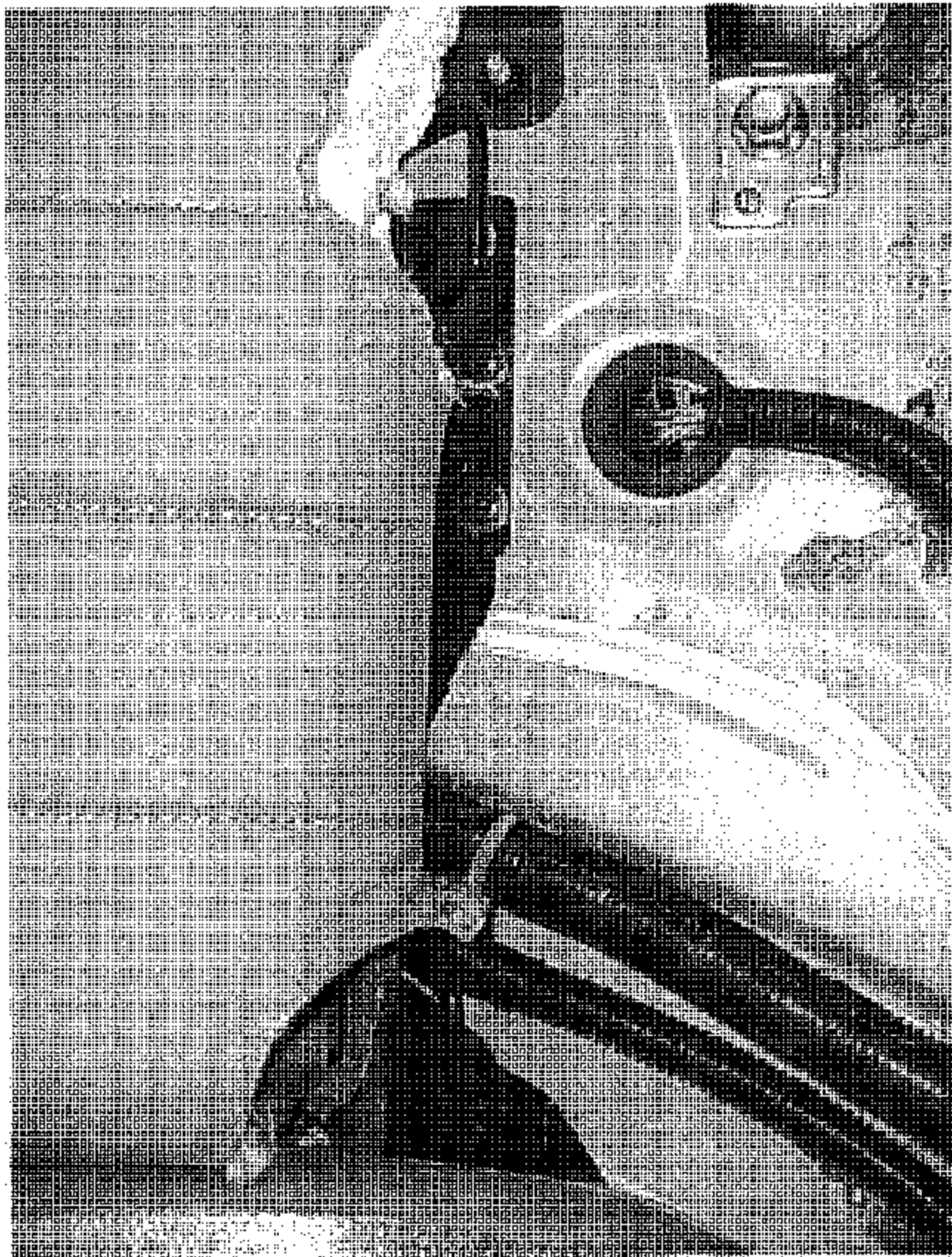


FIGURE 5.10
PRE-TEST 2ND ROW RIGHT LOWER ANCHORS
FRONT VIEW

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225



FIGURE 5.11
PRE-TEST 2ND ROW RIGHT LOWER ANCHORS
SIDE VIEW

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225



FIGURE 5.12
PRE-TEST 2ND ROW RIGHT TOP TETHER
ANCHOR

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

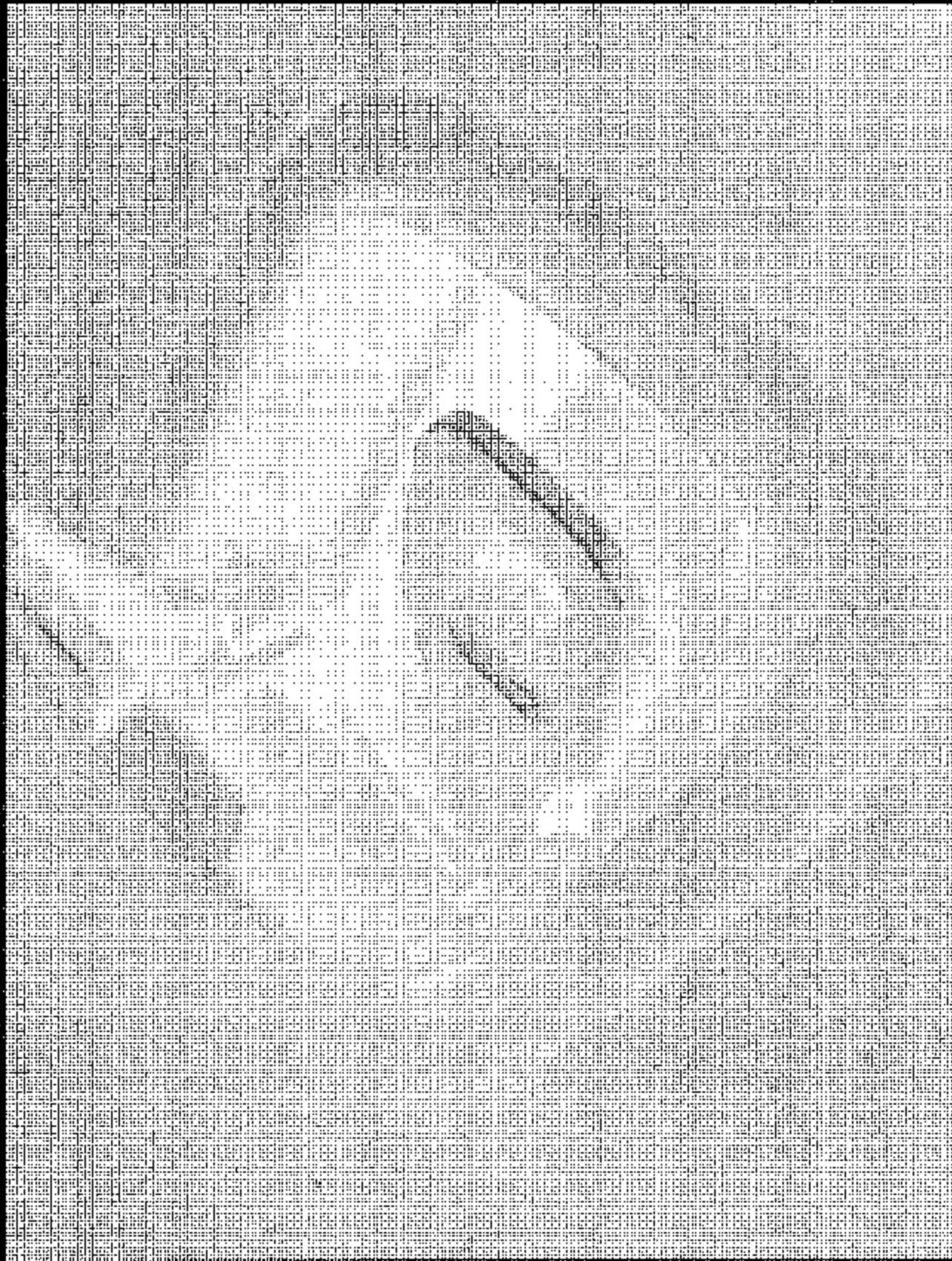


FIGURE 5.13
PRE-TEST 2ND ROW CENTER TOP TETHER
ANCHOR

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225



FIGURE 5.14
PRE-TEST 2ND ROW LEFT LOWER ANCHORS
FRONT VIEW

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225



FIGURE 5.15
PRE-TEST 2ND ROW LEFT LOWER ANCHORS
SIDE VIEW

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225



FIGURE 5.16
PRE-TEST 2ND ROW TOP TETHER ANCHOR

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

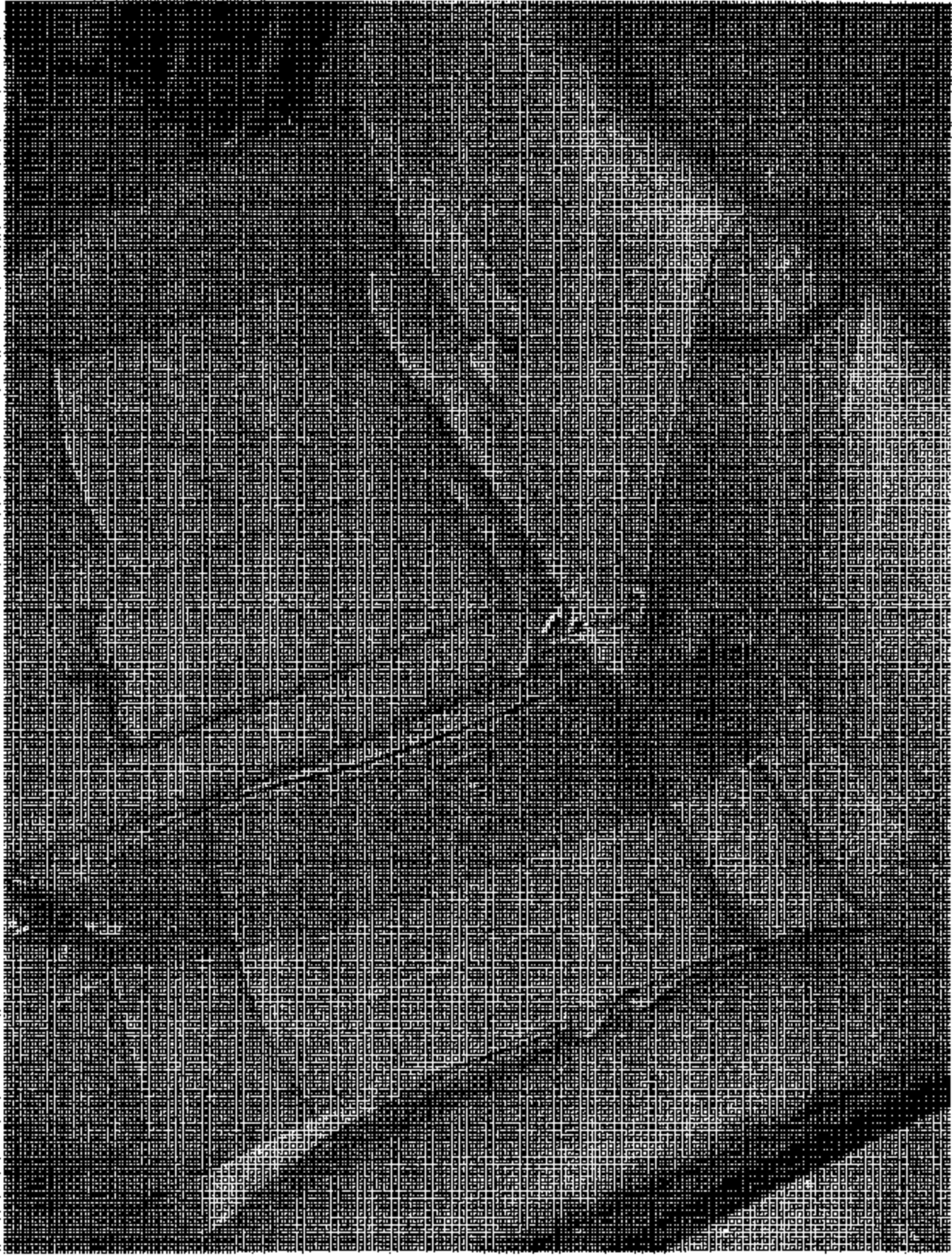


FIGURE 5.17
VIEW OF 2D TEMPLATE IN 2ND ROW RIGHT
SEAT

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

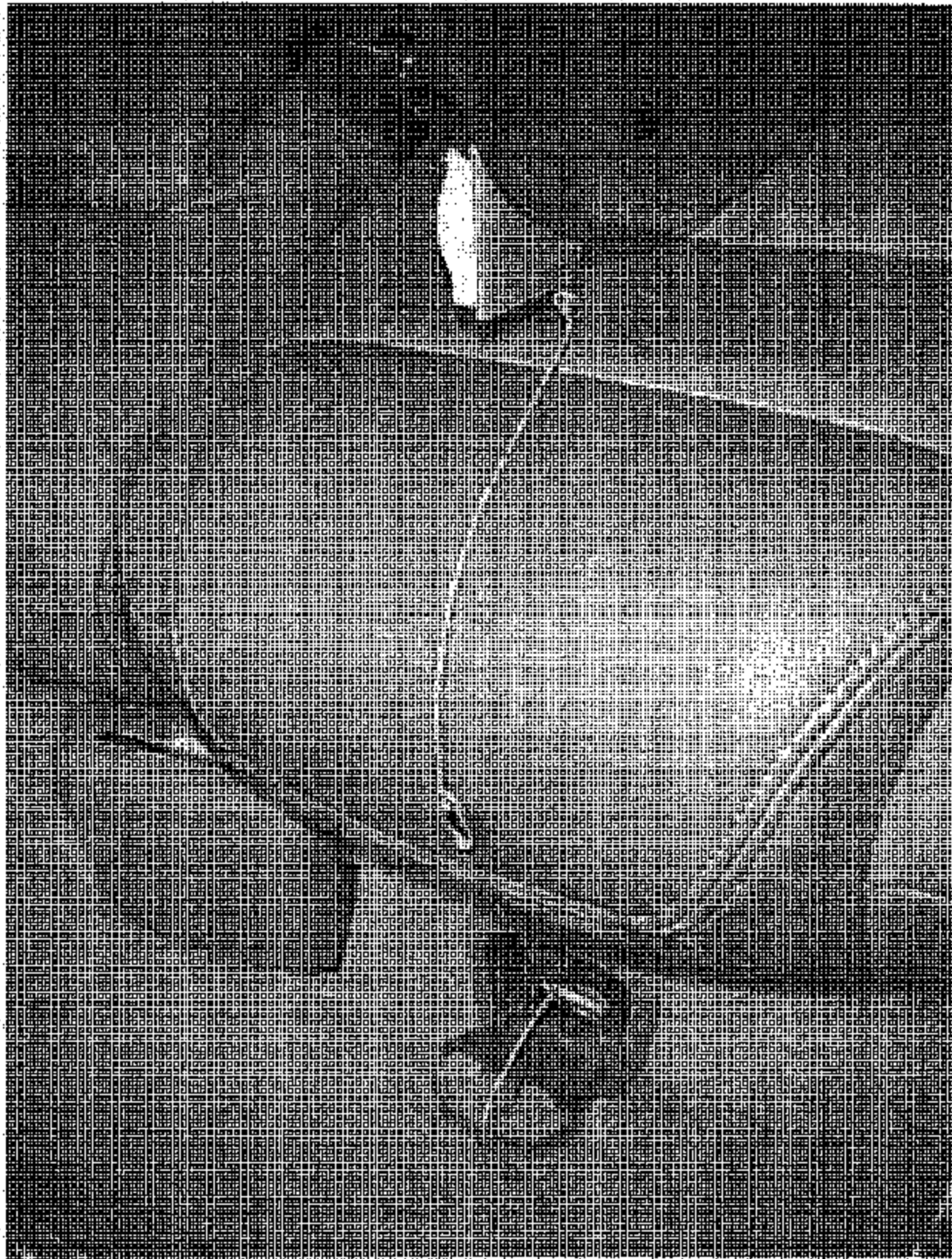


FIGURE 5.18
VIEW OF 2D TEMPLATE IN 2ND ROW RIGHT
SEAT

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

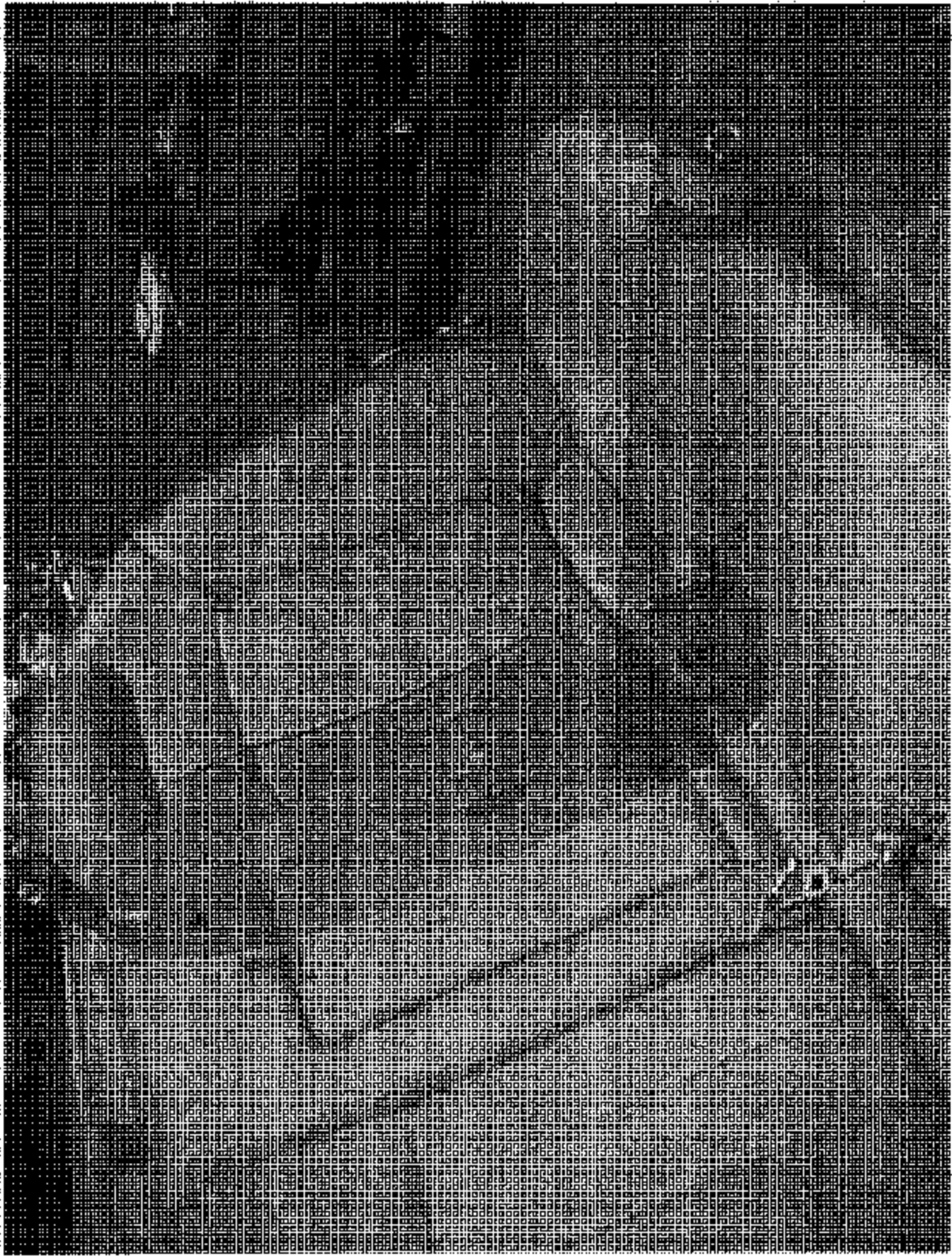


FIGURE 5.19
VIEW OF 2D TEMPLATE IN 2ND ROW CENTER
SEAT

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

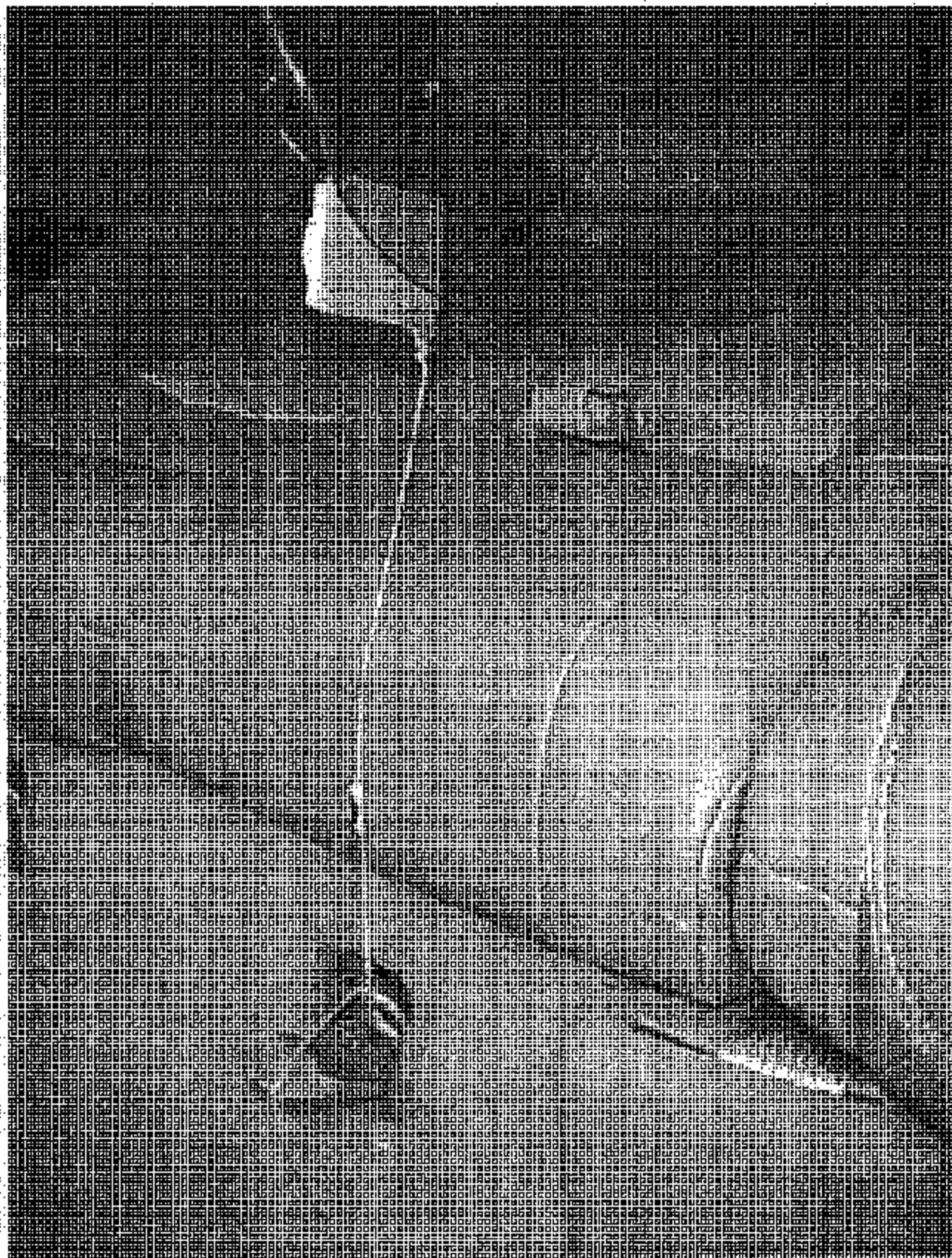


FIGURE 5.20
