

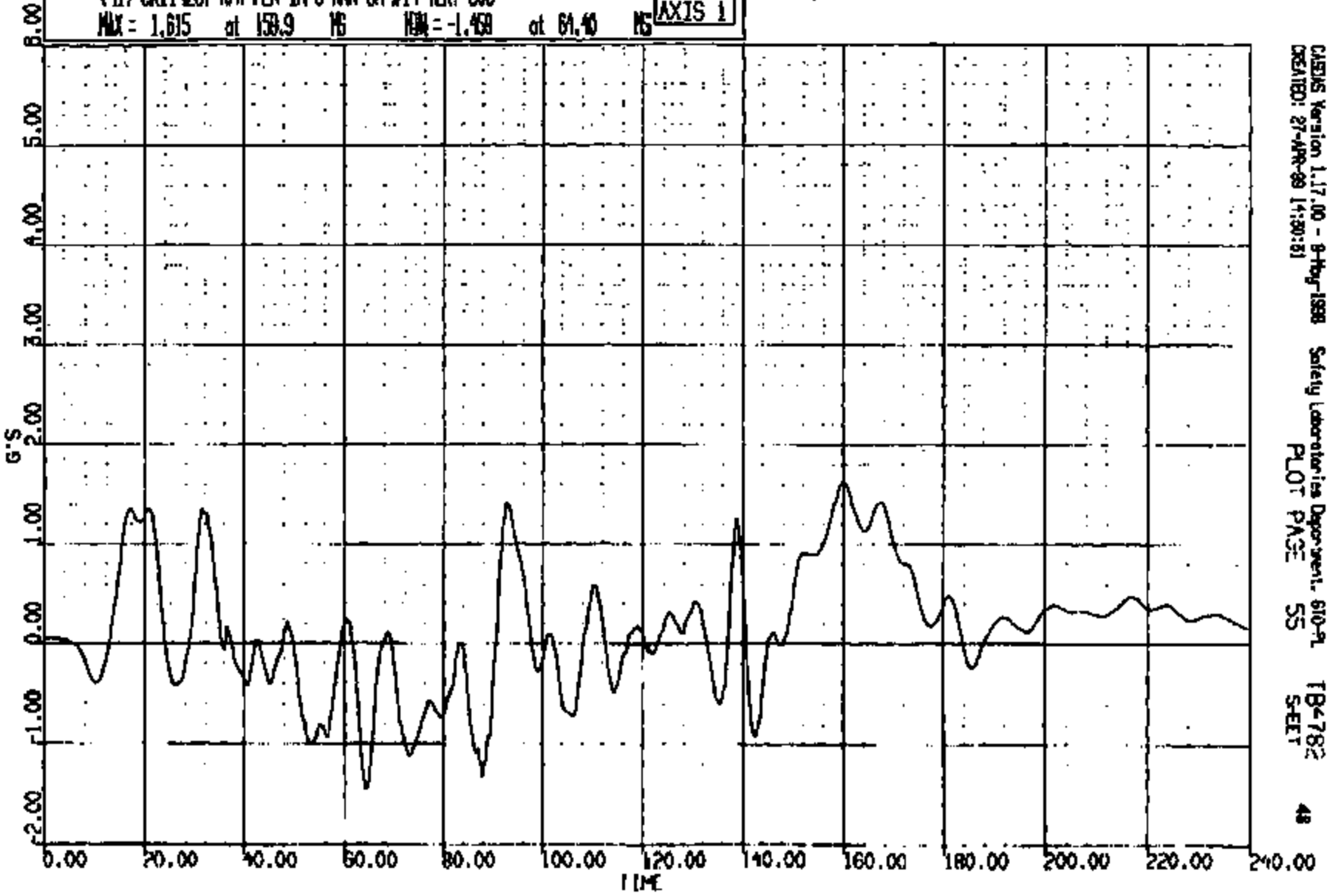


CR R: 11426 TO: TB4782 DATE: 990427 14:05:39
20005 FN-145LWB MOVING DEFORMABLE BA

(4) CR11426T R/A-PLR IN @ ROR SM #14 VERT GOC

MAX = 1.615 at 159.9 MS MIN = -1.458 at 61.40 MS

AXIS 1



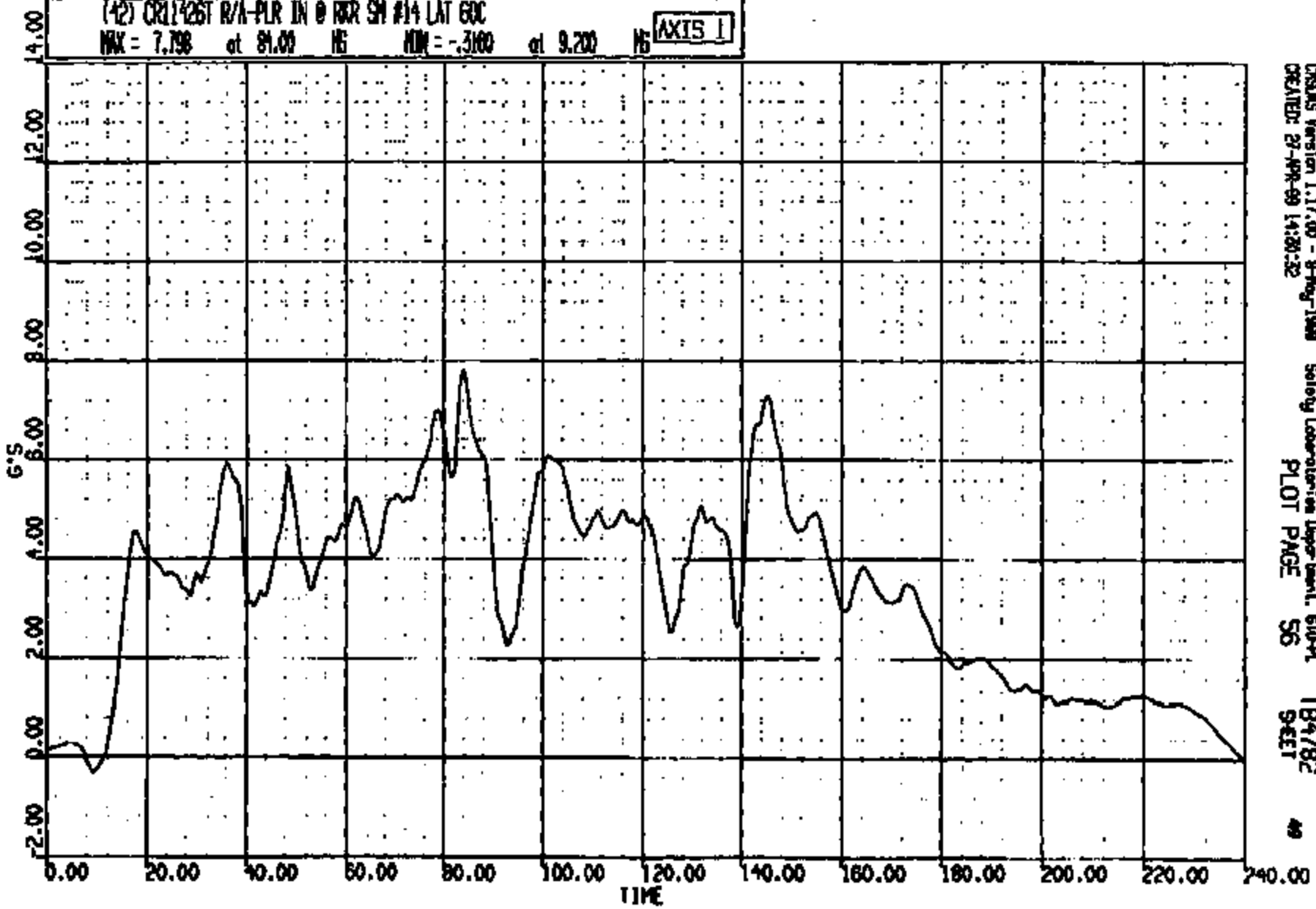
CASIS Version 1.17.00 - 9-May-1998 Safety Laboratories Department, 610-91
CREATED: 27-Apr-99 14:30:31 PLOT PAGE 55 TB4782 48
SHEET

ENTIRE PAGE CONFIDENTIAL

CRIS 0011426

CR R: 11426 TO: TB4782 DATE: 990427 14:05:39
20006 FN-145LWB MOVING DEFORMABLE BA

(42) CR11426T R/A-PLR IN @ RKR SN #14 LAT GOC
MAX = 7.798 at 81.00 NS MIN = -3.100 at 9.200 NS **AXIS 1**



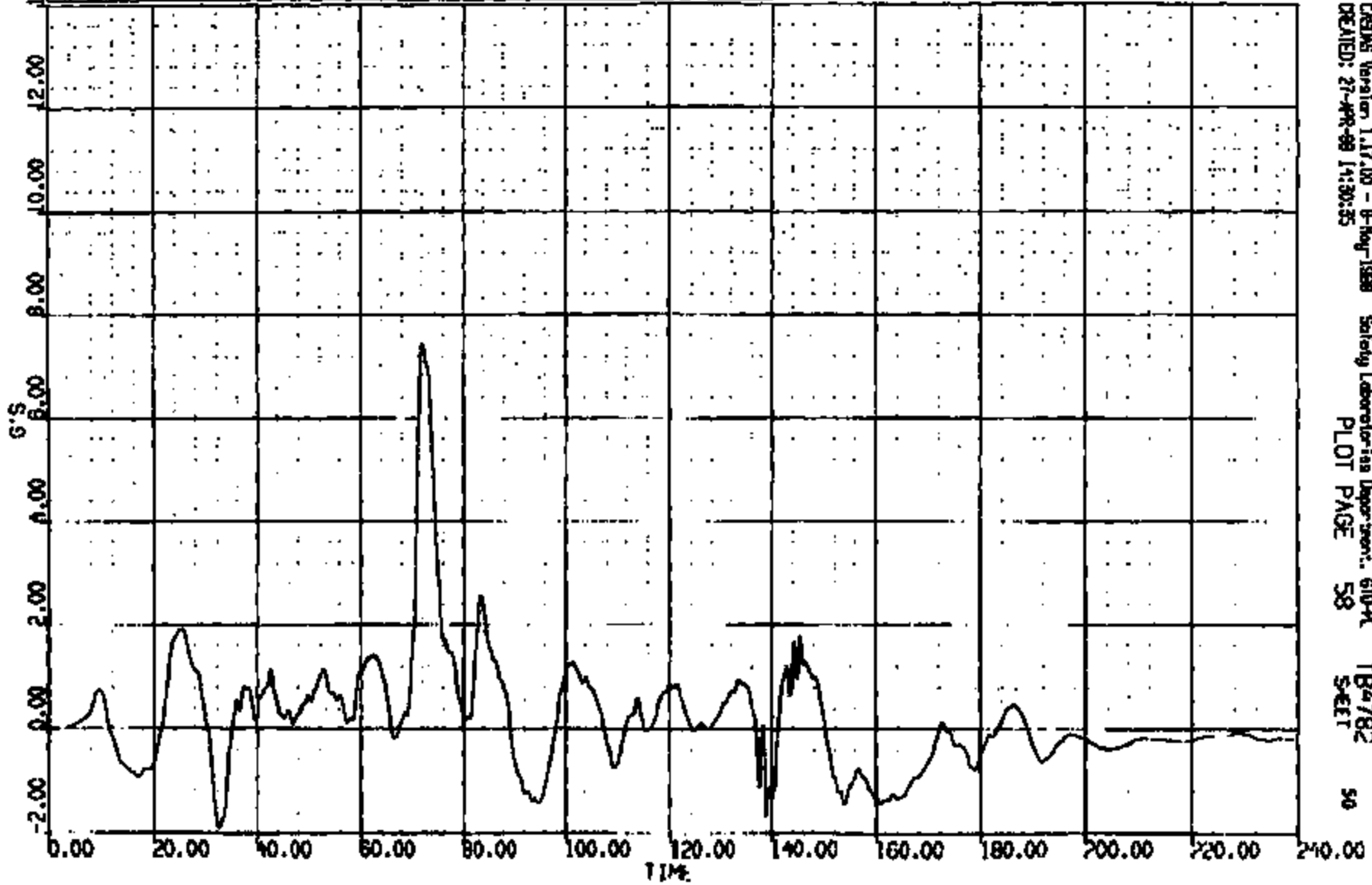
CRSUS Version 1.17.00 - 8-May-1998 Safety Laboratory Department, 610-A TB4782 49
CREATED: 27-Apr-99 14:05:32 PLOT PAGE 56 SECT

CRIS 0011426

ENTIRE PAGE CONFIDENTIAL

007 R: 11426 TO: TB4782 DATE: 880427 14105:39
00008 FN-145LWB MOVING DEFORMABLE SA

(44) CR114261 R/LDPAW @ #2 XMR CTR #10 LONG SOC
MAX = 7.433 at 72.00 MS MIN = -1.911 at 82.40 MS **AXIS 1**



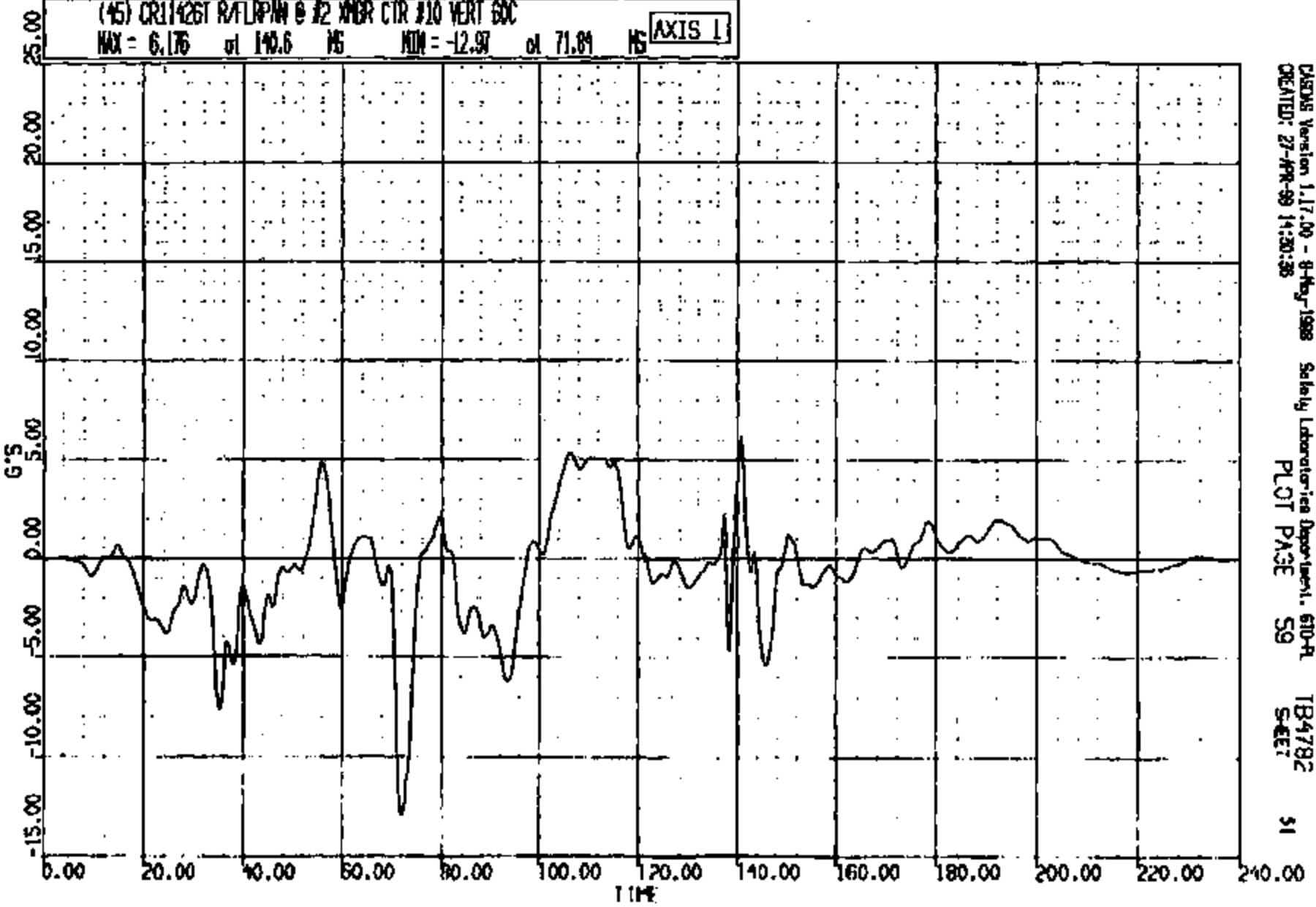
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CREATED: 27-APR-88 14:30:35 PLOT PAGE 58 SHEET 50

CRIS 0011426

ENTIRE PAGE CONFIDENTIAL

CR R: 11426 TO: TB4782 DATE: 890427 14:05:38
20006 FN-146LWB MOVING DEFORMABLE SA

(45) CR11426T R/LP/W @ #2 W/BR CTR #10 VERT 60C
MAX = 6.176 of 140.6 MS MIN = -12.97 of 71.84 MS **AXIS 1**



CRS Version 1.17.00 - 9-May-1988
CREATED: 27-APR-89 14:30:38

Safety Laboratories Department, 610-R
PLOT PAGE 59

TB4782
S-LET

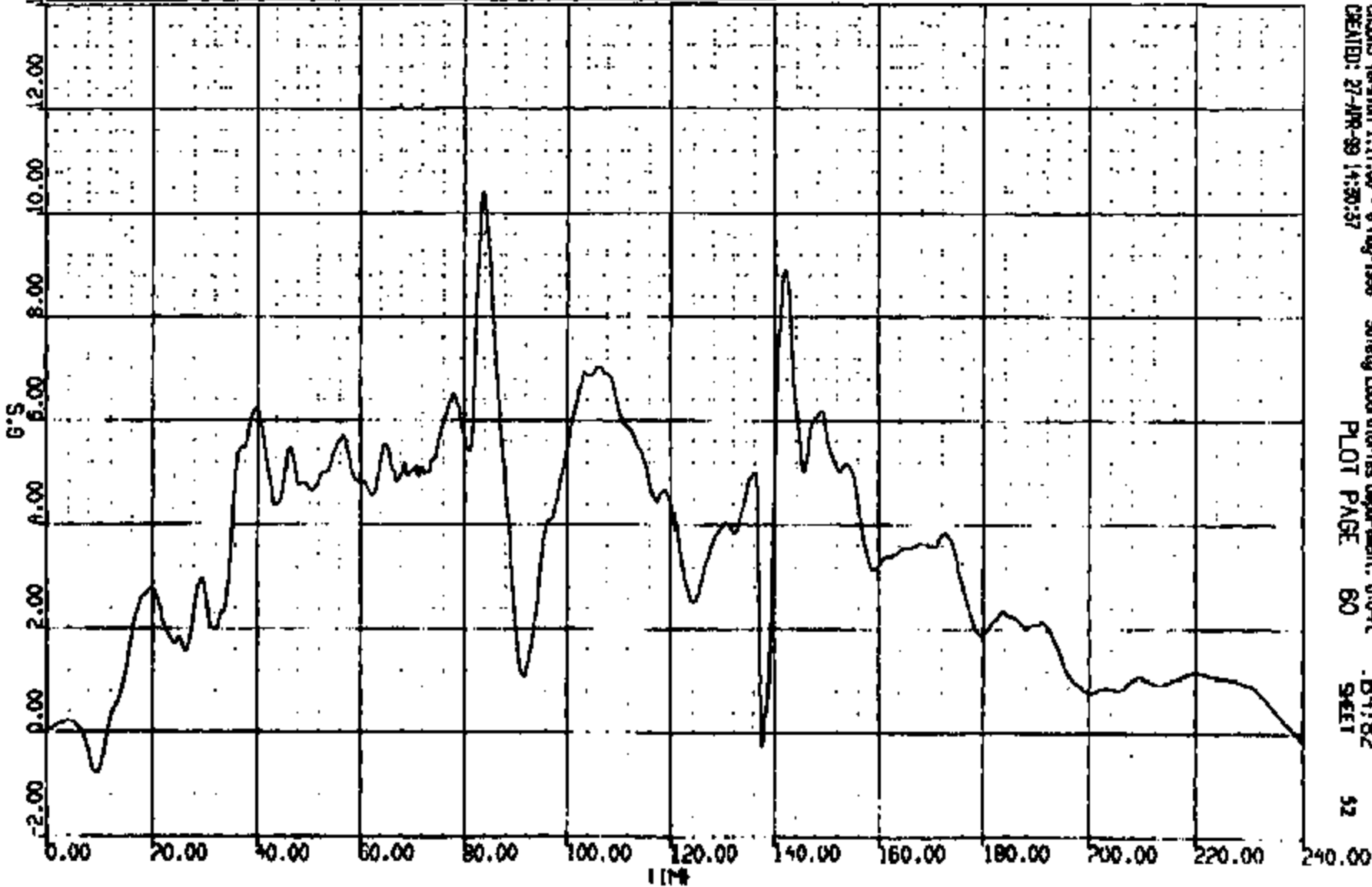
51

ENTIRE PAGE CONFIDENTIAL

CRIS 0011426

CCR #: 11426 TO: TB4782 DATE: 88-027 14:03:39
20006 FN-145LWB MOVING DEFORMABLE SA

(46) CR11426T R/FLRPN @ #2 XMR CTR #10 LAT 60C
MAX = 10.40 at 83.68 MS MIN = -.8132 at 9.440 MS **AXIS 1**



CRSIS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 610-PL
CREATED: 27-APR-88 14:30:37
PLOT PAGE 60 SHEET 52

ENTIRE PAGE CONFIDENTIAL

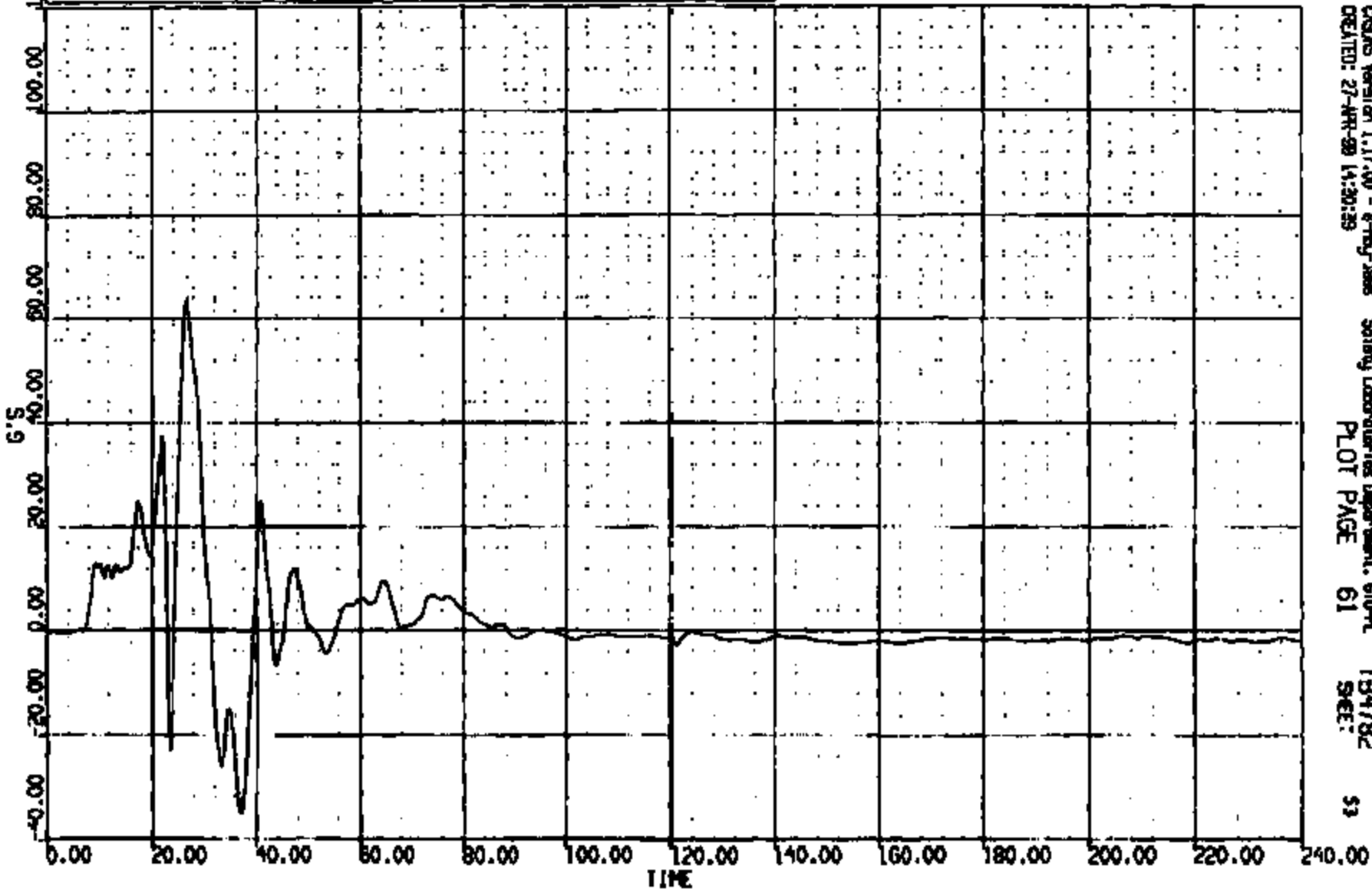
CRIS 0011426

CR R: 11426 TO: TB4782 DATE: 880427 14:06:39
2008 FN-146LWB MOVING DEFORMABLE SA

(47) CR11426T L/ROCKER @ FRONT SEAT MID LAT 60C

MAX = 63.37 at 26.72 MS MIN = -35.38 at 37.04 MS

AXIS 1



CRASH Version 1.17.00 - 8-Feb-1988
CREATED: 27-APR-88 14:30:39

Safety Laboratories Department, 610-A
PLOT PAGE 61

TB4782
SEE:

