

EA03-014

**FORD 12/11/03
LETTER TO ODI**

ATTACHMENT G

BOOK 4 OF 10

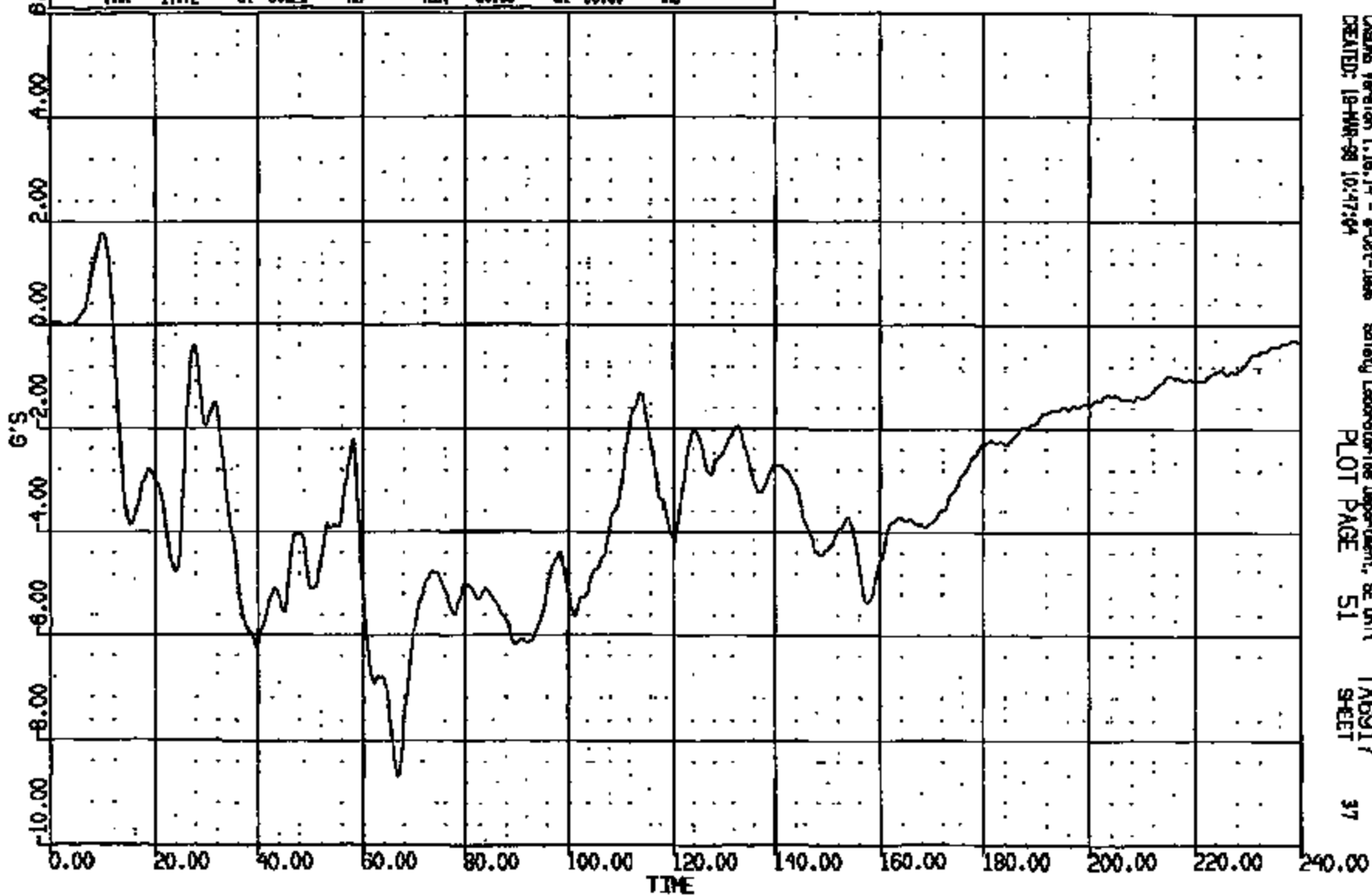
PART 4 OF 4

CR R: 11045 TO: TAB917 DATE: 880818 10:12:50
1999 FN-145 1999 FN-145

(37) CR11045T UND L/F SEAT @ L/R BOLT SH #31 LAT 60C

MAX = 1.772 at 9.920 NS MIN = -8.703 at 66.80 NS