VIEW OF 2D TEMPLATE IN 2ND ROW CENTER
SEAT

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

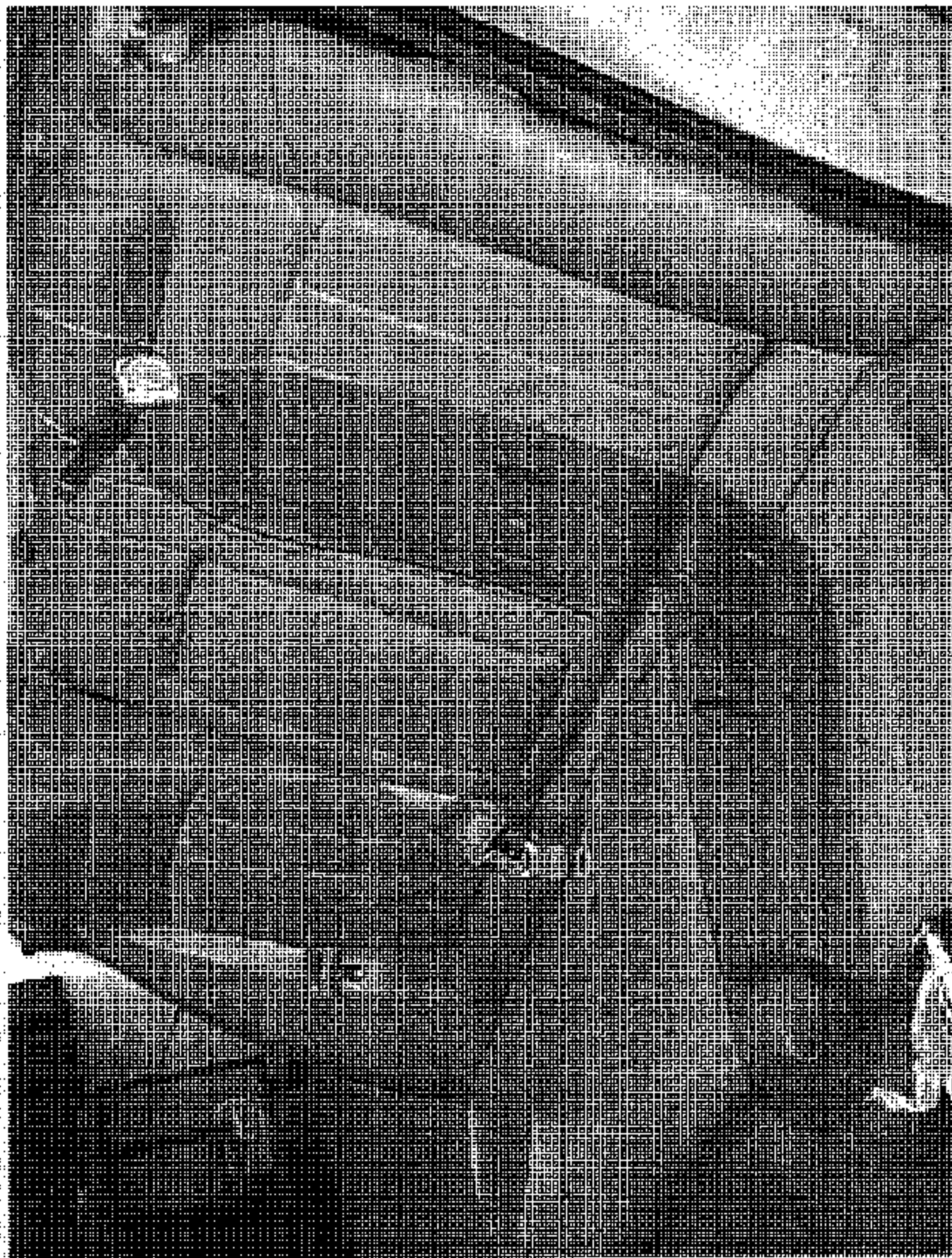


FIGURE 5.21
VIEW IN 2D TEMPLATE IN 2ND ROW LEFT SEAT

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

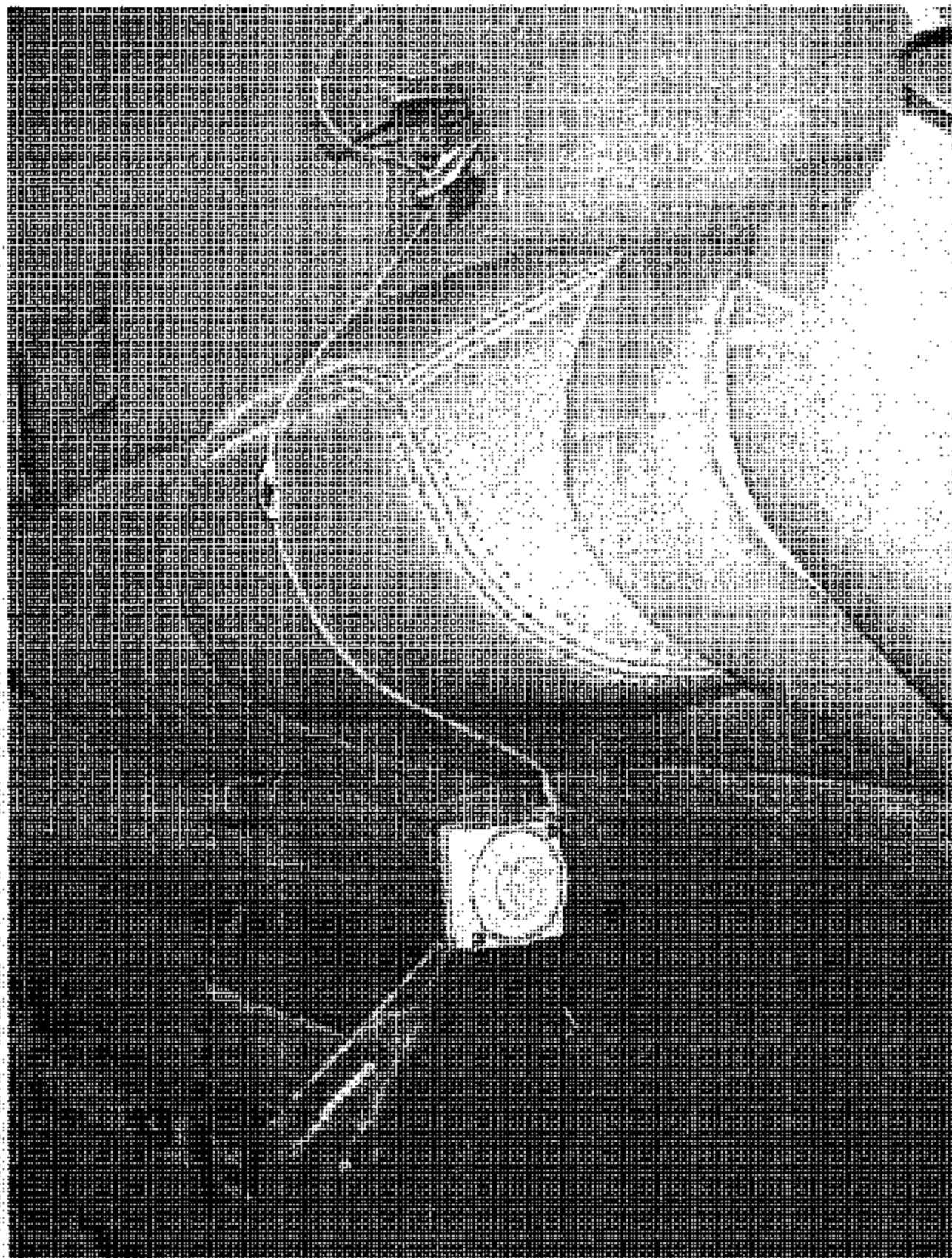


FIGURE 5.22
VIEW OF 2D TEMPLATE IN 2ND ROW LEFT SEAT

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

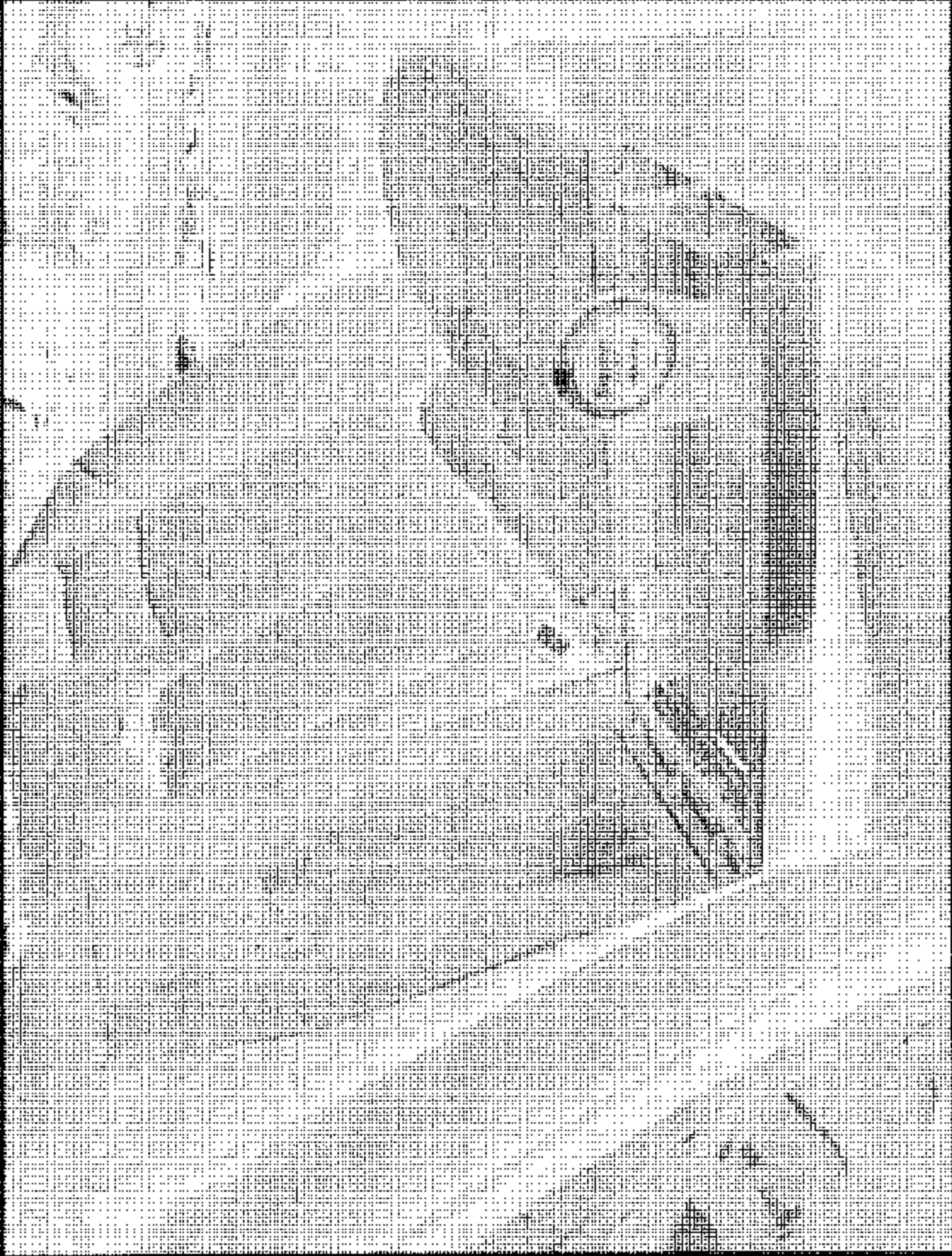


FIGURE 5.23
VIEW OF CRF IN 2ND ROW RIGHT SEAT

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

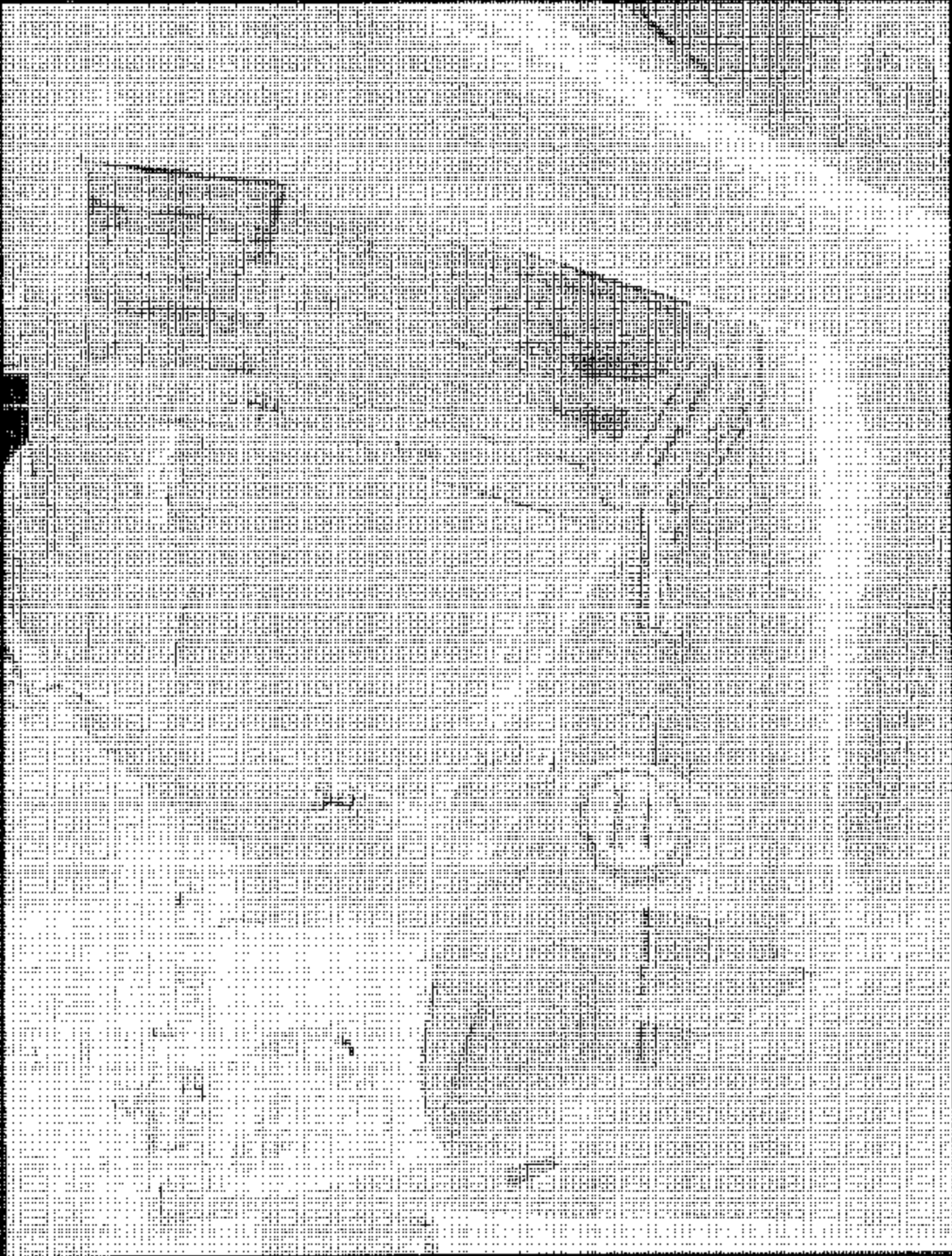
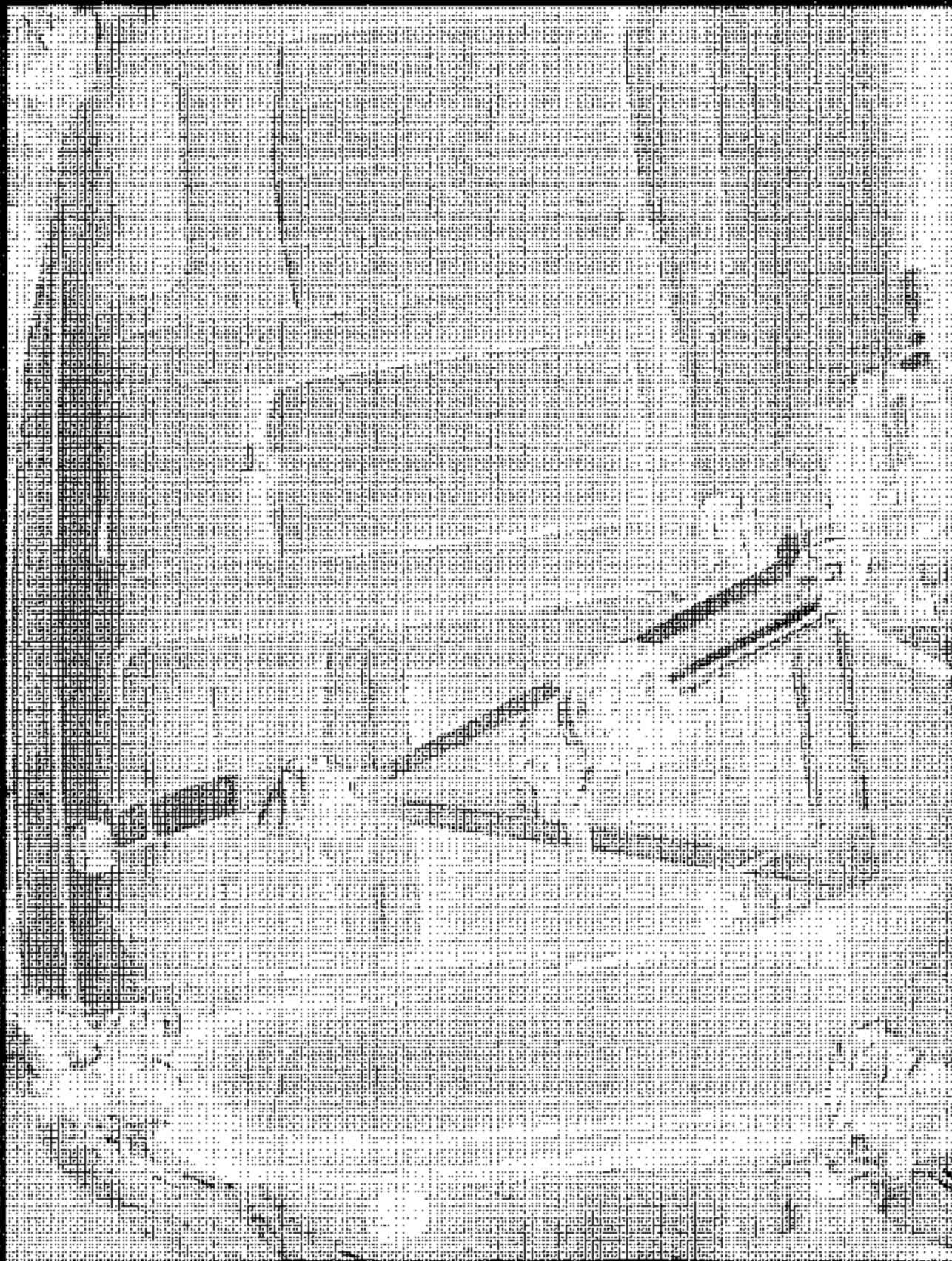


FIGURE 5.24
VIEW OF CRF IN 2ND ROW LEFT SEAT

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225



2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

FIGURE 5.25
PRE-TEST SET-UP 2ND ROW RIGHT POSITION
FRONT VIEW



2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

FIGURE 5.26
PRE-TEST SET-UP 2ND ROW RIGHT POSITION
SIDE VIEW



FIGURE 5.27
PRE-TEST SET-UP 2ND ROW RIGHT POSITION
TOP TETHER

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225



2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

FIGURE 5.28
POST TEST 2ND ROW RIGHT POSITION FRONT
VIEW



2004 LINCOLN LS
NIHTSA NO. C40204
FMVSS NO. 225

FIGURE 5.29
POST TEST 2ND ROW RIGHT POSITION SIDE
VIEW



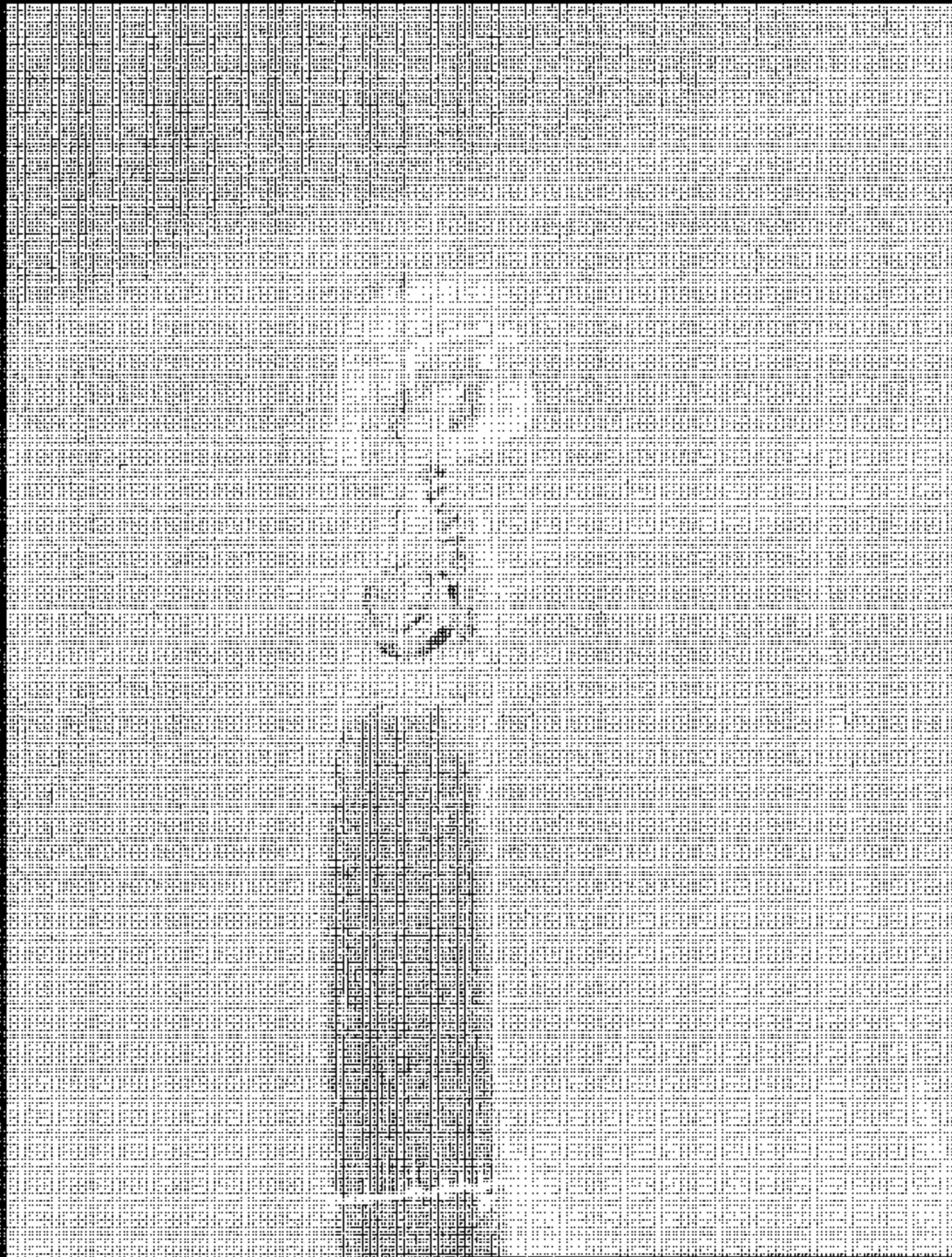
2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