53

ENTIRE PAGE CONFIDENTIAL

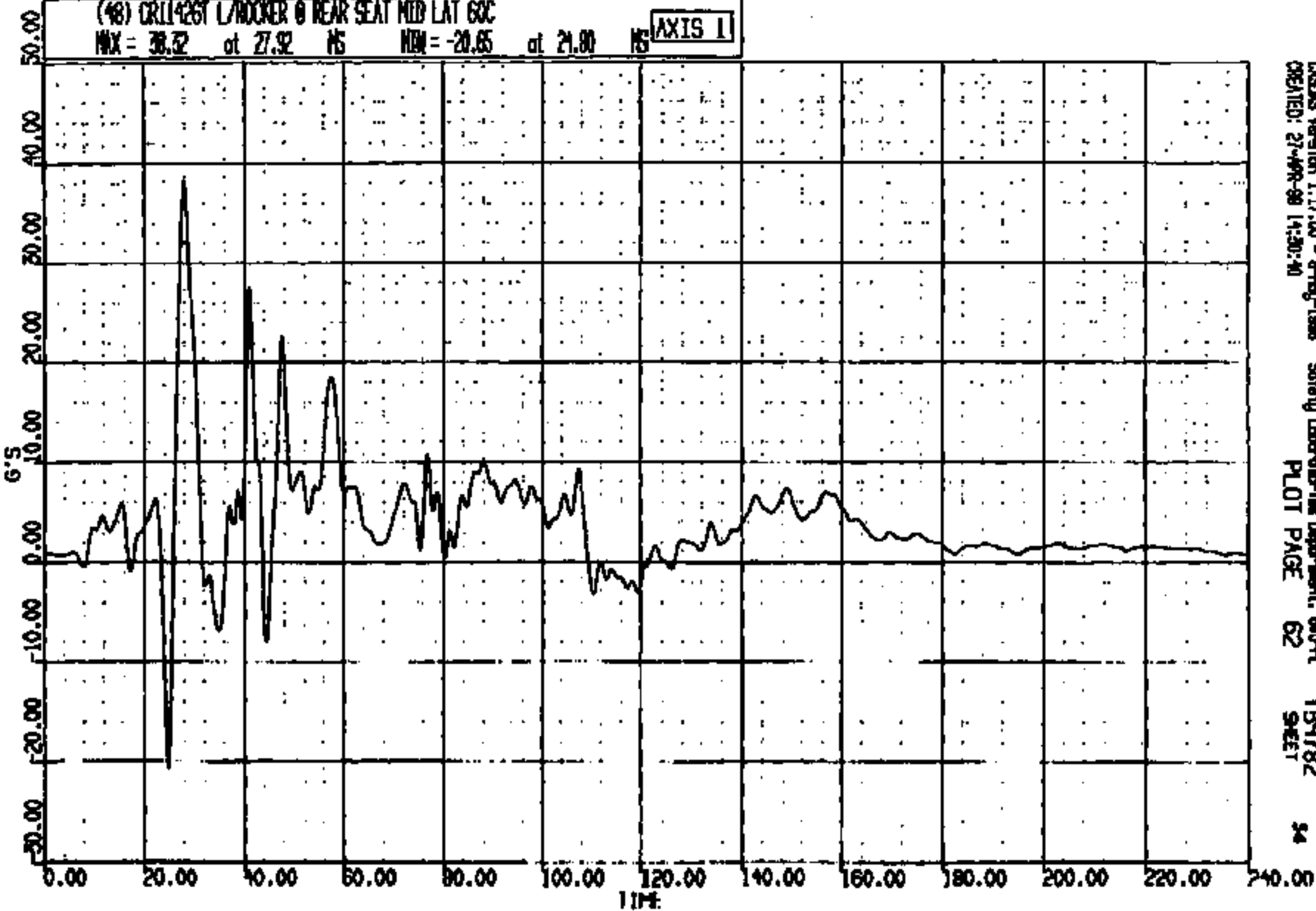
CRTS 0011426

CR R: 11426 TO: TB4782 DATE: 990427 14:05:59
20008 FN-146LMB MOVING DEFORMABLE BA

(48) CR114261 L/HOOKER @ REAR SEAT MID LAT 60C

MAX = 38.32 at 27.32 MS MIN = -20.65 at 21.00 MS

AXIS 1



CRSMS Version 1.17.00 - 8-May-1998
CREATED: 27-APR-99 14:30:40

Safety Laboratory Department, 600-A
PLOT PAGE 62

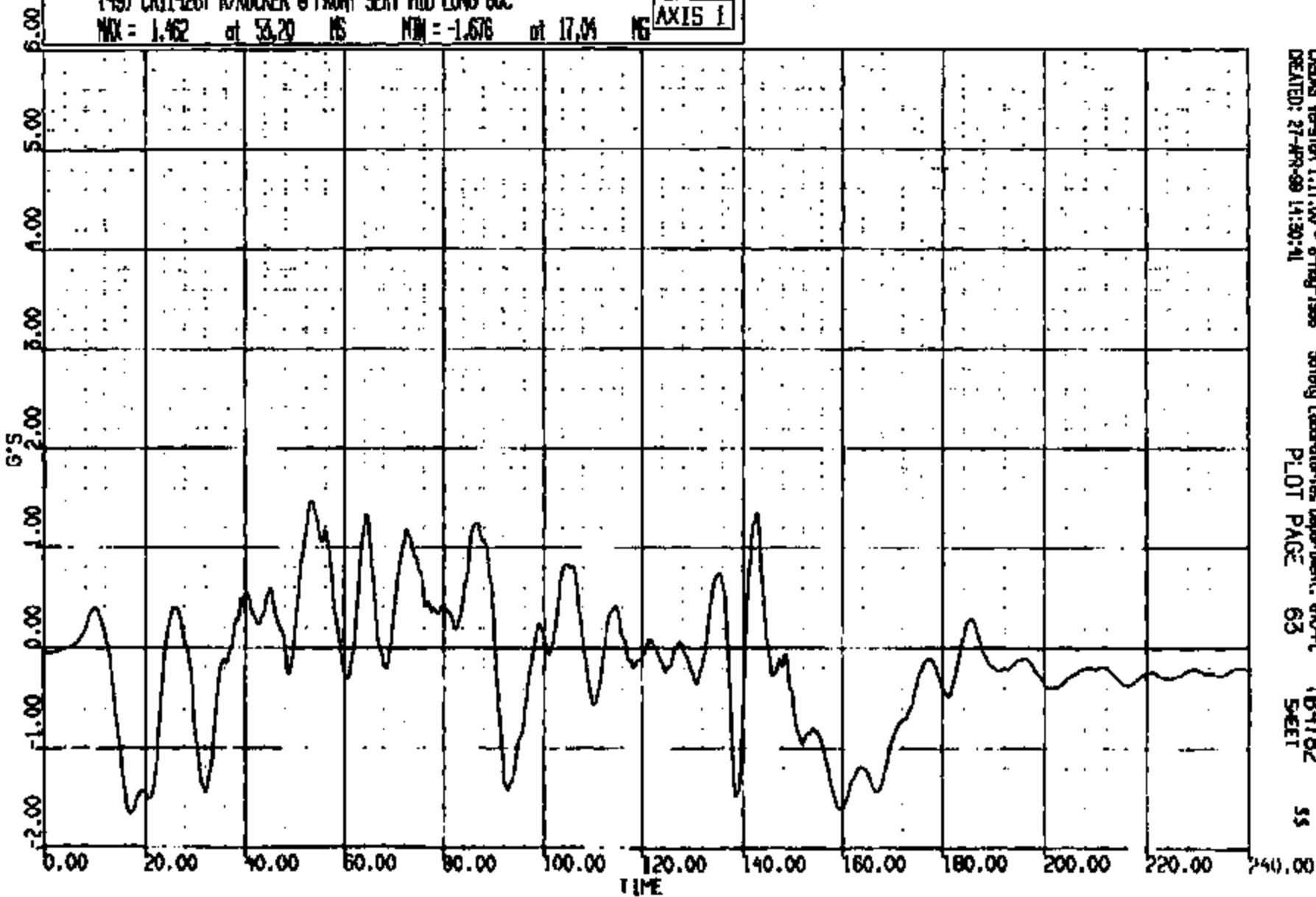
134782
SHEET 34

ENTIRE PAGE CONFIDENTIAL

CRIS 0011426

OR R: 11426 TO: TB4782 DATE: 880427 14:06:38
R0008 FN-148LHB MOVING DEFORMABLE SA

(49) CR114261 R/ROCKER @ FRONT SEAT MID LONG 60C
MAX = 1.462 at 53.20 MS MIN = -1.676 at 17.04 MS **AXIS 1**



CRENS Version 1.17.00 - 8-Aug-1988
CREATED: 27-APR-88 14:30:41

Sofology Laboratories Department, 610-94
PLOT PAGE 63

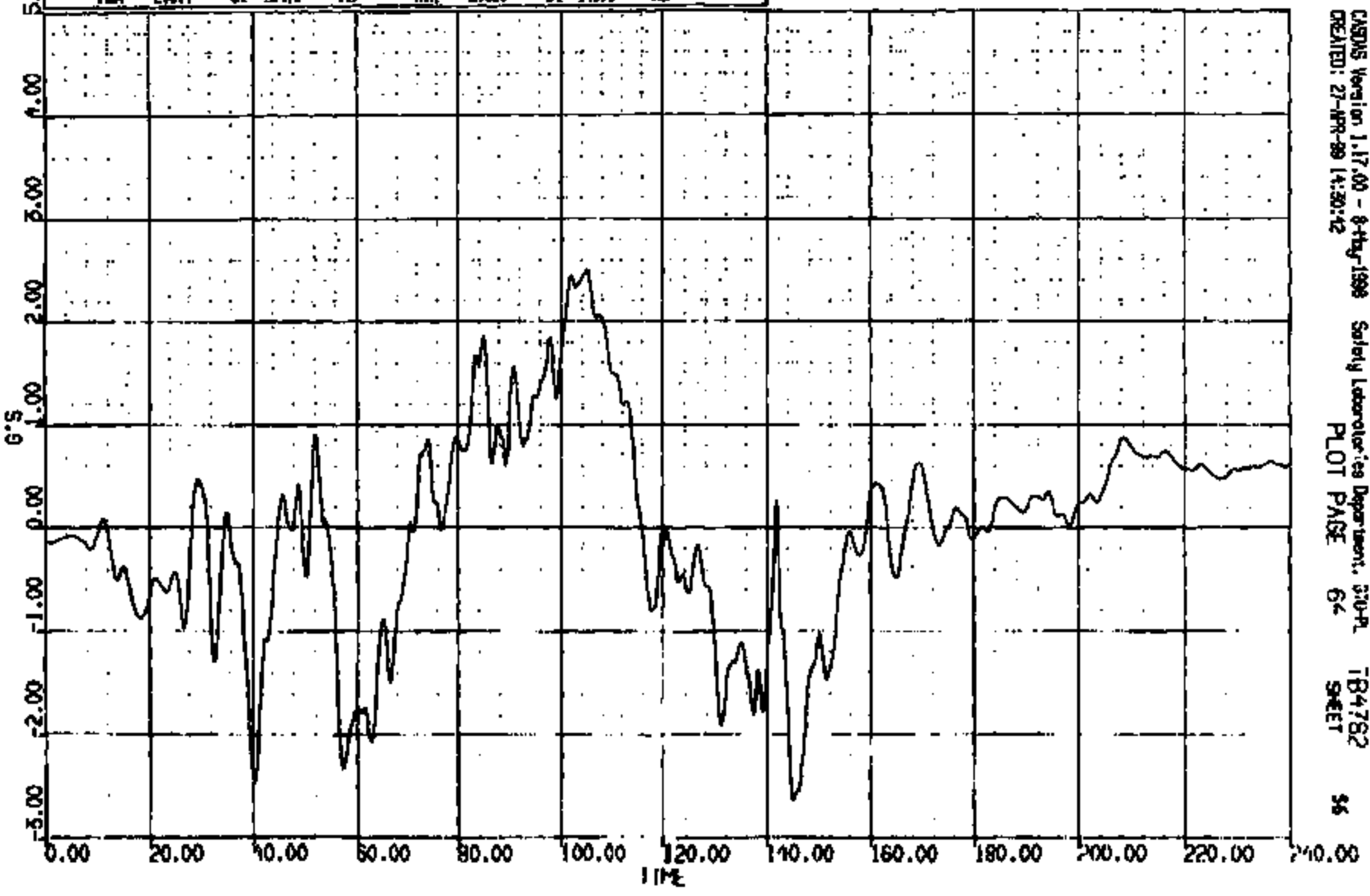
TB4782
SHEET 55

ENTIRE PAGE CONFIDENTIAL

CRIS 0011426

CR R: 11426 TO: TB4782 DATE: 880427 14:05:58
20005 FN-146LWB MOVING DEFORMABLE SA

(50) OR11426T R/ROCKER @ FRONT SEAT MID VERT GOC
MAX = 2.54 at 104.9 MS MIN = -2.660 at 145.0 MS **AXIS 1**



CASYS Version 1.17.00 - 8-Aug-1998 Safety Laboratories Department, 370-A
CREATED: 27-APR-88 14:30:42 PLOT PAGE 64 SHEET 56

ENTIRE PAGE CONFIDENTIAL

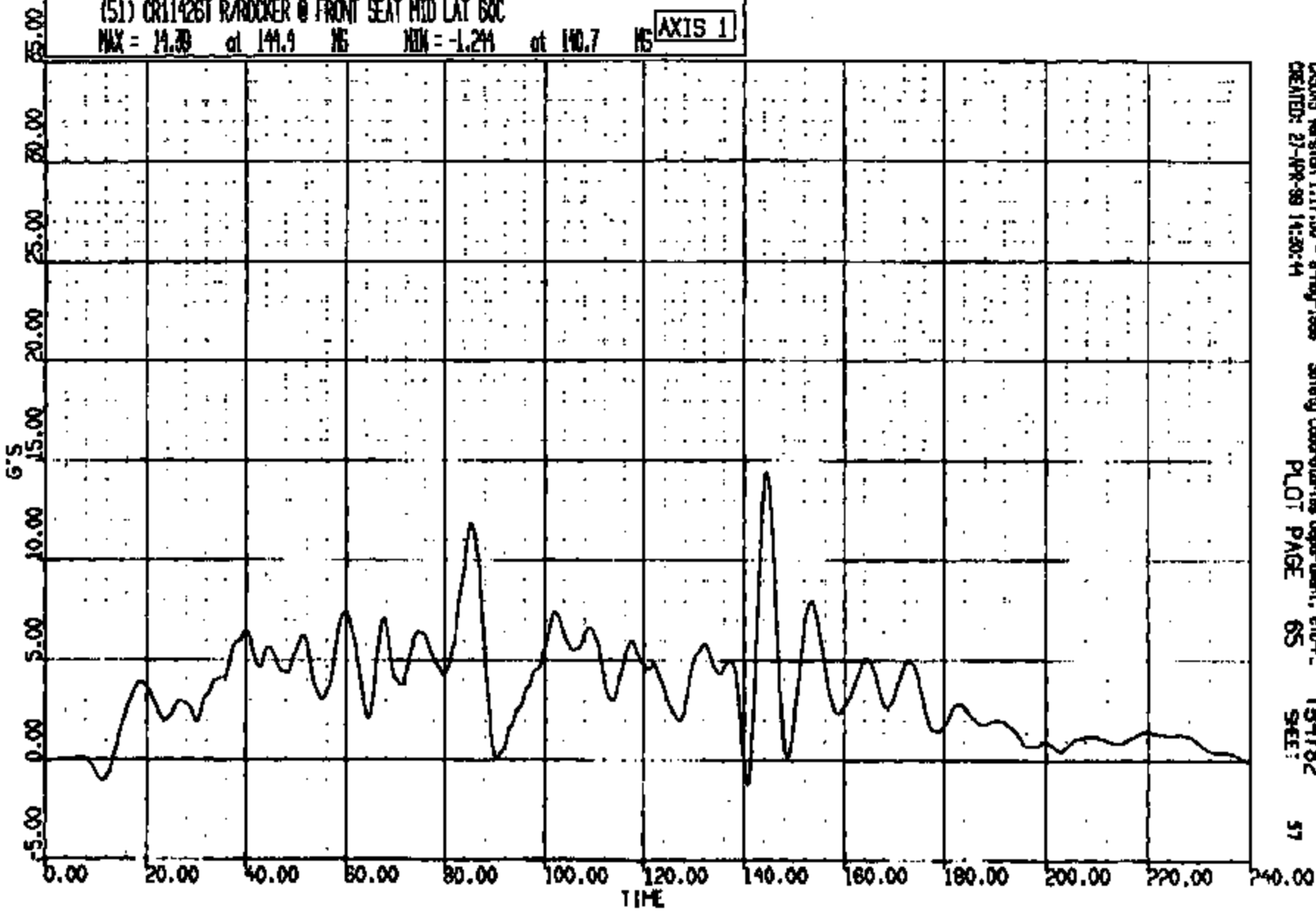
CRTS 0011426

OR R: 11426 TO: T84782 DATE: 990427 14:05:39
20006 FN-146LWB MOVING DEFORMABLE BA

(51) CR114261 R/ROCKER @ FRONT SEAT MID LAT 60C

MAX = 14.39 at 141.9 MS MIN = -1.244 at 140.7 MS

AXIS 1



CAEUS Version 1.17.00 - 8-May-1999 Safety Laboratories Department, ETRP
CREATED: 27-APR-99 14:30:44 PLOT PAGE 65 SHEET 57

ENTIRE PAGE CONFIDENTIAL

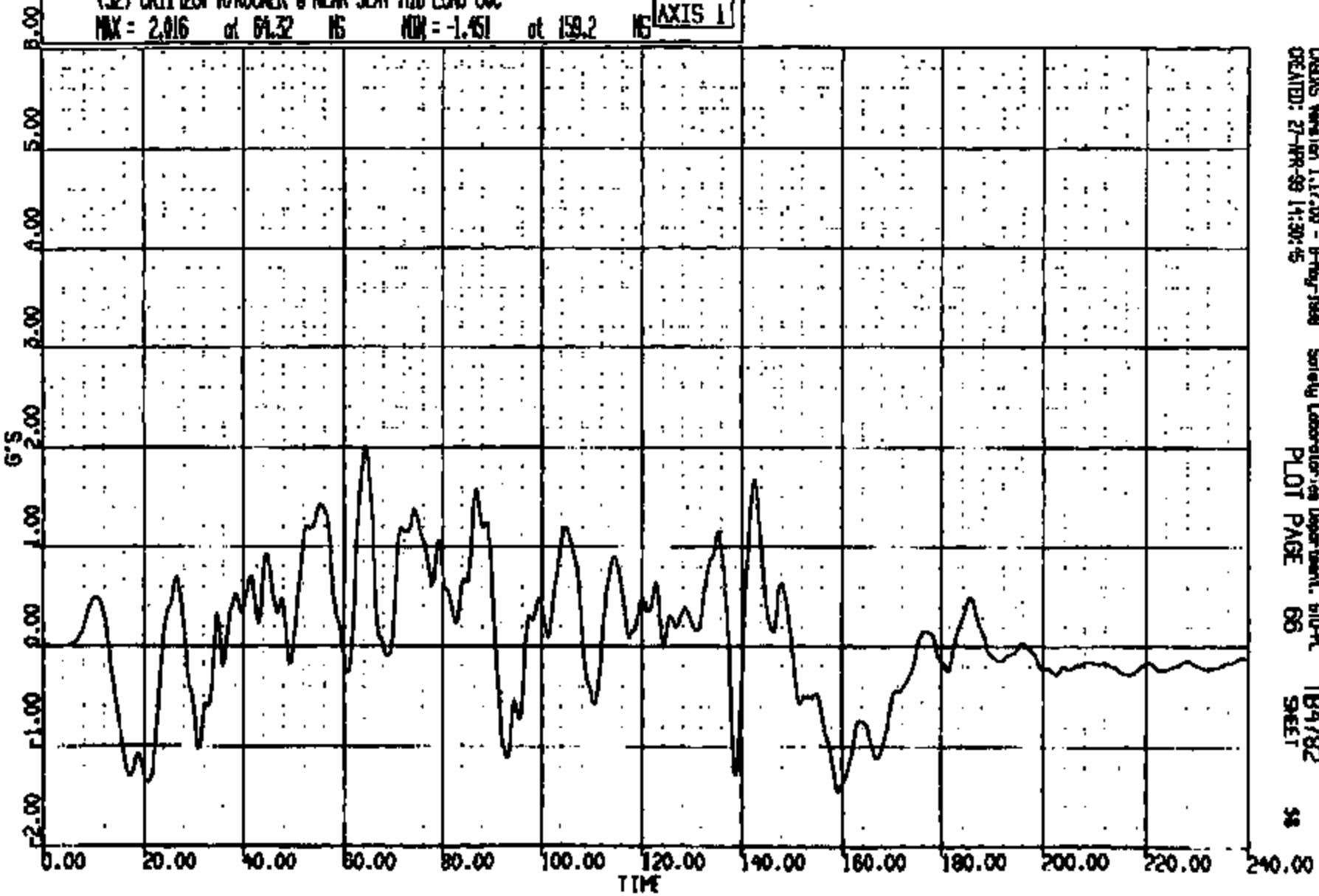
CR11426

CR R: 11426 TO: TB4782 DATE: 990427 14:05:59
20006 FN-145LWB MOVING DEFORMABLE BA

(52) CR11426T R/ROCKER @ NEAR SEAT MID LONG 80C

MAX = 2.016 at 69.32 MS MIN = -1.451 at 159.2 MS

AXIS 1



CAEUS Version 1.17.00 - 8-Aug-1988
CREATED: 27-APR-89 14:30:45

Safety Laboratories Department, 610-A
PLOT PAGE 66

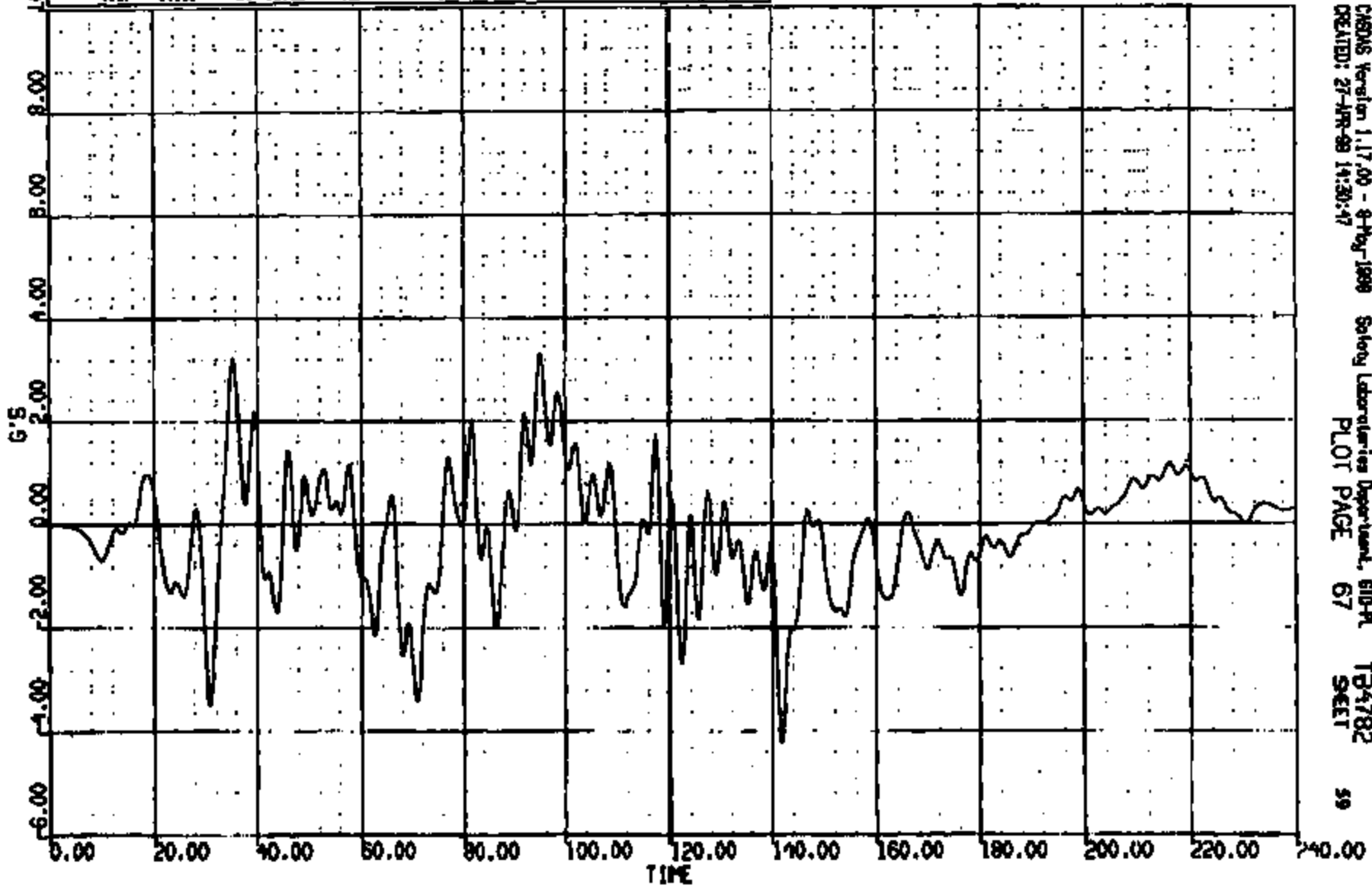
TB4782
SHEET 98

ENTIRE PAGE CONFIDENTIAL

CRIS 0011426

CR R: 11426 TO: T84782 DATE: 890427 14:05:39
20006 FN-145LMB MOVING DEFORMABLE BA

(53) CR11426T R/ROCKER @ REAR SEAT MID VERT 60C
MAX = 3.313 at 35.12 MS MIN = -4.235 at 141.8 MS **AXIS 1**



CASAS Version 1.17.00 - 8-16-1988 Safety Laboratories Department, 610-A
CREATED: 27-JUN-89 14:30:47 PLOT PAGE 67 SHEET 59

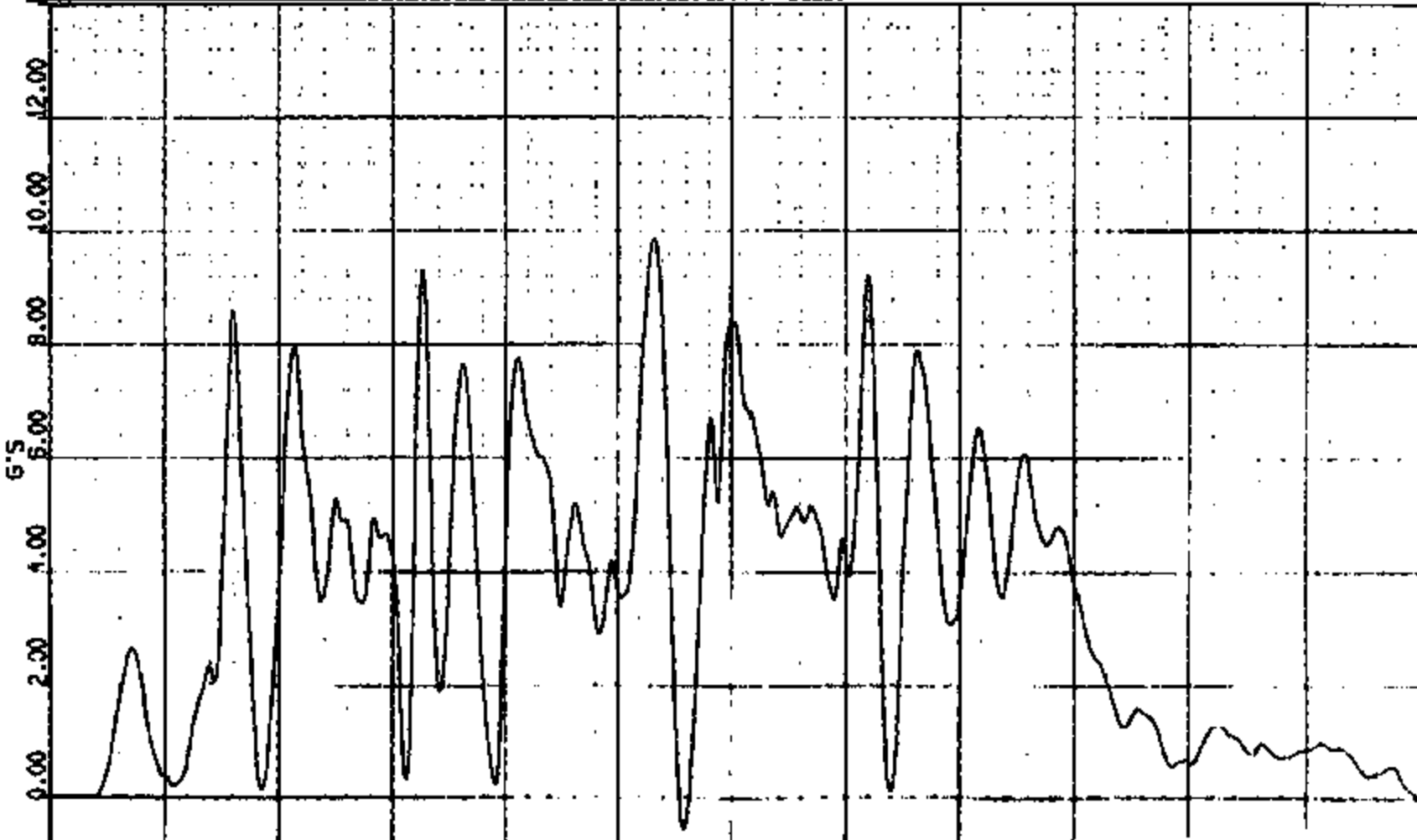
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CRTS 0011426

CR R: 11426 TO: TB4782 DATE: 990427 14:05:39
20005 FN-145LWB MOVING DEFORMABLE BA

CR R: 11426 TO: TB4782 DATE: 990427 14:05:39
20005 FN-145LWB MOVING DEFORMABLE BA

(54) CR11426T R/ROCKER @ REAR SEAT MID LAT 60C
MAX = 9.859 at 106.6 MS MIN = -5.482 at 111.7 MS **AXIS 1**



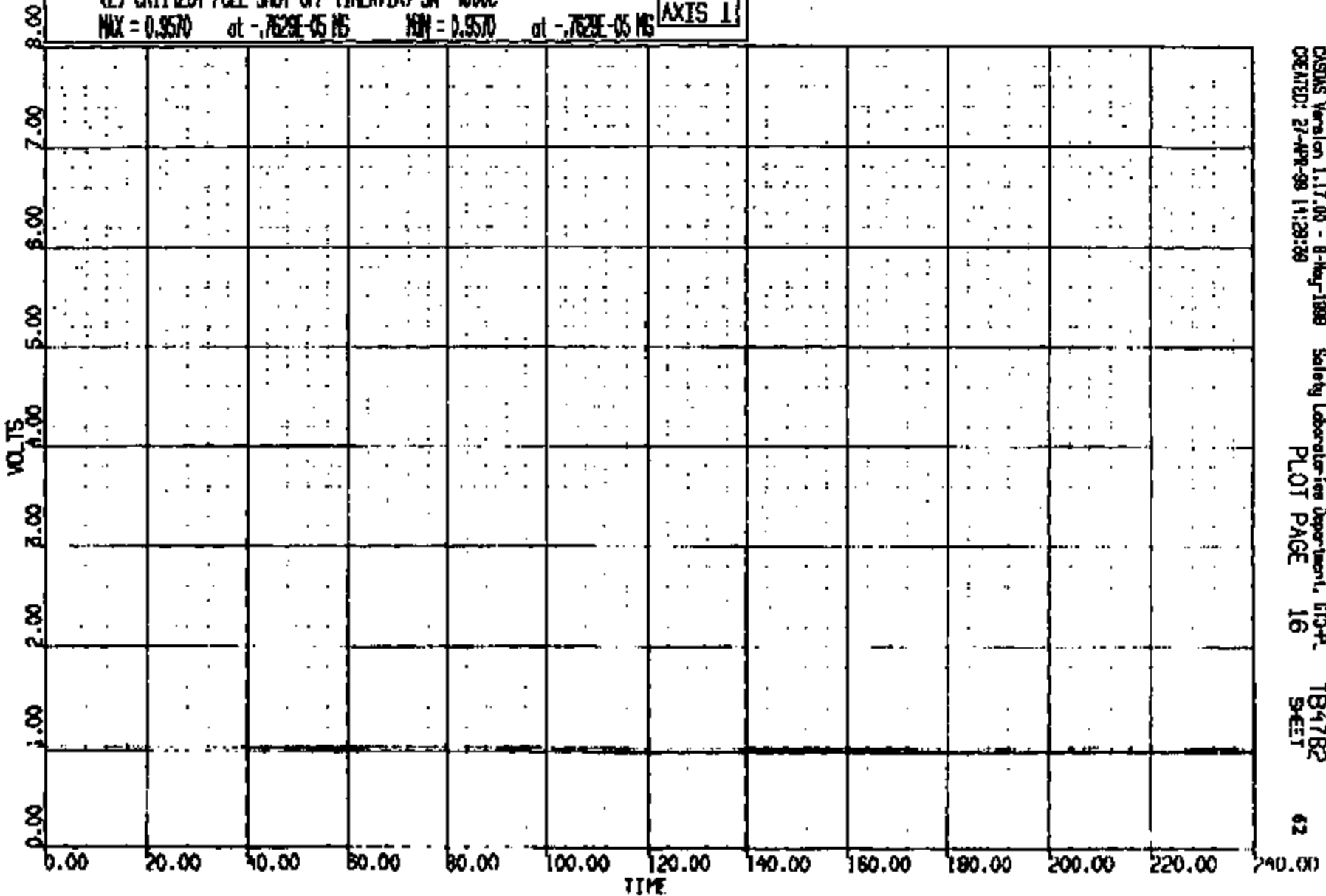
CASDS Version 1.17.00 - 8-May-1998 Safety Characteristics Department, 670-2
CREATED: 27-MAR-99 14:30:46 PLOT PAGE 68 782
541

ENTIRE PAGE CONFIDENTIAL

CR

CR R: 11426 TO: TB4782 DATE: 890427 14:05:58
00006 FZ-148LWB MOVING DEFORMABLE BA

(2) CR11426T FUEL SHUT OFF (INERTIA) SW 4000C
MAX = 0.9570 at -.7629E-05 MS MIN = 0.9570 at -.7629E-05 MS **AXIS 1**



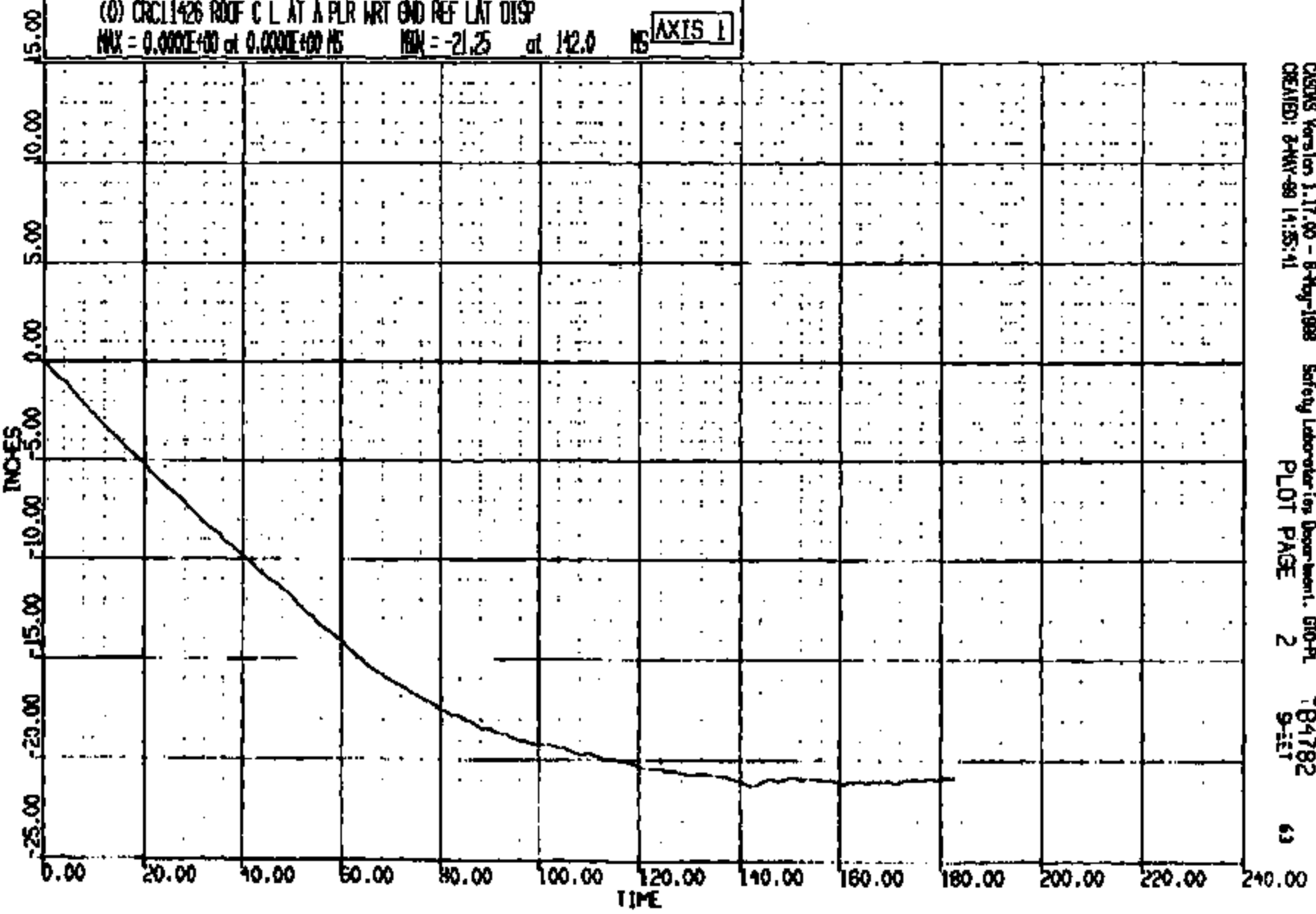
CRIS 0011426

CASIMS Version 1.17.00 - 8-Aug-1989 Safety Laboratories Department, DTIC-P
CREATED: 27-APR-98 14:29:28 PLOT PAGE 16 TB4782
SHEET 62