AXIS 1



CASIMS Version 1.18.14 - 8-Oct-1988
CREATED: 18-HW-88 10:47:04

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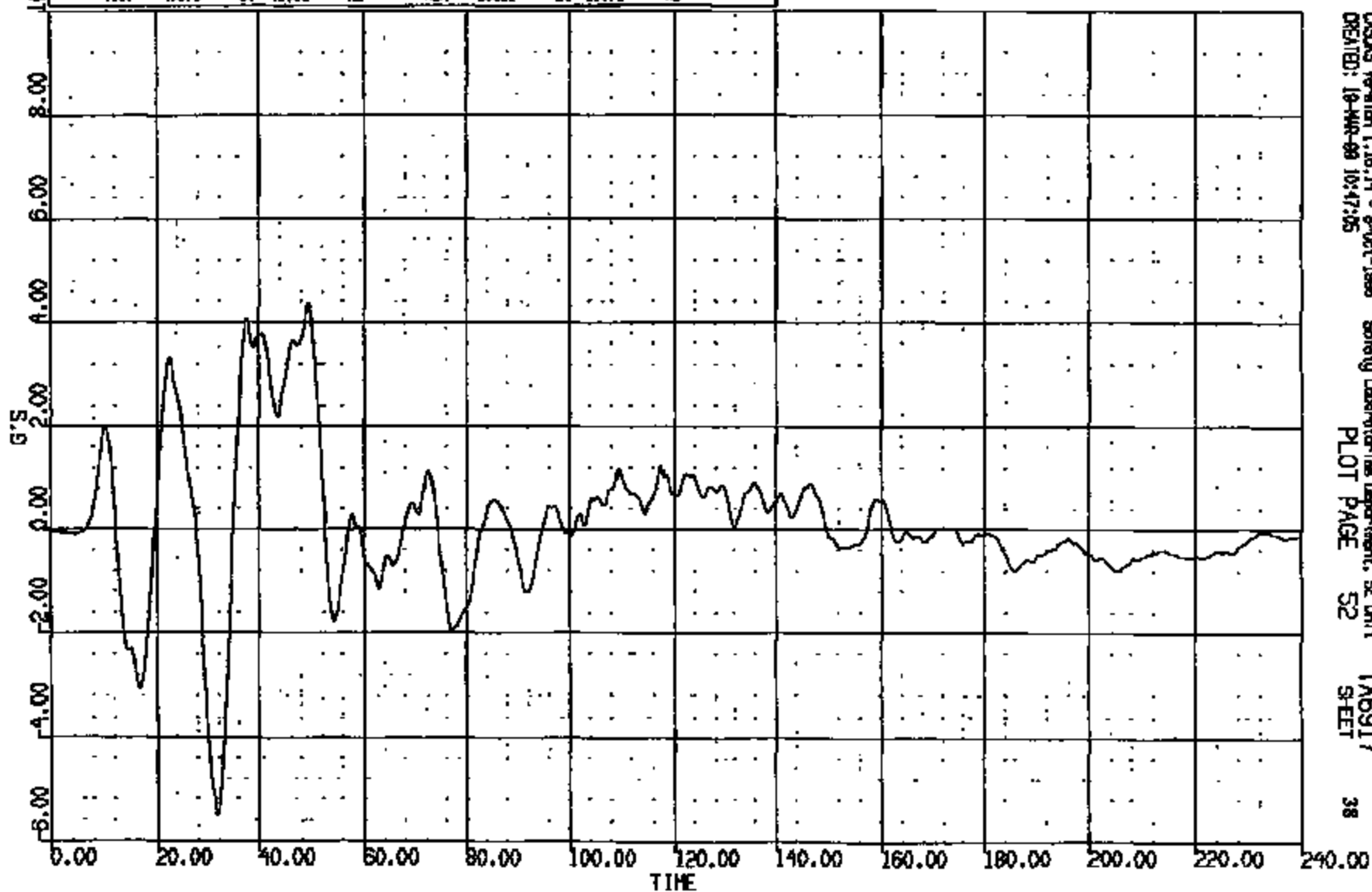
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CR R: 11045 TO: TAB917 DATE: 990519 10:12:50
1999 FN-145 1999 FN-145