FIGURE 5.30
POST TEST 2ND ROW RIGHT POSITION TOP
TETHER



2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 226

FIGURE 5.31
PRE-TEST SET-UP 2ND ROW CENTER POSITION
% VIEW



2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

FIGURE 6.32
PRE-TEST SET-UP 2ND ROW CENTER POSITION
TOP VIEW

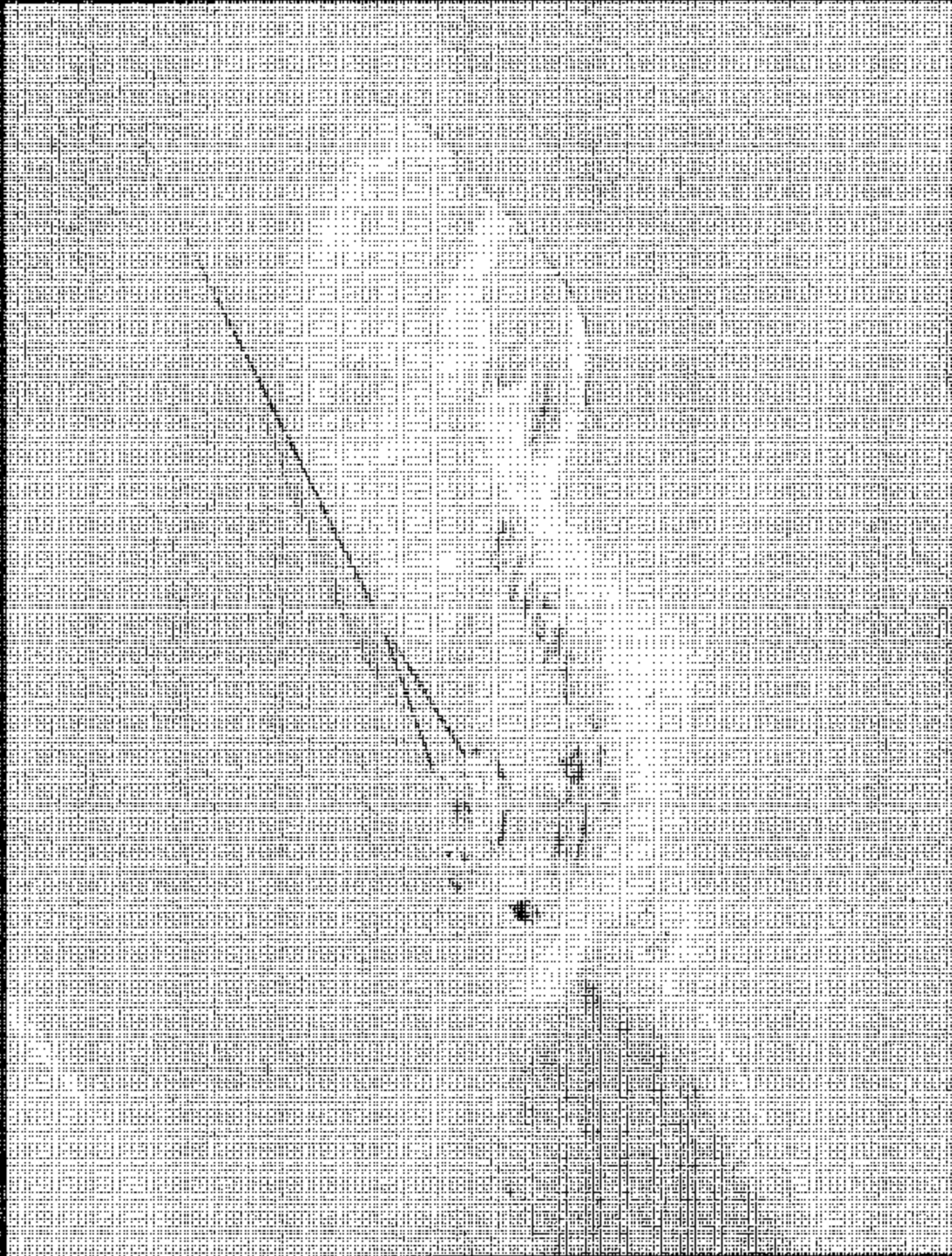


FIGURE 5.33
POST TEST 2ND ROW CENTER POSITION

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

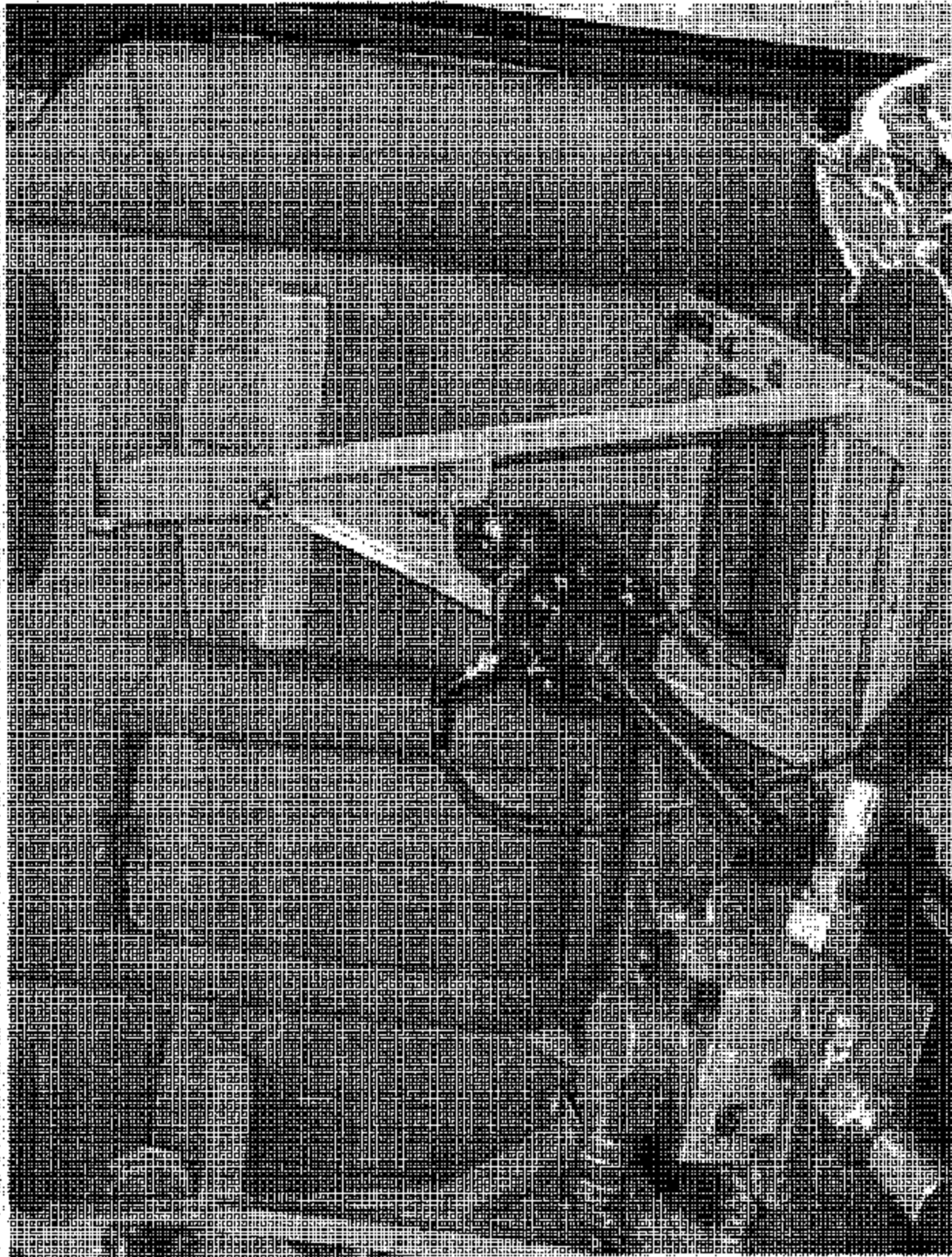


FIGURE 5.34
PRE-TEST SET-UP 2ND ROW LEFT POSITION
FRONT VIEW

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225



2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

FIGURE 5.35
PRE-TEST SET-UP 2ND ROW LEFT POSITION
SIDE VIEW

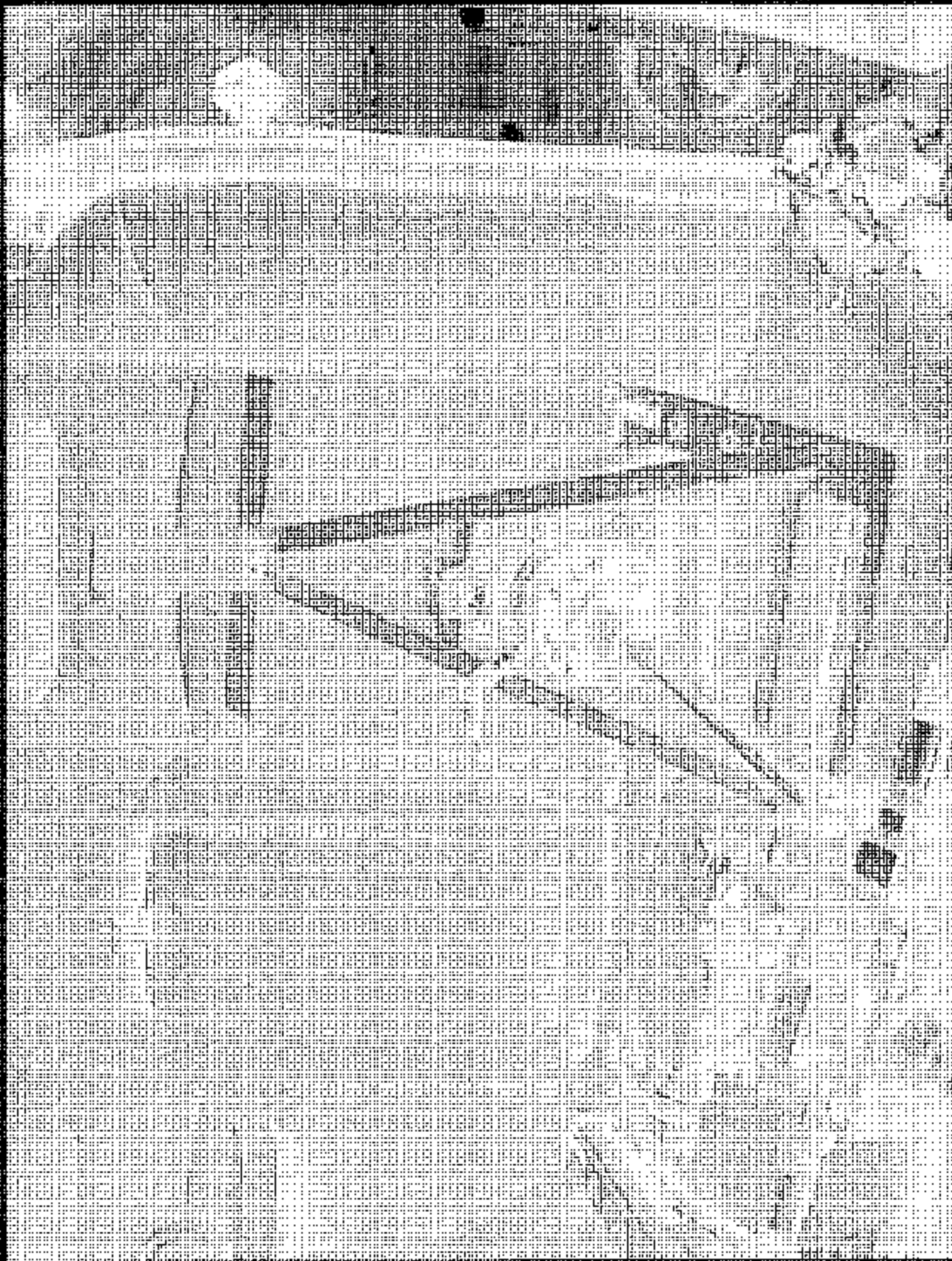


FIGURE 5.36
POST TEST 2ND ROW LEFT POSITION FRONT
VIEW

2004 LINGDIN LS
NHTSA NO. C40294
FMVSS NO. 225

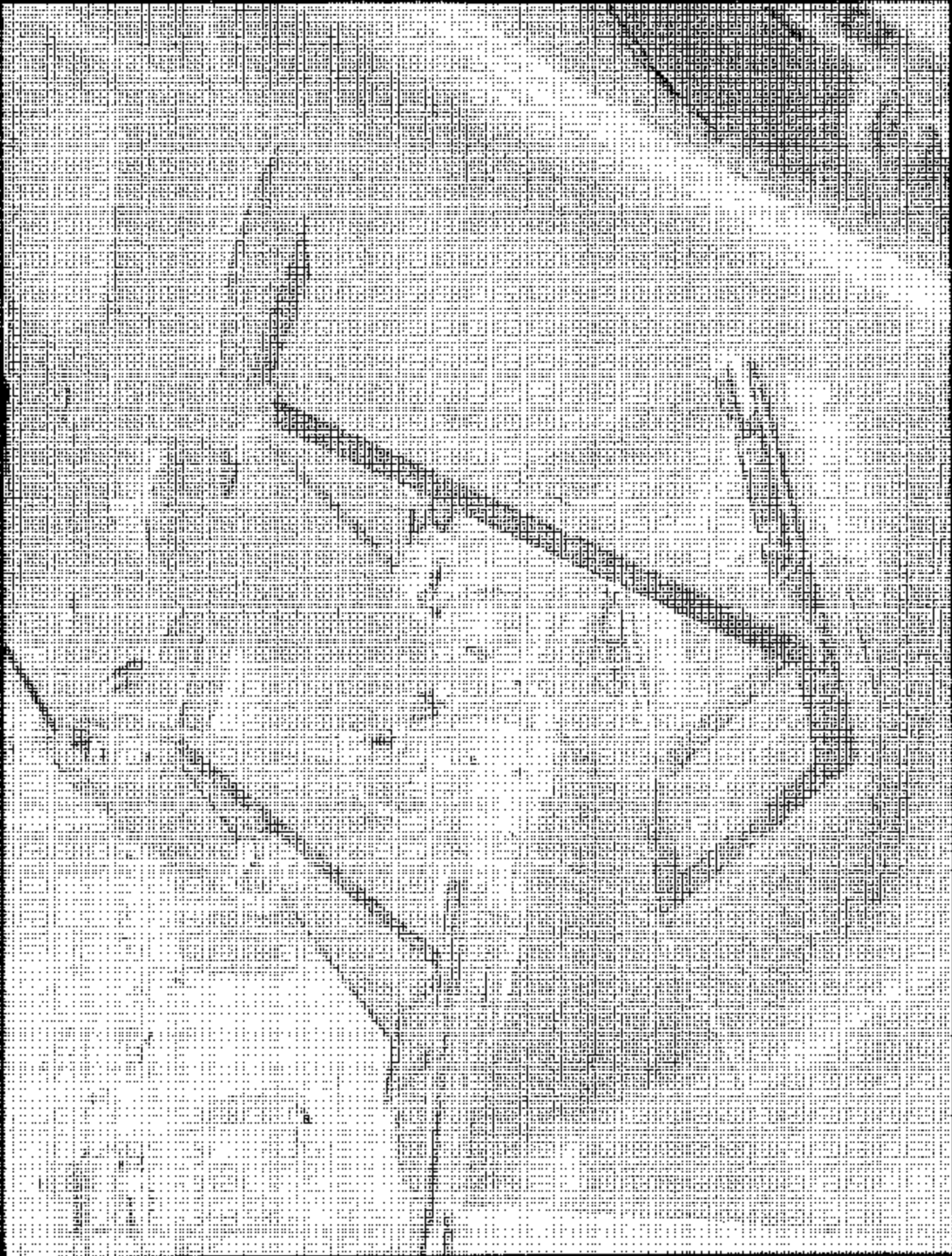
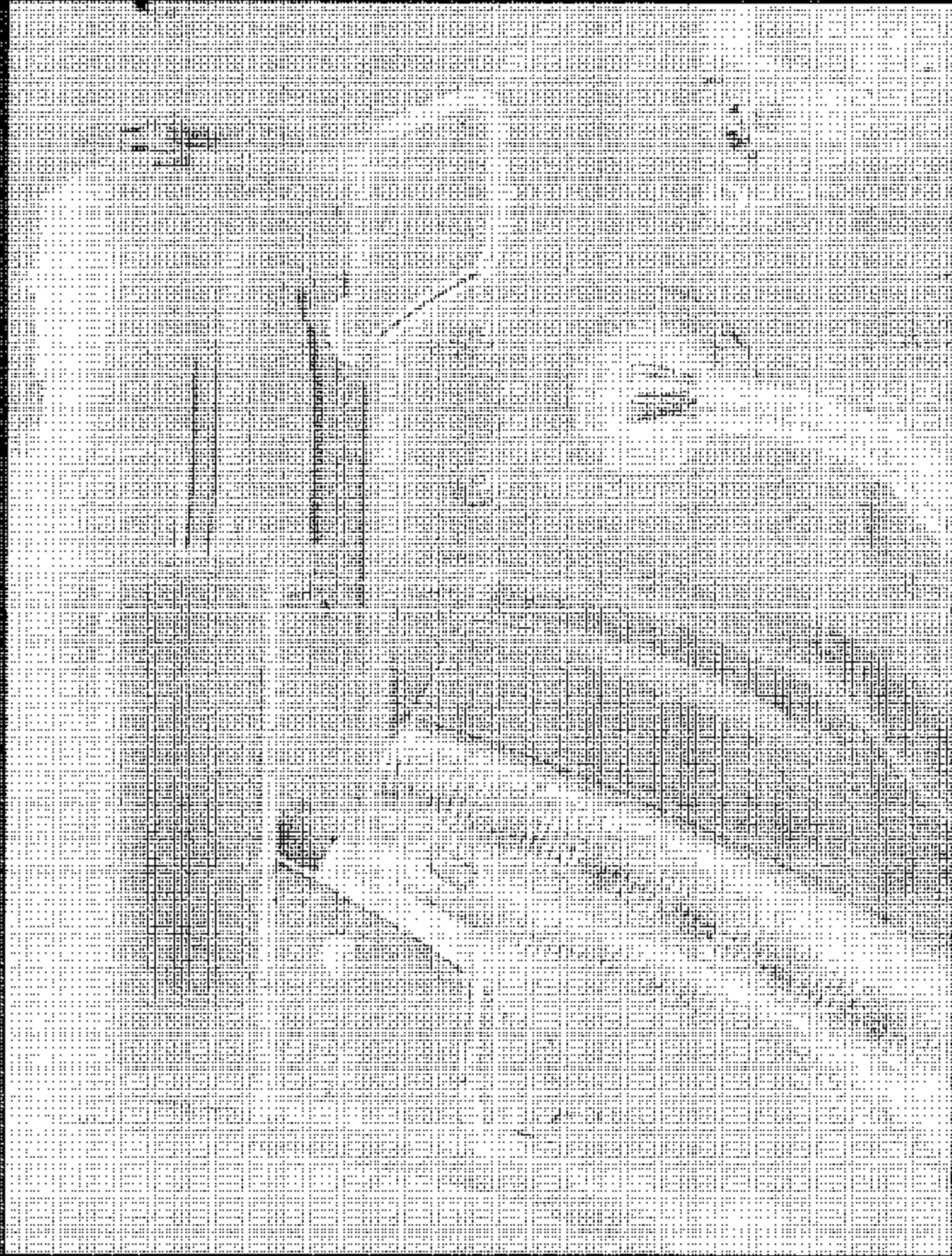


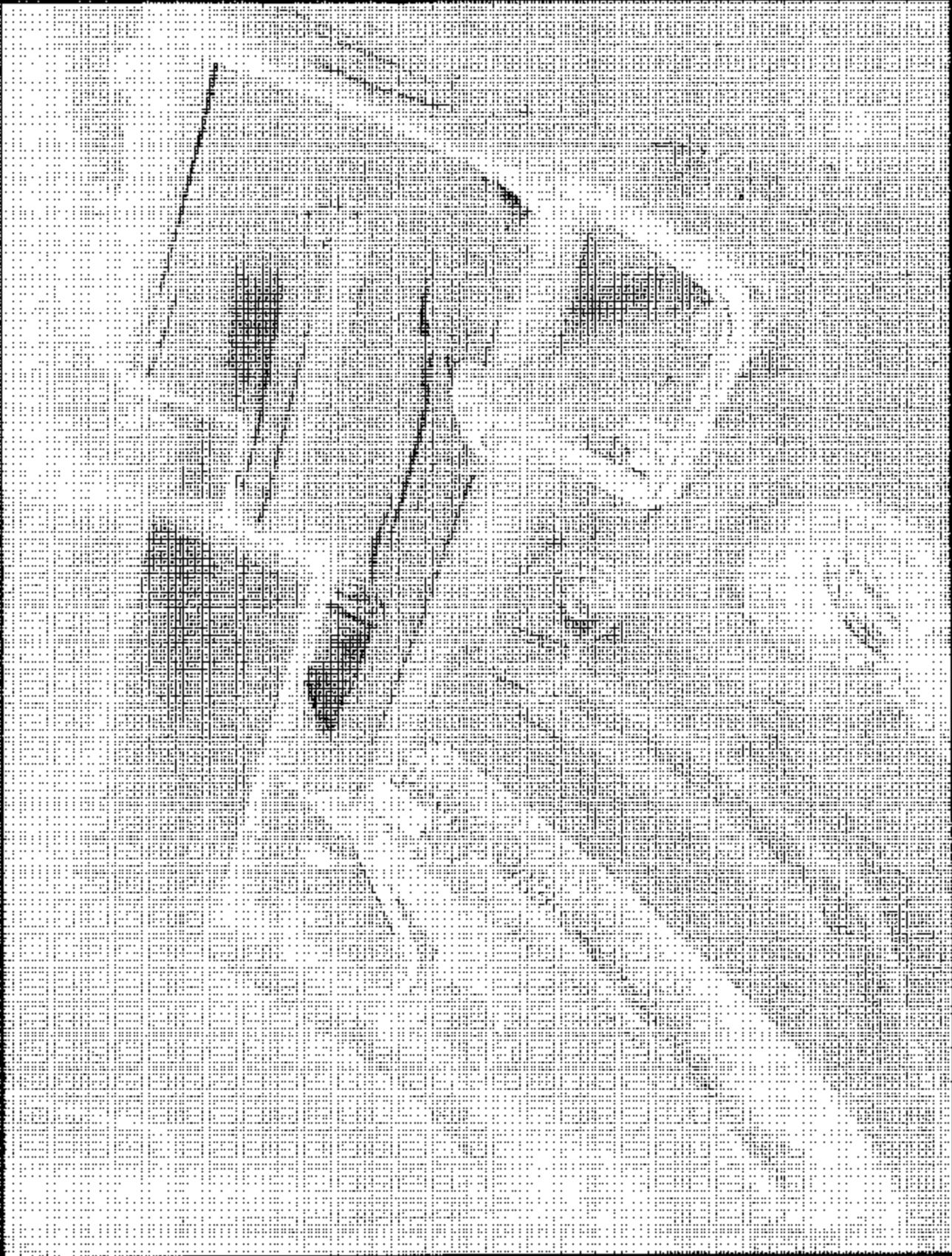
FIGURE B.37
POST TEST 2ND ROW LEFT POSITION SIDE
VIEW