ENTIRE PAGE CONFIDENTIAL

CR R: 11426 TO: TB4782 DATE: 990427 14:05:39
20008 FN-145LWB MOVING DEFORMABLE BA

(0) CRCL1426 ROOF C L AT A PLR WRT END REF LAT DISP
MAX = 0.000E+00 at 0.000E+00 MS MIN = -21.25 at 142.0 MS **AXIS 1**



CRSUS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, GPO-PL 784782 63
CREATED: 8-MAY-99 14:55:41 PLOT PAGE 2 9:57

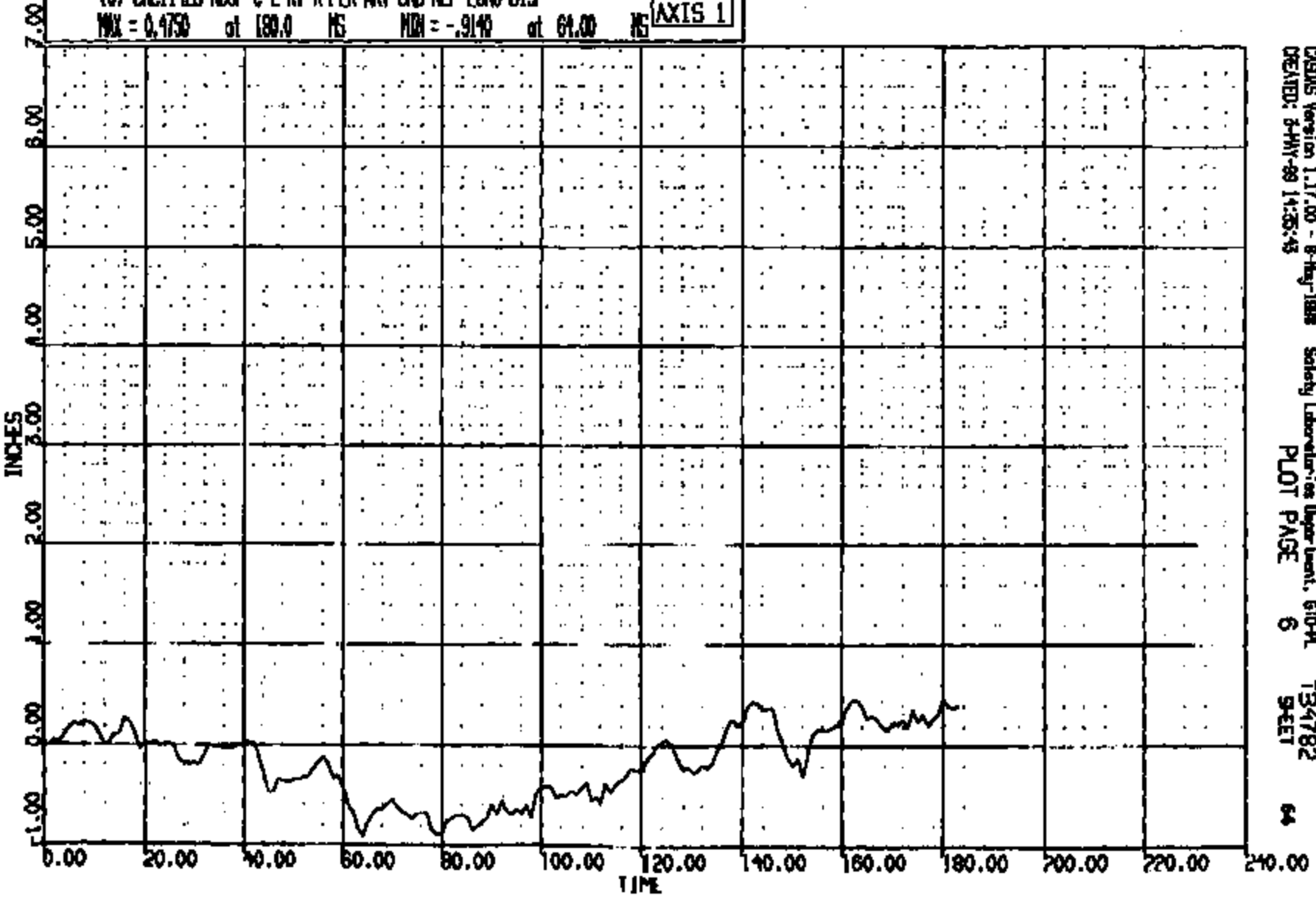
CRIS 0011426

ENTIRE PAGE CONFIDENTIAL

CR N: 11426 TO: TB4782 DATE: 990427 14:05:39
20006 FN-146LWB MOVING DEFORMABLE BA

(0) CR011426 ROOF C L AT A PLR WRT GND REF LONG DISP
MAX = 0.4750 at 130.0 MS MIN = -.9140 at 64.00 MS

AXIS 1



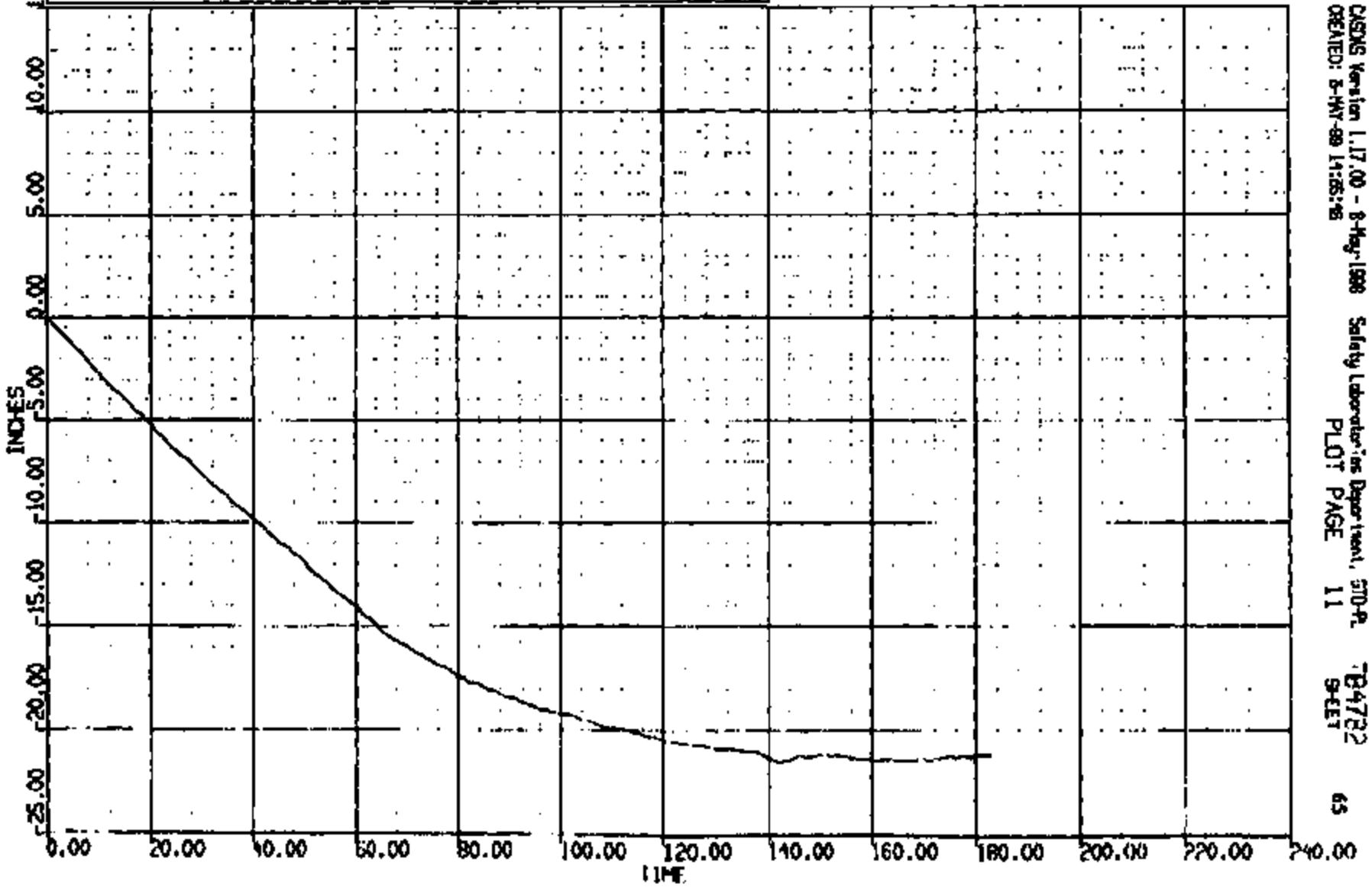
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CREATED: 8-MAY-99 14:35:45 PLOT PAGE 6 SHEET 64

CRIS 0011426

ENTIRE PAGE CONFIDENTIAL

CR R: 11426 TO: TB4782 DATE: 890427 14:05:39
20005 FN-146LWB MOVING DEFORMABLE BA

(0) CRC11426 ROOF C.L. AT B PLR WRT GND REF LAT DISP
MAX = 0.000E+00 at 0.000E+00 MS MIN = -21.57 at H2.0 NS **AXIS 1**



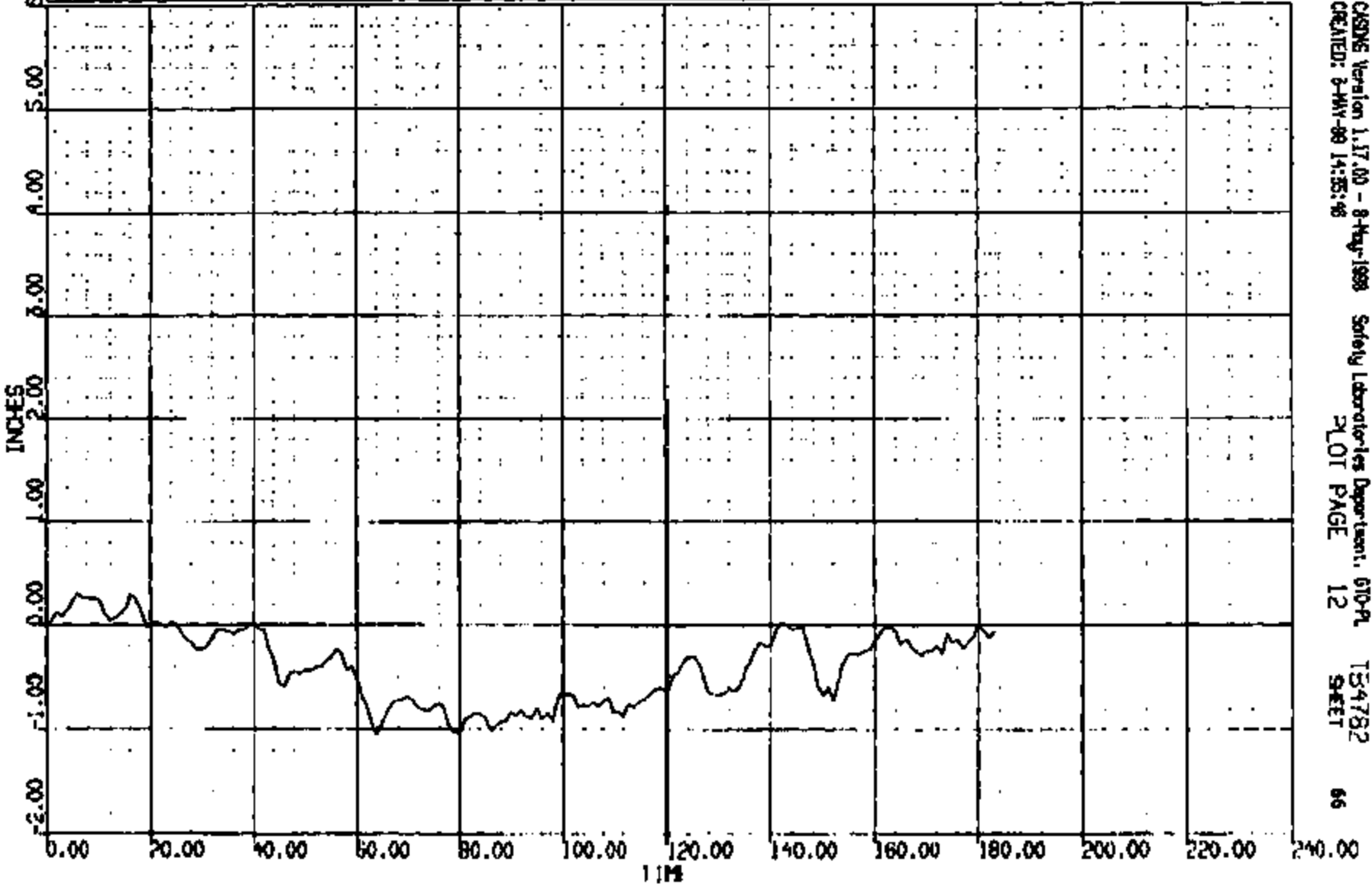
CASDS Version 1.17.00 - 8-May-1988 Safety Laboratories Department, STD-9
CREATED: 8-MAY-89 14:05:38 TB4782
PLOT PAGE 11 SHEET 65

CRTS 0011426

ENTIRE PAGE CONFIDENTIAL

CR R: 11426 TO: T84782 DATE: 990427 14:05:39
20005 FN-145LWB MOVING DEFORMABLE SA

(C) CR011426 ROOF C L AT B PLR WRY END REF LONG DISP
MAX = 0.3050 at 6.000 MS MIN = -1.451 at 64.00 MS **AXIS 1**



CRS005 Version 1.17.00 - 8-Aug-1999 Safety Laboratories Department, 610-PL T84782
CREATED: 8-MAY-99 14:35:46 PLOT PAGE 12 SHEET 66

CRIS 0011426

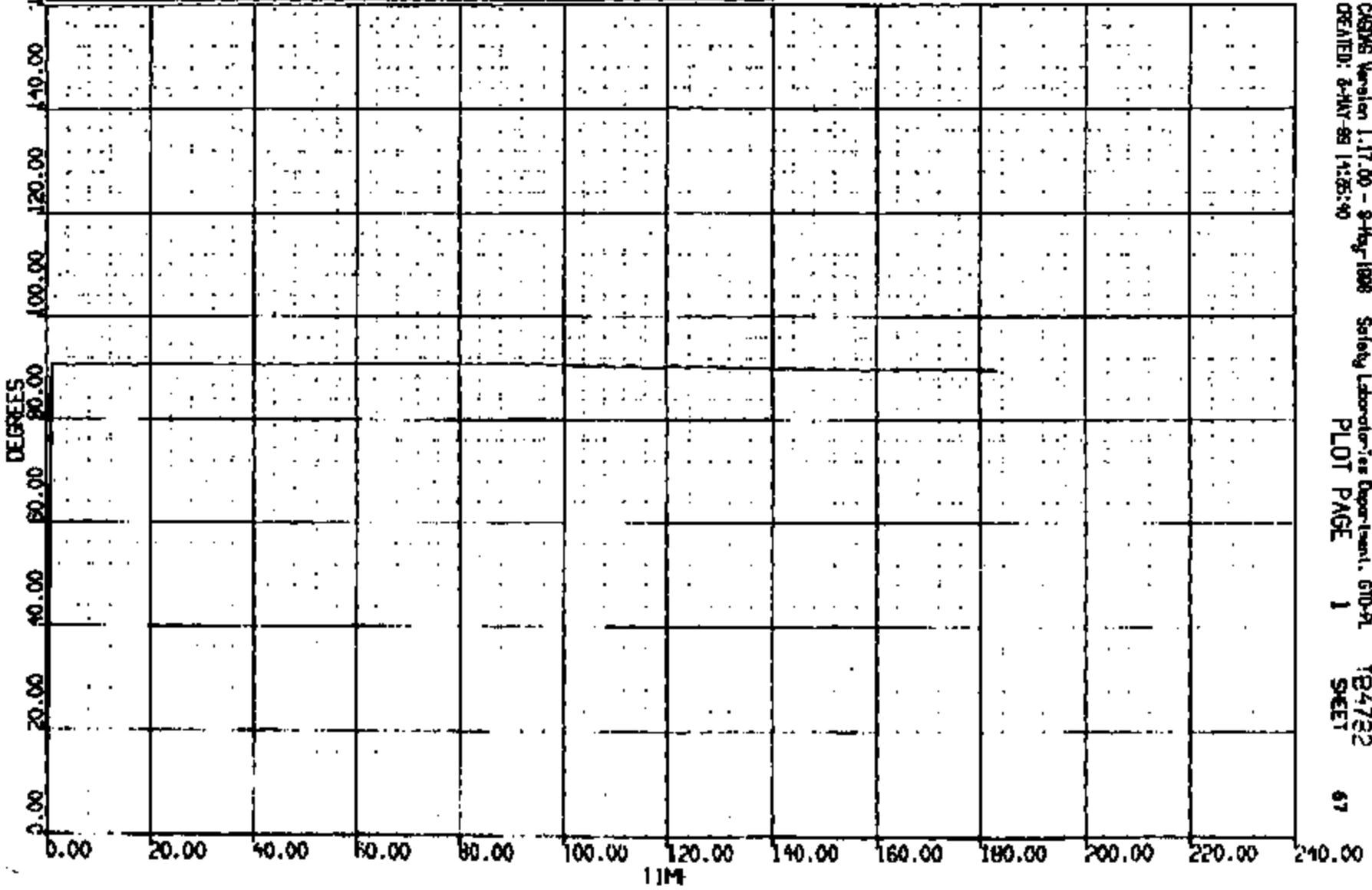
ENTIRE PAGE CONFIDENTIAL

CR R: 11426 TO: TB4782 DATE: 990427 14:05:39
20005 FN-145LWB MOVING DEFORMABLE SA

(0) CRCL1426 ROOF C.L. WRT END REF ANGLE

MAX = 91.93 at 87.00 MS MIN = 0.000E+00 at 0.000E+00 MS

AXIS 1



CASMS Version 1.17.00 - 9-May-1998 Safety Laboratories Department, 610-91
CREATED: 8-MAY-99 14:25:40 PLOT PAGE 1 SHEET 67

CRIS 0011426

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ASC TO #: T- 184782

DIMENSIONAL ANALYSIS REPORT

CRASH #: 11426

VEHICLE INFORMATION

TEST DESCRIPTION: 90 DEG. LEFT SIDE FIXED POLE
VEHICLE PROGRAM YEAR: 2000S
VEHICLE MODEL NAME: FN-145LWS
VEHICLE PROGRAM NAME: FN-145LWS
VEHICLE ID NUMBER: 306W669
CERTIFICATION VEHICLE CODE: DV
REQUESTOR NAME: J. WOENYAK
TEST ENGINEER NAME:

TIME AND DATE OF REPORT: 16-OCT-99 19:34:21

CRIS 0011426

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T-84782

ENTIRE PAGE CONFIDENTIAL.

UNIT NO	SIDE	PNT NO	DESCRIPTION	** POINT COORDINATES **			INCHES CHANGED						
				LONG X	LAT Y	VERT Z	X	Y	Z	D			
071			MISCELLANEOUS / SIDED										
	L	07	CONTROL NOTCH/HOLE C/L SET DR/SIDE MEAS./PASS	REF AFT	124.44	-30.40	14.75						
	R	07	CONTROL NOTCH/HOLE C/L SET DR/SIDE MEAS./PASS	REF AFT	124.52	30.45	14.72						
074			CMR POSITIONING REF.										
		43	CMR FRONT DOOR A PILLAR ROCKER OSIDE OF IMPAC	REF AFT	101.60	-33.27	19.14						
		44	CMR FRONT DOOR ROCKER ON PILLAR OSIDE OF IMP	REF AFT	124.79	-33.08	19.25						
		53		REF AFT	101.27	33.34	19.17						
		54		REF AFT	124.53	33.25	19.27						
090			N/CONT. NOTCH & PTS/PT										
		23	FRONT ALIGNMENT POINT "B"	REF AFT	64.03 63.66	33.89 34.27	40.56 40.40	-0.37	0.38	-0.26	0.59		
		23	REAR ALIGNMENT POINT "B"	REF AFT	104.44 106.45	33.89 34.27	44.65 45.02	0.01	0.38	0.34	0.31		
411			TOP (ROW) ROW SIDED										
		01	EXTRA SET UP POINT (LEFT FOREMOST FRAME)	REF AFT	36.64 38.70	-22.53 -23.61	22.41 22.41	2.06	-1.08	0.00	2.33		
		02	EXTRA SET UP POINT (RIGHT FOREMOST FRAME)	REF AFT	36.69 36.77	22.43 21.64	22.01 22.03	0.08	-0.99	0.03	0.99		

* VALUE HAS TRANSLATED

TIME AND DATE OF REPORT: 16-OCT-99 19:34:23

PAGE 1

PNT NO	SIDE	PNT NO	DESCRIPTION	** POINT COORDINATES **			INCHES CHANGED				
				LONG X	LAT Y	VERT Z	X	Y	Z	D	
		03	EXTRA SET UP POINT (LEFT REARMOST FRAME)	BEP APT	232.41	-25.55	21.18				
		04	EXTRA SET UP POINT (RIGHT REARMOST FRAME)	BEP APT	232.50	25.43	21.14				
		26	"H" POINT LOCATION ON OUTER FRT/OCCUPANT DOOR	BEP APT	121.31	-38.88	28.30				
		38	TOP OF ROCKER BILL IN LINE W/FRONT "H" PT.	BEP APT	121.29	-33.43	18.72				
		57	FRONT OCCUPANT SEAT C/L (WIDTH)	BEP APT	0.00	-15.58	0.00				
		84	"W.R.T." ON ROCKER SIDE OPPOSITE OF IMPACT	BEP APT	130.84	34.02	17.44	0.00	0.00	0.00	0.00
412			TOP (BODY) SIDED POINTS								
L		09	END OF FRONT SPINDLE & CENTERLINE (WHEELBASE)	BEP APT	63.26 65.44	-33.08 -33.09	18.06 15.89	2.18	-0.01	-2.17	3.08
R		09	END OF FRONT SPINDLE & CENTERLINE (WHEELBASE)	BEP APT	63.22 62.61	33.11 33.04	18.14 16.02	-0.61	-0.07	-2.12	2.21
L		16	LATCH/STRIKER BOLT SC/L OR U-BOLT/TOP OF PILLAR	BEP APT	126.74	-33.54	31.56				
R		16	LATCH/STRIKER BOLT SC/L OR U-BOLT/TOP OF PILLAR	BEP APT	128.79 123.37	33.43 34.92	31.62 34.64	-64.42	3.49	3.02	66.58
L		18	LATCH/STRIKER BOLT SC/L OR U-BOLT/TOP OF PILLAR	BEP APT	175.14	-33.89	38.44				
R		18	LATCH/STRIKER BOLT SC/L OR U-BOLT/TOP OF PILLAR	BEP APT	175.24 175.27	33.92 34.12	38.66 38.82	0.03	0.21	0.16	0.27
L		29	END OF REAR SPINDLE & CENTERLINE (WHEELBASE)	BEP APT	187.12 185.88	-32.12 -32.08	16.93 16.18	-1.24	-0.76	-0.55	1.65

* VALUE WAS TRANSLATED

TIME AND DATE OF REPORT: 16-OCT-98 19:34:22

PAGE 2

UNIT NO	SIDE	PNT NO	DESCRIPTION	** POINT COORDINATES **			INCHES CHANGED				
				LONG X	LAT Y	VERT Z	X	Y	Z	D	
1		89	END OF BEAR SPINDLE @ CENTERLINE (MOULDBASE)	BEF	187.15	31.88	17.13	-0.49	-0.91	-2.01	2.26
				AFT	186.66	30.97	15.12				
650			BLANK UNIT POINTS								
		01	1	SEE COMMENTS PAGE	BEF	98.42	-32.20	29.75			
					AFT						
		02	2	SEE COMMENTS PAGE	BEF	110.33	-32.06	40.47			
					AFT						
		03	3	SEE COMMENTS PAGE	BEF	118.06	-32.40	32.15			
					AFT						
		04	4	SEE COMMENTS PAGE	BEF	125.96	-31.91	29.65			
					AFT						
		05	5	SEE COMMENTS PAGE	BEF	136.07	-22.55	38.30			
					AFT						
		06	6	SEE COMMENTS PAGE	BEF	131.71	-30.46	41.08			
					AFT						
		07	7	SEE COMMENTS PAGE	BEF	129.33	-30.55	21.42			
					AFT						
		08	8	SEE COMMENTS PAGE	BEF	134.88	-31.82	40.62			
					AFT						
		09	9	SEE COMMENTS PAGE	BEF	166.81	-32.56	37.12			
					AFT						
		10	10	SEE COMMENTS PAGE	BEF	123.18	-15.34	14.43			
					AFT						
		11	11	SEE COMMENTS PAGE	BEF	123.26	15.49	14.82			
					AFT						
		12	12	SEE COMMENTS PAGE	BEF	91.95	0.32	26.47			
					AFT						

* VALUE WAS TRANSLATED

TIME AND DATE OF IMPORT: 16-OCT-99 19:36:24

PAGE 7

UNIT NO	SIDE	ENT NO	DESCRIPTION	** POINT COORDINATES **			INCHES CHANGED				
				LONG X	LAT Y	VERT Z	X	Y	Z	D	
		13	SEE COMMENTS PAGE	REP AFT	84.36	30.10	22.44				
		14	SEE COMMENTS PAGE	REP AFT	89.82	30.02	21.30				
		15	SEE COMMENTS PAGE	REP AFT	119.65	28.35	26.61				
		16	SEE COMMENTS PAGE	REP AFT	121.68	-0.21	28.95				
		17	SEE COMMENTS PAGE	REP AFT	93.58	-30.41	15.03				
		18	SEE COMMENTS PAGE	REP AFT	163.78	-30.49	14.91				
		19	SEE COMMENTS PAGE	REP AFT	93.87 93.69	30.24 30.10	15.07 15.07	-0.18	-0.14	0.00	0.23
		20	SEE COMMENTS PAGE	REP AFT	164.37 164.32	30.31 30.24	15.10 15.10	-0.05	-0.07	0.00	0.09
		21	SEE COMMENTS PAGE	REP AFT	114.97	-32.16	15.49				
		22	SEE COMMENTS PAGE	REP AFT	163.60	-32.08	15.31				
		23	SEE COMMENTS PAGE	REP AFT	116.03	32.53	15.76				
		24	SEE COMMENTS PAGE	REP AFT	163.00	31.74	15.45				

* VALUE WAS TRANSLATED

TIME AND DATE OF REPORT: 16-OCT-99 19:34:24

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** SECTIONALS **

UNIT NO	SCEN NO	SIDE	SEQ NO	NAME AND CRASH STATUS	X	Y	Z
421	81			ROOF LINE EXTERIOR SECT			
			1	BEFORE	92.70	-31.68	46.07
			1	AFTER	94.97	-30.15	45.99
			2	BEFORE	103.32	-28.41	53.52
			2	AFTER	105.49	-25.92	54.00
			3	BEFORE	113.90	-24.26	59.75
			3	AFTER	115.10	-24.70	61.25
			4	BEFORE	120.96	-22.15	61.58
			4	AFTER	119.58	-18.30	62.76
			5	BEFORE	143.90	-22.03	62.42
			5	AFTER	123.69	-16.89	62.96
			6	BEFORE	149.88	-22.08	62.46
			6	AFTER	129.77	-15.35	64.15
			7	BEFORE	173.79	-22.23	60.94
			7	AFTER	133.03	-14.44	63.44
			8	BEFORE	175.04	-24.00	60.16
			8	AFTER	134.82	-15.43	64.72
			9	BEFORE	179.31	-27.05	57.15
			9	AFTER	138.00	-14.90	64.56
			10	BEFORE	181.54	-29.48	53.87
			10	AFTER	140.06	-15.35	64.70
			11	BEFORE	183.41	-31.87	49.51
			11	AFTER	144.54	-16.80	64.86
			12	BEFORE	182.64	-34.59	44.03
			12	AFTER	151.10	-18.10	64.90
			13	BEFORE	160.54	-35.84	49.83
			13	AFTER	171.92	-20.62	62.77

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PAGE 1

** SECTIONALS **

LEFT NO	SECTN NO	SIDE	REQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			14	AFTER	173.20	-22.45	61.96
			15	AFTER	177.23	-25.74	58.74
			16	AFTER	179.42	-28.10	55.48
			17	AFTER	180.17	-30.58	51.14
			18	AFTER	180.49	-33.26	48.74

423 81

DETAILED EXTERIOR SECT

1	BEFORE	78.60	-34.91	41.34
1	AFTER	81.70	-34.18	41.67
2	BEFORE	78.98	-34.87	41.34
2	AFTER	87.35	-34.25	41.64
3	BEFORE	79.05	-34.94	41.34
3	AFTER	92.10	-34.39	41.64
4	BEFORE	89.09	-35.60	41.34
4	AFTER	93.35	-34.97	41.62
5	BEFORE	106.59	-36.37	41.34
5	AFTER	98.34	-33.87	41.67
6	BEFORE	121.37	-36.84	41.34
6	AFTER	108.47	-31.10	41.65
7	BEFORE	132.58	-36.91	41.34
7	AFTER	110.70	-27.17	41.70
8	BEFORE	143.87	-36.96	41.34
8	AFTER	116.10	-23.50	41.60
9	BEFORE	155.48	-36.91	41.34
9	AFTER	118.70	-21.66	41.70
10	BEFORE	168.88	-36.86	41.34
10	AFTER	121.06	-20.00	41.67

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** SECTIONALS **

UNIT NO	SCIN NO	SIDE	SEQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			11	BEFORE	181.84	-36.47	41.34
			11	AFTER	125.80	-19.20	41.70
			12	BEFORE	184.28	-36.38	41.34
			12	AFTER	128.90	-21.50	42.06
			13	AFTER	131.07	-22.70	42.00
			14	AFTER	131.55	-23.20	41.75
			15	AFTER	139.21	-25.80	42.04
			16	AFTER	151.27	-29.44	42.60
			17	AFTER	160.63	-32.18	42.93
			18	AFTER	172.65	-35.36	43.27
			19	AFTER	178.31	-37.03	43.53
			20	AFTER	179.97	-34.94	42.90
			21	AFTER	182.05	-35.13	43.03

425 81

MIDLINE EXTERIOR SECT

1	BEFORE	78.17	-37.57	31.50
1	AFTER	82.02	-34.84	31.62
2	BEFORE	78.08	-37.56	31.50
2	AFTER	90.37	-36.90	31.80
3	BEFORE	78.69	-37.50	31.50
3	AFTER	82.39	-37.52	31.77
4	BEFORE	78.62	37.53	31.50
4	AFTER	96.17	-35.54	31.97
5	BEFORE	87.17	-37.96	31.50
5	AFTER	105.05	-30.62	31.69

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** SECTIONALS **

UNIT NO	SCIN NO	SIDE	REQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
	6		6	BEFORE	102.97	-38.65	31.50
	6		6	AFTER	112.95	-26.38	31.44
	7		7	BEFORE	103.37	-38.52	31.50
	7		7	AFTER	117.42	-22.98	31.74
	8		8	BEFORE	103.71	-38.61	31.50
	8		8	AFTER	120.57	-20.53	31.68
	9		9	BEFORE	123.94	-39.08	31.50
	9		9	AFTER	123.48	-19.60	31.70
	10		10	BEFORE	143.63	-39.18	31.50
	10		10	AFTER	126.07	-20.23	31.94
	11		11	BEFORE	144.20	-39.18	31.50
	11		11	AFTER	129.77	-21.74	31.76
	12		12	BEFORE	164.95	-39.06	31.50
	12		12	AFTER	129.59	-22.61	31.70
	13		13	BEFORE	164.96	-39.04	31.50
	13		13	AFTER	130.20	-22.86	31.61
	14		14	BEFORE	176.67	-39.07	31.50
	14		14	AFTER	130.57	-24.46	32.03
	15		15	BEFORE	176.69	-39.06	31.50
	15		15	AFTER	131.40	-25.66	31.93
	16		16	AFTER	139.22	-28.60	32.34
	17		17	AFTER	149.50	-31.70	32.70
	18		18	AFTER	157.60	-34.10	32.88
	19		19	AFTER	169.34	-37.43	33.46
	20		20	AFTER	171.34	-37.00	32.70
	21		21	AFTER	174.96	-37.63	32.87