(38) CR110451 UND L/F SEAT @ C/L XMR #27 LONG 60C

MAX = 4.373 at 49.36 NS MIN = -5.531 at 31.76 NS

AXIS 1



CASAS Version 1.16.14 - 8-Oct-1999
CREATED: 19-MAR-99 10:47:05

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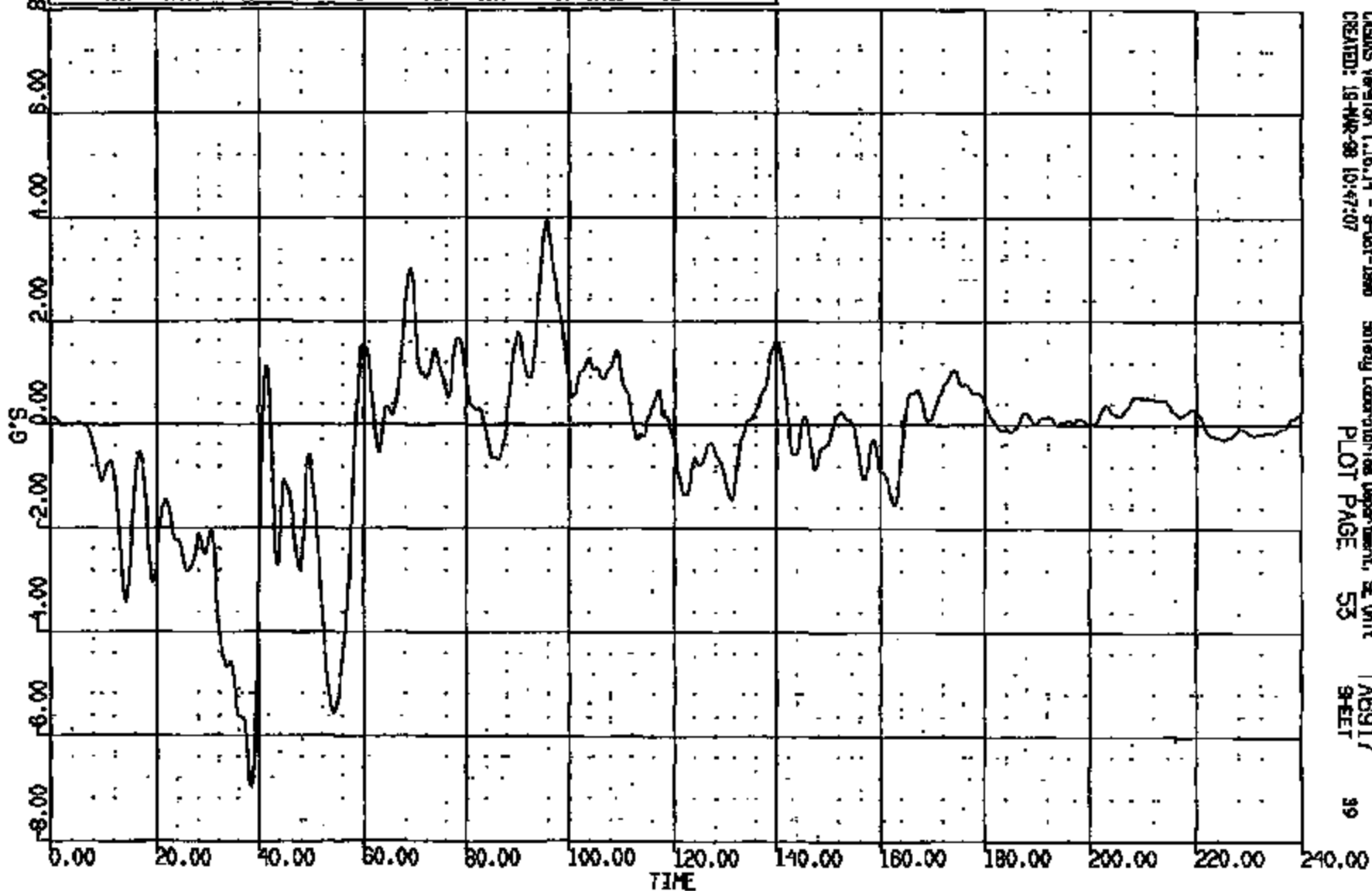
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CR R: 11045 TO: TAG917 DATE: 880518 10:12:50
1988 FN-145 1988 FN-148