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225



2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

FIGURE 5.38
POST TEST 2ND ROW RIGHT LOWER ANCHORS
FRONT VIEW



2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

FIGURE 5.39
POST TEST 2ND ROW RIGHT LOWER ANCHORS
SIDE VIEW

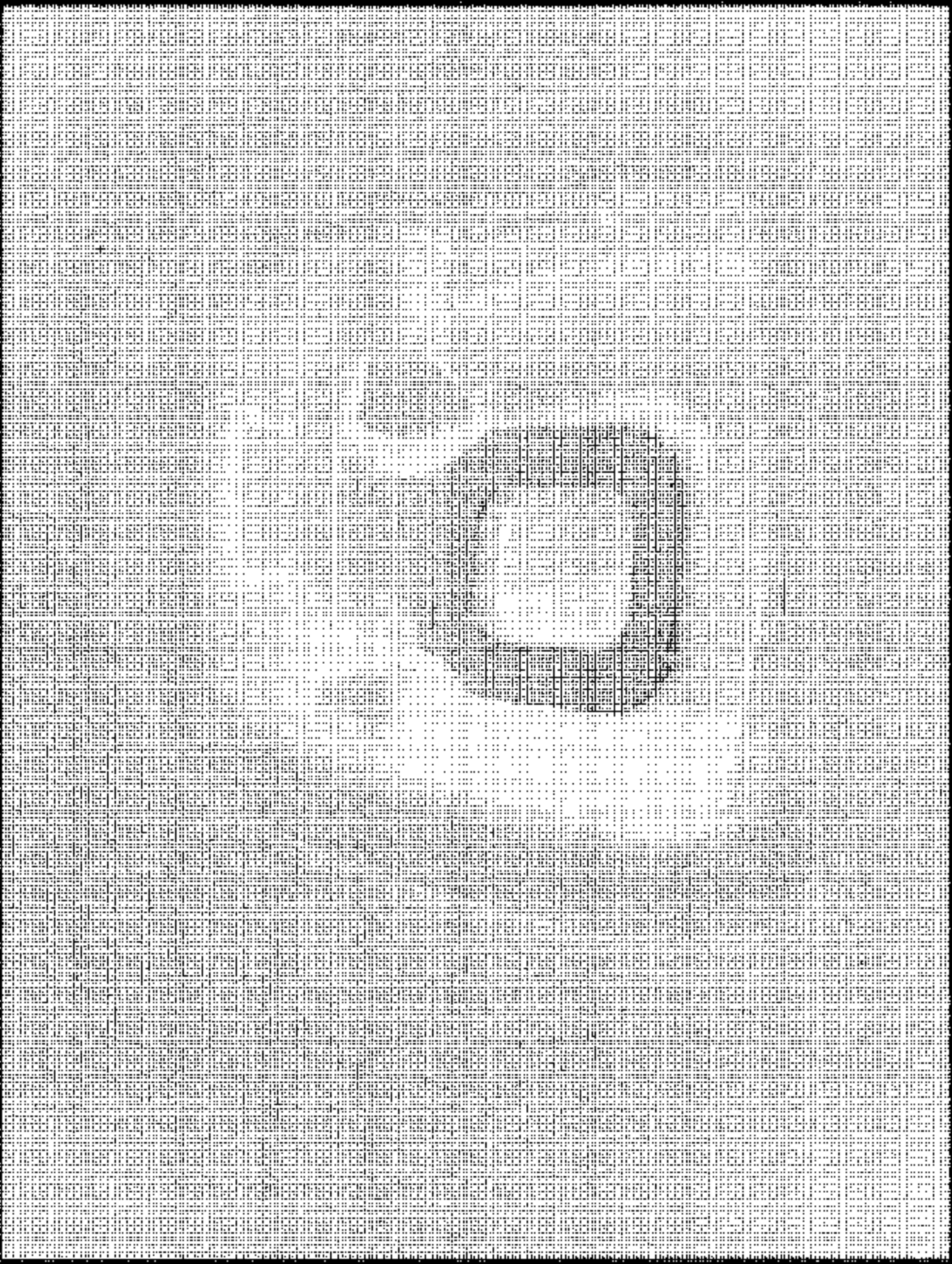


FIGURE 5.40
POST TEST 2ND ROW RIGHT TOP TETHER
ANCHOR

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

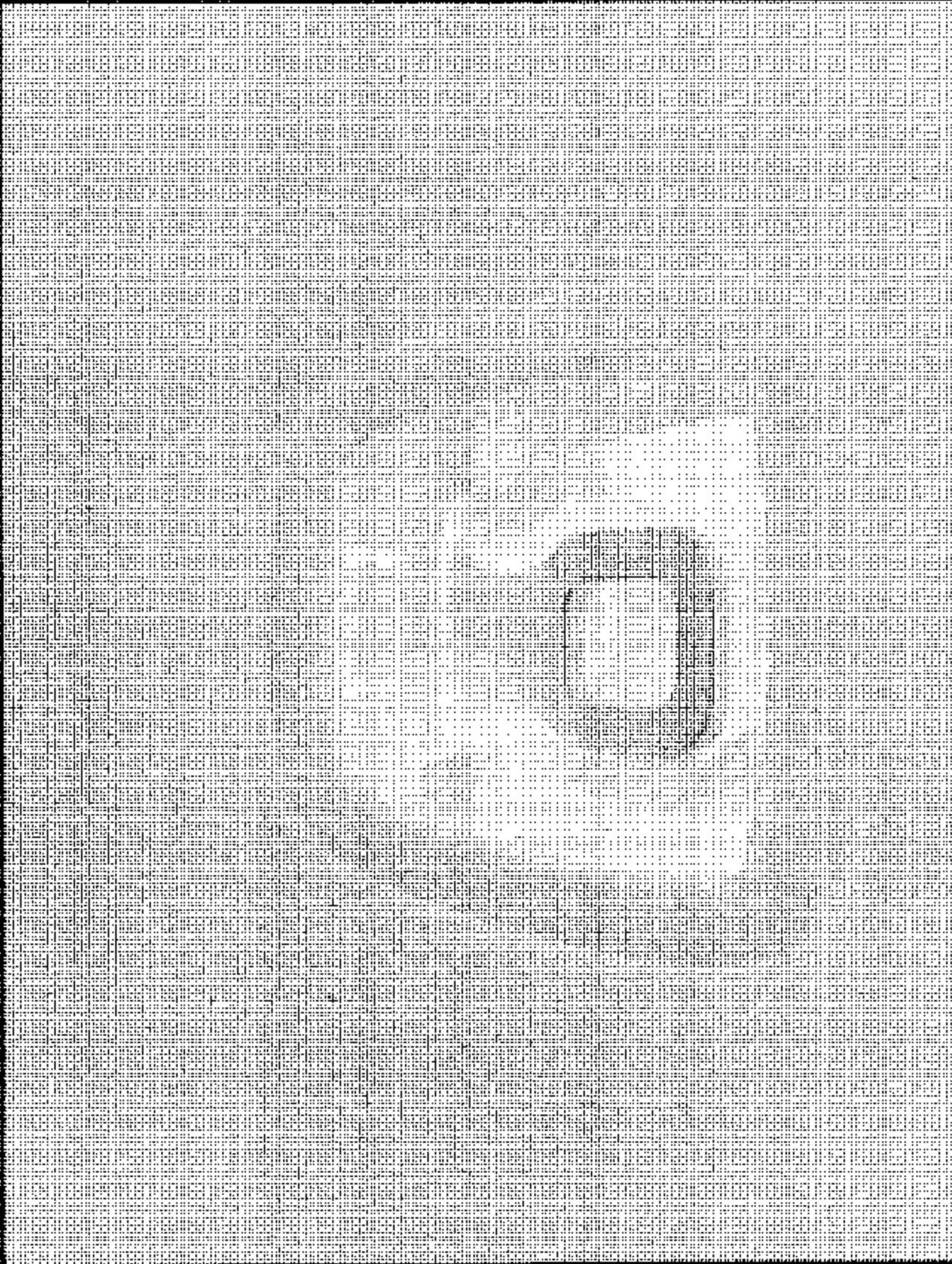


FIGURE 5.41
POST TEST 2nd ROW CENTER TOP TETHER
ANCHOR

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

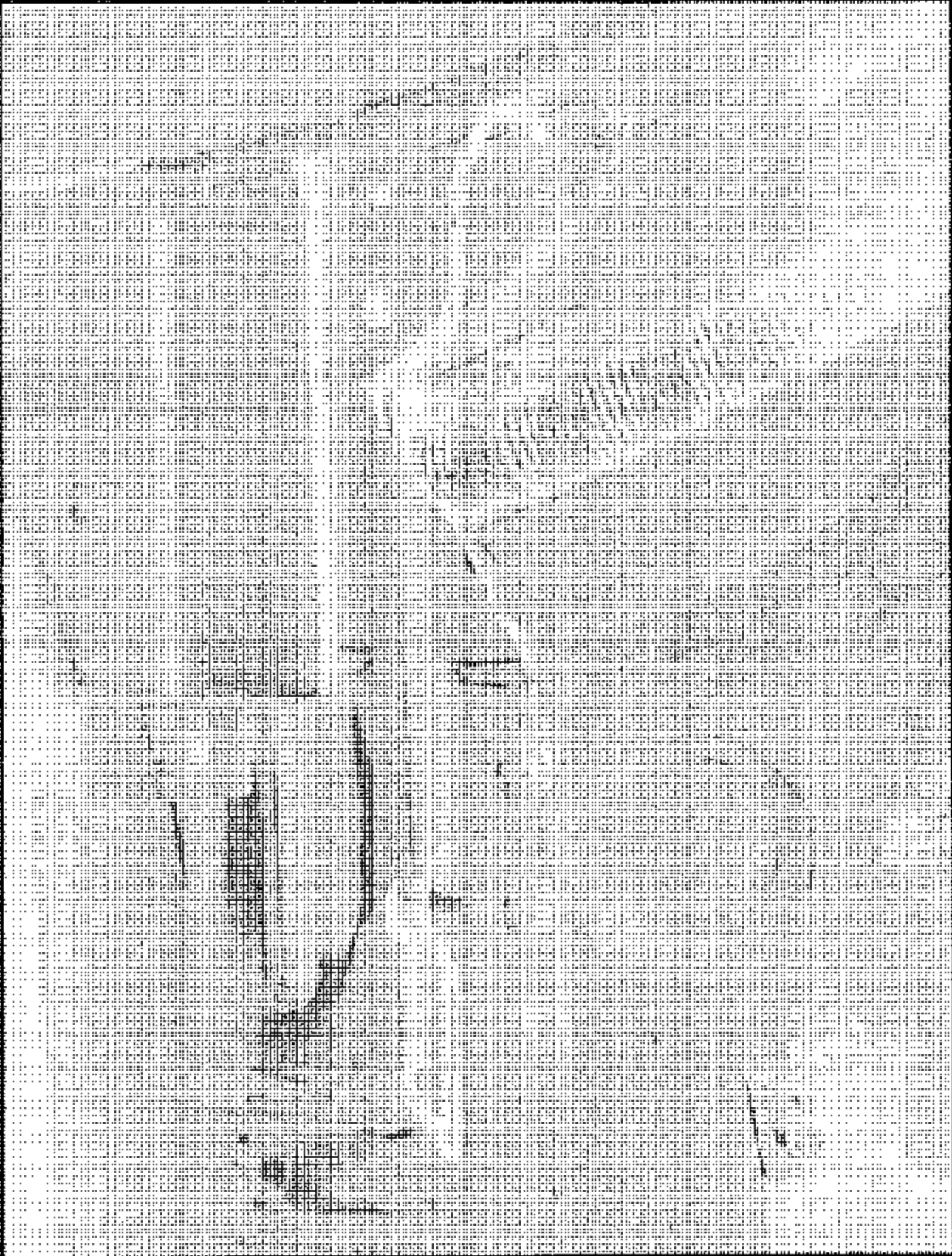


FIGURE 5.42
POST TEST 2ND ROW LEFT LOWER ANCHORS
FRONT VIEW

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 226



2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

FIGURE 5.43
POST TEST 2nd ROW LEFT LOWER ANCHORS
SIDE VIEW

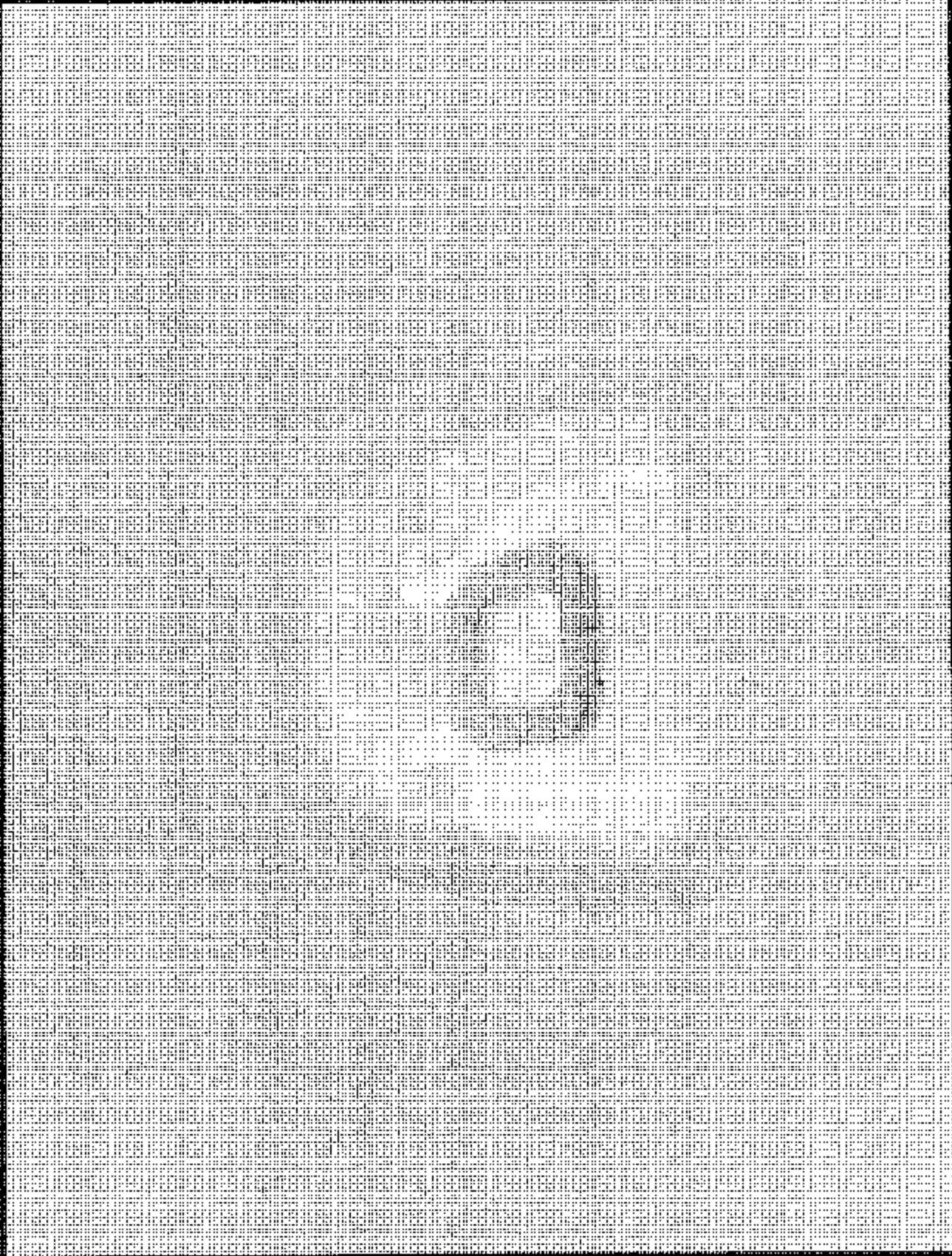


FIGURE 5.44
POST TEST 2ND ROW LEFT TOP TETHER
ANCHOR

2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225



2004 LINCOLN LS
NHTSA NO. C40204
FMVSS NO. 225

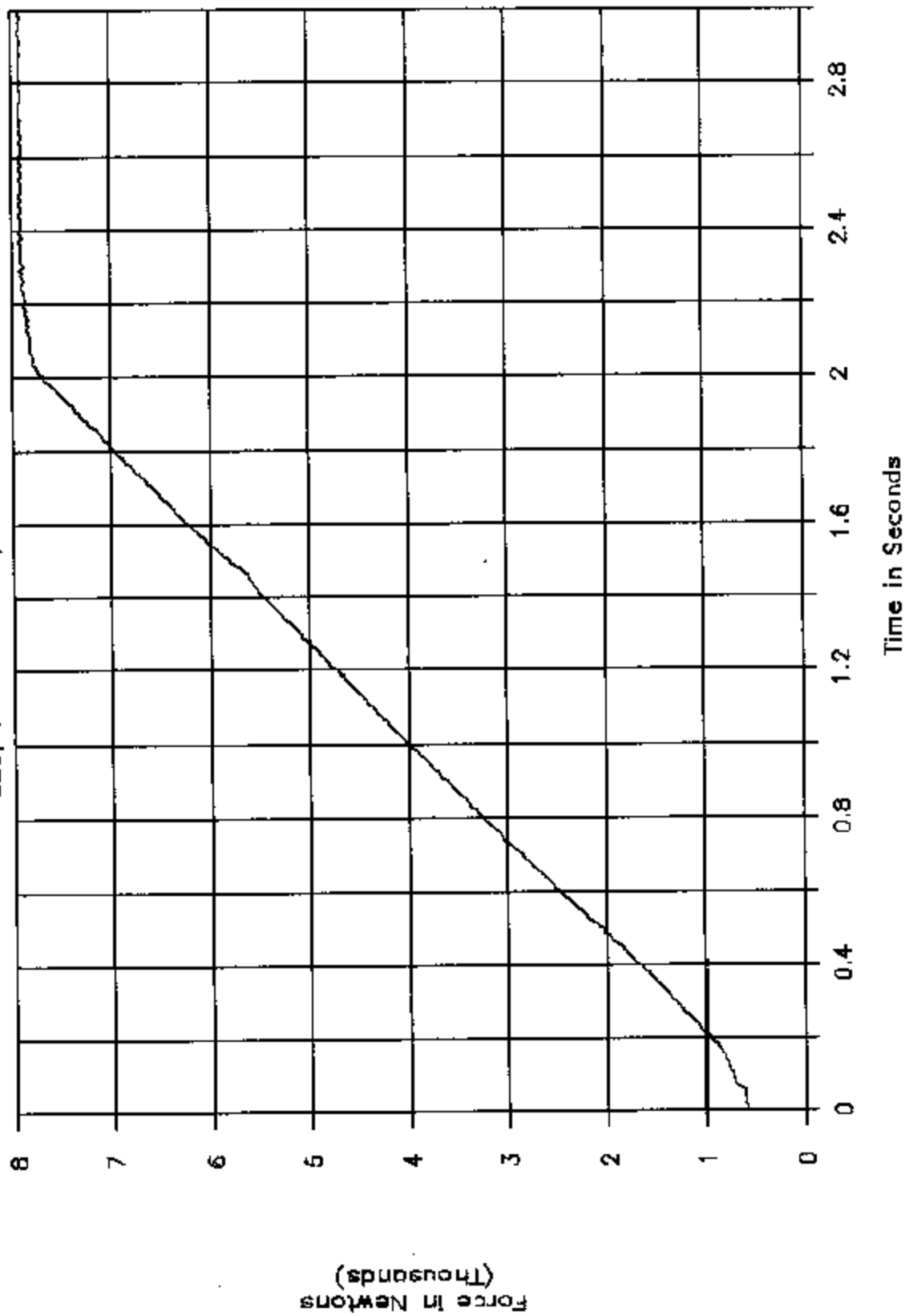
FIGURE 6.45
LOAD SYSTEM CONTROL AND DATA
RECORDING DEVICE IN POSITION

SECTION 6

PLOTS

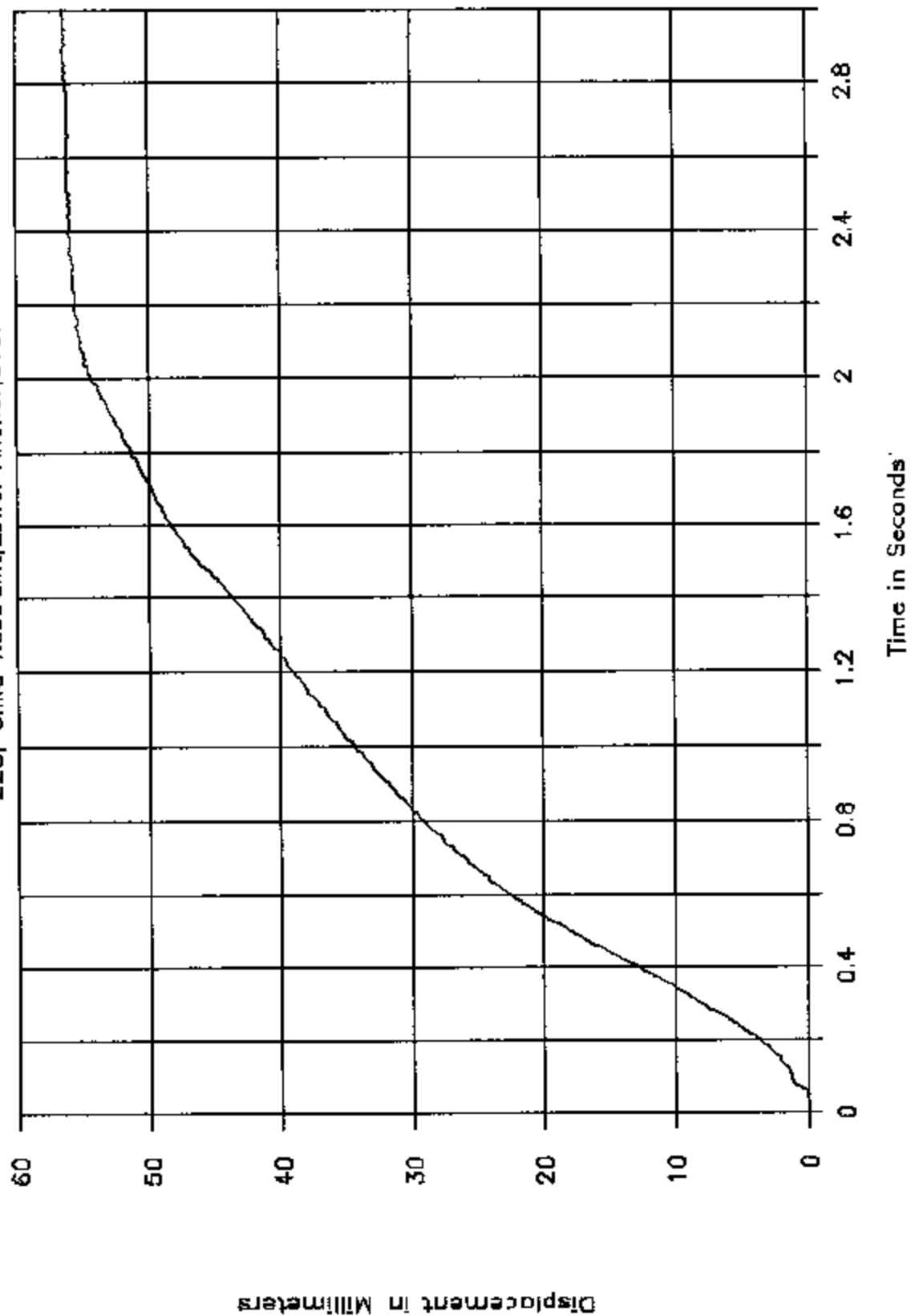
GTL 5228, NHTSA C40204

225, Child Restraint, Lower Anchor, S15.