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** SECTIONS **

UNIT NO	SCEN NO	SIDE	SEQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
427	81			CHARACTER LINE KEY SECT			
			1	BEFORE	79.09	-37.33	23.63
			1	AFTER	82.22	-26.92	23.83
			2	BEFORE	87.39	-37.52	23.62
			2	AFTER	90.72	-36.36	23.87
			3	BEFORE	87.40	-37.52	23.62
			3	AFTER	92.61	-37.00	23.64
			4	BEFORE	87.40	-37.51	23.62
			4	AFTER	100.06	-33.90	23.70
			5	BEFORE	102.48	-27.98	23.62
			5	AFTER	108.60	-29.90	23.89
			6	BEFORE	120.80	-38.28	23.62
			6	AFTER	119.12	-37.24	23.81
			7	BEFORE	130.73	-38.29	23.62
			7	AFTER	118.08	-22.77	23.75
			8	BEFORE	126.35	-38.48	23.62
			8	AFTER	120.93	-26.86	23.79
			9	BEFORE	127.81	-28.18	23.62
			9	AFTER	129.54	-20.28	23.80
			10	BEFORE	127.80	-38.24	23.62
			10	AFTER	126.88	-20.93	23.81
			11	BEFORE	171.51	-38.07	23.62
			11	AFTER	130.19	-23.63	23.97
			12	AFTER	130.12	-24.89	23.96
			13	AFTER	149.87	-30.64	24.69
			14	AFTER	161.44	-38.88	25.28

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** SECTIONS **

UNIT NO	SCIN NO	SIDE	SEQ NO	NAME AND CRASH STATUS	INCHES		
					X	Y	Z
			7	BEFORE	128.63	-30.73	27.55
			7	AFTER	134.77	18.38	30.51
			8	BEFORE	135.01	-30.81	27.55
			8	AFTER	135.97	-20.17	28.70
			9	BEFORE	136.83	-32.03	27.56
			9	AFTER	143.83	-22.50	28.05
			10	BEFORE	143.83	-32.16	27.55
			10	AFTER	149.82	-24.47	28.39
			11	BEFORE	150.09	-31.93	27.55
			11	AFTER	154.52	-26.86	28.75
			12	BEFORE	155.55	-32.28	27.55
			12	AFTER	159.71	-28.77	28.07
			13	BEFORE	165.60	-32.28	27.55
			13	AFTER	163.92	-28.26	28.43

428 51

10T 60 FWD/STIGE FLAME

			1	BEFORE	90.55	-32.79	44.99
			1	AFTER	94.11	-32.92	18.51
			2	BEFORE	90.55	-32.79	45.04
			2	AFTER	94.42	-34.05	16.29
			3	BEFORE	90.55	-35.04	42.31
			3	AFTER	94.70	-34.92	17.50
			4	BEFORE	90.55	-37.92	35.17
			4	AFTER	94.04	-35.48	20.82
			5	BEFORE	90.55	-37.94	35.19
			5	AFTER	95.21	-36.35	25.84
			6	BEFORE	90.55	-37.99	34.91
			6	AFTER	95.13	-36.20	29.67

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** SECTIONALS **

UNIT NO	SCIN NO	SIDE	SEQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			7	BEFORE	90.55	-38.03	34.47
			7	AFTER	94.95	-35.95	32.46
			8	BEFORE	90.85	-37.34	21.75
			8	AFTER	94.89	-35.85	34.67
			9	BEFORE	90.55	-36.23	16.52
			9	AFTER	94.88	-35.91	36.79
			10	AFTER	94.43	-34.90	41.01
			11	AFTER	94.03	-33.53	42.82
			12	AFTER	93.97	-33.10	44.07
			13	AFTER	93.45	-32.27	44.63
			14	AFTER	93.44	-30.94	48.63

439 81

SECT @ 2500 BODY LINE

			1	BEFORE	98.43	-34.68	43.24
			1	AFTER	101.60	-30.98	15.41
			2	BEFORE	98.43	-36.30	40.72
			2	AFTER	101.94	-31.78	16.16
			3	BEFORE	98.43	-38.41	32.86
			3	AFTER	102.21	-32.45	17.17
			4	BEFORE	98.43	-37.98	23.80
			4	AFTER	102.37	-32.70	22.57
			5	BEFORE	98.43	-37.24	17.99
			5	AFTER	102.30	-32.16	27.73
			6	BEFORE	98.43	-36.51	18.41
			6	AFTER	102.12	-32.66	30.13
			7	AFTER	101.69	-31.98	32.80

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** SECTIONALS **

WGT NO	SECT NO	SIDE	SW2 NO	NAME AND CRASH STATUS	X	Y	INCHES Z
	8			AFTER	101.57	-31.71	33.40
	9			AFTER	101.80	-32.24	38.11
	10			AFTER	101.93	-32.34	41.87
	11			AFTER	101.91	-32.19	43.23
	12			AFTER	101.83	-31.77	43.94

439 82

SECT @ 2500 BODY LINE

1	BEFORE	98.43	-31.67	22.69
1	AFTER	101.63	-28.43	23.55
2	BEFORE	98.43	-32.19	26.60
2	AFTER	100.71	-28.69	28.48
3	BEFORE	98.43	-32.33	31.94
4	BEFORE	98.43	-32.51	34.95
5	BEFORE	98.43	-32.21	43.01

440 81

VERT SECT. 20" FWD T/CL

1	BEFORE	121.85	-20.00	62.36
1	AFTER	121.89	-20.86	15.84
2	BEFORE	121.65	-22.45	61.68
2	AFTER	121.64	-20.83	22.83
3	BEFORE	121.68	-34.85	44.09
3	AFTER	121.70	-20.00	10.02
4	BEFORE	121.65	-34.17	42.26
4	AFTER	121.65	-19.97	18.13
5	BEFORE	121.65	-37.18	40.57
5	AFTER	121.77	-20.15	36.96

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** SECTIONALS **

UFT NO	SCTM NO	SIDE	SEQ NO	NAME AND CRASH STATUS	INCHES		
					X	Y	Z
			6	BEFORE	121.65	-38.09	39.18
			6	AFTER	121.55	-19.64	38.27
			7	BEFORE	121.65	-39.04	32.43
			7	AFTER	121.52	-19.69	40.91
			8	BEFORE	121.65	-38.97	29.31
			8	AFTER	121.67	-20.07	44.89
			9	BEFORE	121.65	-28.02	22.07
			9	AFTER	121.59	-20.00	45.13
			10	BEFORE	121.65	-37.26	17.41
			10	AFTER	121.96	-17.96	61.78
			11	BEFORE	122.65	-36.66	16.57
			11	AFTER	122.01	-18.01	64.15
			12	AFTER	121.93	-17.28	63.97
			13	AFTER	121.88	-17.25	64.65
			14	AFTER	121.66	-16.39	65.65

440 83

VERT SECT. 20' WND I/CL

			1	BEFORE	121.65	-31.84	21.36
			1	AFTER	122.15	-19.39	21.61
			2	BEFORE	121.65	-32.01	24.87
			2	AFTER	121.83	-18.73	24.56
			3	BEFORE	121.65	-32.54	38.35
			3	AFTER	121.30	-17.97	38.29
			4	BEFORE	121.65	-32.31	40.34
			4	AFTER	121.35	-17.80	40.54
			5	BEFORE	121.65	-32.18	48.75
			5	AFTER	121.76	-18.19	42.88

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** SECTIONS **

CMT NO	SCIN NO	SIDE	SEC NO	NAME AND CRASH STATUS	INCHES		
					X	Y	Z
			15	AFTER	165.77	-36.27	25.35
			16	AFTER	167.40	-35.84	24.78
			17	AFTER	169.65	-35.98	24.79
429	81			BOTTOM OF DOOR EXT SECT			
			1	BEFORE	89.12	-35.84	16.33
			1	AFTER	90.82	-34.26	16.17
			2	BEFORE	133.49	-36.04	16.08
			2	AFTER	101.72	-31.87	16.16
			3	BEFORE	132.33	-36.11	16.10
			3	AFTER	116.31	-28.41	16.70
			4	BEFORE	168.29	-36.08	16.08
			4	AFTER	119.79	-23.10	16.62
			5	AFTER	121.76	-20.67	15.54
			6	AFTER	126.07	-20.69	15.43
			7	AFTER	130.98	-23.66	15.63
			8	AFTER	132.11	-29.94	16.05
			9	AFTER	147.24	-28.82	16.89
			10	AFTER	166.29	-34.31	17.56
431	81			ROCKER PANEL EXT SECT			
			1	BEFORE	91.16	-34.09	16.93
			1	AFTER	92.15	-31.14	16.27
			2	BEFORE	112.42	-34.04	16.93
			2	AFTER	101.28	-27.74	15.83

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** SECTIONALS **

UNIT NO	SECTM NO	SIDE	SEQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			3	BEFORE	113.40	-34.03	16.93
			3	AFTER	111.06	-24.43	15.27
			4	BEFORE	133.69	-33.99	16.93
			4	AFTER	116.61	-21.76	15.72
			5	BEFORE	150.98	-34.00	16.93
			5	AFTER	121.96	-20.14	14.60
			6	BEFORE	167.60	-34.15	16.93
			6	AFTER	124.41	-19.90	14.37
			7	AFTER	129.19	-22.18	15.31
			8	AFTER	141.47	-24.16	15.39
			9	AFTER	155.53	-28.35	15.89
			10	AFTER	163.63	-30.34	16.44

615 81

BELT LINE INTERIOR SECT

			1	BEFORE	100.84	-32.24	42.13
			1	AFTER	104.03	-28.71	43.69
			2	BEFORE	116.32	-32.45	42.84
			2	AFTER	113.54	-21.73	43.07
			3	BEFORE	125.80	-32.50	43.10
			3	AFTER	118.55	-19.06	43.11
			4	BEFORE	129.59	-32.58	43.06
			4	AFTER	123.54	-17.40	42.70
			5	BEFORE	131.47	-30.51	42.75
			5	AFTER	130.07	-16.91	42.66
			6	BEFORE	135.46	-30.56	42.71
			6	AFTER	131.78	-16.60	42.68

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** SECTIONALS **

UNIT NO	SECTN NO	SIDE	SEQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z	
			7	BEFORE	137.07	-32.62	42.80	
			7	AFTER	135.40	-17.61	42.80	
			8	BEFORE	144.44	-32.61	42.64	
			8	AFTER	136.20	-19.59	42.55	
			9	BEFORE	145.68	-31.69	42.78	
			9	AFTER	144.46	-21.64	43.51	
			10	BEFORE	151.55	-31.92	42.92	
			10	AFTER	151.06	-23.66	43.55	
			11	BEFORE	161.22	-31.90	43.10	
			11	AFTER	160.07	-26.62	44.26	
			12	BEFORE	169.50	-31.96	43.23	
			12	AFTER	172.89	-30.84	44.98	
			13	BEFORE	176.06	-31.88	43.05	
437	81		HIP INTERIOR SECTION					
			1	BEFORE	95.94	-32.04	27.85	
			1	AFTER	105.58	-27.38	28.00	
			2	BEFORE	105.14	-32.24	27.85	
			2	AFTER	107.89	-26.32	27.96	
			3	BEFORE	110.54	-32.09	27.55	
			3	AFTER	116.26	-20.89	27.94	
			4	BEFORE	115.62	-32.23	27.55	
			4	AFTER	122.66	-17.84	27.55	
			5	BEFORE	123.89	-32.23	27.85	
			5	AFTER	126.89	-17.52	27.75	
			6	BEFORE	127.02	-32.86	27.85	
			6	AFTER	129.30	-16.67	27.72	

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** SECTIONALS **

OBT NO	SCIN NO	SIDE	SEQ NO	NAME AND CRASH STATUS	INCHES		
					X	Y	Z
			6	BEFORE	121.65	-32.46	42.95
441	21			VERT SECT. @ IMPACT C/L			
			1	BEFORE	129.90	-19.35	63.73
			1	AFTER	129.42	-22.76	15.75
			2	BEFORE	129.90	-22.29	62.16
			2	AFTER	129.28	-22.93	16.99
			3	BEFORE	129.90	-24.91	44.17
			3	AFTER	129.39	-22.40	24.16
			4	BEFORE	129.90	-38.59	36.65
			4	AFTER	129.29	-22.99	30.12
			5	BEFORE	129.90	-38.66	25.74
			5	AFTER	129.16	-21.97	34.66
			6	BEFORE	129.90	-37.28	17.34
			6	AFTER	129.24	-21.75	35.82
			7	BEFORE	129.90	-36.90	18.70
			7	AFTER	129.15	-21.87	37.19
			8	AFTER	129.12	-21.65	38.69
			9	AFTER	129.06	-21.33	42.26
			10	AFTER	129.06	-21.10	43.51
			11	AFTER	129.24	-20.90	43.85
			12	AFTER	129.15	-20.76	44.18
			13	AFTER	129.44	-18.65	62.28
			14	AFTER	130.10	-16.46	63.60
			15	AFTER	129.80	-16.14	64.57

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** SECTIONALS **

GWT NO	SCIN NO	SIDE	SEC NO	NAME AND CRASH STATUS	INCHES		
					X	Y	Z
			16	AFTER	130.06	-15.01	64.38
			17	AFTER	129.70	-13.05	65.39
441	82			VERT SECT. @ IMPACT C/L			
			1	BEFORE	139.90	-30.76	20.57
			1	AFTER	130.72	-18.02	21.30
			2	BEFORE	129.90	-30.69	30.14
			2	AFTER	130.19	-16.84	30.50
			3	BEFORE	129.90	-30.73	35.13
			3	AFTER	129.98	-16.62	36.97
			4	BEFORE	129.90	-30.75	37.34
			4	AFTER	130.74	-16.92	40.63
			5	BEFORE	121.65	-30.34	44.46
			5	AFTER	132.41	-15.55	46.39
			6	BEFORE	121.65	-29.00	48.17
			6	AFTER	133.62	-15.04	52.31
			7	BEFORE	121.65	-26.82	52.08
			7	AFTER	135.21	-13.32	57.80
			8	BEFORE	121.65	-23.49	57.73
			8	AFTER	135.03	-12.55	60.46

** COMMENTS **

ANY AUTOMATICALLY GENERATED COMMENTS APPEAR IN THIS BOX:

*** THIS DIMENSION SYSTEM UTILIZES THE RIGHT HAND RULE ***
 from front of vehicle facing REARWARD
 + - Rearward, Up, & Left (AMERICAN PASSENGER SIDE)
 [Lateral Zero is Centerline of Vehicle]

**** THE " D " DIMENSION UNDER " INCHES CHANGED X Y Z " ****
 *** IS THE SCALAR (TRUE VALUE) DISTANCE CHANGE OF THE POINT ***

REMINDER:: Paint a C/L stripe on tunnel from front seat to and including rear seat where applicable.

*** If this is a POLE IMPACT TEST, do NOT scribe cart edges. ***

ON SIDE IMPACTS FOR VEHICLES WITH A WHEELBASE OF 114 inches or less
 SCRIBE (4) VERTICAL LINES on side of impact from ROCKER TO BELT LINE @:
 (1) WHEELBASE C/L (2) 37" FORWARD OF WHEELBASE C/L
 (3) 4" FORWARD OF WHEELBASE C/L (4) 29" REARWARD OF WHEELBASE C/L

ON SIDE IMPACTS FOR VEHICLES WITH A WHEEL BASE GREATER THAN 114 INCHES
 SCRIBE (4) VERTICAL LINES on side of impact from ROCKER TO BELT LINE @:
 (1) 20" (2) 52" (3) 64" REARWARD OF FRONT AXLE CENTER LINE
 (4) @ WHEELBASE CENTER LINE

BELT LINE (EXTERIOR SECTION) LOCATED @ 1st INCREMENTED 50mm BODY LINE BELOW GLASS/WEATHERSTRIP

MID LINE (EXTERIOR SECTION) LOCATED @ _____ mm BODY LINE

CHARACTER LINE (EXTERIOR SECTION) LOCATED @ _____ mm BODY LINE

ROCKER LINE (EXTERIOR SECTION) LOCATED @ 1st INCREMENTED 10mm BODY LINE BELOW DOOR OPENING

ANY COMMENTS ENTERED BY OPERATORS APPEAR BELOW THIS LINE:

 ***** 650 POINT DESCRIPTION *****

- 01. ACCEL L/S DRIVER DOOR
- 02. ACCEL. I/S DRIVER DOOR
- 03. ACCEL L/S DRIVER DOOR

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** COMMENTS **

04. ACCEL L/S DRIVER DOOR
05. ACCEL L/S-PILLAR @ ROOF
06. ACCEL L/S-PILLAR @ BELTLINE
07. ACCEL L/S-PILLAR @ ROCKER
08. ACCEL L/S REAR DOOR
09. ACCEL L/S REAR DOOR
10. ACCEL L/S FLOOR UNDER DRIVER
11. ACCEL R/S FLOOR UNDER PASSENGER
12. ACCEL @ FWD TUNNEL
13. ACCEL R/S A-FILLAR INT. FWD
14. ACCEL R/S A-FILLAR INT. RND
15. ACCEL R/S A-FILLAR ON SENSOR
16. ACCEL @ TUNNEL ON SENSOR

SETUP POINTS:

17. L/SILL FWD
18. L/SILL RND
19. R/SILL FWD
20. R/SILL RND

21. ACCEL L/FROST ROCKER.
22. ACCEL L/REAR ROCKER.
23. ACCEL R/FROST ROCKER.
24. ACCEL R/REAR ROCKER.

TIME AND DATE OF REPORT: 16-OCT-99 19:34:24

PAGE 2

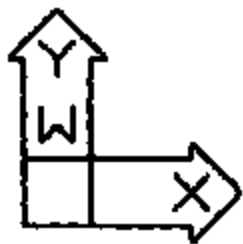
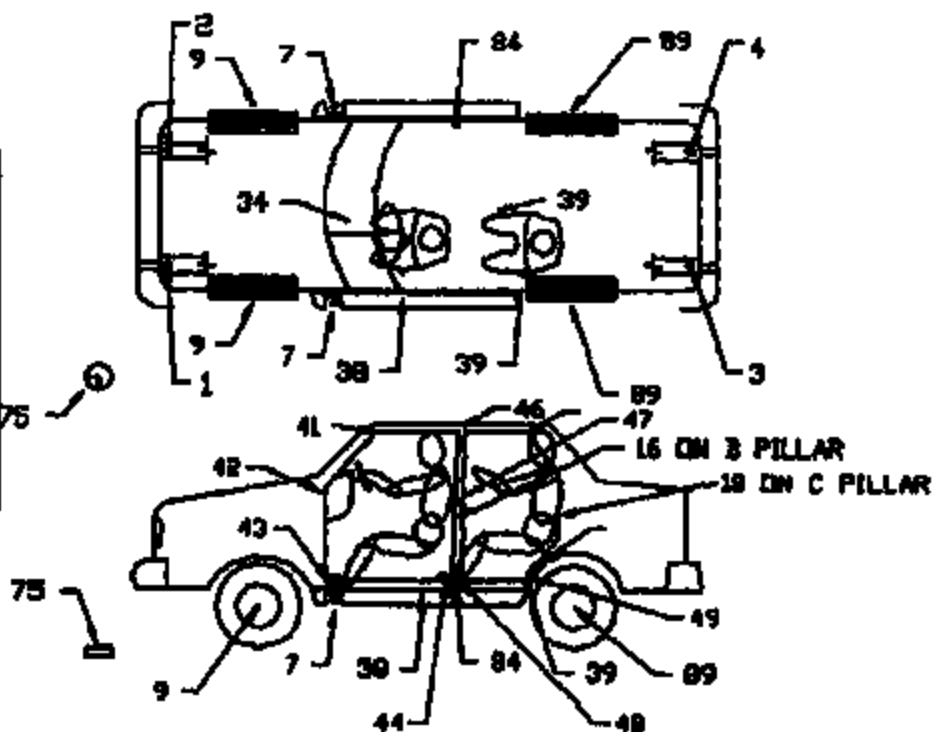
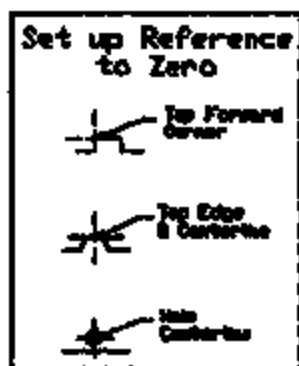
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CONTROL POINTS (SIDE IMPACT CAR) REQUEST 404
 UNIT 70 POINT 75
 UNIT 71 POINTS 7 LEFT & RIGHT
 UNIT 74 POINTS 41-44, 46-49 ON SIDE OF IMPACT
 UNIT 74 POINTS 53, 54 ON SIDE OPPOSITE OF IMPACT
 UNIT 411 POINTS 1-4, 38, 39, 84
 UNIT 412 POINTS 9, 16, 18, 89 LEFT & RIGHT
 (LEFT SIDE IMPACT SHOWN)



REQUEST 404 IMPIC 960 1P/96

IMPIC011

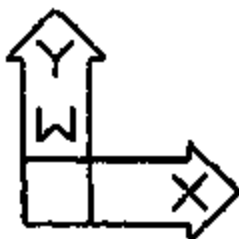
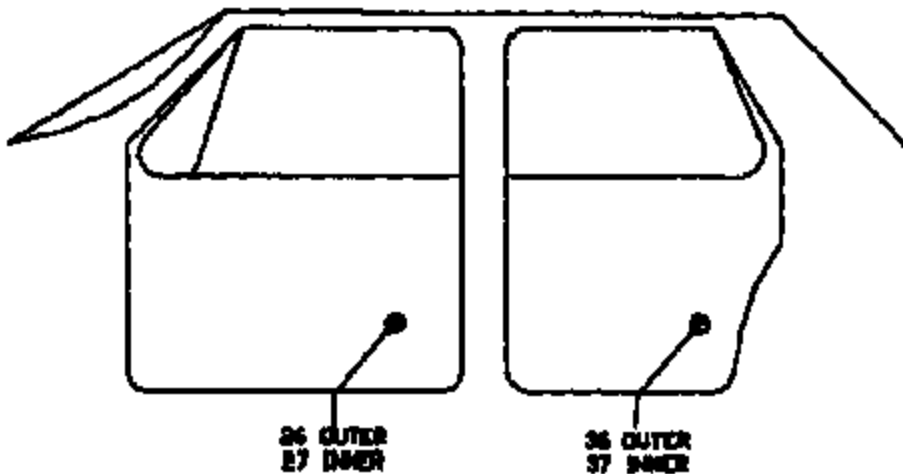
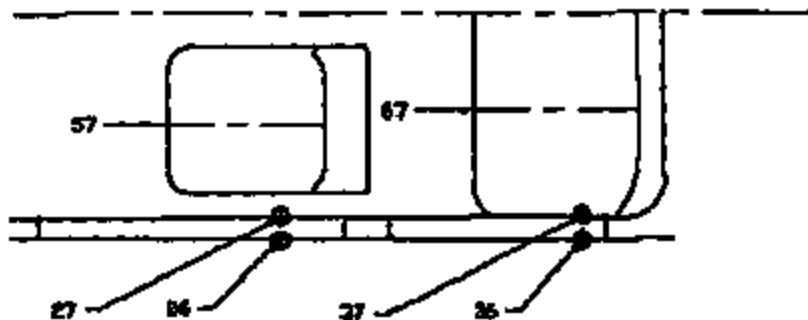
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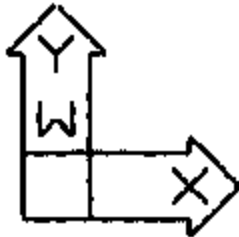
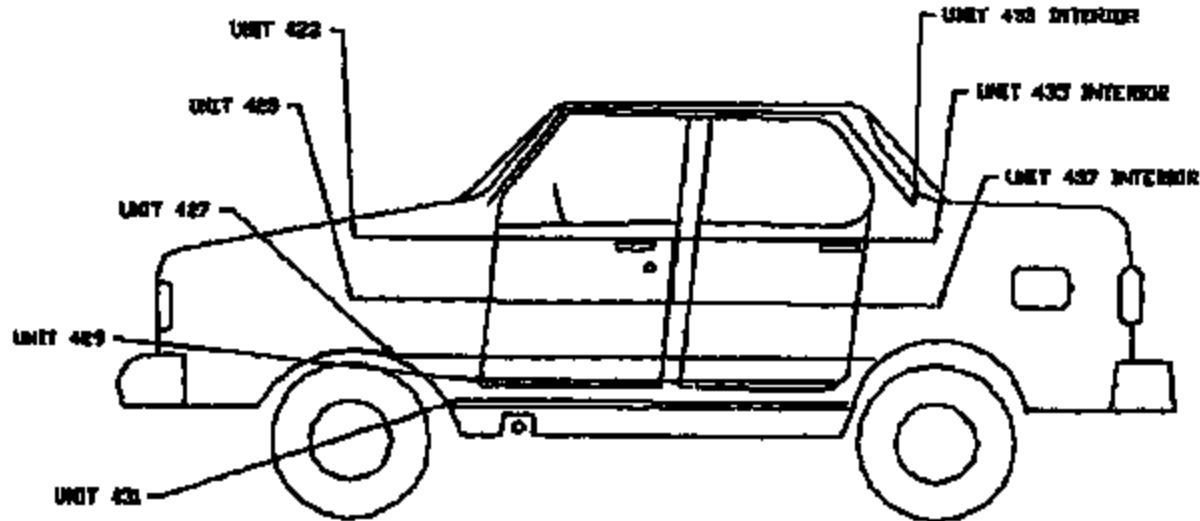
PRE-CRASH LATERAL C/L'S '11' POINTS + REQUEST 417
UNIT 411 POINTS 26,27,36,37,57,67



REQUEST 417 UPIC 964 10/96

DNBVEL1

EXTERIOR & INTERIOR HORIZ. SECTIONALS SIDE IMPACT
REQUEST 423,425,427,429,431,433,435,437



REQUEST 423,425,427,429,431,433,435,437 UPIC 977 10/96

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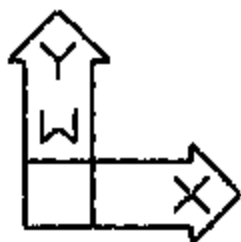
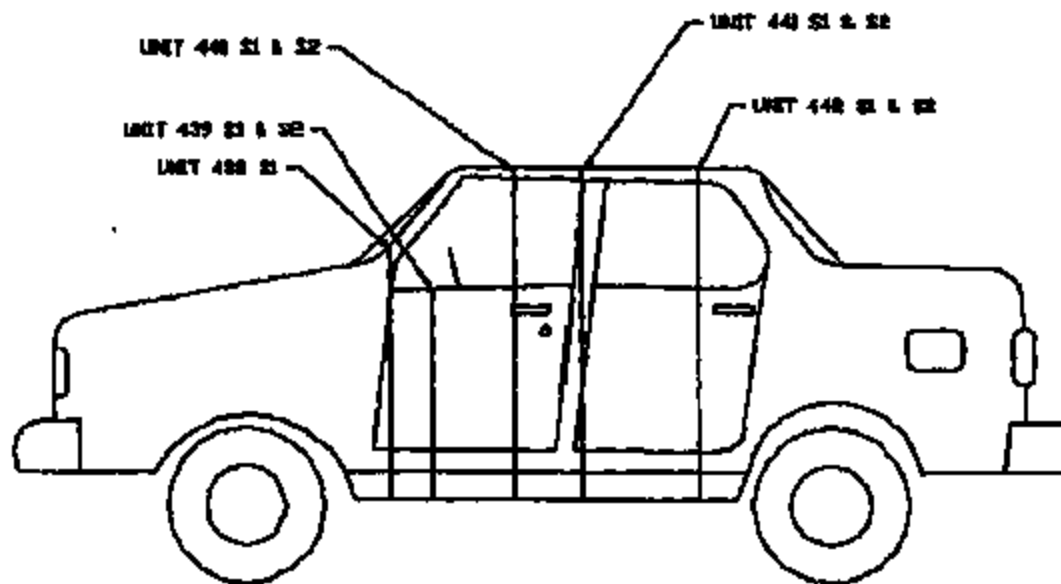
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REQUEST 438 - 442 VERT. SECTIONS SIDE IMPACT
UNITS 438 SI, 439 - 442 SI & S2
SI SECTIONS ARE EXTERIOR, S2 SECTIONS ARE INTERIOR