(39) CR110451 UND L/F SEAT @ CAL XMR #27 VERT 60C

MAX = 3.958 at 95.68 MS MIN = -6.956 at 38.56 MS

AXIS 1



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CREATED: 18-MAR-88 10:47:07

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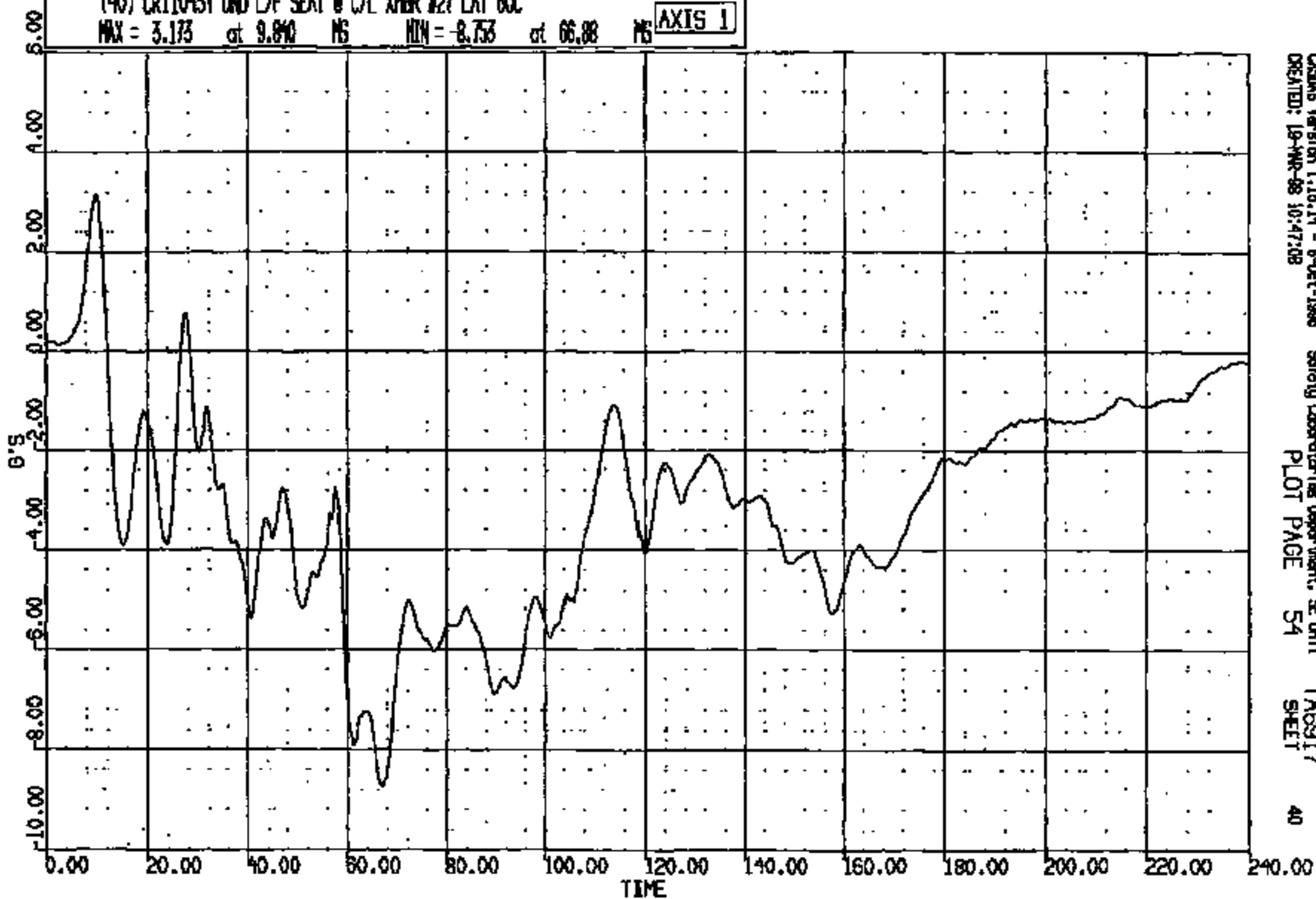
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1989 FN-145 1989 FN-145