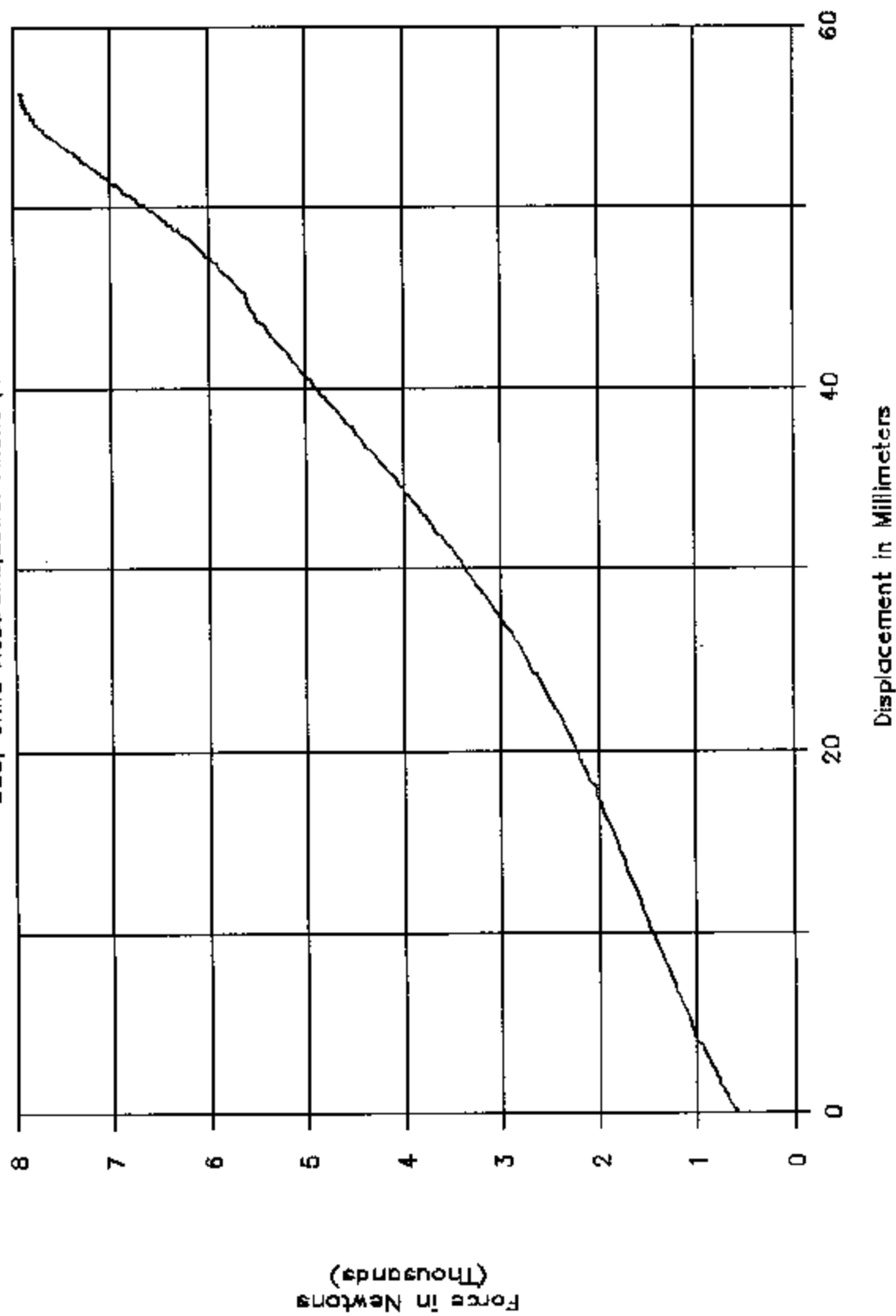
GTL 5228, NHTSA C40204

225, Child Restraint, Lower Anchor, S15.



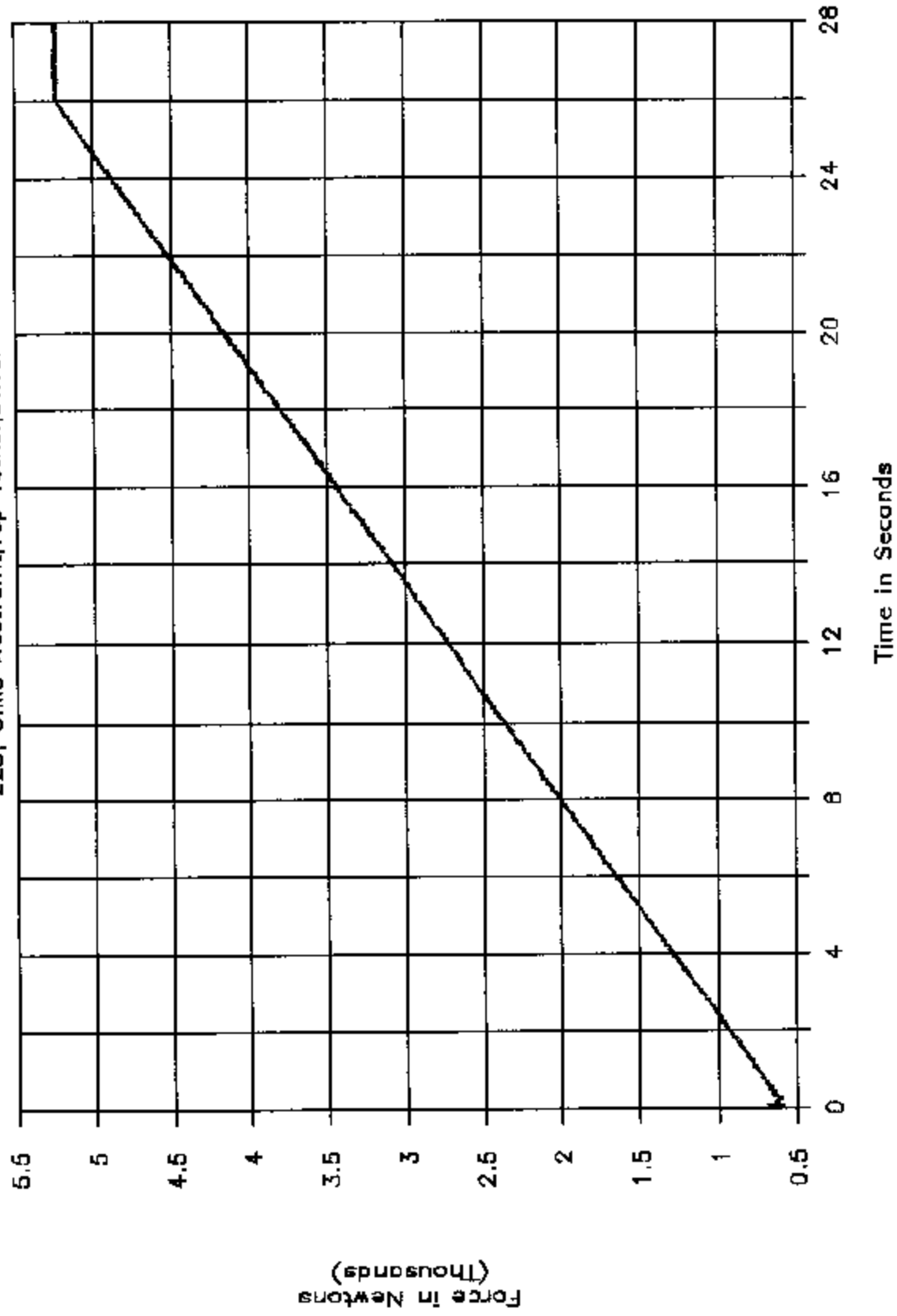
GTL 5228, NHTSA C40204

225, Child Restraint, Lower Anchor, S15.