REQUEST 438 - 442 UPIC 979 10/96

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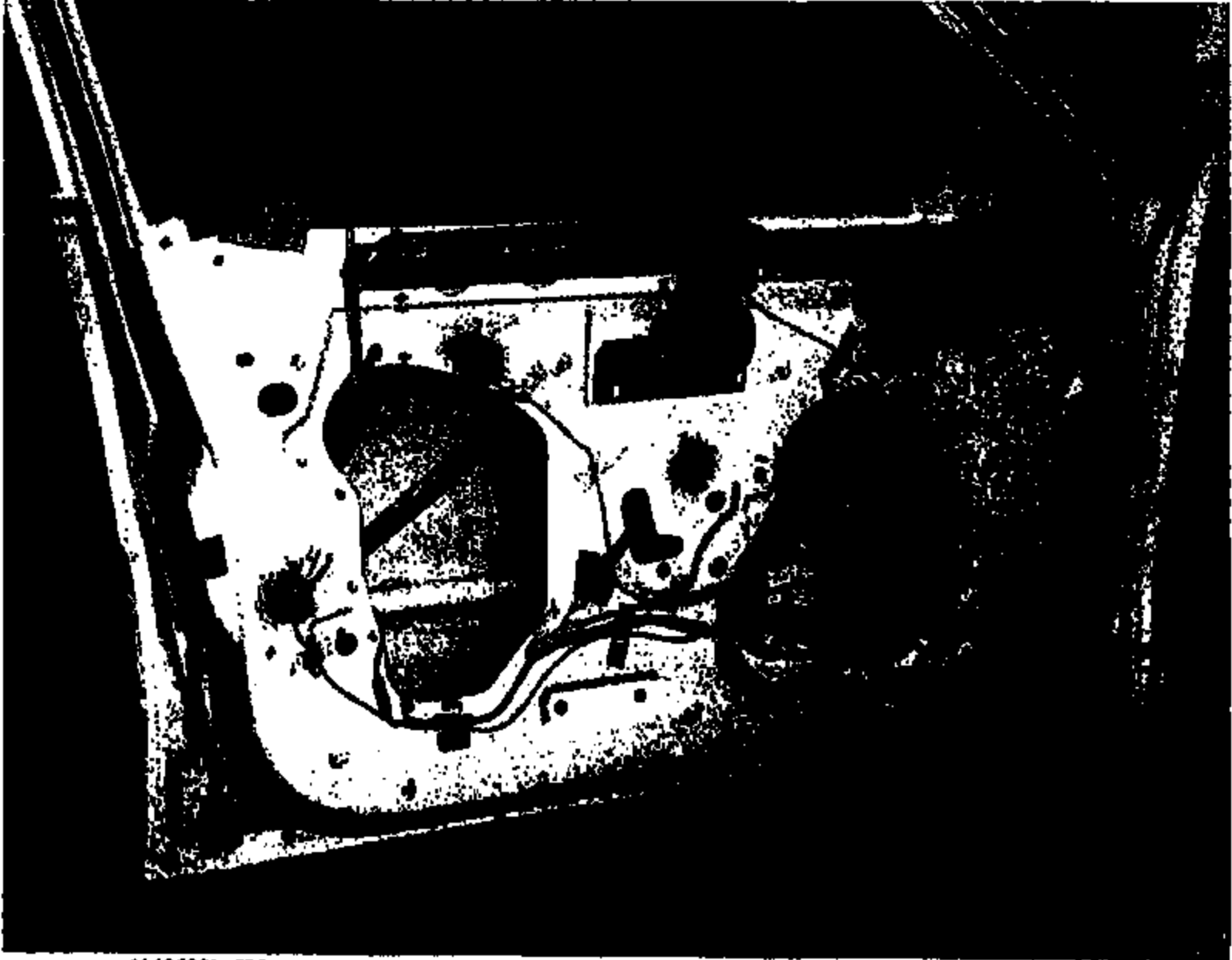
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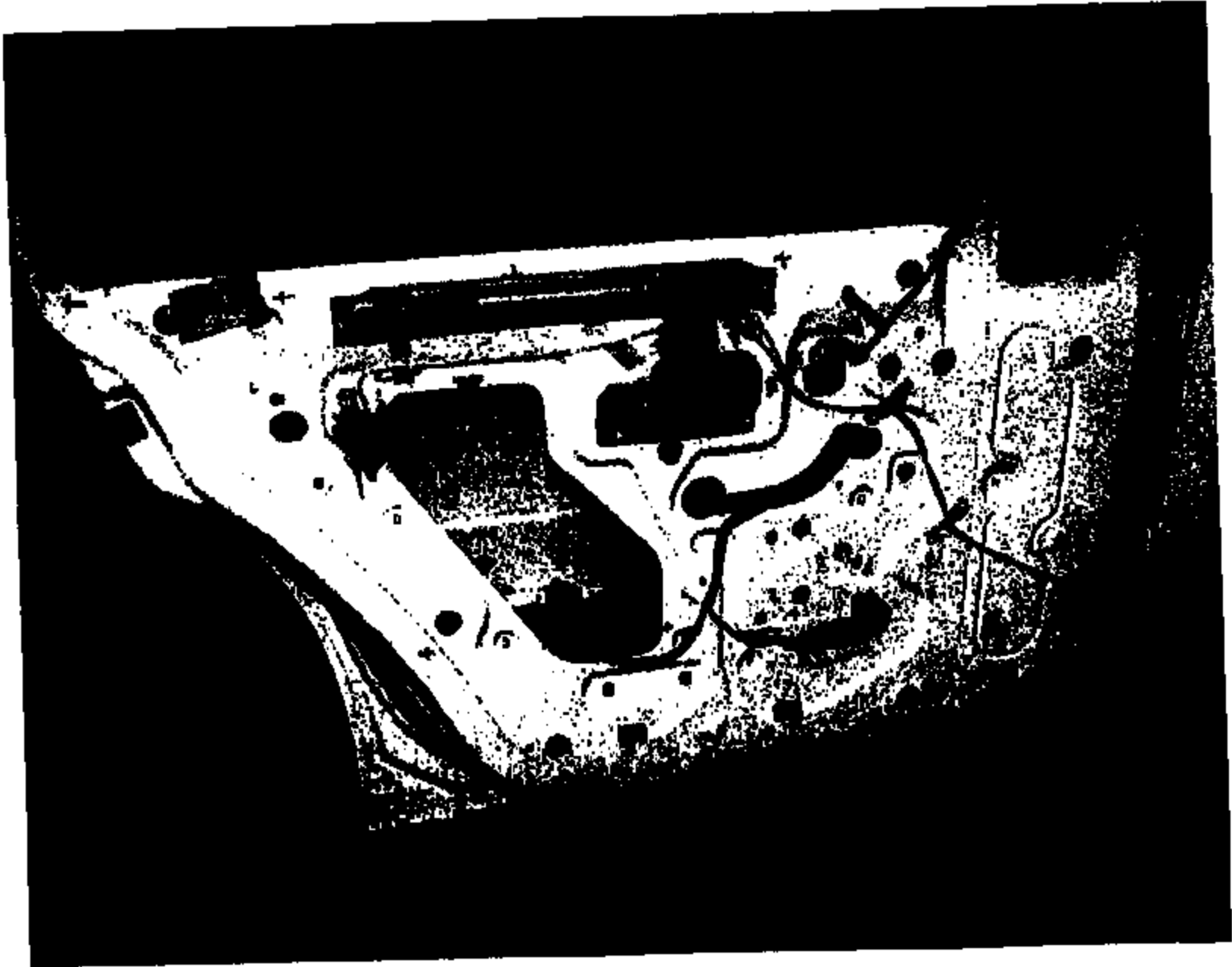
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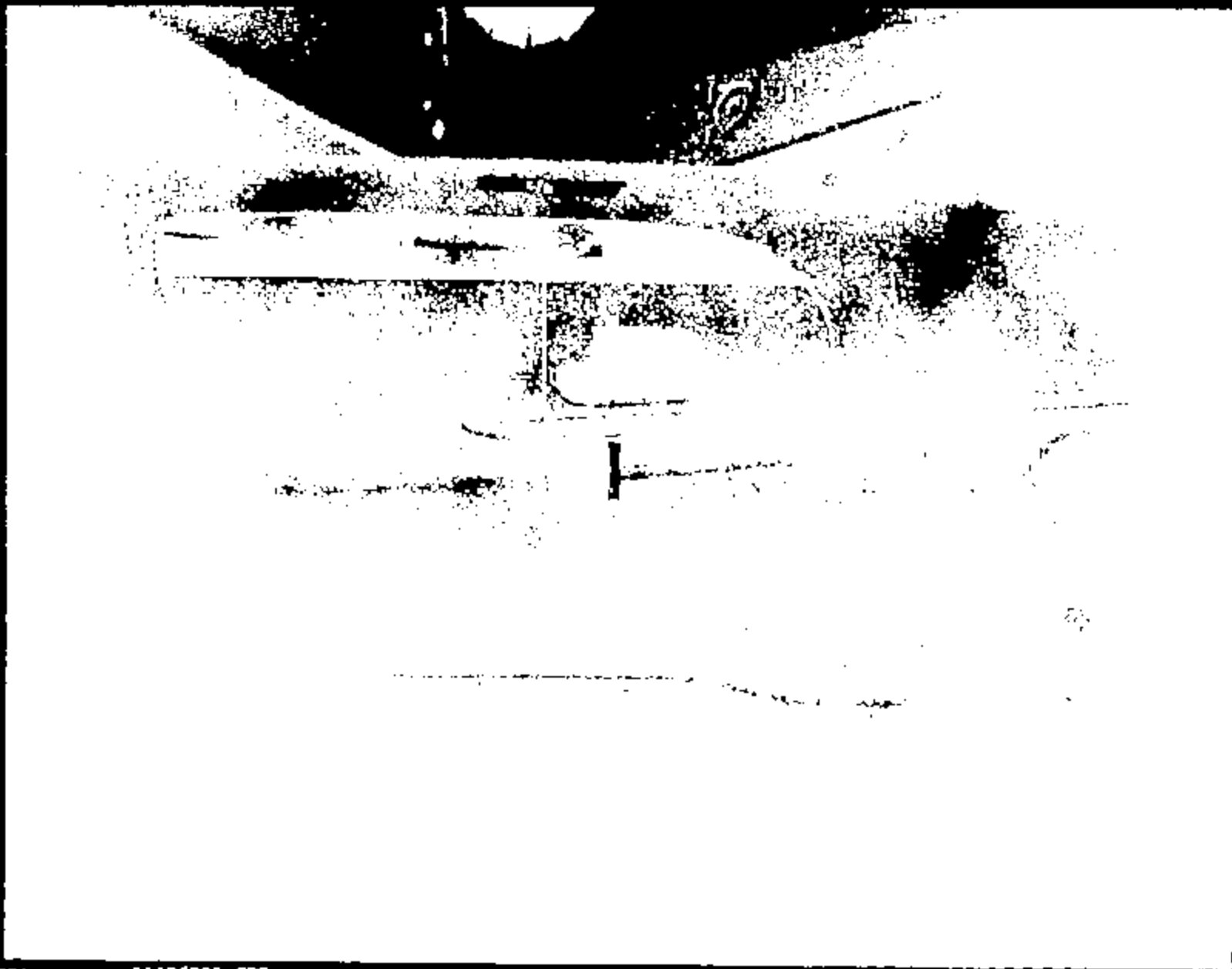
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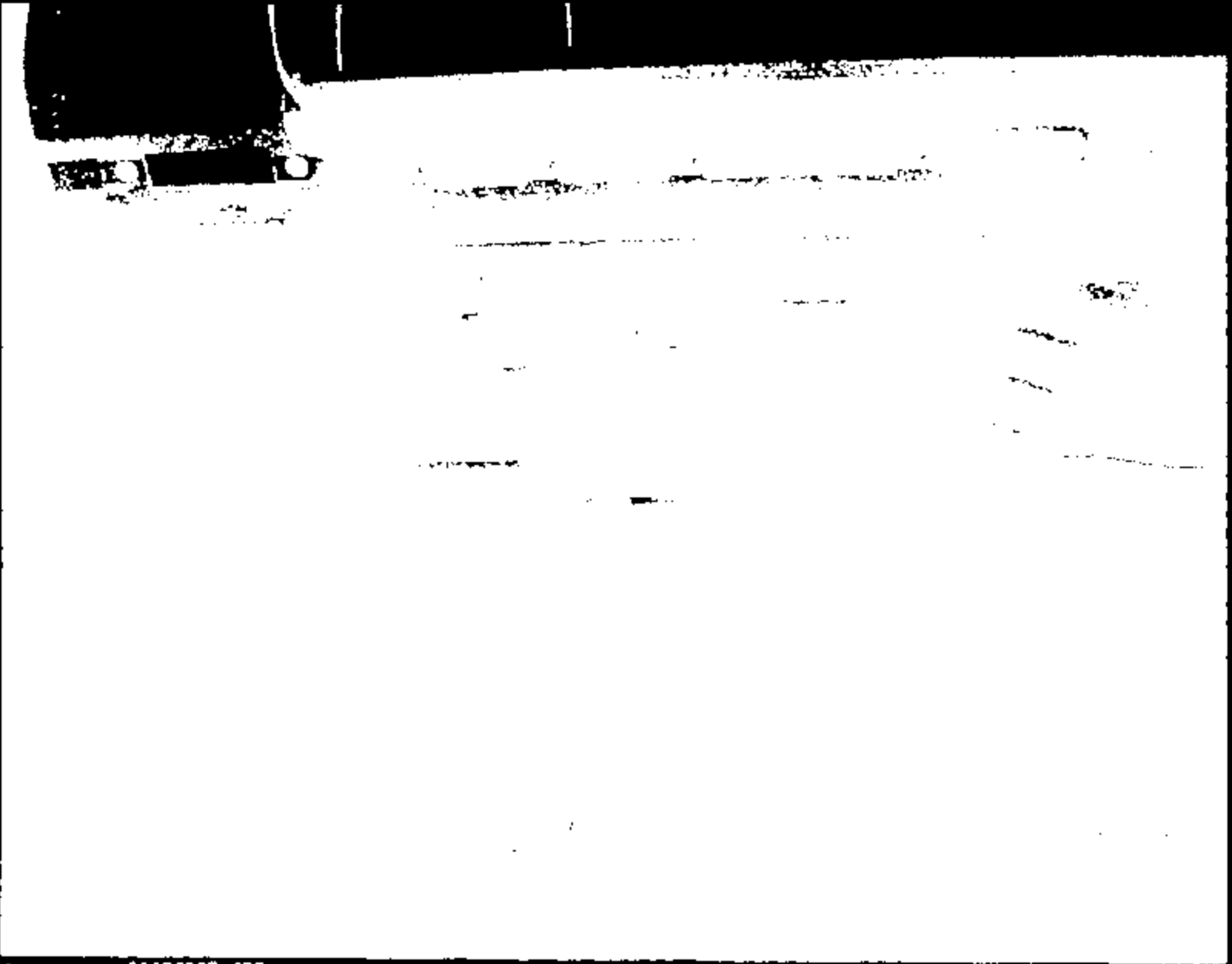
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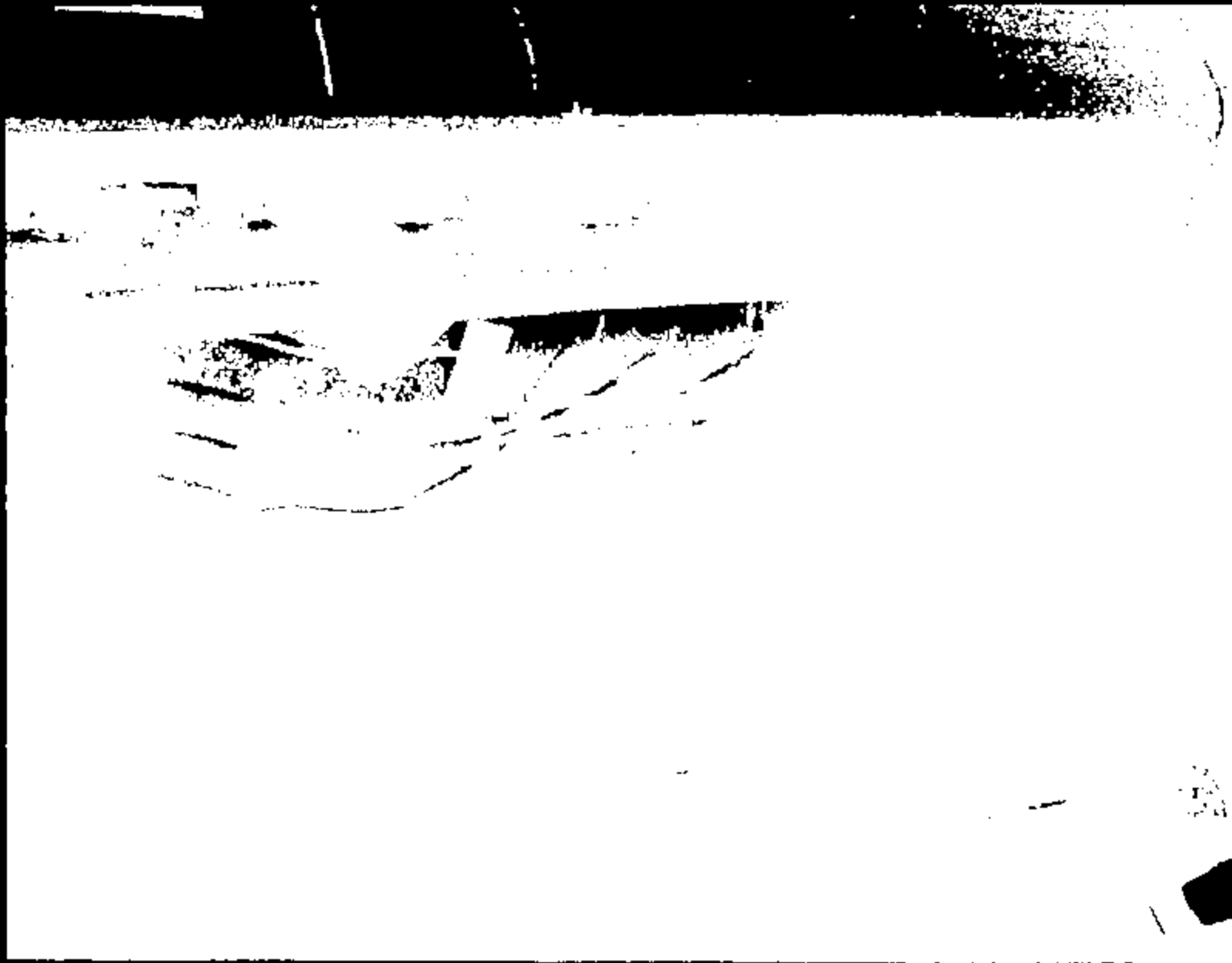


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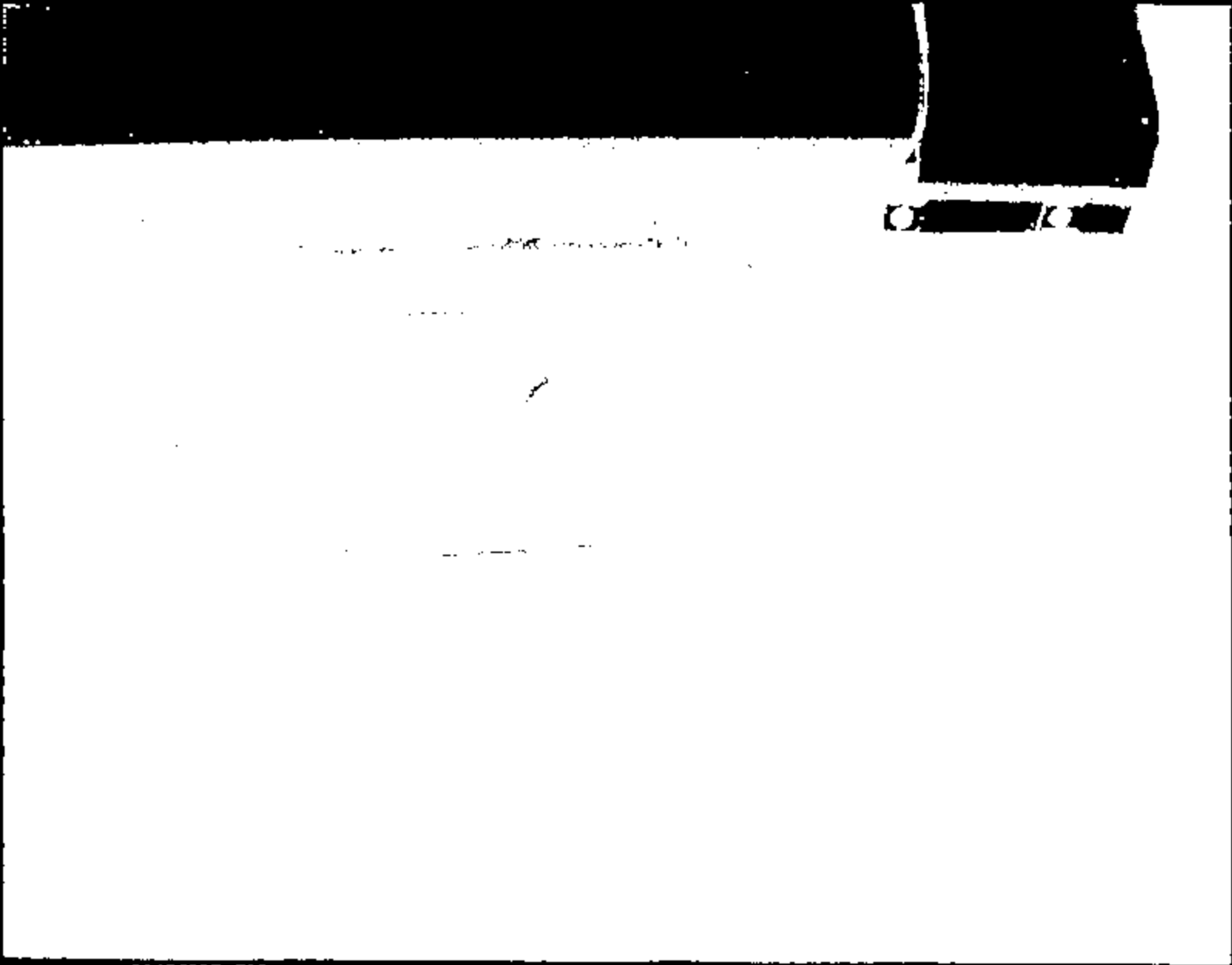


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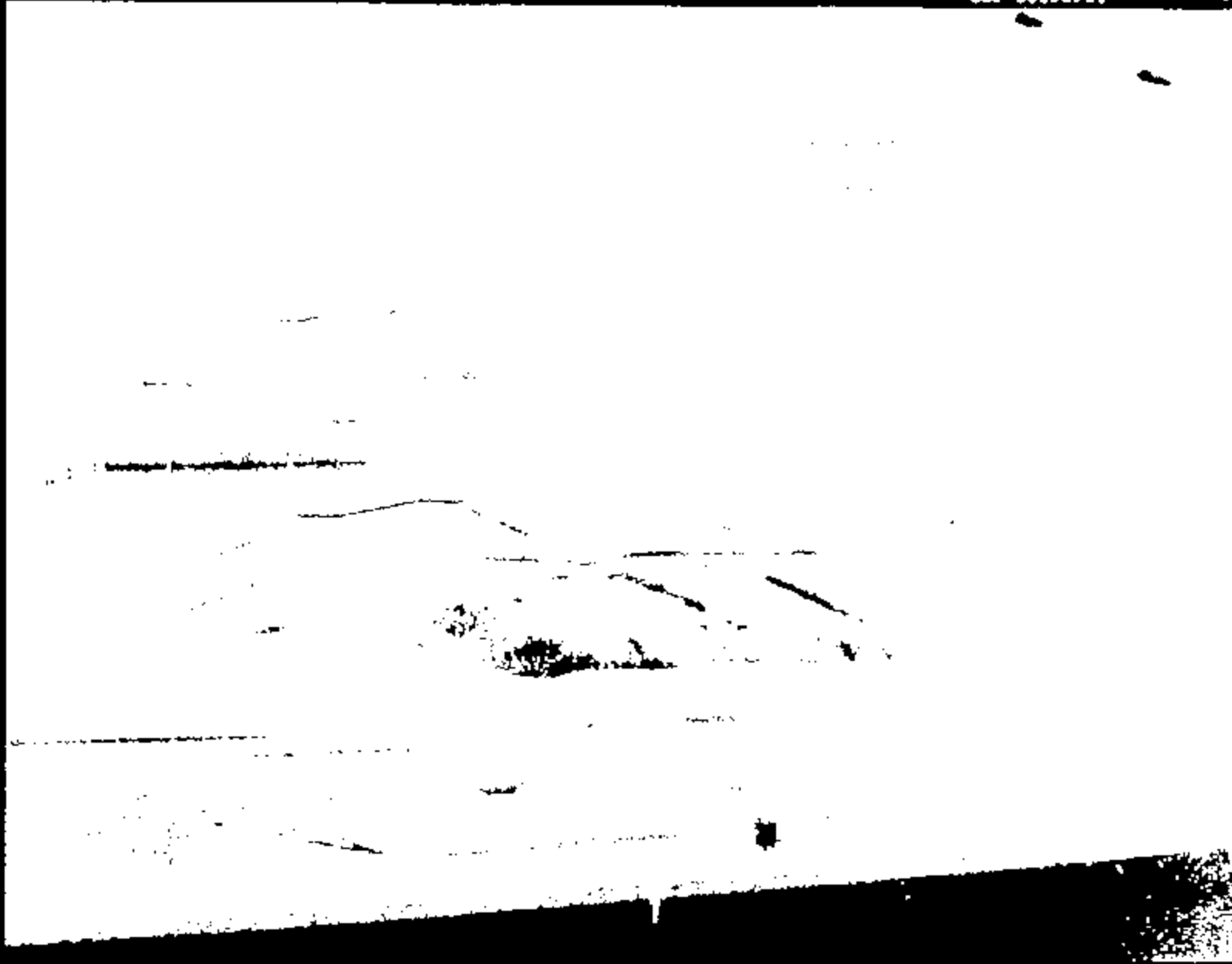


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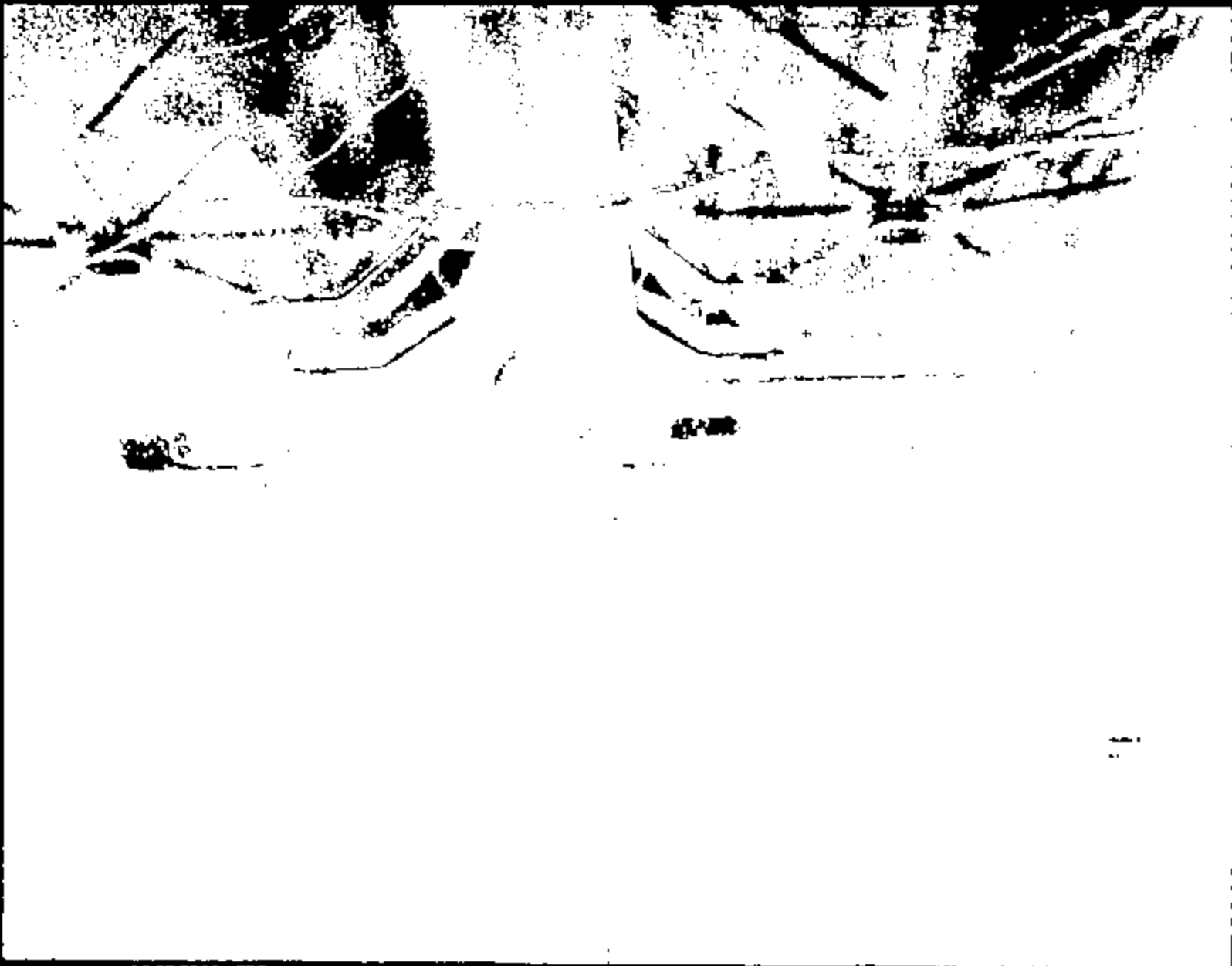
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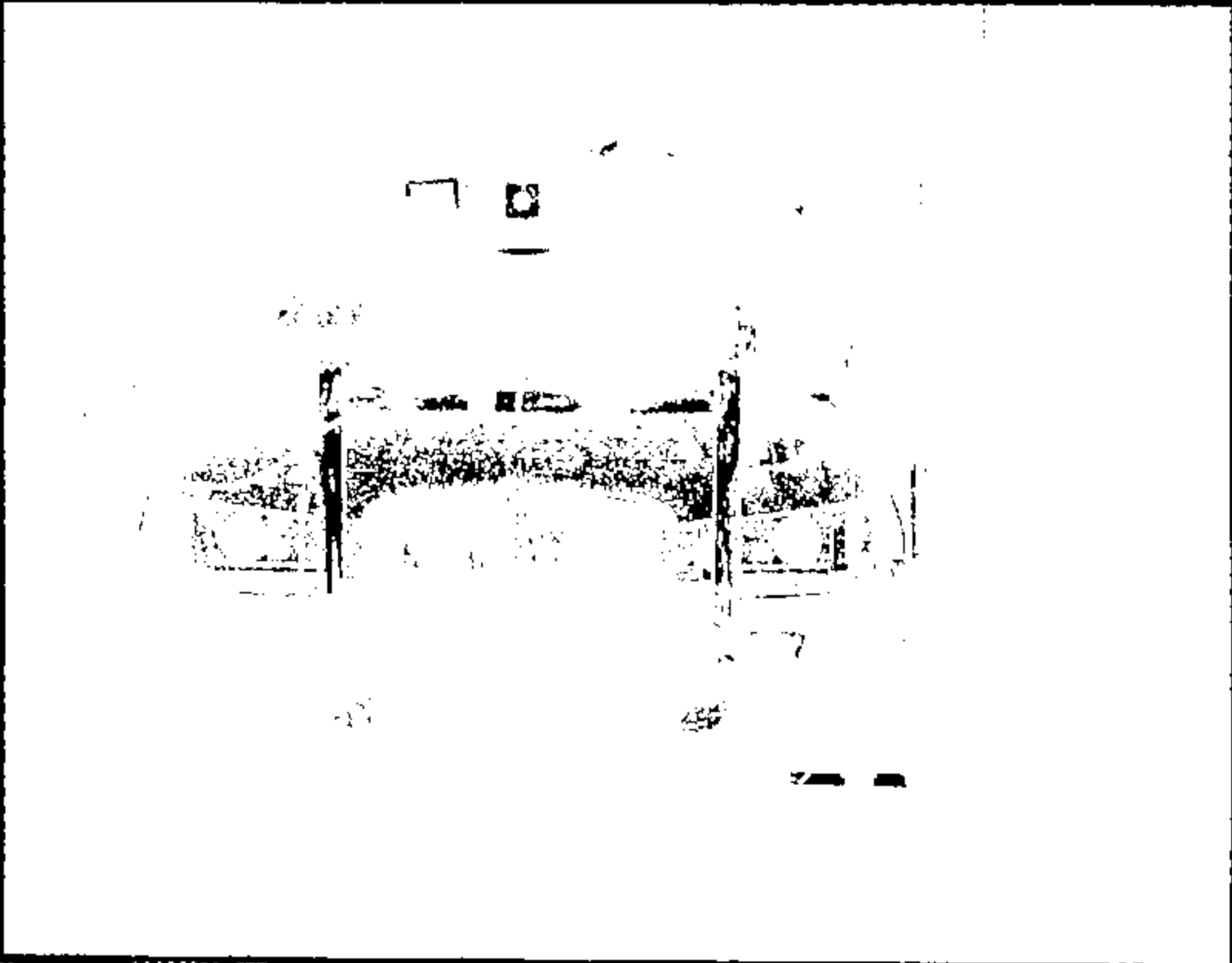


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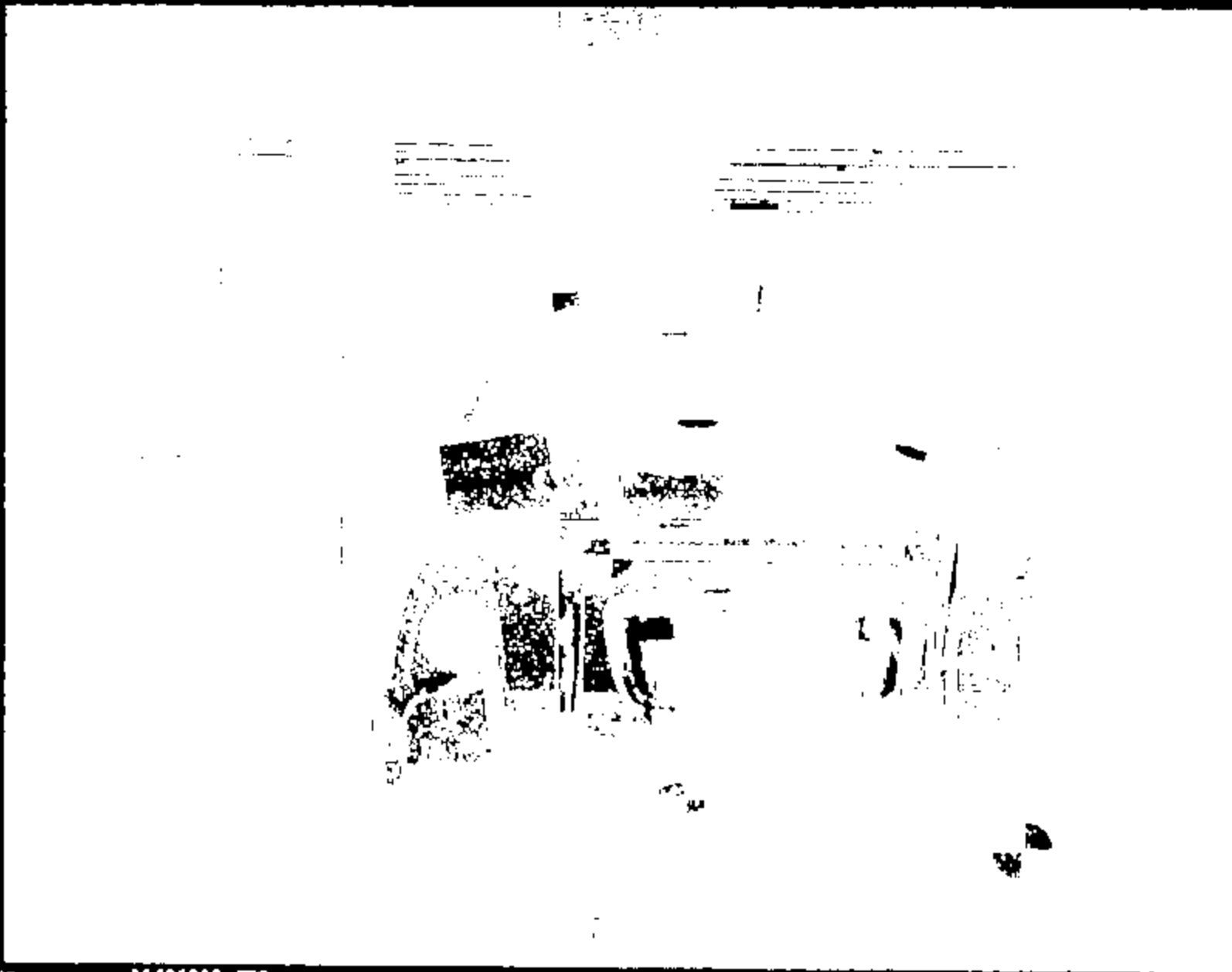