(40) CR110451 UND L/F SEAT @ C/L XMR #27 LAT 60C

MAX = 3.173 at 9.840 MS MIN = -8.753 at 66.88 MS

AXIS 1



CASMS Version 1.1B.14 - 8-Oct-1988
CREATED: 19-MAR-88 10:47:08

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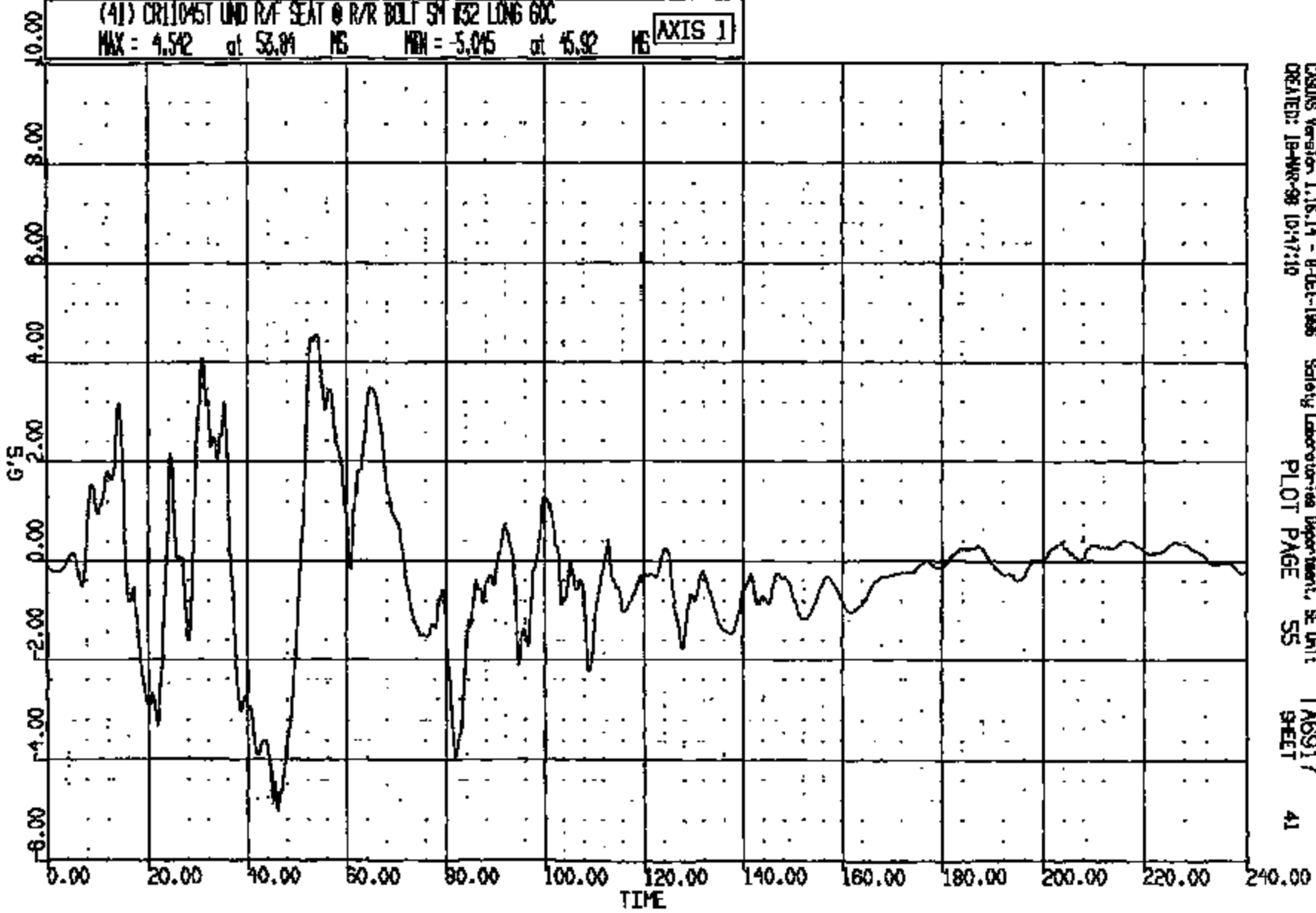
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1999 FN-146 1999 FN-146

(41) CR11045T UND R/F SEAT @ R/R BOLT SH #32 LONG GDC

MAX = 4.542 at 53.04 MS MIN = -5.045 at 45.92 MS

AXIS 1



CASINS Version 1.15.14 - B-Oct-1996
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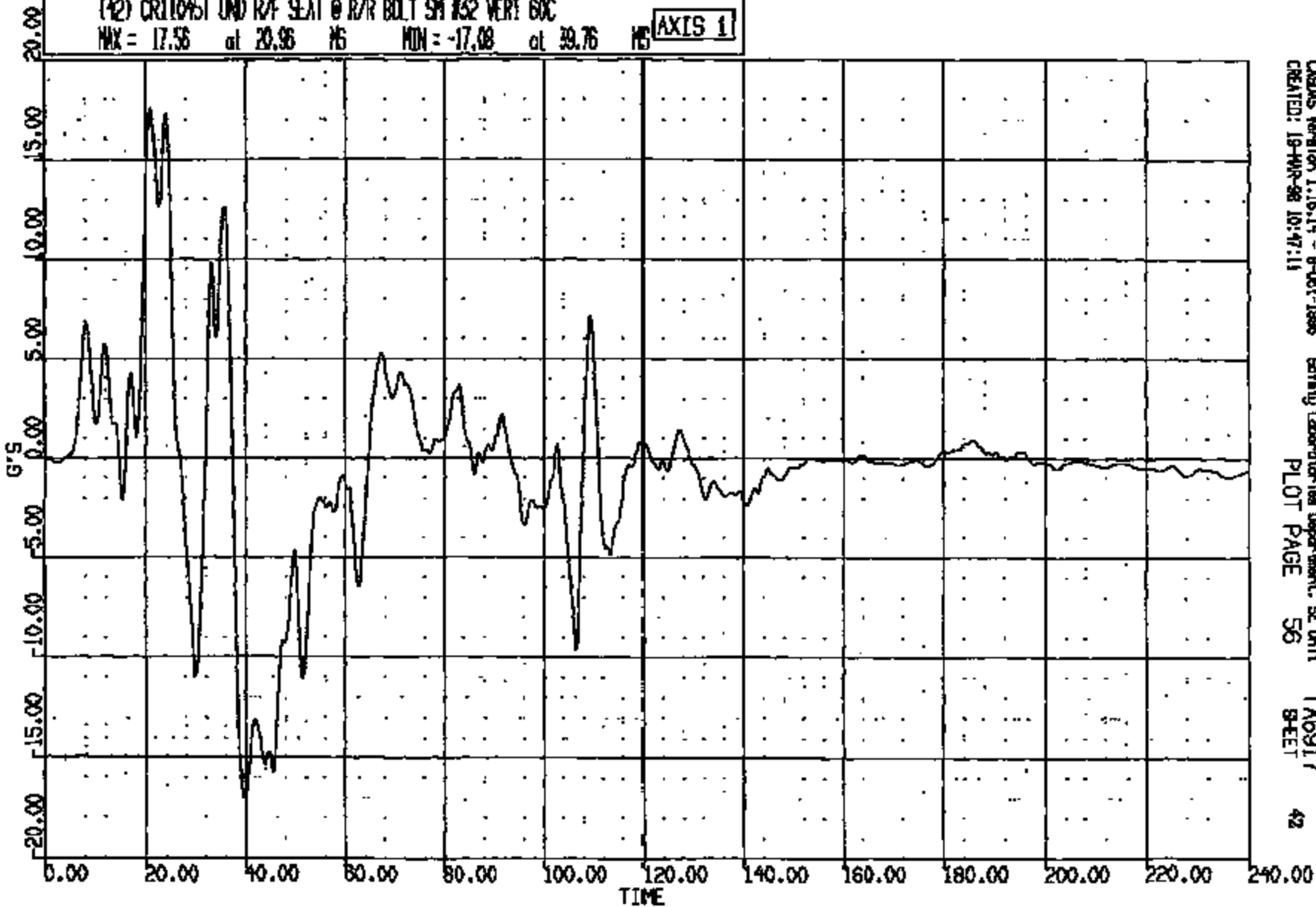
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1999 FN-145 1999 FN-145