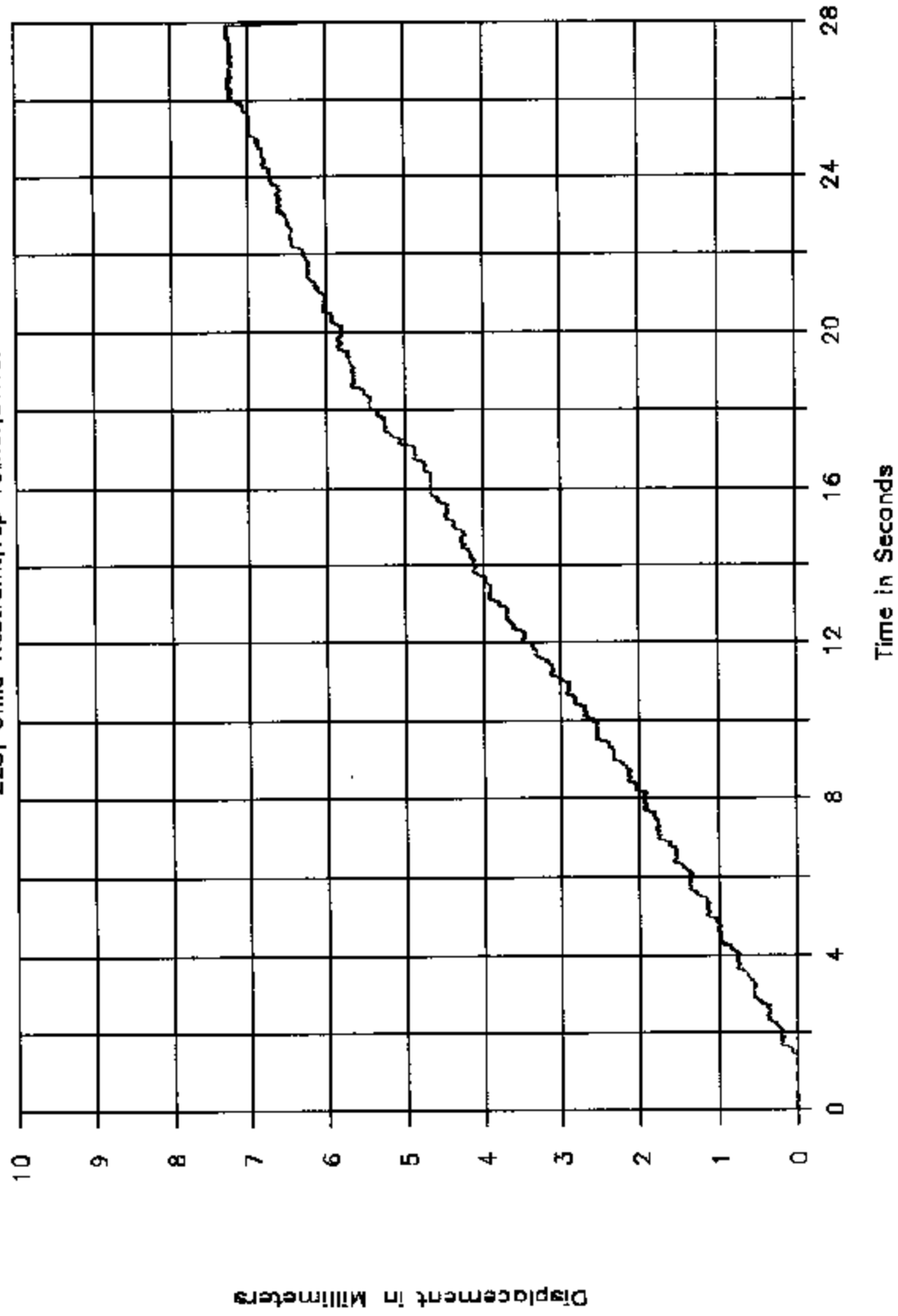
GTL 5229, NHTSA C40204

225, Child Restraint, Top Tether, Driver



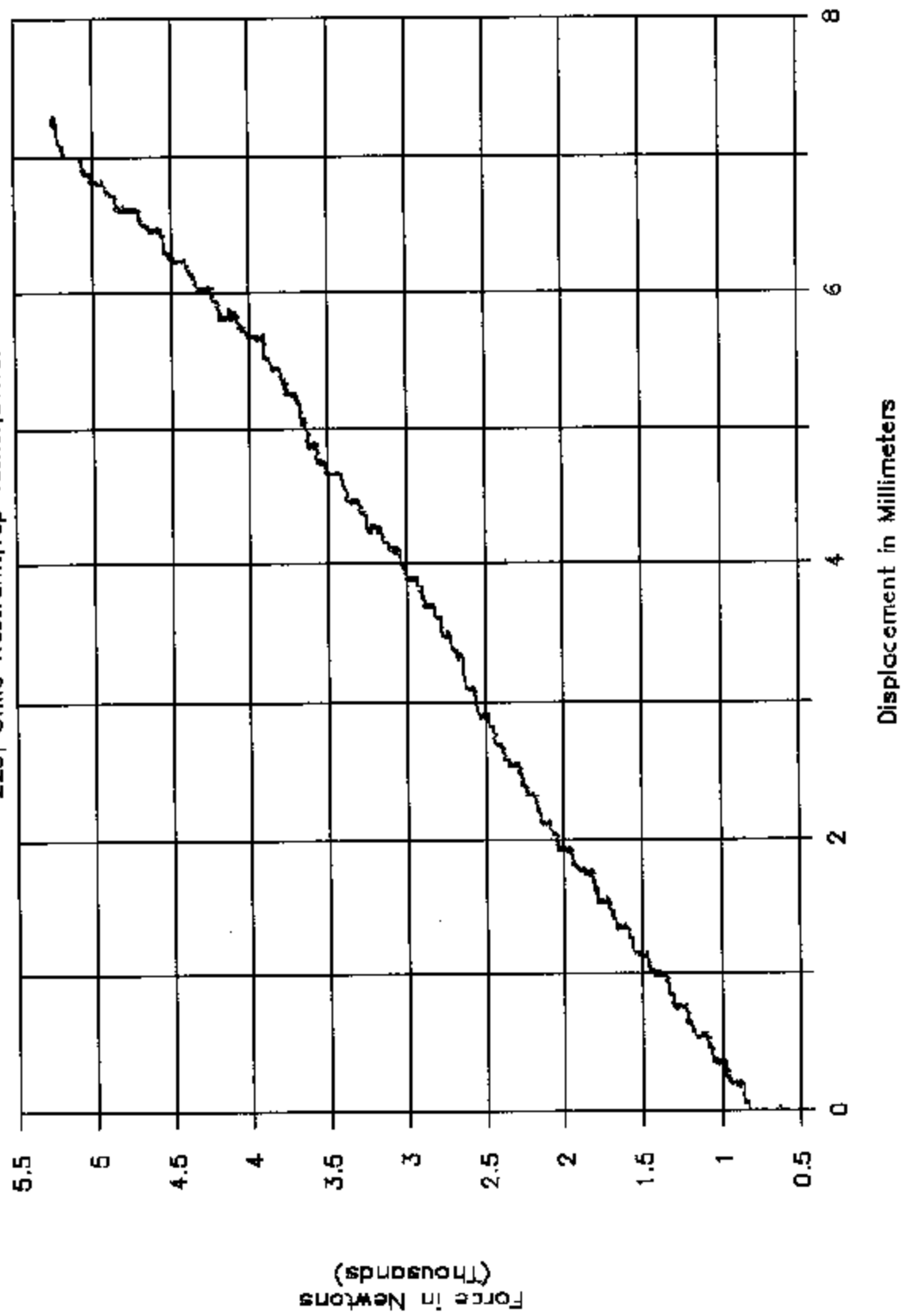
GTL 5229, NHTSA C40204

225, Child Restraint, Top Tether, Driver



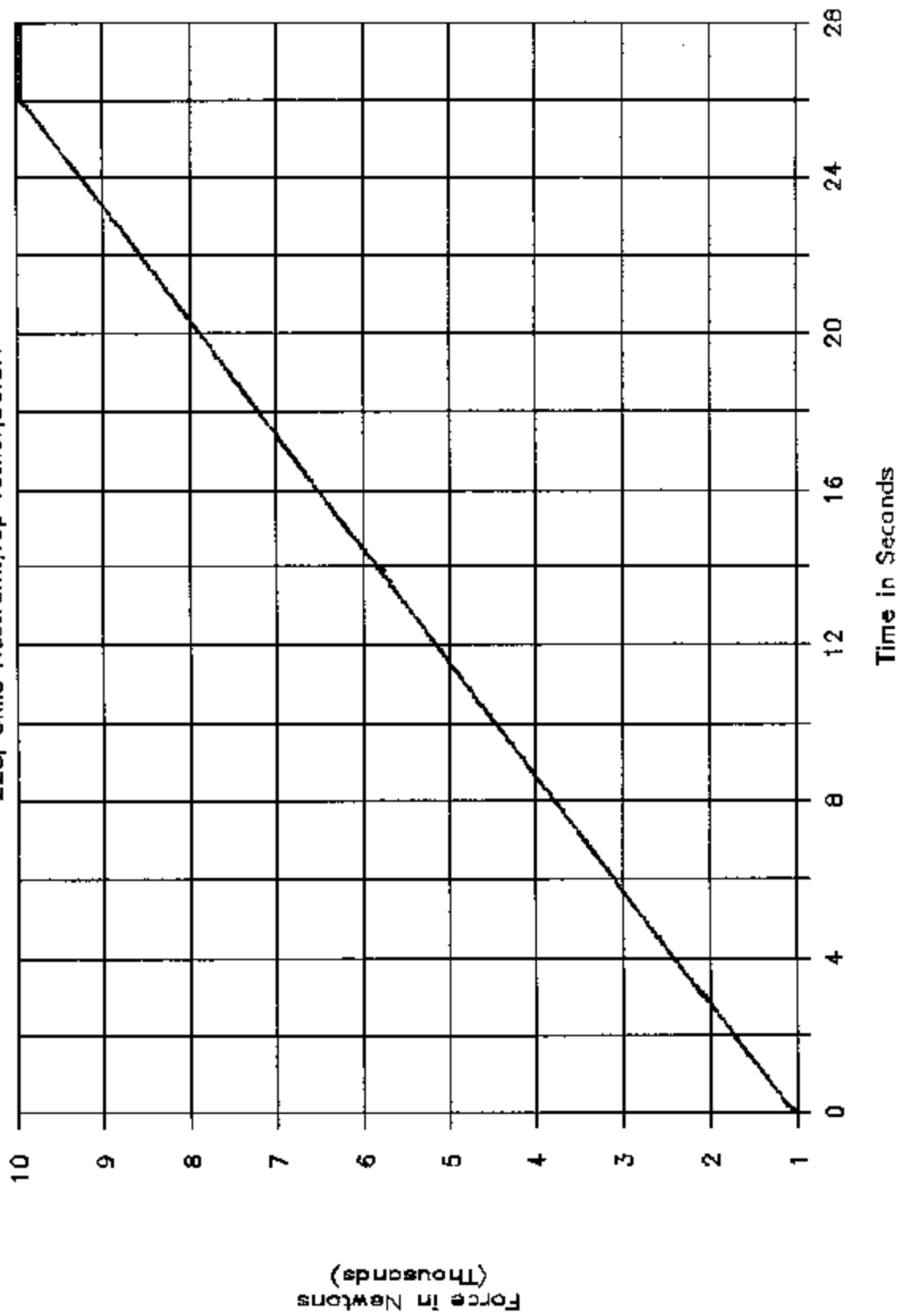
GTL 5229, NHTSA C40204

225, Child Restraint, Top Tether, Driver



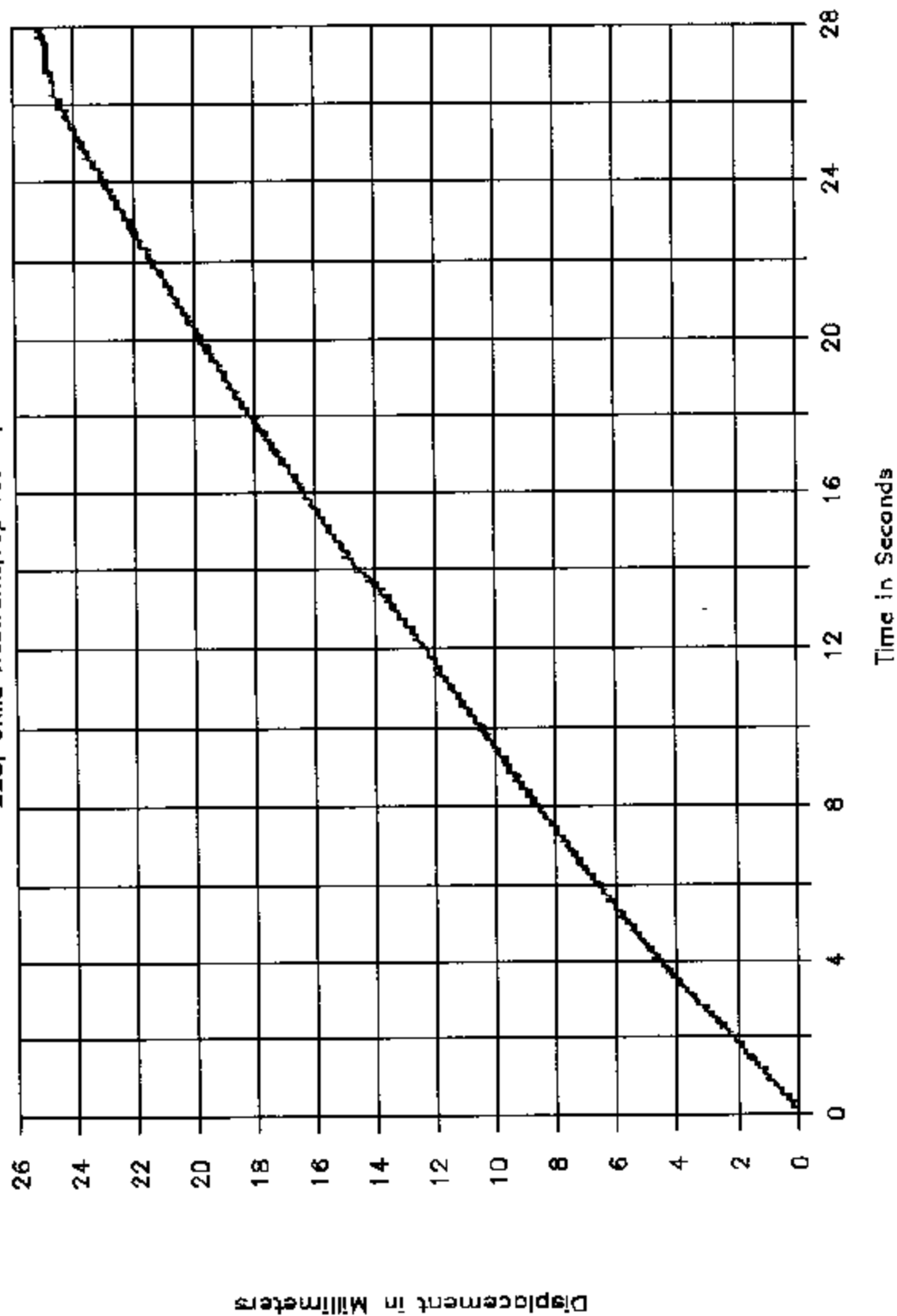
GTL 5230, NHTSA C40204

225, Child Restraint, Top Tether, S6.3.4



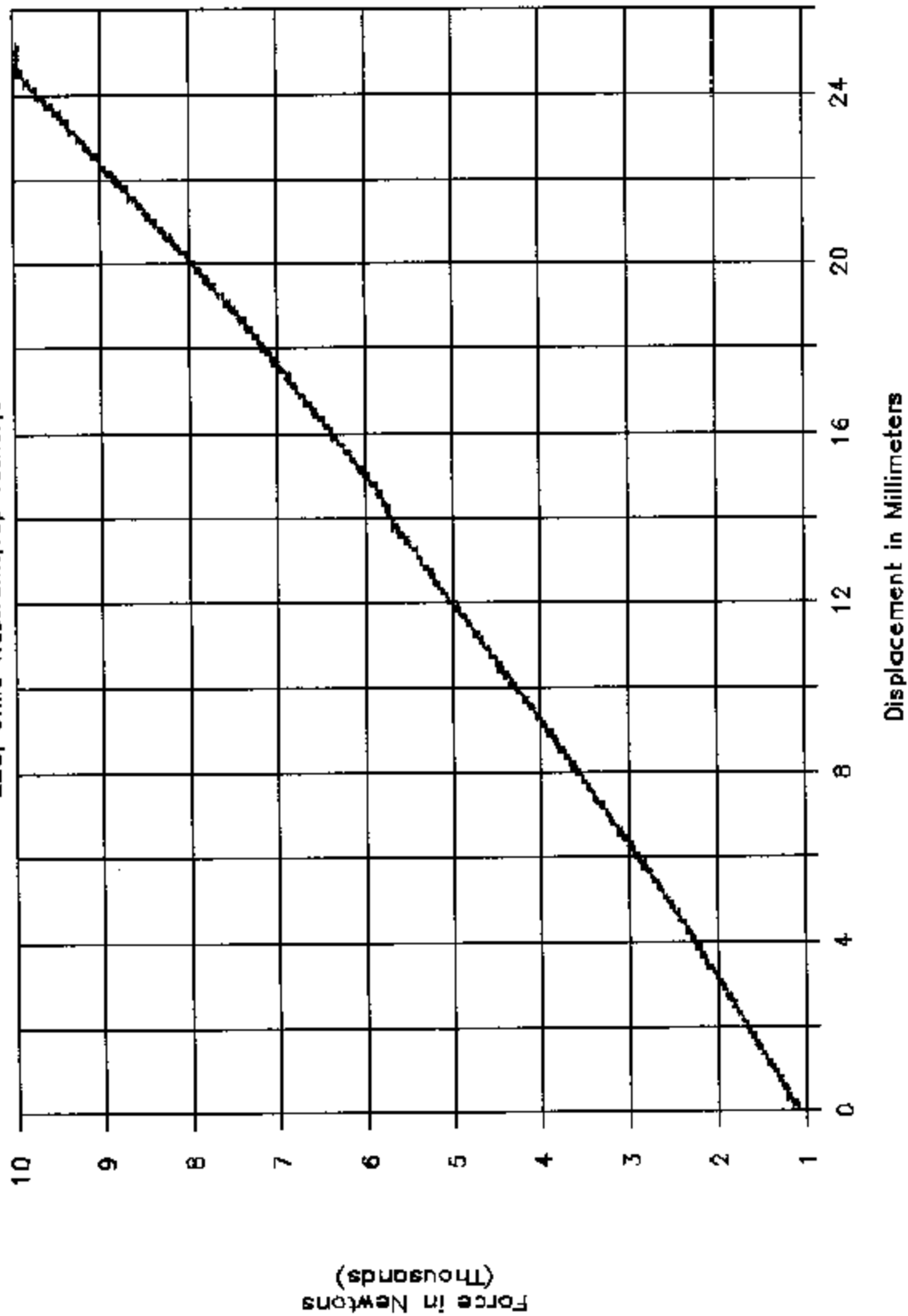
GTL 5230, NHTSA C40204

225, Child Restraint, Top Tether, S6.3.4



GTL 5230, NHTSA C40204

225, Child Restraint, Top Tether, S6.3.4



APPENDIX A

OWNER'S MANUAL CHILD RESTRAINT INFORMATION

Seating and Safety Restraints

Child and infant or child safety seats

Use a safety seat that is recommended for the size and weight of the child. Carefully follow all of the manufacturer's instructions with the safety seat you put in your vehicle. If you do not install and use the safety seat properly, the child may be injured in a sudden stop or collision.

When installing a child safety seat:

- Review and follow the information presented in the *Air Bag Supplemental Restraint System* section in this chapter.
- Use the correct safety belt buckle for that seating position.
- Insert the belt tongue into the proper buckle until you hear a snap and feel it latch. Make sure the tongue is securely fastened in the buckle.
- Keep the buckle release button pointing up and away from the safety seat, with the tongue between the child seat and the release button, to prevent accidental unbuckling.
- Place seat back in upright position.
- Put the safety belt in the automatic locking mode. Refer to *Automatic locking mode*.
- LATCH lower anchors are recommended for use by children up to 22 kg (48 pounds) in a child restraint. Top tether anchors can be used for children up to 27 kg (60 pounds) in a child restraint, and to provide upper torso restraint for children up to 36 kg (80 pounds) using an upper torso harness and a belt-positioning booster.

Ford recommends the use of a child safety seat having a top tether strap. Install the child safety seat in a seating position with LATCH and tether anchors. For more information on top tether straps and anchors, refer to *Attaching safety seats with tether straps* in this chapter. For more information of LATCH anchors refer to *Attaching safety seats with LATCH (Lower Anchors and Tethers for Children) attachments* in this chapter.

Seating and Safety Restraints

⚠ Carefully follow all of the manufacturer's instructions included with the safety seat you put in your vehicle. If you do not install and use the safety seat properly, the child may be injured in a sudden stop or collision.

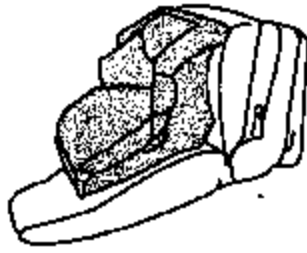
⚠ Rear-facing child seats or infant carriers should never be placed in the front seats.

Installing child safety seats with combination lap and shoulder belts

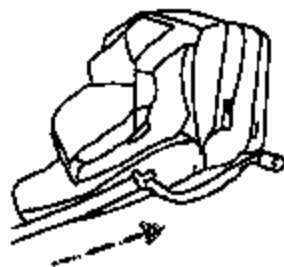
⚠ Air bags can kill or injure a child in a child seat. NEVER place a rear-facing child seat in front of an active air bag. If you must use a forward-facing child seat in the front seat, move the seat all the way back.

⚠ Children 12 and under should be properly restrained in the rear seat whenever possible.

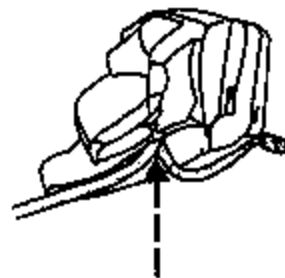
1. Position the child safety seat in a seat with a combination lap and shoulder belt.



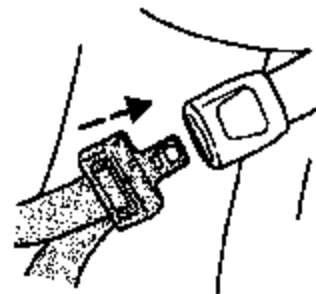
2. Pull down on the shoulder belt and then grasp the shoulder belt and lap belt together.



3. While holding the shoulder and lap belt portions together, route the tongue through the child seat according to the child seat manufacturer's instructions. Be sure the belt webbing is not twisted.



4. Insert the belt tongue into the proper buckle (the buckle closest to the direction the tongue is coming from) for that seating position until you hear a snap and feel the latch engage. Make sure the tongue is latched securely by pulling on it.

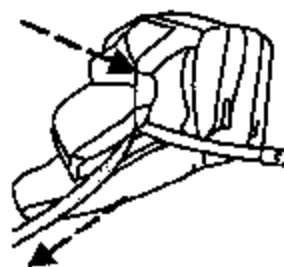


5. To put the retractor in the automatic locking mode, grasp the shoulder portion of the belt and pull downward until all of the belt is pulled out and a click is heard.

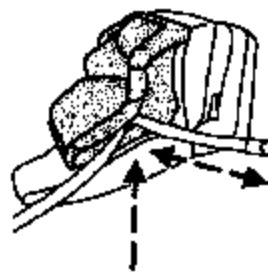


6. Allow the belt to retract. The belt will click as it retracts to indicate it is in the automatic locking mode.

7. Pull the lap belt portion across the child seat toward the buckle and pull up on the shoulder belt while pushing down with your knee on the child seat.



8. Allow the safety belt to retract to remove any slack in the belt.