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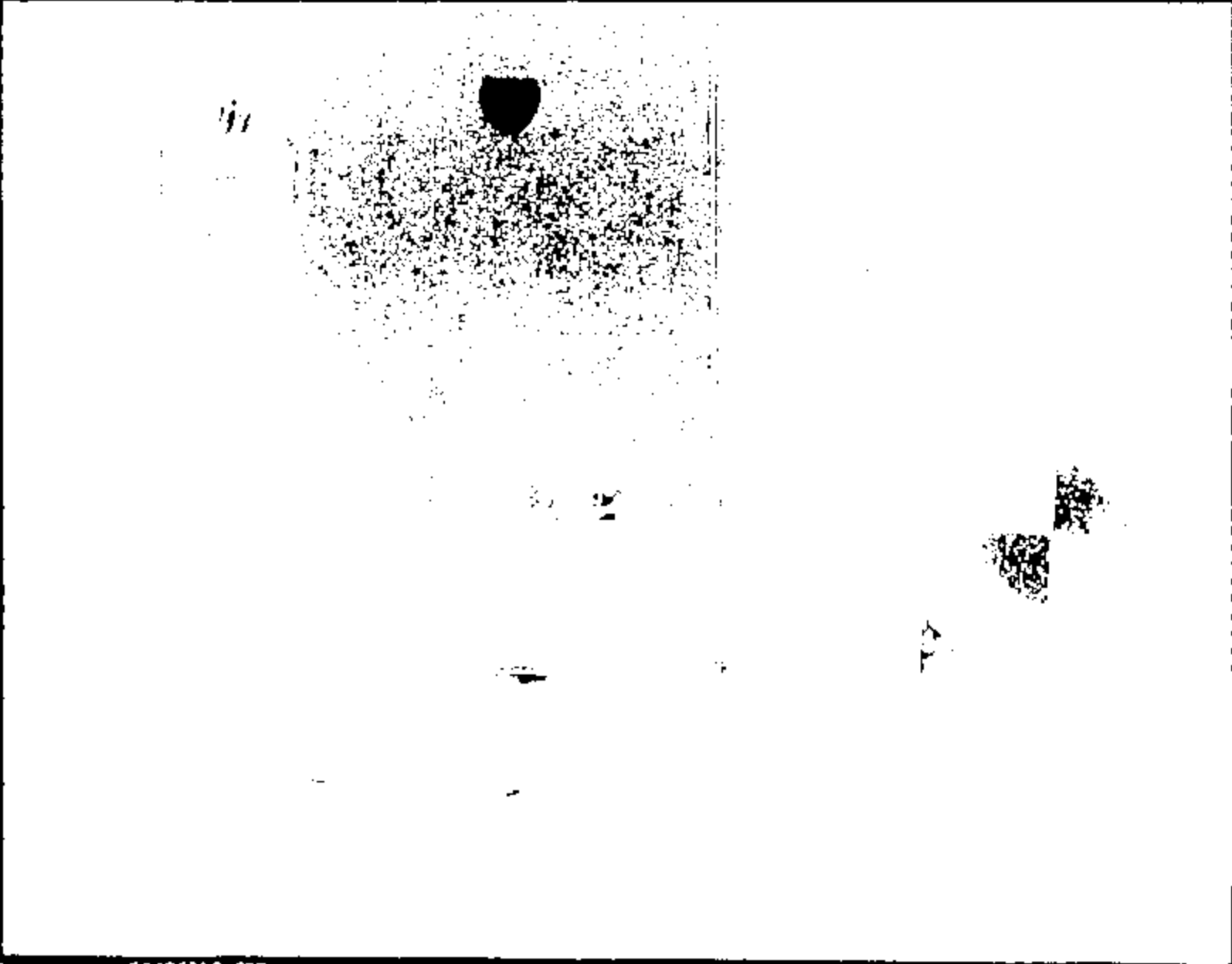


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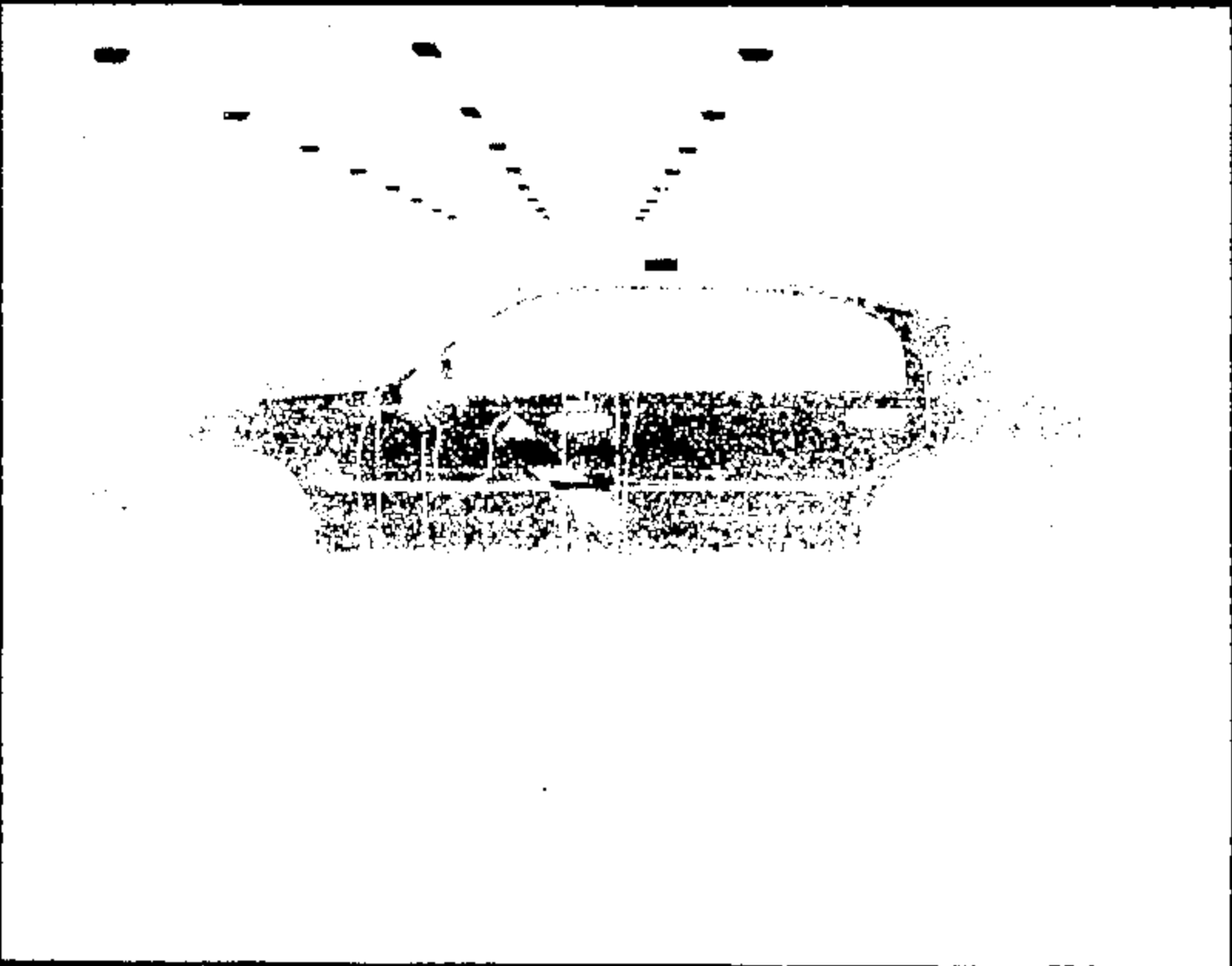
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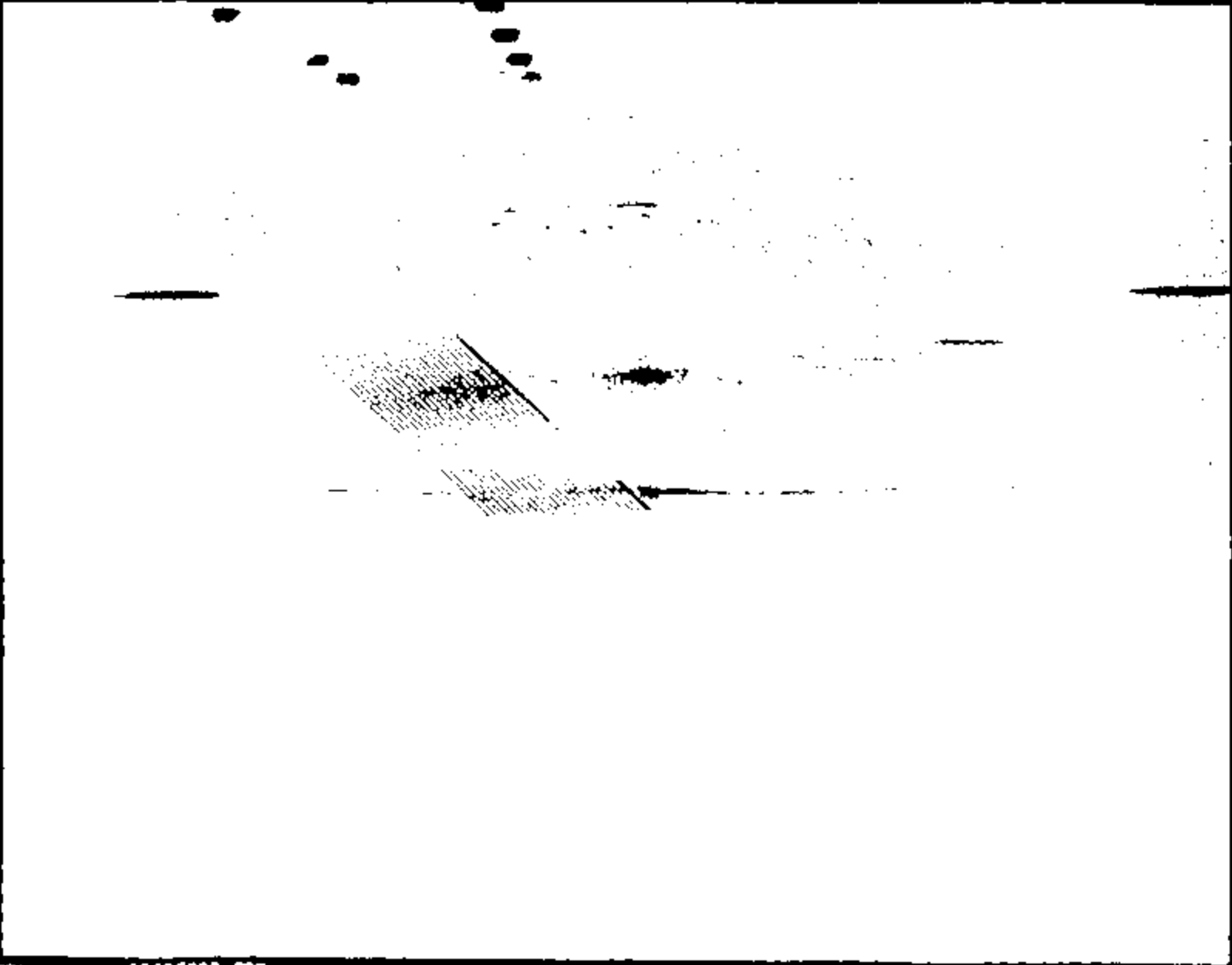


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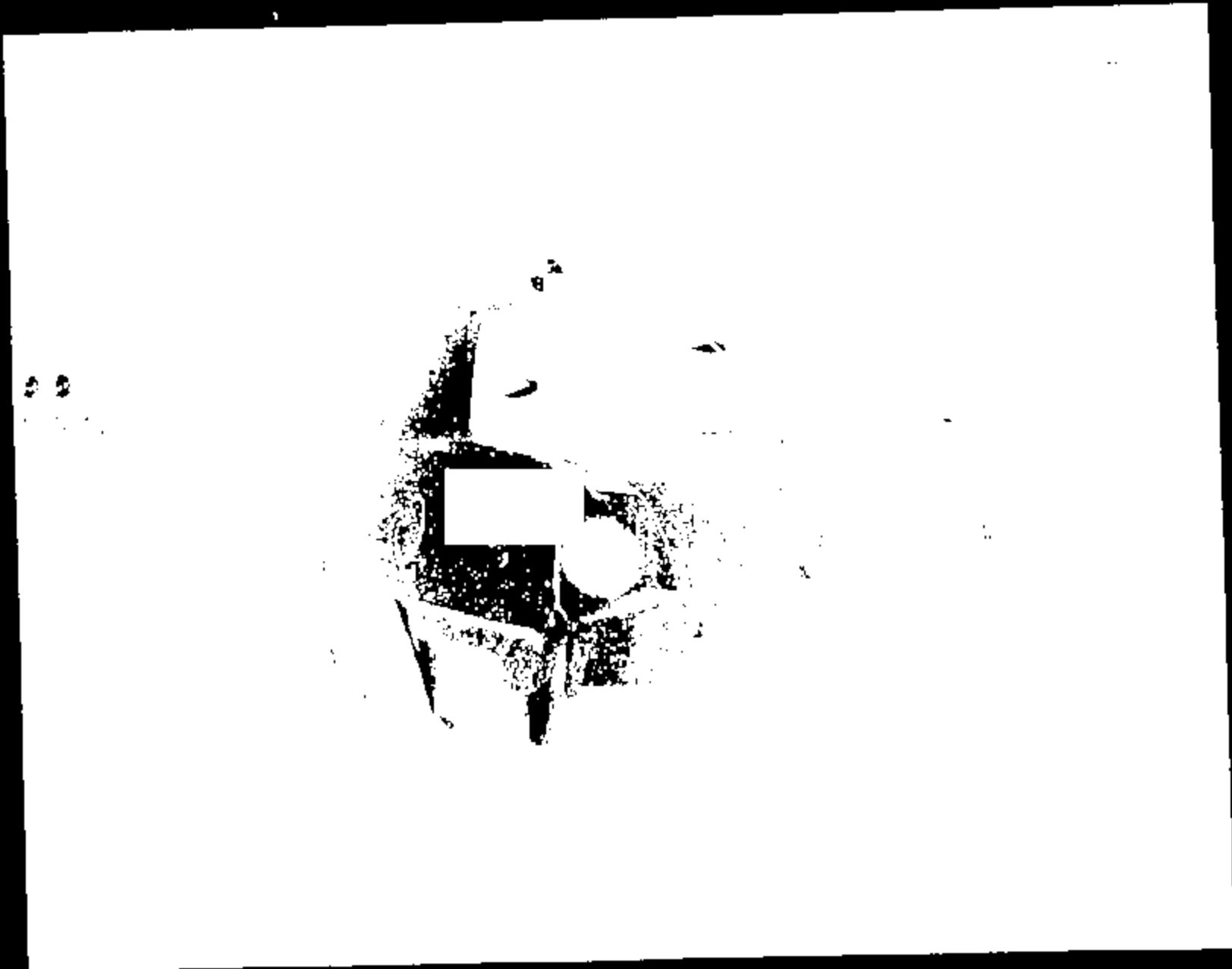


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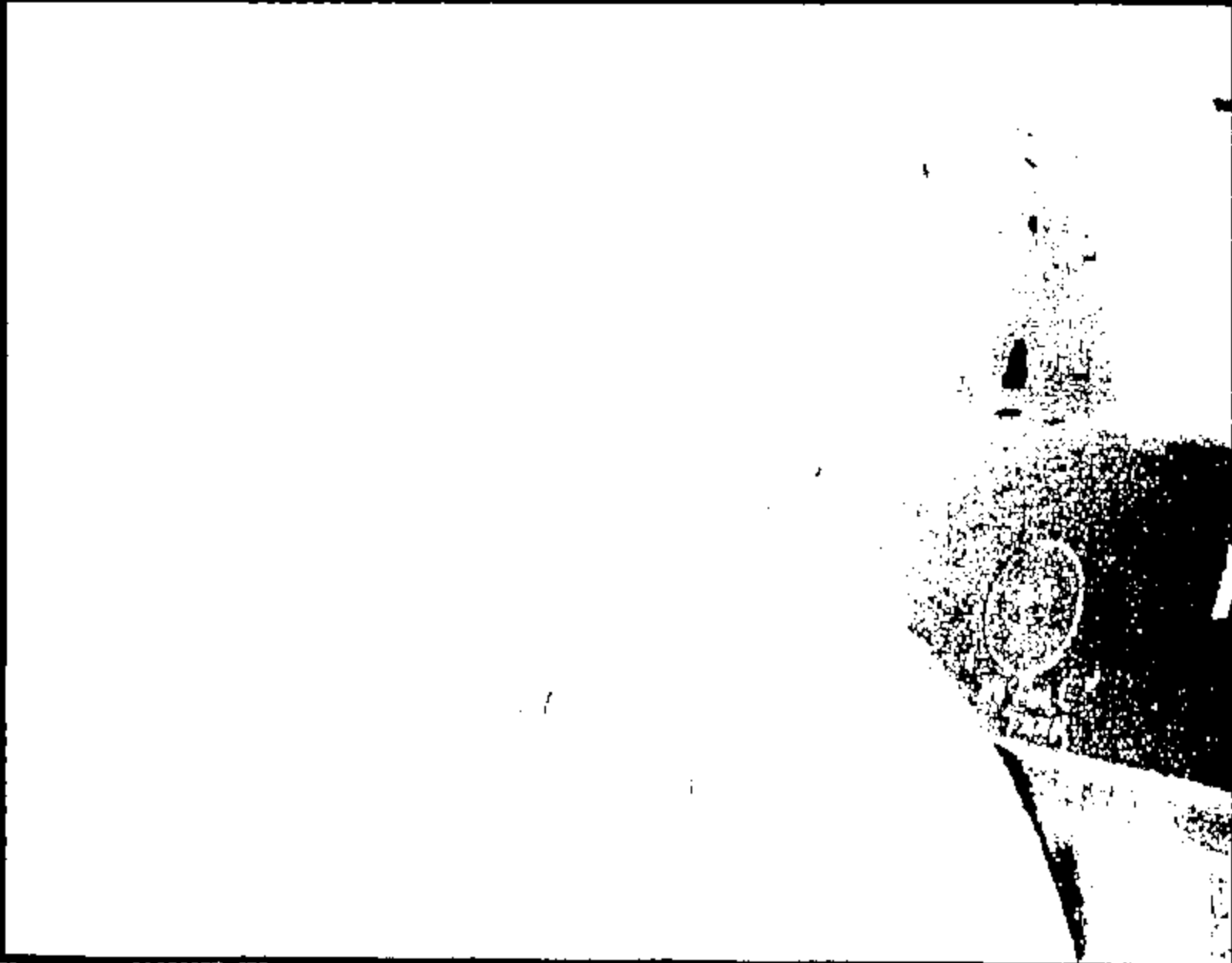


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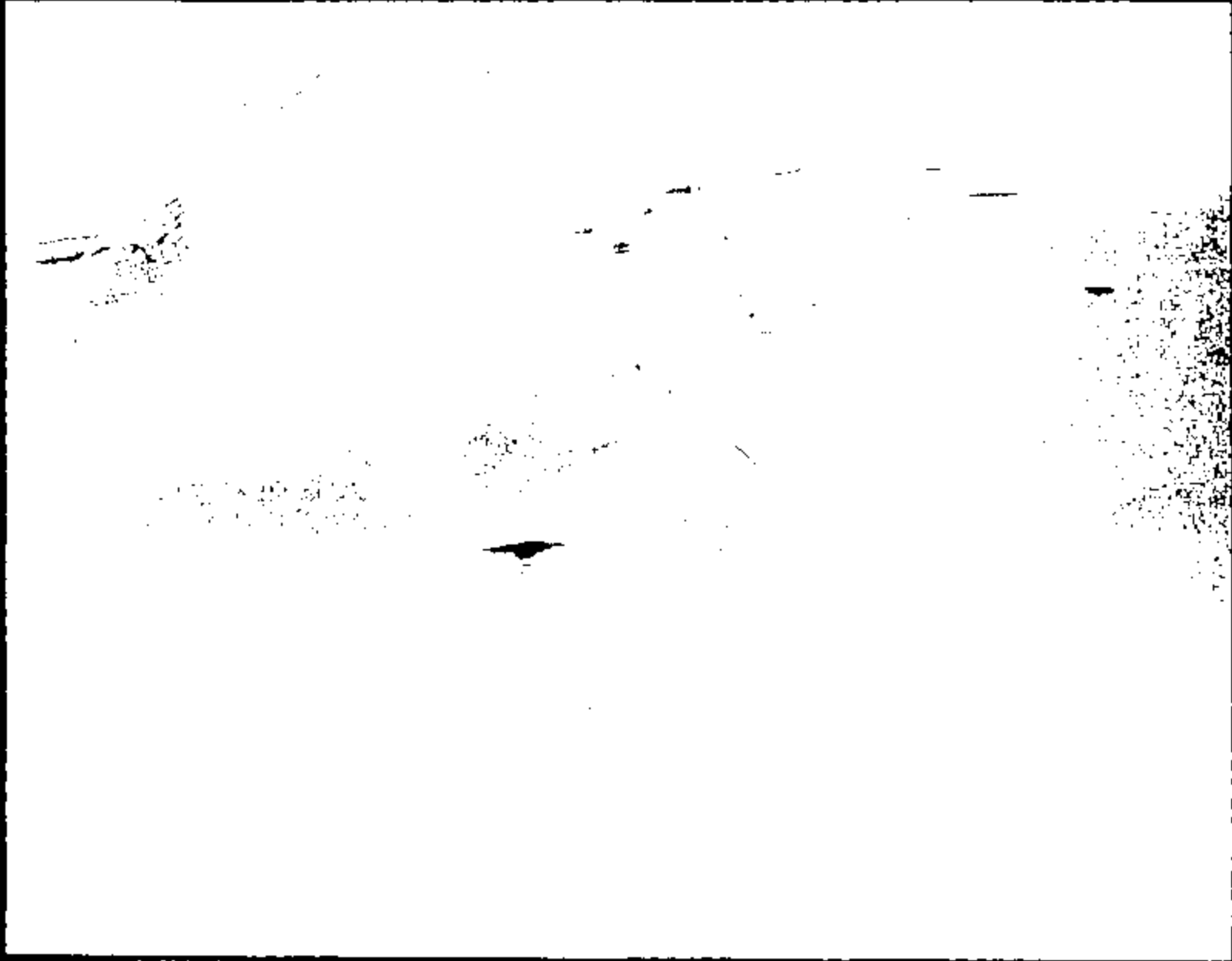
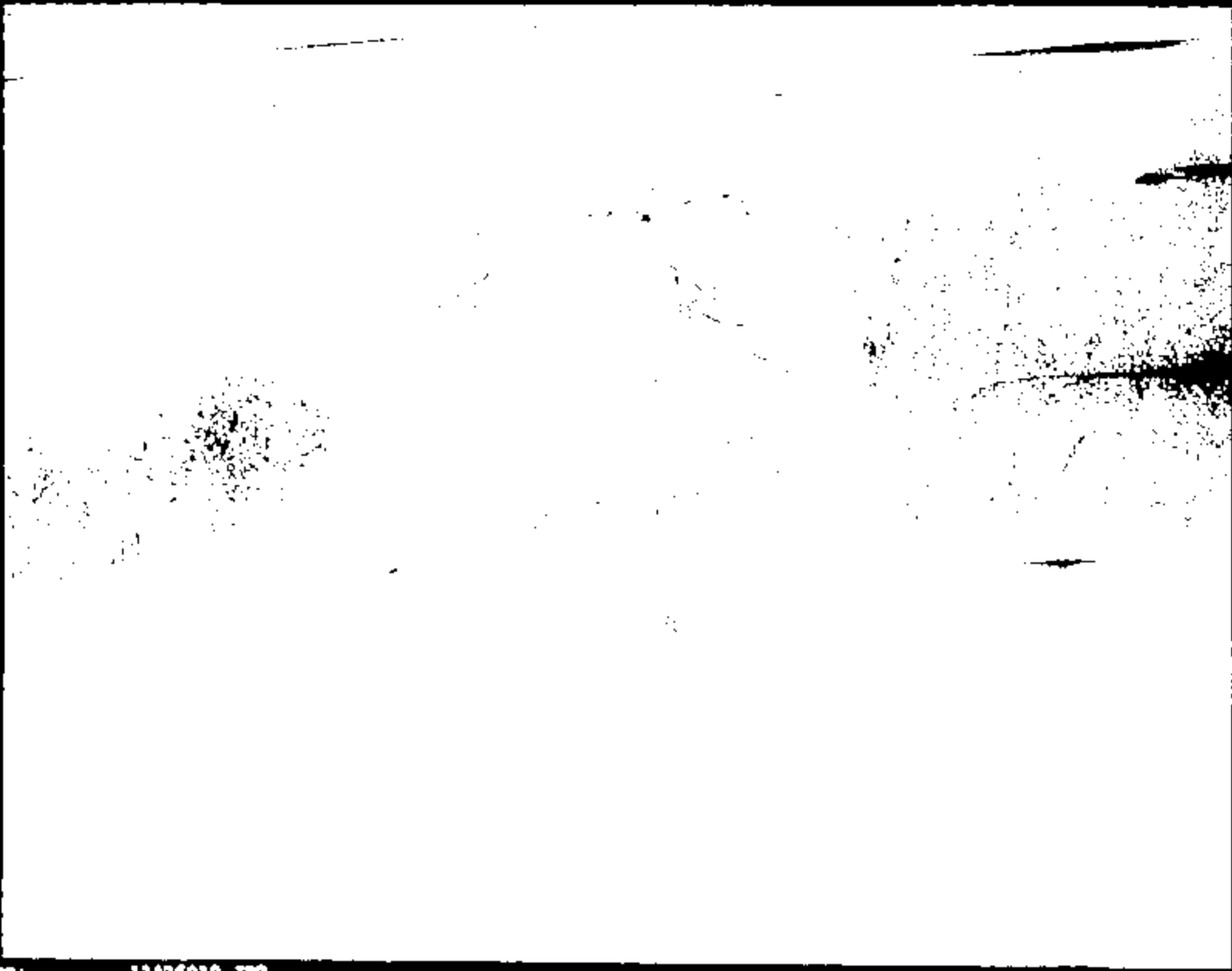


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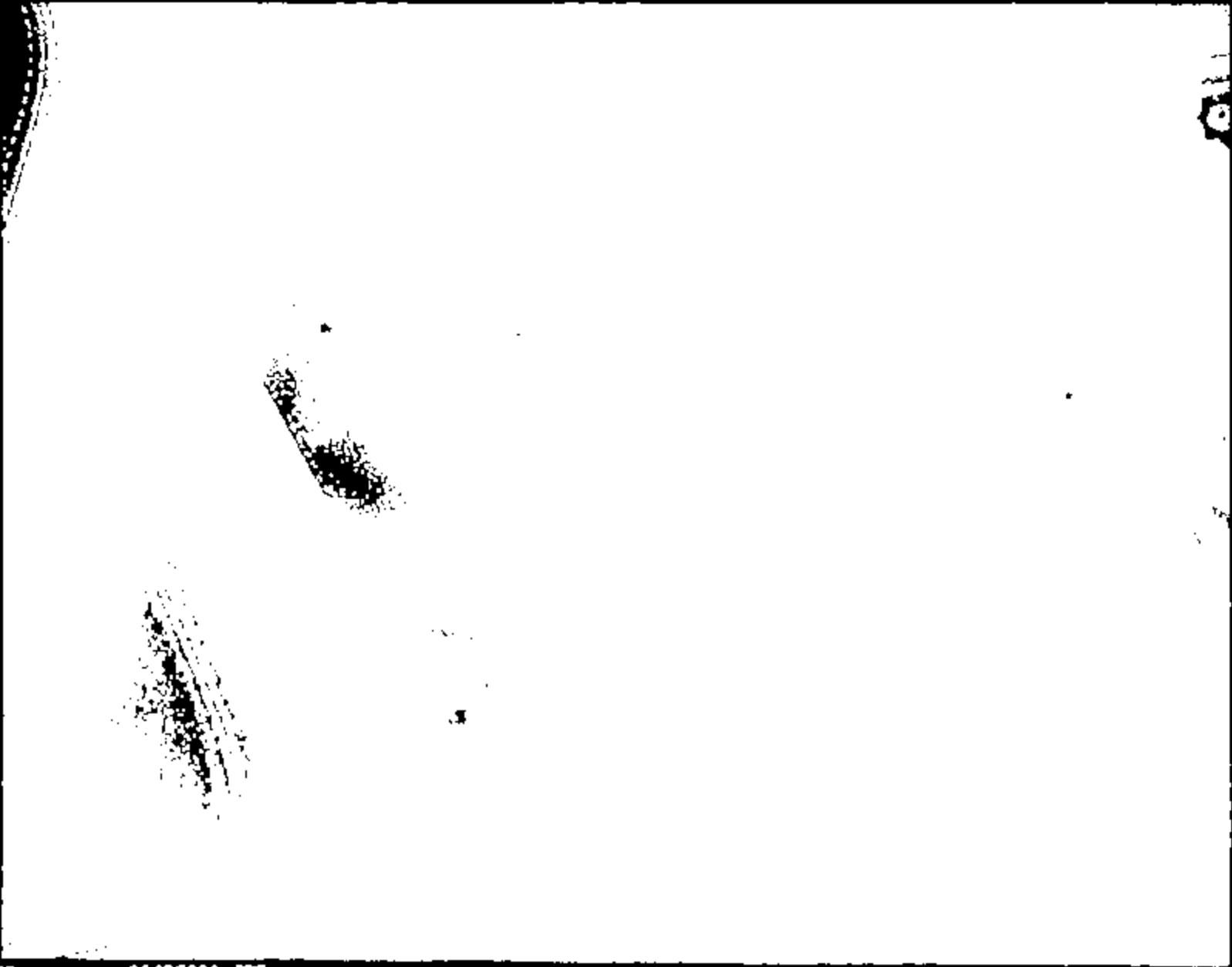