(42) CR11045T UND R/F SEAT @ R/R BOLT SH #32 VERT 60C

MAX = 17.56 at 20.96 MS MIN = -17.08 at 39.76 MS

AXIS 1



CASUS Version 1.16.14 - 8-Oct-1998
CREATED: 19-MAR-98 10:47:11

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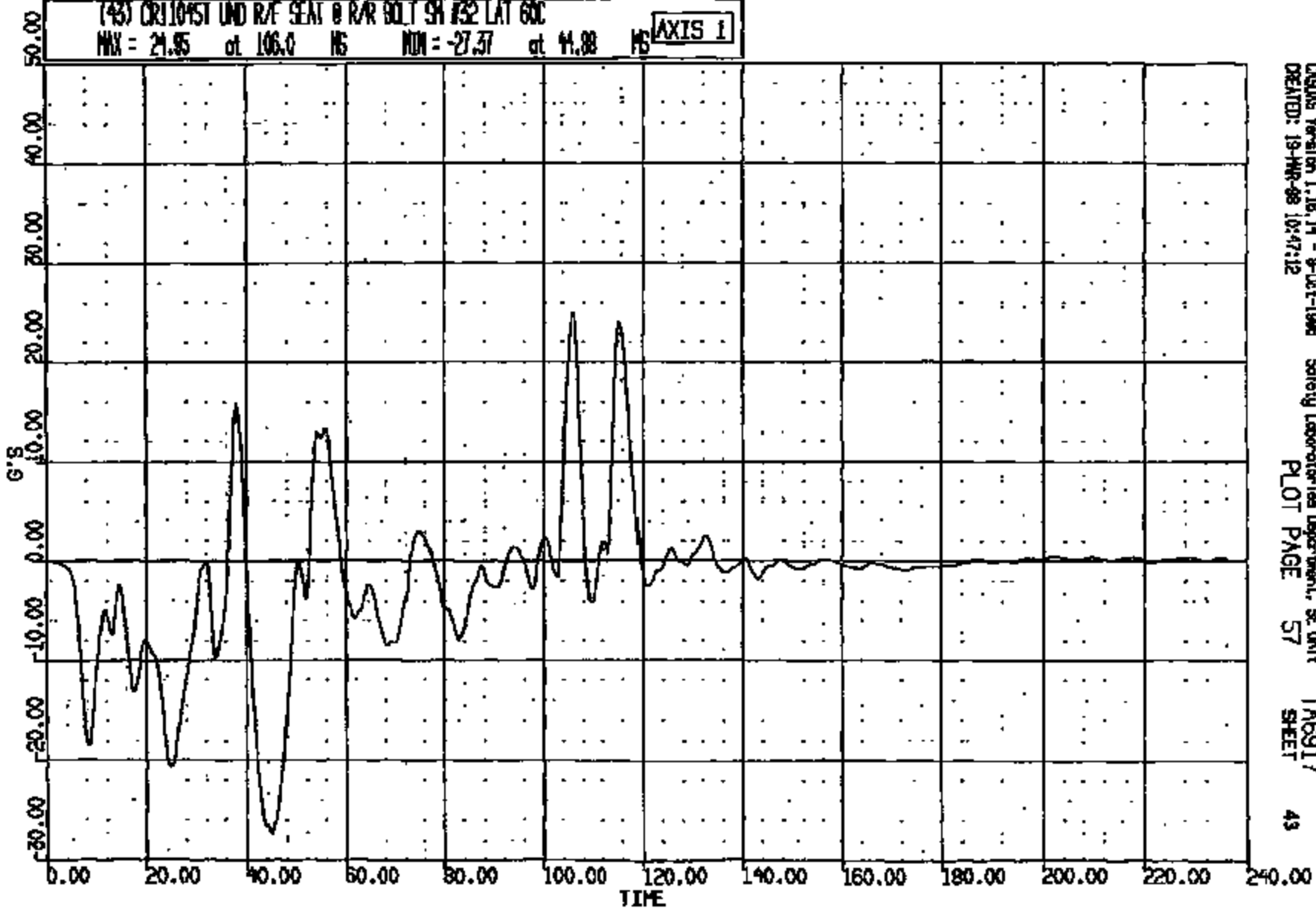
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1999 FN-145 1999 FN-145