9. Before placing the child in the seat, forcibly move the seat forward and back to make sure the seat is securely held in place. To check this, grab the seat at the belt path and attempt to move it side to side and forward. There should be no more than one inch of movement for proper installation.

10. Try to pull the belt out of the retractor to make sure the retractor is in the automatic locking mode (you should not be able to pull more belt out). If the retractor is not locked, unbuckle the belt and repeat steps two through nine.

Check to make sure the child seat is properly secured before each use.

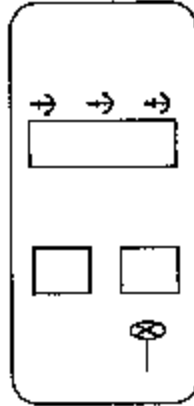
Attaching child safety seats with tether straps

Most new forward-facing child safety seats include a tether strap which goes over the back of the seat and hooks to an anchoring point. Tether straps are available as an accessory for many older safety seats. Contact the manufacturer of your child seat for information about ordering a tether strap.

The rear seats of your vehicle are equipped with built-in tether strap anchors located behind the seats as described below.

The tether anchors in your vehicle are located under a cover marked with the tether anchor symbol (shown with title).

The tether strap anchors in your vehicle are in the following positions (shown from top view):

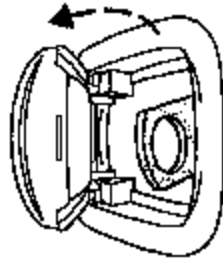


⚠ Attach the tether strap only to the appropriate tether anchor as shown. The tether strap may not work properly if attached somewhere other than the correct tether anchor.

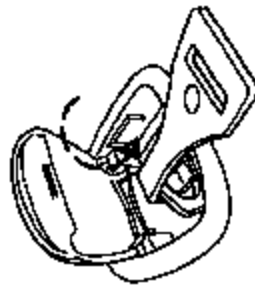
1. Position the child safety seat on the seat cushion.
2. Route the child safety seat tether strap over the back of the seat. For vehicles with adjustable head restraints, route the tether strap under the head restraint and between the head restraint posts, otherwise route the tether strap over the top of the seatback.
3. Locate the correct anchor for the selected seating position.



4. Open the tether anchor cover.



5. Clip the tether strap to the anchor as shown.



⚠ If the tether strap is clipped incorrectly, the child safety seat may not be retained properly in the event of a collision.

6. Install the child safety seat tightly using the LATCH anchors or safety belts. Follow the instructions in this chapter.
7. Tighten the child safety seat tether strap according to the manufacturer's instructions.

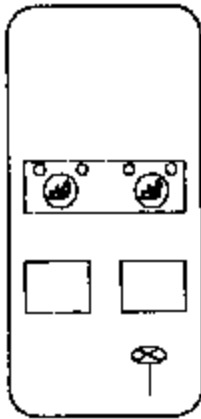
⚠ The child safety seat must be installed in a vehicle. The seat is not to be used in a vehicle that is not a motor vehicle.

Attaching safety seats with LATCH (Lower Anchors and Tethers for Children) attachments for child seat anchors

LATCH lower anchors are recommended for use by children up to 22 kg (48 pounds) in a child restraint. Top tether anchors can be used for children up to 27 kg (60 pounds) in a child restraint, and to provide upper torso restraint for children up to 38 kg (80 pounds) using an upper torso harness and a belt-positioning booster.

Some child safety seats have two rigid or webbing mounted attachments that connect to two anchors at certain seating positions in your vehicle. This type of child seat eliminates the need to use seat belts to attach the child seat. For forward-facing child seats, the tether strap must also be attached to the proper tether anchor. See *Attaching safety seats with tether straps* in this chapter.

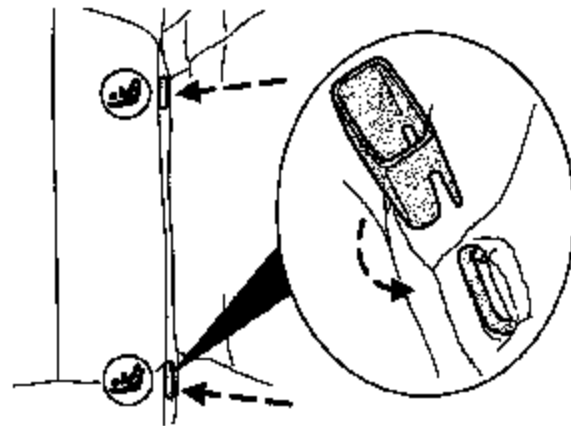
Your vehicle has LATCH anchors for child seat installation at the seating positions marked with the child seat symbol.



The anchors on both sides of the center of the rear seat are provided primarily for child seats at the outboard seats, and are further apart than the pairs of lower anchors for child seat installation at other seats. A child seat with rigid LATCH attachments cannot be installed at the center rear seat. A child seat with LATCH attachments on belt webbing can be used at the center rear seat unless a child seat at an outboard rear seat is attached to one of these lower anchors. Install a child seat onto the lower anchors at the center rear seat **ONLY IF** the child restraint manufacturer recommends that the child seat can be installed to anchors that are spaced up to 500 mm (20 in.) apart.

⚠ Never attach two LATCH child safety seats to the same anchor. In a crash, one anchor may not be strong enough to hold two child safety seat attachments and may break, causing serious injury or death.

The lower anchors for child seat installation are located at the rear section of the rear seat between the cushion and seat back. The LATCH anchors are below the locator symbols on the seat back.