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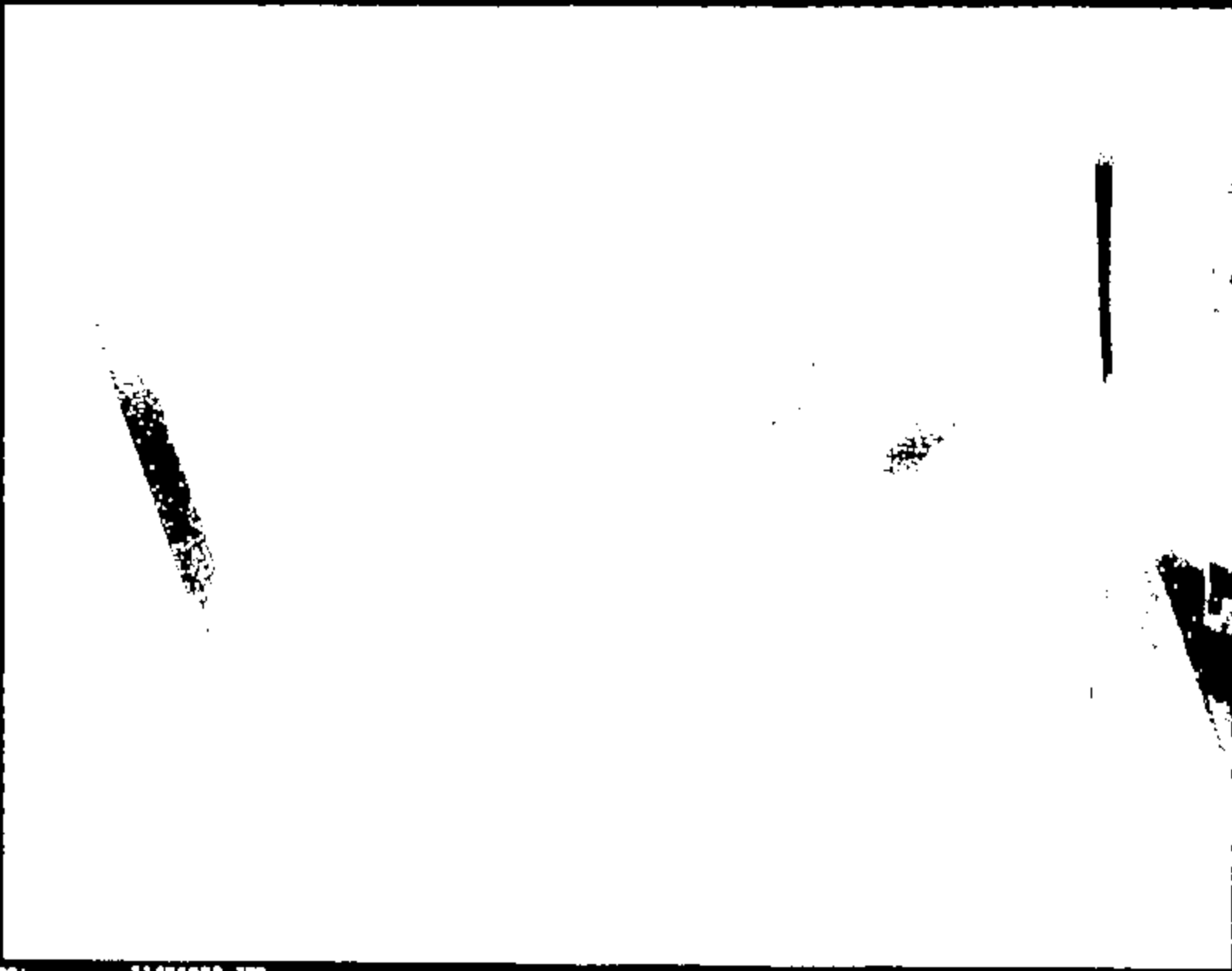


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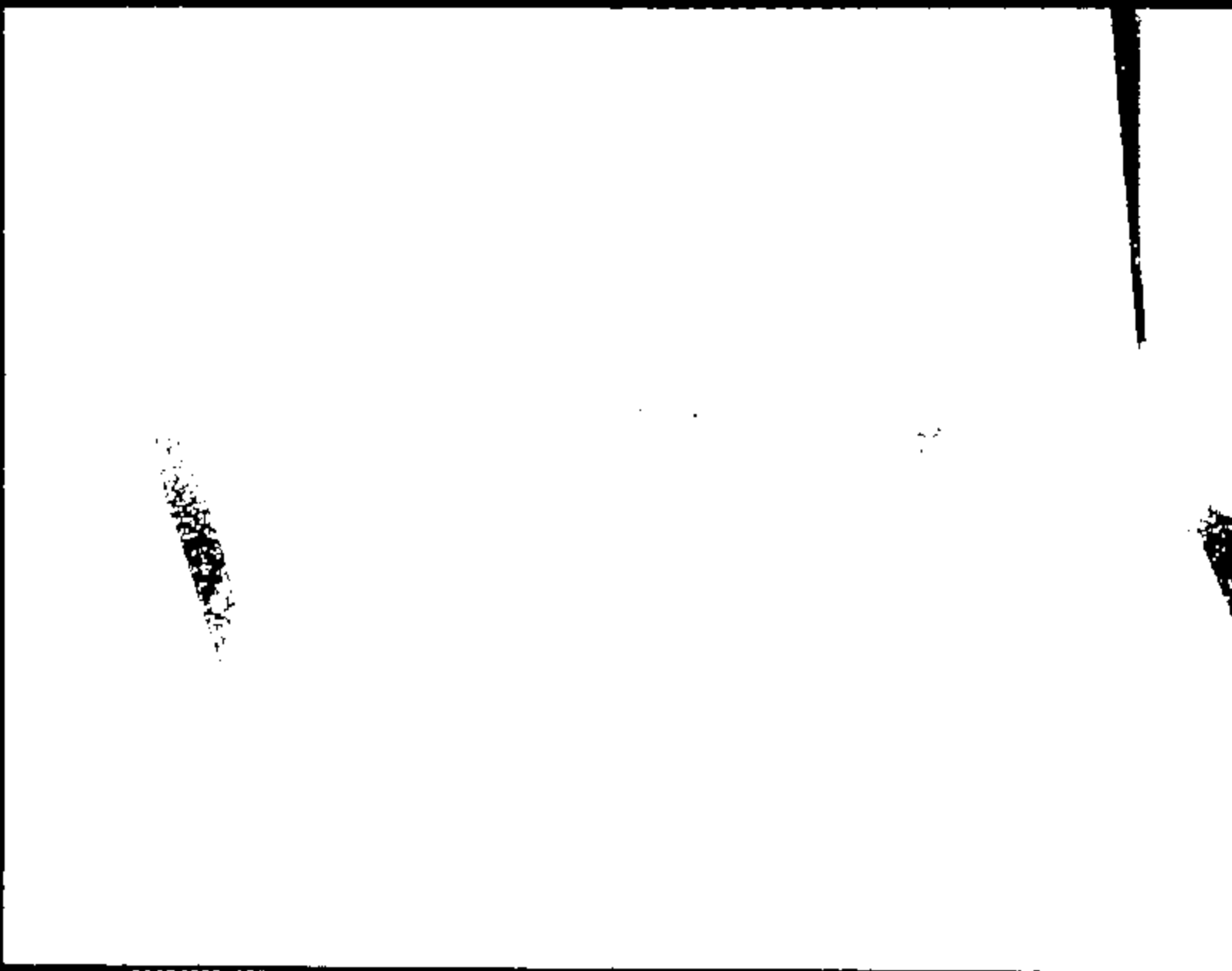


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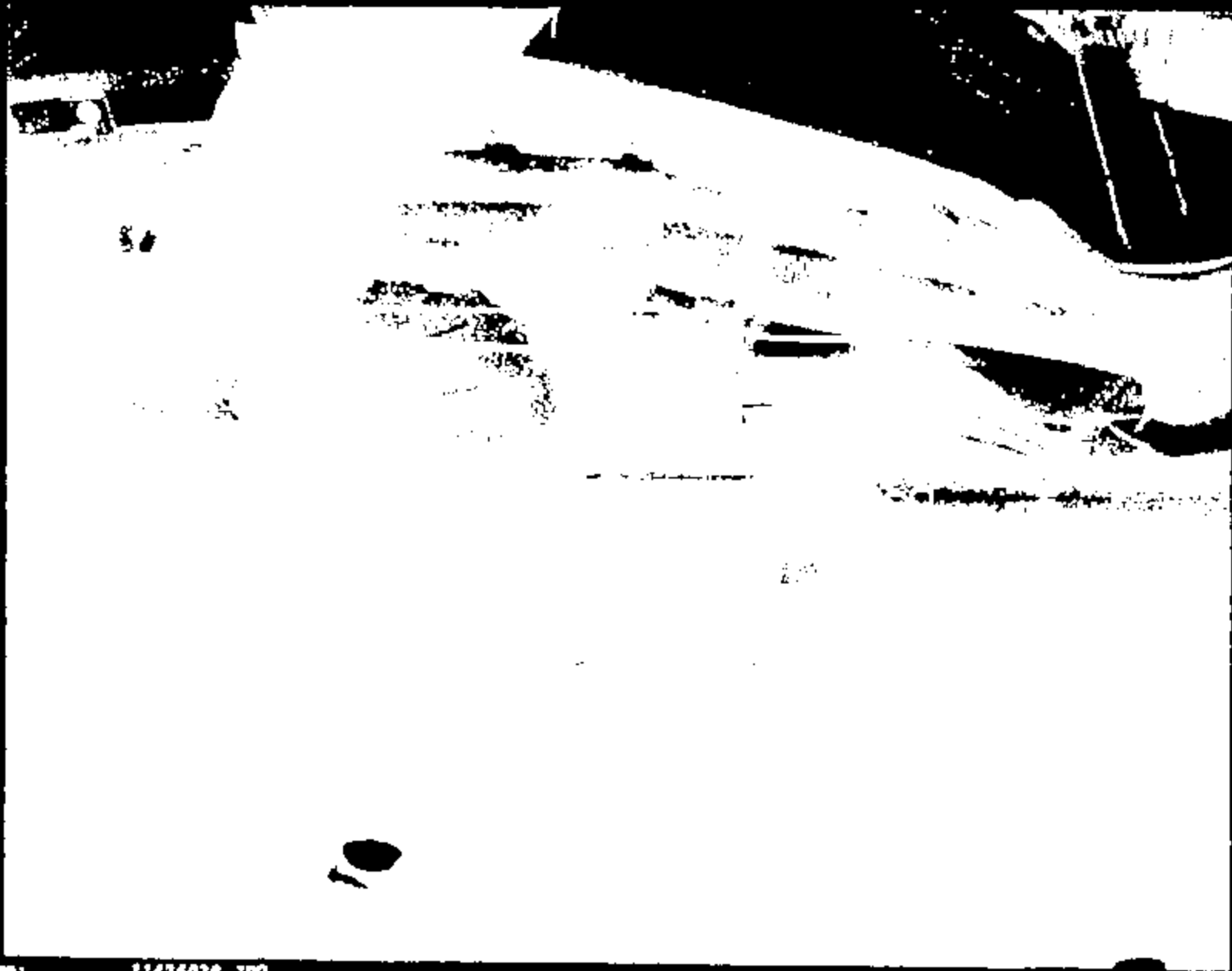


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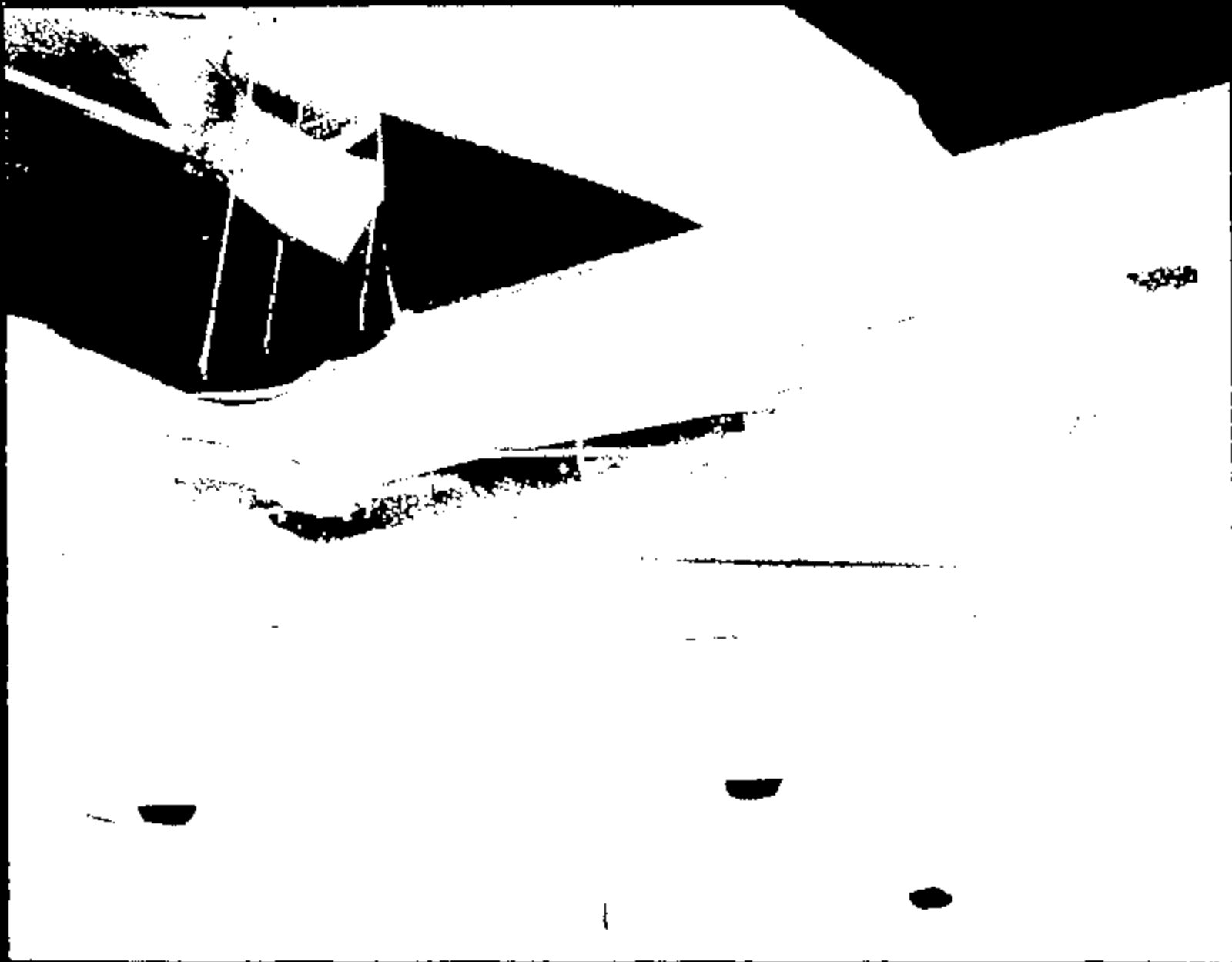


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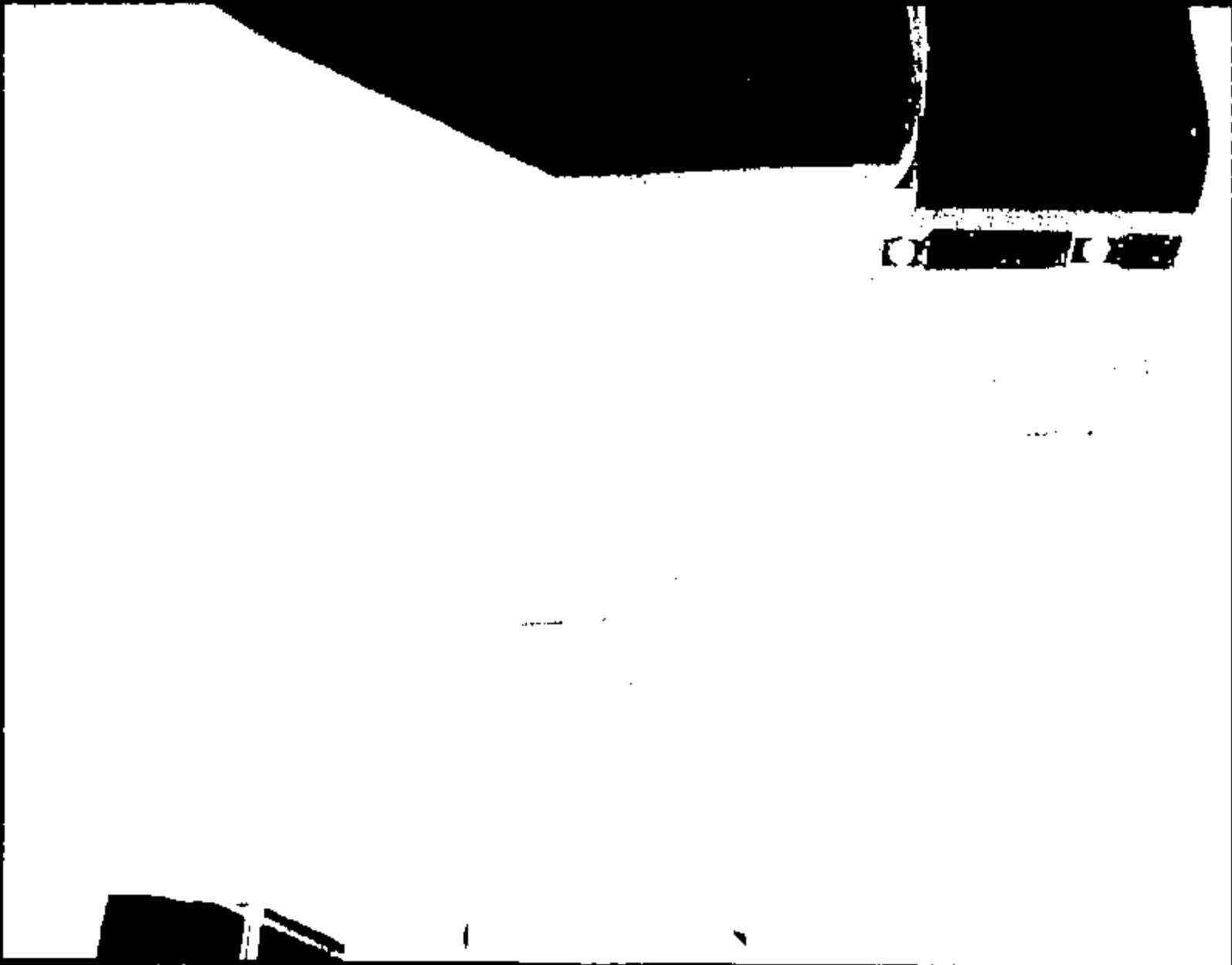
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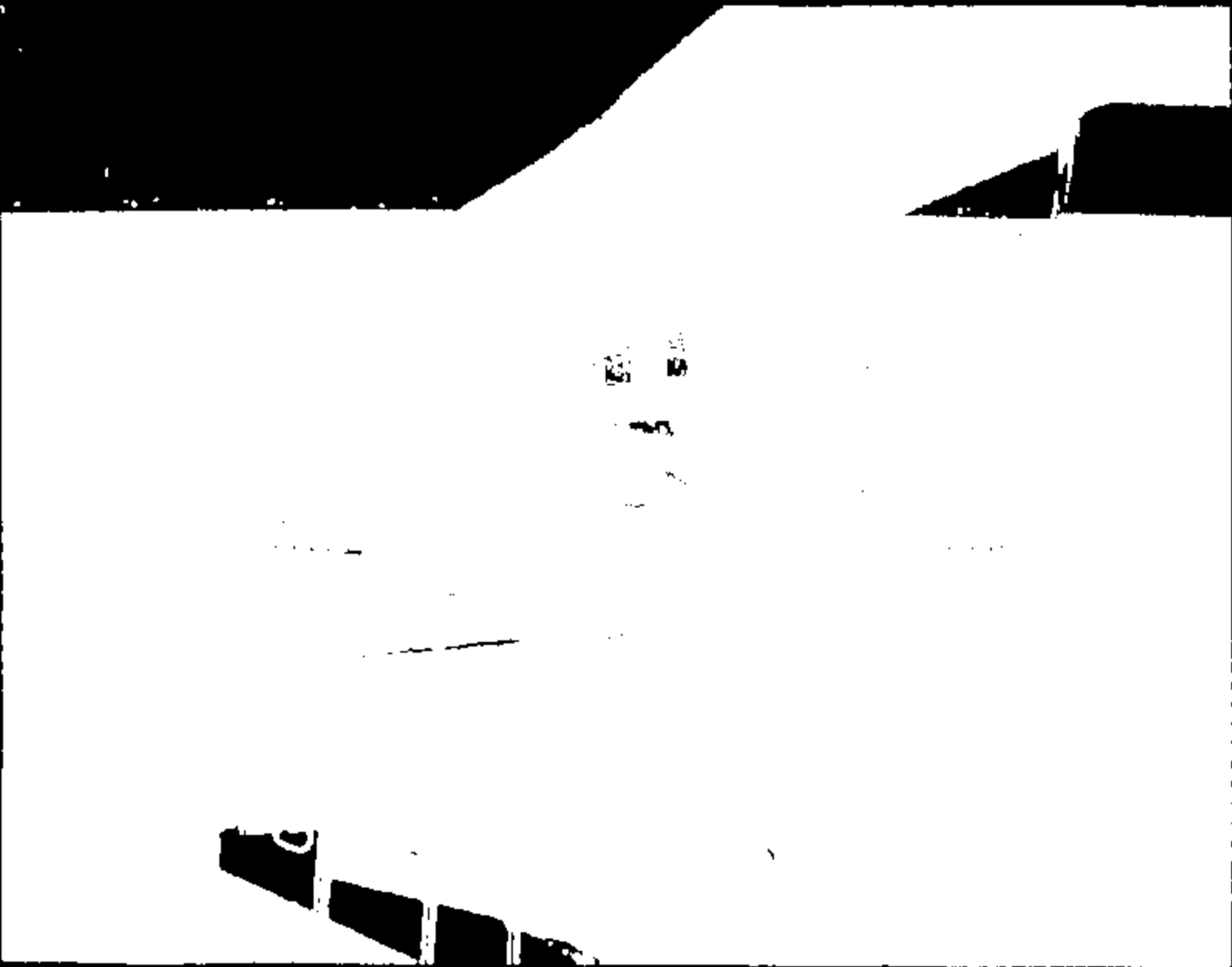


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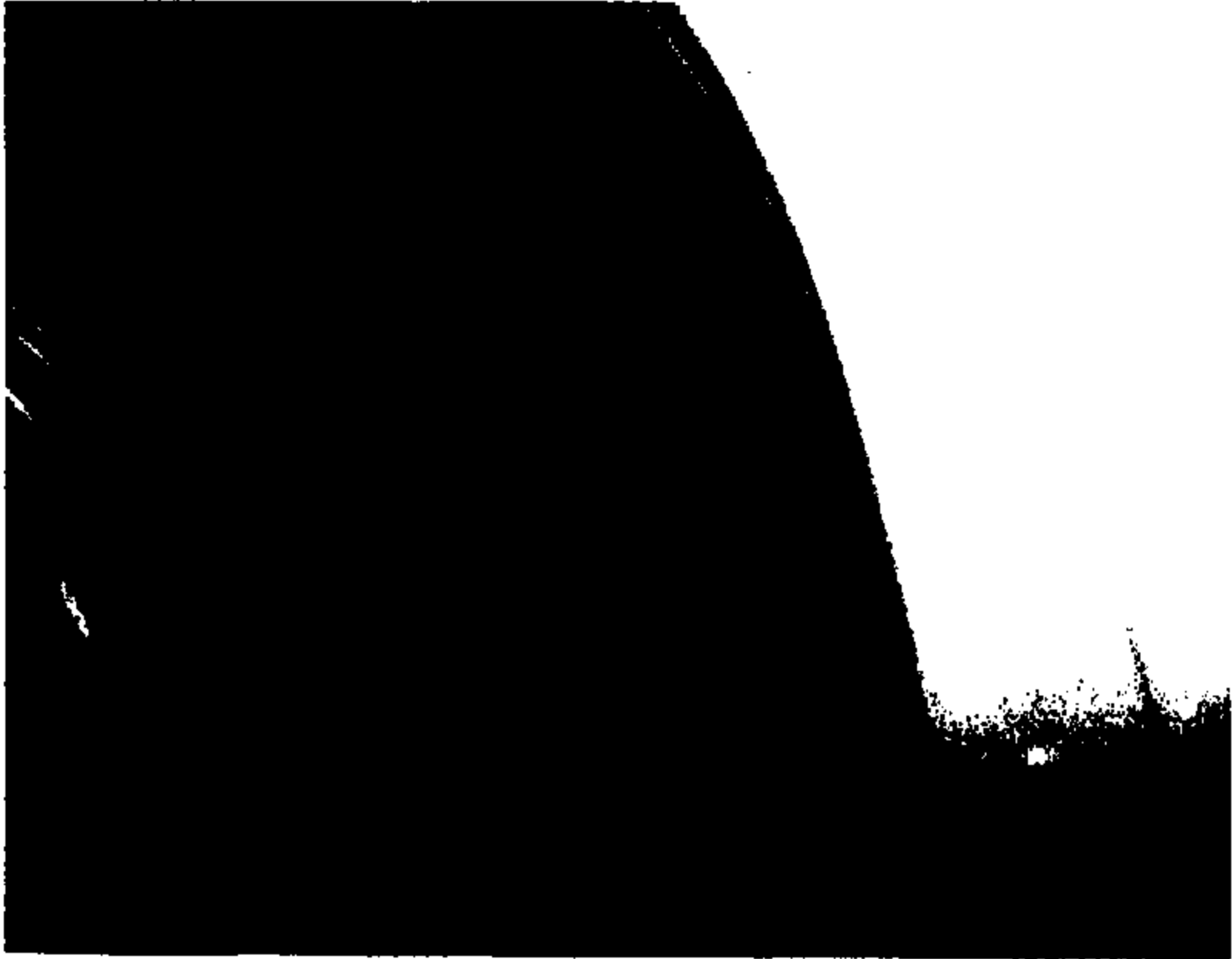
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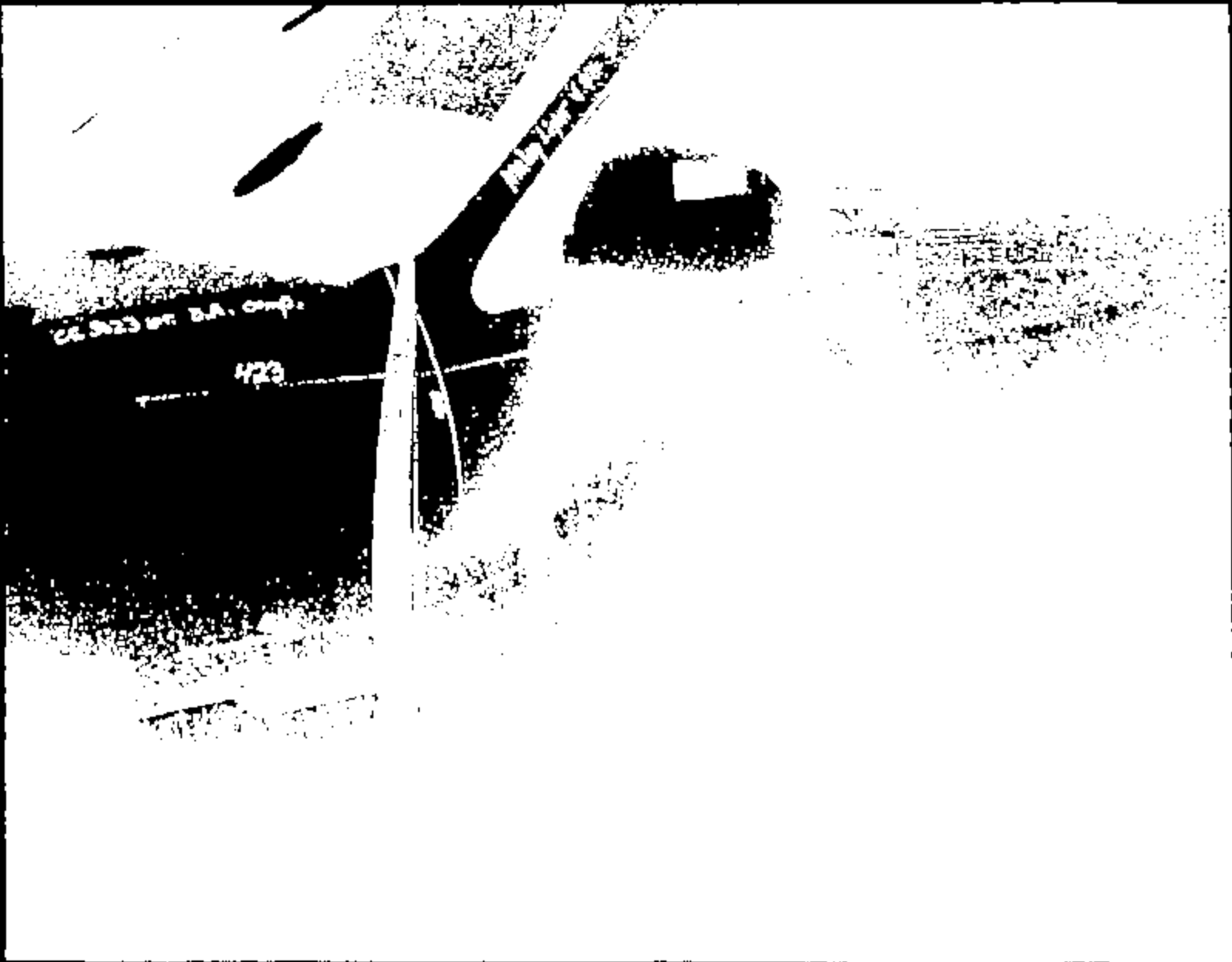
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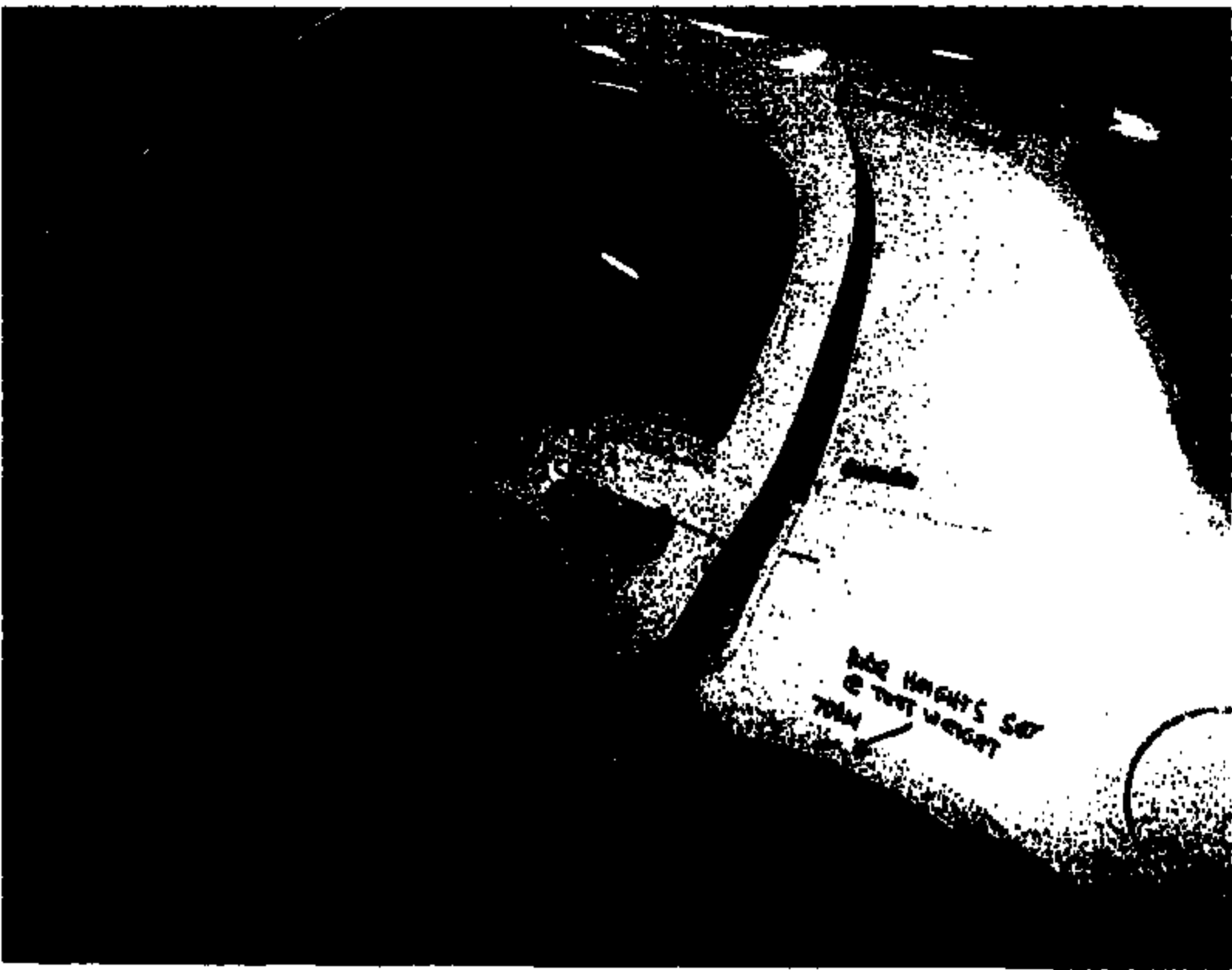
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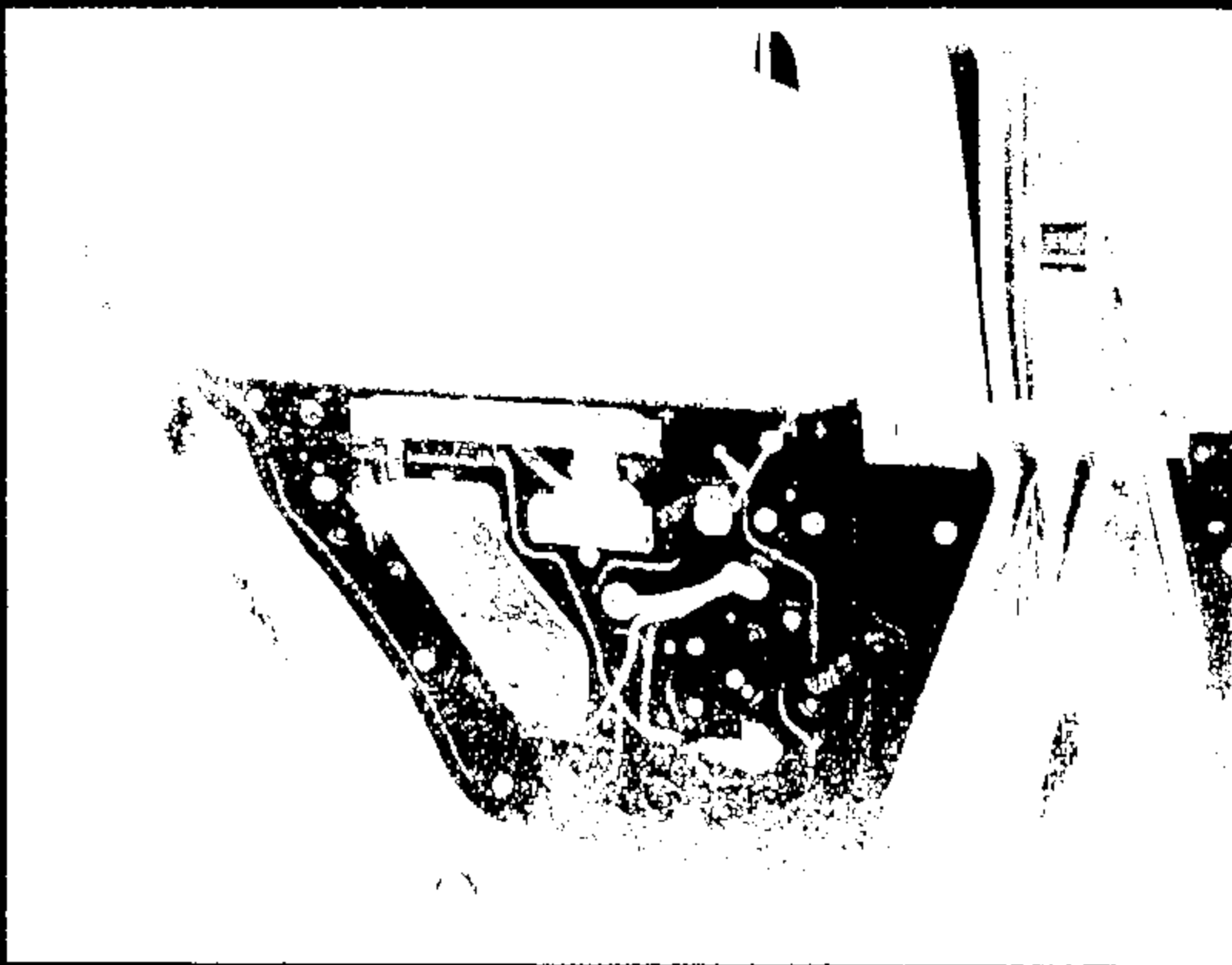