(43) CRJ1045T UND R/T SEAT @ R/R BOLT SH #32 LAT 60C

MAX = 24.95 at 106.0 MS MIN = -27.37 at 44.88 MS

AXIS 1



CASUS Version 1.16.14 - 8-Oct-1998
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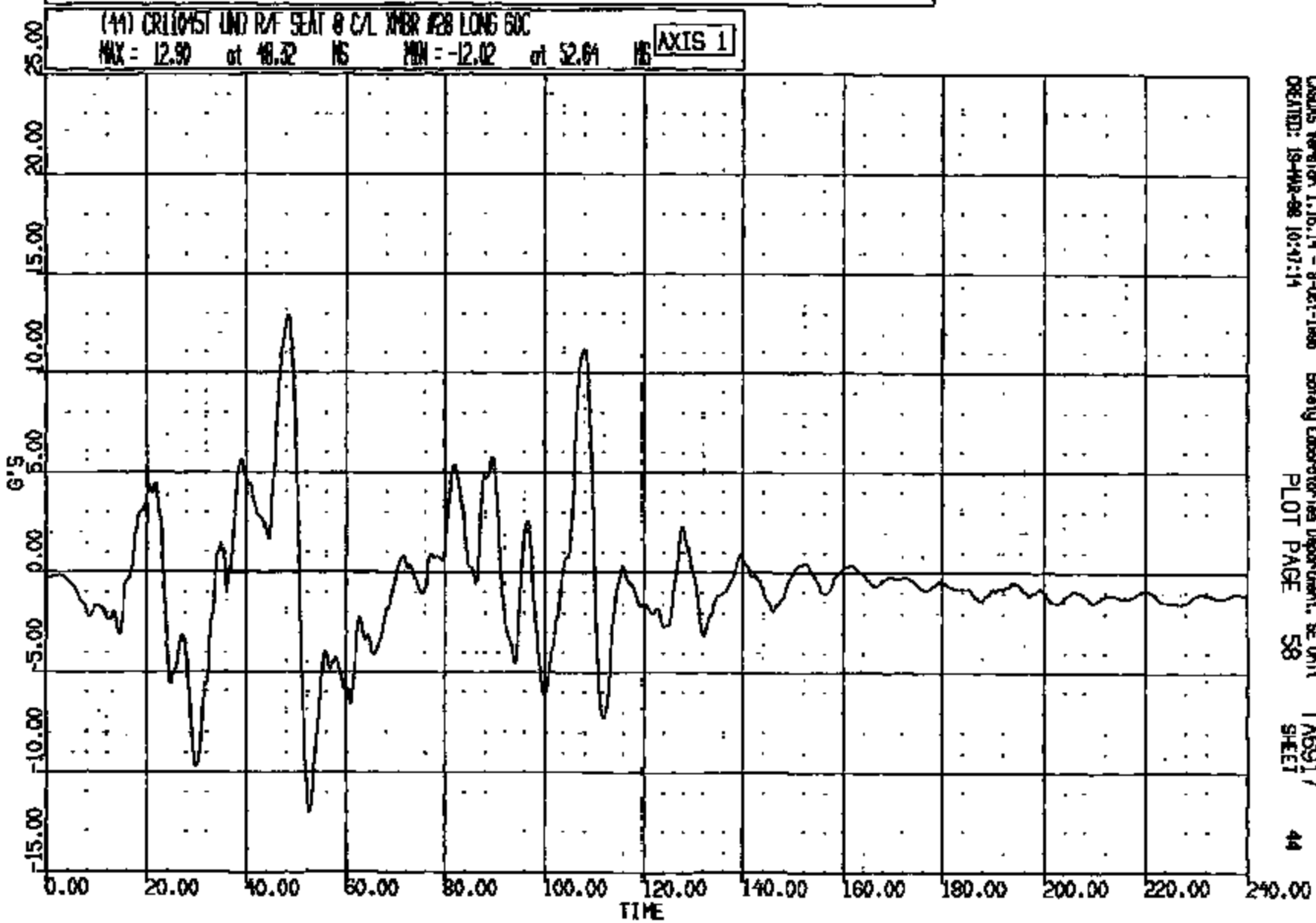
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1999 FN-145 1999 FN-145