Follow the child seat manufacturer's instructions to properly install a child seat with LATCH attachments. Two plastic LATCH guides can be obtained at no charge from any Ford or Lincoln-Mercury dealer. They snap onto the LATCH lower anchors in the seat to help attach a child seat with rigid attachments. The guides hold the seat trim away to expose the anchor and make it easier to attach some child seats.

⚠ Attach LATCH lower attachments of the child seat only to the anchors shown.

If you install a child seat with rigid LATCH attachments, do not tighten the tether strap enough to lift the child seat off the vehicle seat cushion when the child is seated in it. Keep the tether strap just snug without lifting the front of the child seat. Keeping the child seat just touching the vehicle seat gives the best protection in a severe crash.

Each time you use the safety seat, check that the seat is properly attached to the lower anchors and tether anchor. Try to tilt the child seat from side to side. Also try to tug the seat forward. Check to see if the anchors hold the seat in place.

⚠ If an safety seat is not anchored properly, the risk of a child being injured in a crash greatly increases.

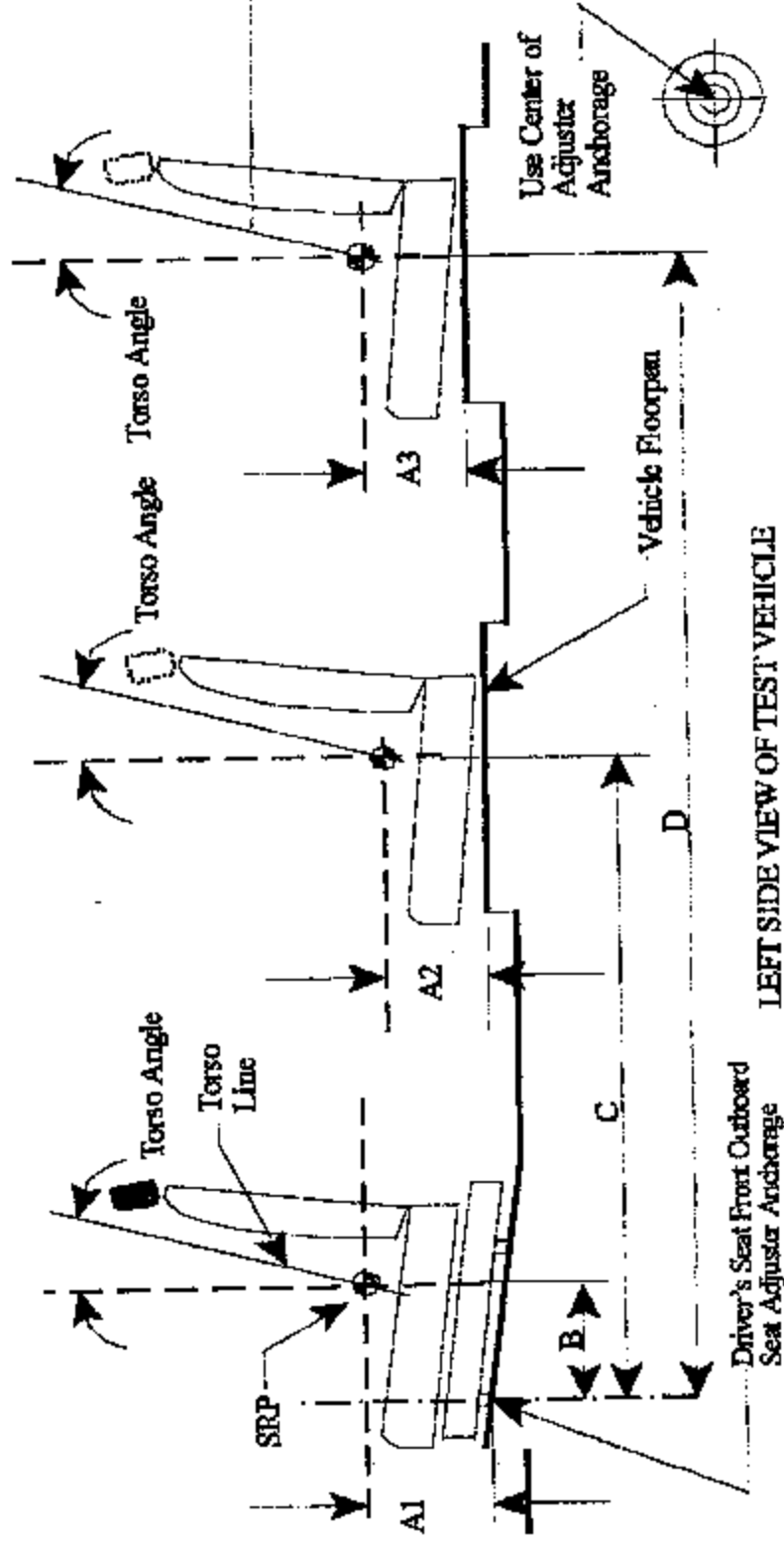
APPENDIX B

MANUFACTURER'S DATA

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

(All dimensions in mm)

Model Year: 2004; Make: Lincoln; Model: LS; Body Style: 4 Door Sedan
 Seat Style: Front row: Power Bucket; Second row: 60/40 Bench; Third row: N/A



LEFT SIDE VIEW OF TEST VEHICLE

Table 1. Seating Positions¹ and Torso Angles

	Left (Driver Side)	Center (if any)	Right
A1	258.7	N/A	258.7
A2	295.7	346.7	295.7
A3	N/A	N/A	N/A
B	273.2	N/A	273.2
C	1123.2	1107.2	1123.2
D	N/A	N/A	N/A
Torso Angle (degree)	Front Row	N/A	23.8°
	Second Row		28°
	Third Row	N/A	N/A

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

2. Dimension A2 is the vertical location of the SGRP relative to the Driver's Seat Front Outboard Seat Adjuster Anchorage.

SEATING REFERENCE POINT

FOR FMVSS 225

(All dimensions in mm)

Model Year: 2004; Make: Lincoln; Model: LS; Body Style: 4 Door Sedan
 Seat Style: Front row: Power Bucket; Second row: 60/40 Bench; Third row: N/A

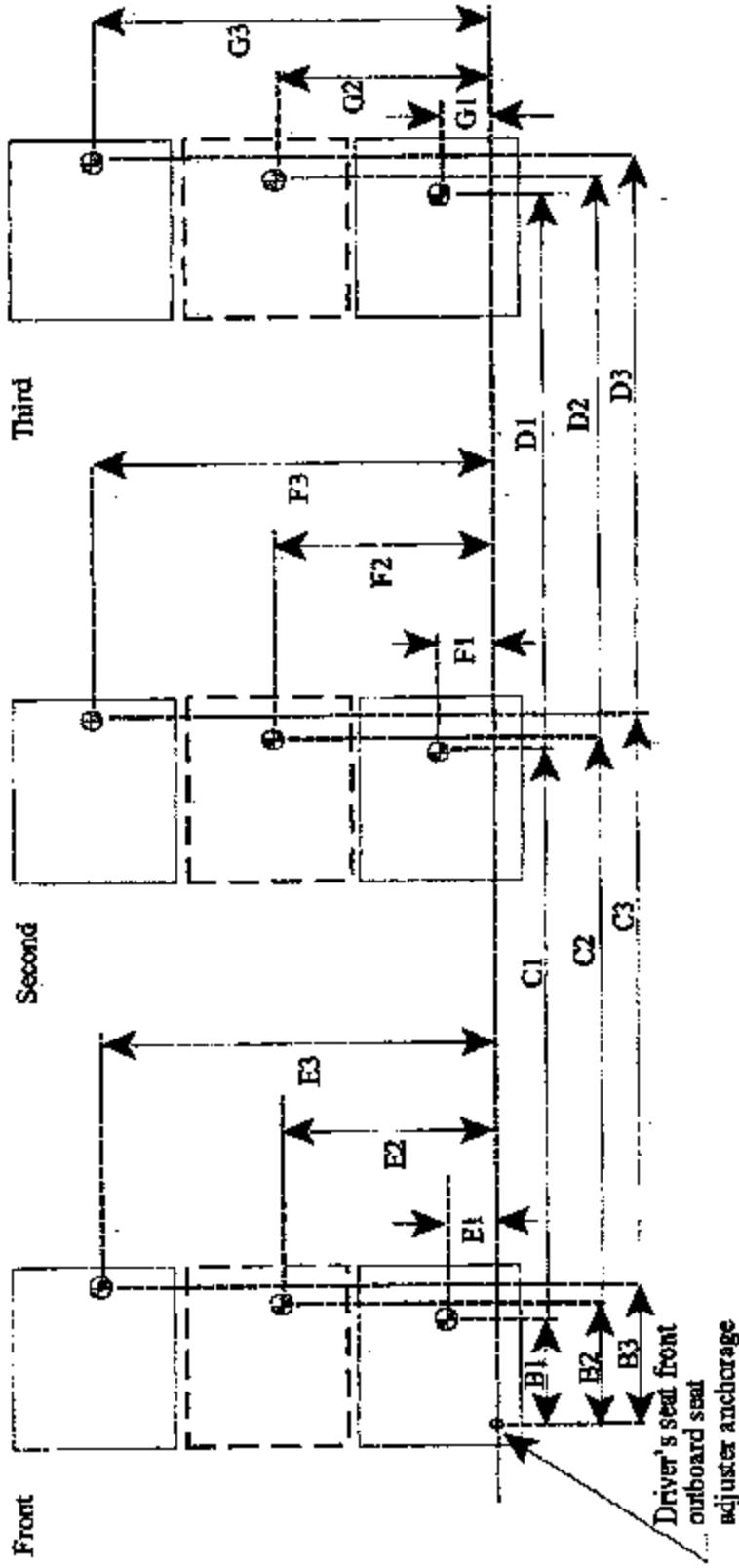


Table 2. Seating Reference Point and Tether Anchorage Locations

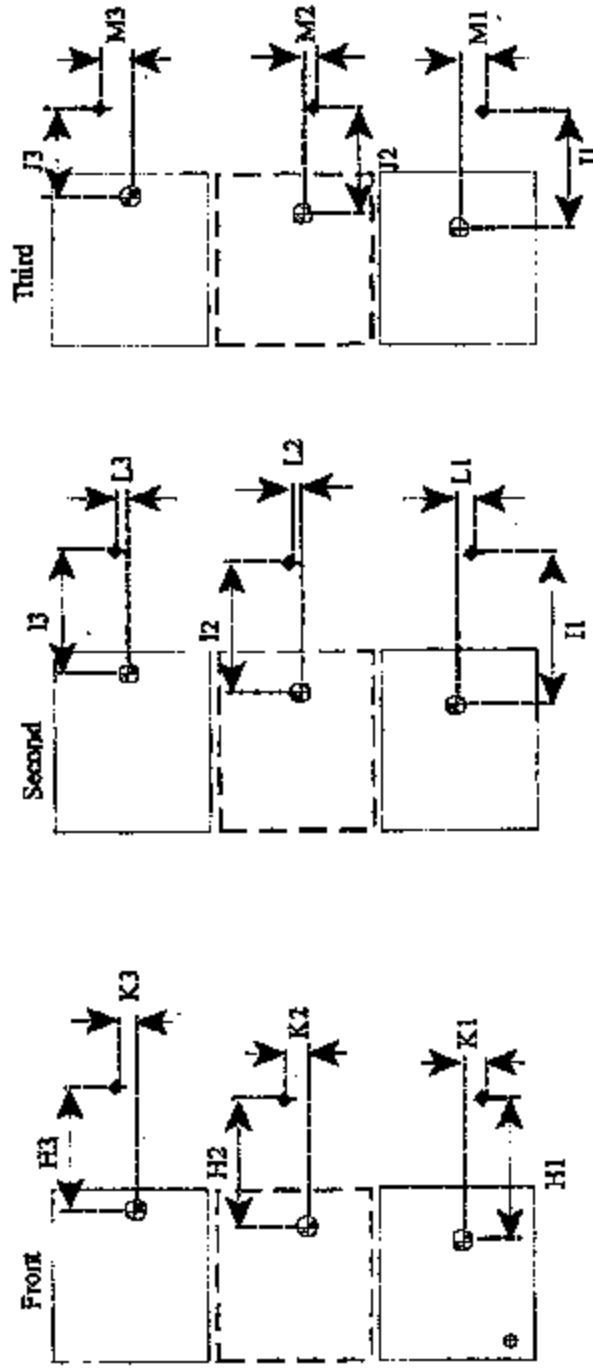
Seating Reference Point (SRP)		Distance from Driver's front outboard seat adjuster anchorage ¹
Front Row	B1	273.2
	E1	234
	B2	N/A
	E2	N/A
	B3	273.2
	E3	974
Second Row	C1	1123.2
	F1	234
	C2	1107.2
	F2	604
	C3	1123.2
	F3	974
Third Row	D1	N/A
	G1	N/A
	D2	N/A
	G2	N/A
	D3	N/A
	G3	N/A

Note: 1. Use the center of anchorage.

TETHER ANCHORAGE LOCATIONS FOR FMVSS 225

(All dimensions in mm)

Model Year: 2004; Make: Lincoln; Model: LS; Body Style: 4 Door Sedan
 Seat Style: Front row: Power Bucket; Second row: 60/40 Bench; Third row: N/A



⊕: SRP

⬆: Tether anchorage

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

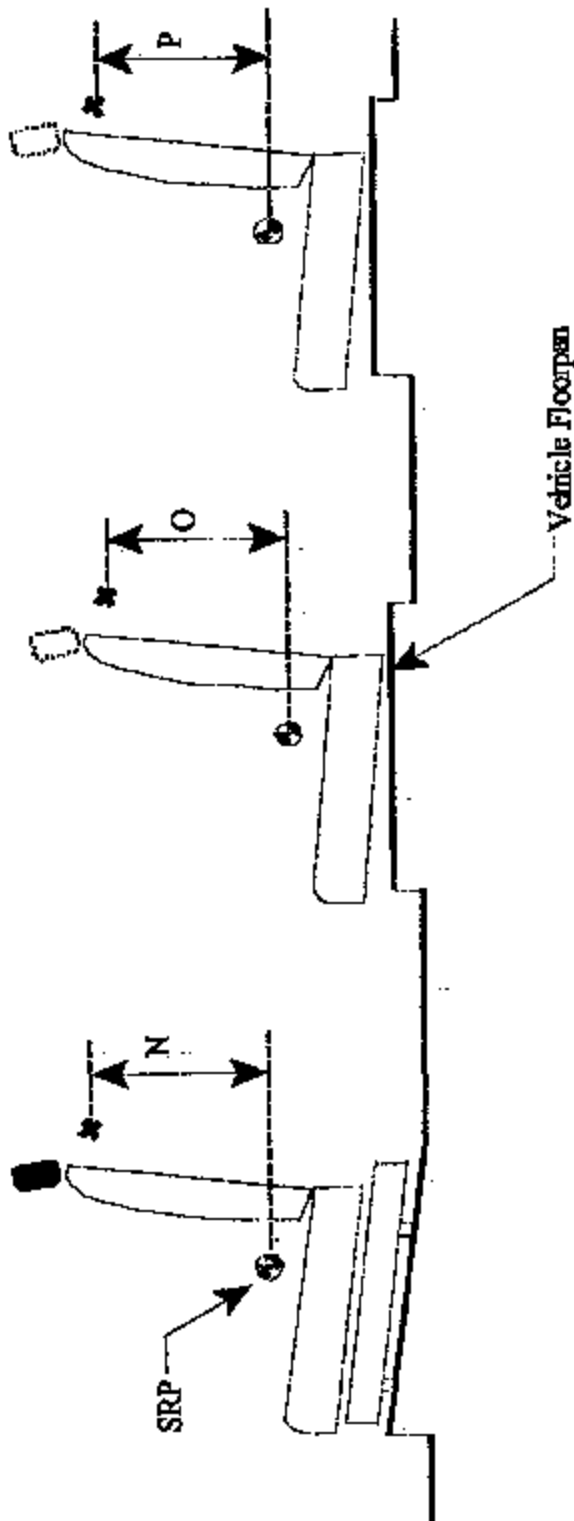
Table 3. Seating Reference Point and Tether Anchorage Locations

Seating Reference Point (SRP)	Distance from SRP	
Front Row	H1	N/A
	K1	N/A
	H2	N/A
	K2	N/A
	H3	N/A
	K3	N/A
Second Row	I1	542
	L1	0
	I2	558
	L2	0
	I3	542
	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.

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

Model Year: 2004; Make: Lincoln; Model: LS; Body Style: 4 Door Sedan
Seat Style: Front row: Power Bucket; Second row: 60/40 Bench; Third row: N/A



LEFT SIDE VIEW OF TEST VEHICLE

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	O1 (Left) 529
	O2 (Center) 478
	O3 (Right) 529
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 used.

Test Procedures Used for Compliance Tests

Tether Anchorages

Seating Location	FMVSS Section(s) - Req.
Front	Driver N/A
	Center (if any) N/A
	Right (if any) N/A
Second	Left FMVSS 225 S6.3.4
	Center FMVSS 225 S6.3.4
	Right (if any) FMVSS 225 S6.3.4
Third	Left N/A
	Center N/A
	Right N/A
Fourth	Left N/A
	Center N/A
	Right N/A

Lower Anchorages

Seating Location	FMVSS Section(s) - Req.
Front	Driver N/A
	Center (if any) N/A
	Right (if any) N/A
Second	Left FMVSS 225 S15
	Center FMVSS 225 S15
	Right FMVSS 225 S15
Third	Left N/A
	Center N/A
	Right N/A
Fourth	Left N/A
	Center N/A
	Right N/A

For each anchorage system, provide the following information:

1. **Lower Anchorage Dimensions:** Whether the anchorages are certified with S15.1.2.1 of FMVSS No. 225.

Yes. By design (drawing requirement) this vehicle is certified to the requirements of section S15.2.1 of FMVSS 225.

2. **Lower Anchorage Location:** Whether the anchorages are certified with S15.1.2.2 of FMVSS No. 225. If the anchorages are certified with S15.1.2.2, provide the pitch, roll and yaw angles.

Yes. This vehicle is certified to the requirements of section S15.1.2.2 of FMVSS 225. Roll, pitch and yaw angles are shown below.

Seat Position	Pitch	Roll	Yaw
2 nd Row Left	10.5°	0	0
2 nd Row Right	11.5°	1.5°	0

3. **Lower Anchorage Marking and Conspicuity:** Whether the anchorages are certified with S15.4 of FMVSS No. 225. If guidance fixtures are used, provide the location of the seating systems that are equipped with the guidance fixture.

Yes. By design (drawing requirement) this vehicle is certified to the requirements of section S15.4 of FMVSS 225. No guidance fixtures were used.

4. **Location of Tether Anchorage:** Applicable section of FMVSS No. 225 for the option used for its certification.

The location of tether anchorages was certified to section S6.2.1 of FMVSS 225.

5. **Number of Tether Anchorage:** Applicable section of FMVSS No. 225 for the option used for its certification

The number of tether anchorages was certified to section S4.4(a) of FMVSS 225.