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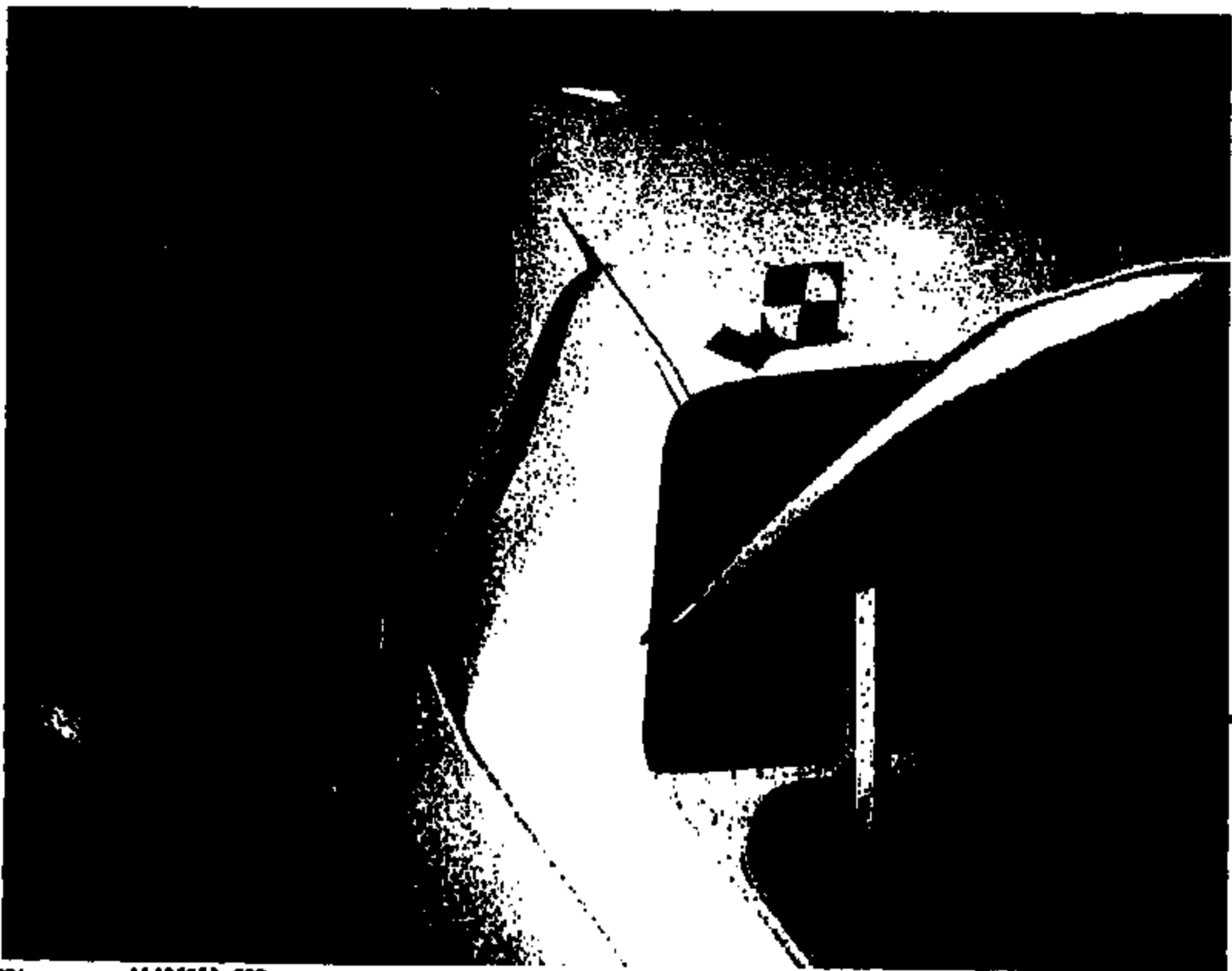
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TEST AUTHORIZATION		TEST AUTHORIZATION NUMBER: TM4782	
TO: Safety Lab Department	REQUEST DATE: 3/17/1999	REQUESTED COMPLETION DATE: 4/15/1999	
CC: K. Arburn	REQUEST NUMBER: n/a	PROBLEM NUMBER: n/a	
REQUESTING ACTIVITY: Vehicle Crash Safety			

TITLE OF TEST: (speed) (test description) 2000.5 FN145 LWB 16mph LH Side Pole (360 mm) Use Rollers		PARTS DUE DATE: n/a	
TYPE OF TEST: <input checked="" type="checkbox"/> VEHICLE <input type="checkbox"/> BENCH <input type="checkbox"/> LABORATORY <input type="checkbox"/> OTHER		VIN # or IDENTIFICATION V000004 - 3000000 1LNH82W20Y0Y87000	VEHICLE MODEL & YEAR: 2000.5 FN145 LWB
ENGINE NO. DISPL. GARD: 4.9L 2V	TRANS / DRIVE/TRAIS: 4DR70W	AXLE RATIO: n/a	PROD. OR ENG. LETTER: n/a
TYPE OF FUEL: None	CONVERTER: n/a	IGNITION TIMING: n/a	DISPOSITION OF PARTS: n/a
CRANKCASE OIL AND CAPACITY (L): n/a		TIRE SIZE AND PLY RATING: P225/65R15	PROCUREMENT REQ ? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, GIVE CODE
VEHICLE TEST WEIGHT: FRONT 2424 REAR 2311 TOTAL 4735		TIRE PRESSURE (psi): FRONT 32 REAR 32	REPORT CATEGORIES: <input checked="" type="checkbox"/> ENGINEERING <input checked="" type="checkbox"/> DATA <input checked="" type="checkbox"/> RAWDATA
		MAIL REPORT TO: BLDG: 2 MAIL DROP: 1296 ADDRESS: 22905	

1. OBJECT OF TEST	2. TEST PROCEDURE (speed) (year) (vehicle) (level)	3. ITEMS TO BE TESTED (NAME, NUMBER, QUANTITY)	RECORD COPY Schedule No. <u>7-2-12</u> Expiry: Until <u>2019</u>
1)	Conduct: 16mph (mode) LH Side Pole (360 mm) Use Rollers	2000.5 FN145 LWB CP	
2)	Velocity At Impact: 16mph Remote Fire Time: Positioning procedure: ST-14	3) Vehicle Year: 2000.5 Vehicle Line: FN145 LWB Vehicle Level: CP	
Test Requester:	J. Wozniak (name)	24-84541 (phone)	JW02 (paper number)
Build Coordinator:	E. Moler	04-57542	EM01
Additional Contacts:			Estimated test cost = \$30,000.00

TESTING SECT. NO. TM1	WORK ORDER/WORK TASK: FIBK	ISSUED/REQUESTED BY: J. Wozniak	PHONE: 24-84541	APPROVAL: K. Arburn	TEST TYPE: n/a	FIBK: n/a	SIGN OFF DATE: n/a
-----------------------	----------------------------	---------------------------------	-----------------	---------------------	----------------	-----------	--------------------

COMPLETE THE FOLLOWING TWO QUESTIONS AS INDICATED:
(Check appropriate boxes)

1 - Rational for not replacing this test by CAE analysis: <input type="checkbox"/> No CAE Methodology or process available <input type="checkbox"/> No CAE Correlation <input type="checkbox"/> Insufficient confidence in CAE. <input type="checkbox"/> To obtain baseline data for CAE <input type="checkbox"/> Replacement or improvement of existing Test. <input type="checkbox"/> Testing is Critical. <input type="checkbox"/> Mandatory or Regulatory Certification <input type="checkbox"/> Development test for F&S <input type="checkbox"/> Not applicable. <input checked="" type="checkbox"/> Other: <u>Senior Development</u>	2 - What is the expected Test Outcome: <input type="checkbox"/> Results will meet DVP/PCR requirements. <input type="checkbox"/> System Component will not meet Test specifications. <input type="checkbox"/> Unknown. <input type="checkbox"/> Above is Based on CAE? <input checked="" type="checkbox"/> Other: <u>Senior Development</u>
---	--

Handwritten signatures and dates:
 [Signature] 3/25/99
 [Signature] 3-25-99

General Request Information

TAA: TB4782

Test Mode

15mph
LH Side Pole (350 mm) Use Rollers

Test Objectives: Cert (C) Verif (V) Dev (D) Audit (A)

REGULATORY:

FMVSS 204 - Steering Wheel Displacement
 FMVSS 208 - Frontal Occupant Protection
 FMVSS 212 - Wind Shield Retention
 FMVSS 214 - Side Impact Protection
 FMVSS 216 - Windshield Zone Intrusion
 Film Analysis
 Template
 FMVSS 301 - Fuel System Integrity
 Rollover
 Pressure Check
 FMVSS 303 - NGV Fuel System Integrity
 ECE 12 (74/287/EEC) - Protection of the Driver Against Steering Mechanism
 ECE 32 Rear Impact - Structural Performance
 ECE 39 Frontal Impact - Structural Performance
 ECE 54 Fuel System Integrity
 ECE 94 Step II Frontal Offset - Occupant Performance
 ECE 95 Step II 300mm Barrier Side Impact - Occupant Performance
 88/75/EC - Frontal Offset
 96/27/EC - Side Impact

FORD AUTOMOTIVE OPERATIONS SAFETY DESIGN GUIDELINES:

Front Impact FAO Safety Design Guidelines
 Offset Frontal FAO Safety Design Guidelines
 Side Impact Protection FAO Safety Design Guidelines
 Rear Impact Fuel System Performance FAO Safety Design Guidelines

OTHER:

D Sensor Development
 Other, Specify: _____

Primary Test Vehicle Information

Use (Target/Buffer):	BULLET
Model Year:	2000.5
Vehicle Program:	FN148 LWB
Vehicle Name:	LINCOLN
Body / Cab Style:	SEDAN
Build Number:	YC080004
Tag Number:	308Y088
VIN Number:	1LN8M81W0XV867058
Fuel System Rated Capacity(Gal):	18
Prototype Level:	CP
Drive Side:	LH

General Specifications Secondary Vehicle or Cart

TA#1 TB4782

Hardware (Vehicle or Cart)

Use (Target/Bullet):	BULLET
Type (Vehicle/Cart):	Grab Cart
Model Year:	
Vehicle Line:	
Model:	
Tag Number:	
VIN Number:	
Prototype Level:	
Drive Side:	

JACW
7/16/99
A

Special Prep/Build Instructions Primary Vehicle

YAP: TB4752

Special Build Instructions

- Remove Side View Mirrors
- Remove Headrests
- Remove Hood
- Remove Arm rest
- Remove Bottom of Bumper Cover
- Cut Off Brake & Clutch Pedal
- Color Contrast Under Hood Components

Other, Specify:

 Install Takata RCM bracket and RCM

Pyro Restraints Usage

- Left Front Air Bag
- Right Front Air Bag
- Left Front Side Air Bag
- Right Front Side Air Bag
- Left Rear Side Air Bag
- Right Rear Side Air Bag
- Left Pyro Retractor
- Left Pyro Buckle
- Right Pyro Retractor
- Right Pyro Buckle

Other, Specify:

- Remote Fire Time:
(No fire time listed if sensor fired OR if no pyro restraints are used)
- Remote back-up Fire Time:

Special Pre-Test Preparation

Other, Specify:

**Occupant / ATD Request
Primary Vehicle**

TAG: TB4782

	Occupant 1	Occupant 2
Type	<u>BUCSD</u>	<u>N/A</u>
Instrumentation Level*	<u>Uninstrumented</u>	<u>N/A</u>
In-Vehicle Location	<u>Left Front</u>	<u>N/A</u>
Verify:		
Seat Position Long	<u>Mid Track Trough</u>	<u>N/A</u>
Seat Position Vert	<u>Full Down</u>	<u>N/A</u>
Seat Back Angle	<u>29 degree</u>	<u>N/A</u>
Positioning Procedure	<u>ST-14</u>	<u>N/A</u>
Use Foot Rest	<u>Yes</u>	<u>N/A</u>
Take Seat Track Video	<u>N/A</u>	<u>N/A</u>
Special Positioning Instructions		
Dummy Adjustment (arm angle)	<u>N/A</u>	<u>N/A</u>
Occupant Belted	<u>YES</u>	<u>N/A</u>

*See instrumentation request for detailed instrumentation information.

Test Conditions - Final Prep

TAF: TB4782

Final Prep Contacts

ONE of these MUST be present during weigh-up & final prep

	Test Engineer	Request Engineer	Build Coordinator
Name:	_____	<u>J. Wozniak</u>	<u>E. Meier</u>
Phone:	_____	<u>24-84841</u>	<u>84-57842</u>
Pager:	_____	<u>JWCZ</u>	<u>EMJ</u>

Test Weight

_____	Minimum Option Weight	GWWF: _____
<u>X</u>	93% Option Weight	Wheelbase: <u>123.7"</u>
_____	Maximum Option Weight	

Tire Pressure

Front: 32 psi Rear: 32 psi

Fuel System

Fuel Tank & Systems to Contain: None

_____	0 gallons	-	_____	0 %	x	_____	19.0 gallons
_____	Fill Level	=	_____	%	x	_____	Capacity

Weight Targets

If required weight distribution is UNACHIEVABLE, please note allowable variations.

	Curb Weight	Requested Test Weight	Acceptable Test Weight Variation		Actual Test Weight
			High (+)	Low (-)	
Front:	_____	<u>2,424 lbs</u>	Front: <u>19 lbs</u>	<u>0 lbs</u>	Front: <u>2,400</u>
Rear:	_____	<u>2,311 lbs</u>	Rear: <u>15 lbs</u>	<u>0 lbs</u>	Rear: <u>2,538</u>
Total:	_____	<u>4,735 lbs</u>	Total: <u>26 lbs</u>	<u>0 lbs</u>	Total: <u>4,938 (P)</u>

Rated Luggage Load: 200 lbs

Target Test weight is 4735lbs including casters.
CONTACT REQUESTER IF TARGET WEIGHT CANNOT BE ACHIEVED

Simulate/Verify at Weigh-Up

Dummy Weight

On Board Camera Coast

Weight Addition (Restrictions)

Do NOT place any weight in the following locations:

- | | | |
|---|--|--|
| <input type="checkbox"/> Air Cleaner | <input type="checkbox"/> Engine | <input checked="" type="checkbox"/> Doors |
| <input type="checkbox"/> Battery | <input type="checkbox"/> Fan Box/Shroud | <input checked="" type="checkbox"/> Foot Wells - Front |
| <input type="checkbox"/> Bottle - Coolant | <input type="checkbox"/> Headlamp Covers | <input checked="" type="checkbox"/> Foot Wells - Rear |
| <input type="checkbox"/> Bottle - Washer | <input type="checkbox"/> Radiator | <input type="checkbox"/> Quarter Panels |
| Other: _____ | | <input type="checkbox"/> Trunk Floor |

Ride Heights

Measure @ Test Weight	Measure
Front: <u>718 mm</u>	Front: Wheel to _____
Rear: <u>707 mm</u>	To: Ground _____

Additional Remarks

DO NOT fill tank with stockard until weigh-up

**Dimensional Analysis Request
Primary Vehicle**

TAG: TB4782

Impacts

PRE	POST			
X		404	Control Points (CAR)	Exterior
		405	Control Points (TRUCK)	Exterior
		409	Body Targets & Orientation Points (Wheel Lips)	Exterior
		411	A.B.C. Pillars	Interior
X		417	Pre-Crash Lateral Seat CL's, H-Pls, etc	Exterior/Interior
		418	NHTSA Barrier face Profiles (Mid-Bumper, Mid-Stack, Top of Bumper)	Exterior
		419	European Barrier face Profiles (Mid-Bumper, Mid-Stack, Top of Bumper)	Exterior
X	X	421	Roof line exterior section	Exterior
X	X	423	Beltline exterior section (1st 50mm Body line below glass/weather strip)	Exterior
X	X	425	Mid-line exterior section (plan view @ 500 mm Body line)	Exterior
X	X	427	Character line exterior section (plan view @ 500 mm Body line)	Exterior
X	X	429	Bottom of door exterior section	Exterior
X	X	431	Rocker line exterior section (1st 10 mm Body line below door opening)	Exterior
		433	Roof line interior section	Interior
X	X	435	Beltline interior section	Interior
X	X	437	Hip line interior section	Interior
X	X	438	Hinge Pillar exterior section (1st 50mm Body line forward of Hinge plate)	Exterior
X	X	439	500 mm Body line interior and exterior sections	Exterior/Interior
X	X	440	Front H-Point Mid-Seat Location interior and exterior sections (per package)	Exterior/Interior
X	X	441	B-Pillar interior and exterior sections (1st 50mm Body line rearward of pillar p)	Exterior/Interior
		442	Rear H-Point Location interior and exterior sections (per package)	Exterior/Interior
			MOB: Position MOB centerline at left front seat BSRP (x = 304mm)	
			Strip windshield & backlite @ left front seat centerline (y = -370mm)	
			Mark left front seat frame pivot point	
X		530	Pre-crash accelerometer locations	
X		580	Scrub impact reference line	
			Mark OBCAR & Eurocol H-points on exterior of left front door	

Film Analysis & Photographic Services RequestTAG: TB4782**Side Impact Film Analysis**

Impact Speed
 Impact Angle
 Dummy Head wrt Vehicle Lateral
 Dummy Head wrt Vehicle Vertical
 Dummy Head wrt Vehicle Resultant
 Car wrt Vehicle Impact Point
 Dummy Chest wrt Vehicle
 Car wrt Vehicle Intrusion (overhead)
 Vehicle wrt Pole Intrusion (overhead)
 Dummy Head wrt Pole

Other, Specify:

Still Photography

Copies of Still Photo Proof Sheets Required
 Copies of Still Photos (4X5) Required
 Pre Test Documentation Photographs
 Post Test Documentation Photographs

High Speed Photographic Requirements

1 Copies of High Speed Film Required
 Copies of High Speed Film Required in VHS Format
 Digitization of Driver/Passenger Kinematics
 Format

High Speed Cameras for Side Impact**On-Board Vehicle**

Front Dummy from Vehicle Hood
 Front Dummy from Vehicle Hood (Low)
 Front Dummy from Opposite Window Opening
 Rear Dummy from Opposite Window Opening
 Rear Dummy from Trunk
 Front Dummy Over Shoulder from Decklid (right)
 Front Dummy Over Shoulder from Decklid (left)
 View of Front Seat to Show Dummy Interaction w/Trim from Front (Fiber optic)
 View of Front Seat to Show Dummy Interaction w/Trim from Rear (Trunk left)

Requester/Originator: JWC/DMH
 Present: MBB/MS Finally: BSM/SL
 Destroy Prev. Copies

Film and Photo Attachment
 Page 2 of 14

SP-1000-00
 Van S. Bell, Technical Staff 16, NBS
 Author: CharlesJ.Peters@NBS

CRTS 0011426

TA#: TB4782

Floor Coverage

- Full Left View of Impact
- Full Right View of Impact
- Front 3/4 View of Impact
- Rear 3/4 View of Impact
- View of Cart for Velocity determination

PR Coverage

- Cart contact - view of impacted side of vehicle with cart contact
- Cart contact - overlap view of impacted side of vehicle with cart contact
- View of impacted side of vehicle with pole

Overhead Coverage

- Overall view of impacted vehicle side including cart
- View of impacted vehicle side focus on front door opening area
- Overall view of impacted vehicle side including pole

All Other High Speed Photography

Instrumentation and Data Processing Request

TAF: TB4782

Primary Vehicle Structural Instrumentation - Side Impact

ACCELEROMETERS:		Long	Vert	Lat
<input type="checkbox"/>	L/ A-PILLAR_INSIDE @_ROCKER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	L/ A-PILLAR_INSIDE @_HINGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	R/ A-PILLAR_INSIDE @_HINGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	L/ F_DOOR @_BELTLINE_MID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L/ F_DOOR_OVER_ARMREST	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L/ F_DOOR_REAR_OF_SEAT_H-PT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L/ F_DOOR_SPEAKER_HOLE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L/ B-PILLAR_INSIDE @_ROOF	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L/ B-PILLAR_INSIDE @_BELTLINE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L/ B-PILLAR_INSIDE @_ROCKER	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L/ R_DOOR @_BELTLINE_MID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L/ R_DOOR_OVER_ARMREST	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L/ ROCKER @_FRONT_SEAT_MID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L/ ROCKER @_REAR_SEAT_MID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	R/ ROCKER @_FRONT_SEAT_MID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	R/ ROCKER @_REAR_SEAT_MID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	FRONT_FLOOR_PANEL @_CL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	FLOOR_XMFR @_LF_SEAT_CL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	FLOOR_XMFR @_RF_SEAT_CL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	CL_TUNNEL @_FRONT_SEAT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	REAR_FLOOR_PANEL_ABOVE_ANGLE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	NEAR FUEL INERTIA SWITCH	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER STRUCTURAL ACCELS:		Long	Vert	Lat
<input type="checkbox"/>	L/A-PILLAR @ FUEL INERTIA SWITCH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	L/B-PILLAR INSIDE @ HARNES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	L/B-PILLAR INSIDE @ Z-60mm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	R/B-PILLAR INSIDE @ ROCKER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Primary Vehicle Systems InstrumentationTAB: TB4782**SENSOR ACCELS:** See Sensor Map

Lang

Vert

Lat

MONITOR AIR BAG SENSORS: See Sensor Map
 Monitor Closure of Each Specified Sensor
 Monitor Closures of Single Pt Elect Sensor**RESTRAINT LOADS:** Left Belt Tongue - Strain Gaged
 Left Pyro-Technic Buckle Squib Voltage
 Left Pyro-Technic Buckle Squib Current
 Right Belt Tongue - Strain Gaged
 Right Pyro-Technic Buckle Squib Voltage

 Right Pyro-Technic Buckle Squib Current
 Left Lap Belt at Anchor Load
 Left Torso Belt at Retractor Load
 Left Torso Belt at D-ring Load
 Right Lap Belt at Anchor Load
 Right Torso Belt at Retractor Load
 Right Torso Belt at D-ring Load**MONITOR AIR BAGS STATUS:** Driver Side Airbag Squib Voltage
 Driver Side Airbag Squib Current
 Driver Squib Voltage
 Driver Squib Current
 Driver Bag Pressure
 Passenger Squib Voltage
 Passenger Squib Current
 Passenger Bag Pressure
 Passenger Inflator Pressure**STEERING COLUMN:** Stroke Break Wires
 Tilt Mechanism Break Wires
 String Pot
 Load Cell (5 Axis)

SWITCHES: Engine to Rad Support left
 Engine to Rad Support center
 Engine to Rad Support right
 Brake booster to shock tower**FUEL SYSTEM:** Inertia Fuel System Cut-Off Switch

List of Test Contacts

TAF: TB4782

	Last name	Phone	Pager	Profile
Requestor	J. Wozniak	24-84841	JWOZ	JWOZNA1
Approving supervisor	K. Arthur	89-06168	KART	KARTHURS
Build coordinator	E. Molar	84-57542	EMEI	EMEIER
Test Engineer				
Senior Engineer	Kemnitz, Erich	24-51602	EKEM	EKEMINTZ
Technician	Michalec, Mike	82-36821	505-2063	MMCHALEE

	Last name	Phone	Pager	Profile
Seats				
Instrument panel				
Restraints				
Air bag (driver)				
Air bag (passenger)				
Steering column				

CRTS 0011426

Requestor/Engineer: JWOZNA1
 Requestor/Approving Supervisor: KARTHURS
 Requestor/Build Coordinator: EMEIER

Contact List Attachment
 Page 12 of 14

10/19/02
 Mr. E. J. ...
 ...

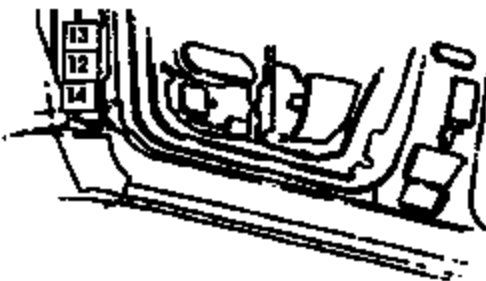
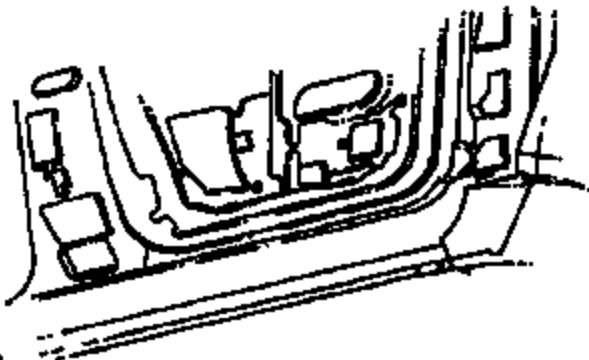
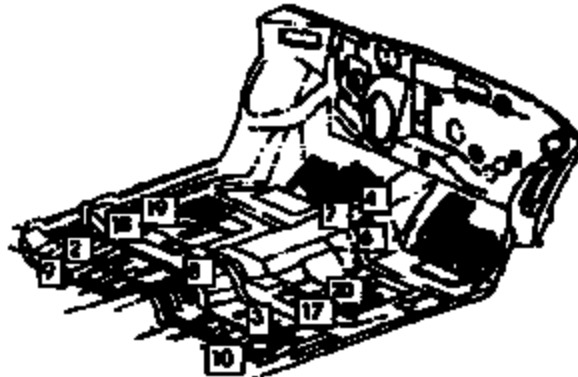
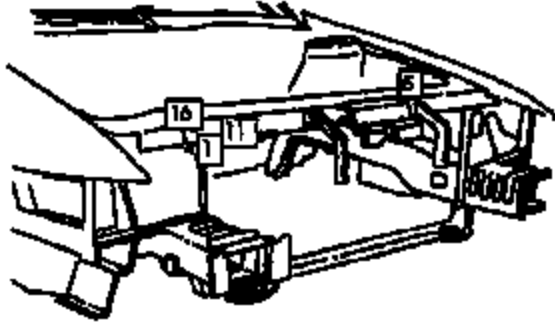
ENTIRE PAGE CONFIDENTIAL

Program: 2001.E LWB
 Vehicle ID: 300W009
 Build level: FN145 Side
 Test Mode: 15mph LH Pole

SENSOR MAP

7B478Z

Engineer: Erich Kemnitz
 Phone #: 248-1602
 Date: 05/29/1998
 Time: 9:20 AM



Location Name	Type	Output	Sensor Channels only		
			Nominal (+/-)	Min/Max	Serial #
1 R/C/Front RAD SUPPORT_TAK		Sensor	Takata FCS No ODAS output		FCS-GB-A??
2 L/F FLOOR PAN @ #2 XMBR CTR_ME		Sensor	Siemens SCS No ODAS output		
3 R/F FLOOR PAN @ #2 XMBR CTR_ME		Sensor	Siemens SCS No ODAS output		
4 CTR TUNNEL @ DASH_SM	occol	TRAX	Near RCM		
5 L/C/Front RAD SUPPORT_SM	occol	LONG			
6 CTR TUNNEL @ DASH_RCM	occol	TRAX	On RCM		RCM-GEN-A??
7 CTR TUNNEL @ DASH_TAK1	TAKATA RCM1	Sensor	2.5v (+/- 200mV)	10 / 0 V	SR01
8 CTR TUNNEL @ DASH_TAK2	TAKATA RCM2		2.5v (+/- 200mV)	10 / 0 V	SR01
9 CTR TUNNEL @ DASH_TAK3	TAKATA RCM3		2.5v (+/- 200mV)	10 / 0 V	SR01
10 CTR TUNNEL @ DASH_TAK4	TAKATA RCM4		2.5v (+/- 200mV)	10 / 0 V	SR01
11 C/L_TNL_BETWEEN_F/SEATS_SM	occol	TRAX			
12 L/F FLOOR PAN @ #2 XMBR CTR_SM	occol	TRAX	Near Siemens SCS Sensor		
13 R/F FLOOR PAN @ #2 XMBR CTR_SM	occol	TRAX	Near Siemens SCS Sensor		
14 R/C/Front RAD SUPPORT_FCS	occol	LONG	On FCS sensor		
15 R/A-PLR_IN @_RKR_ME	Siemens RCM		Siemens RCM No ODAS output		
16 R/A-PLR_IN @_RKR_BRK1	occol	TRAX	On RCM		
17 R/A-PLR_IN @_RKR_SM	occol	TRAX	On SM near RCM		
18 Not Used					
19 R/C/Front RAD SUPPORT_SM	occol	LONG			
20 L/F FLOOR PAN @ #1 XMBR CTR_TAK	Sensor		Takata SCS No ODAS output		
21 R/F FLOOR PAN @ #1 XMBR CTR_TAK	Sensor		Takata SCS No ODAS output		
22 L/F FLOOR PAN @ #1 XMBR CTR_FCS	occol	LAI	On Takata SCS Sensor		SCS-GB-A??
23 R/F FLOOR PAN @ #1 XMBR CTR_FCS	occol	LAI	On Takata SCS Sensor		SCS-GB-A??

Contacts: Ford: Erich Kemnitz 248-1602
 Takata: Mike Mohale 325-4621
 Siemens: Todd Clark 248-253-2704, 390-1816
 Note: serial numbers will be updated as parts arrive.