CADJAS Version 1.16.14 - 8-04-1988
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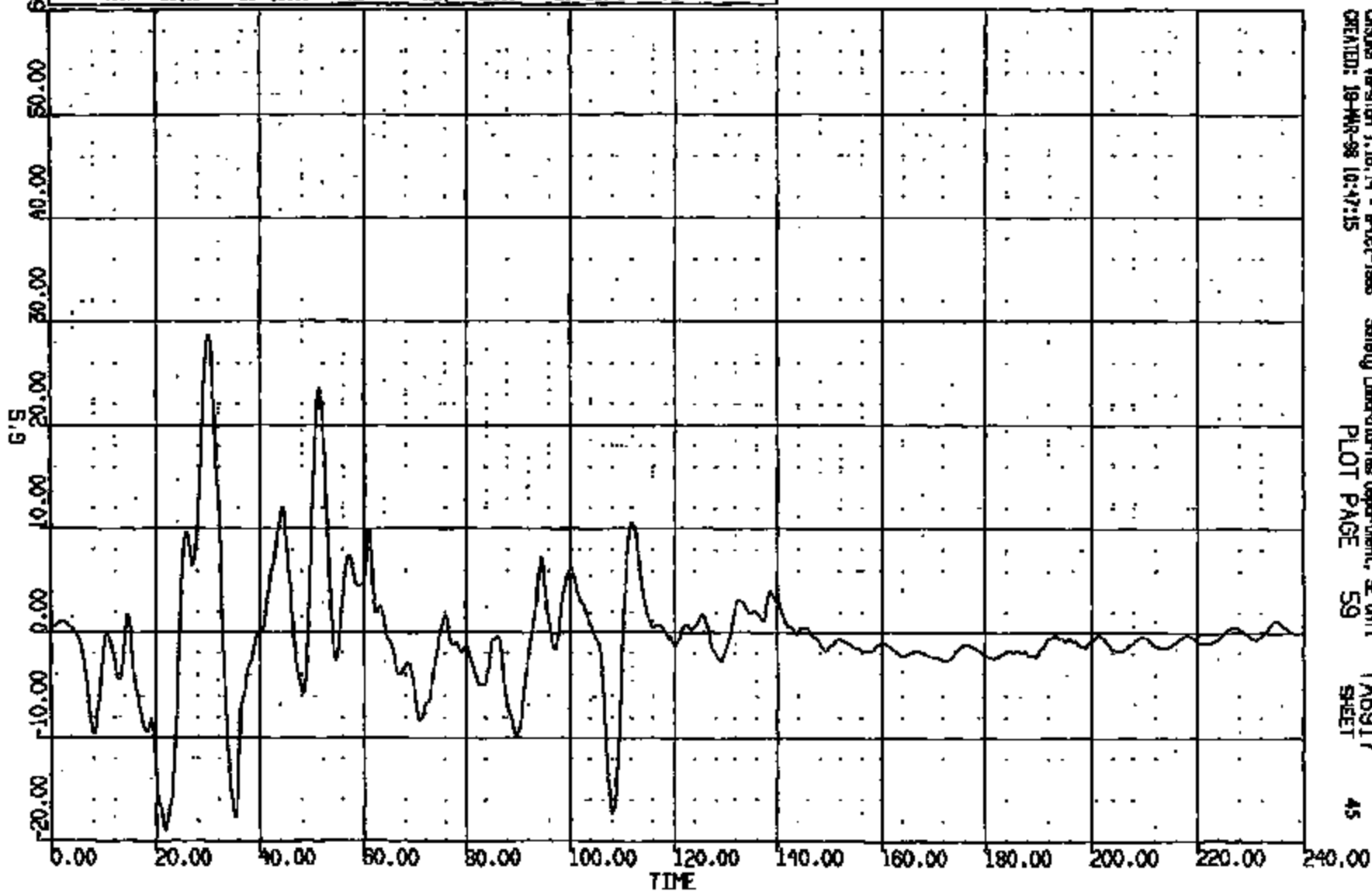
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CR R: 11045 TO: TAB917 DATE: 880519 10:12:50
1999 FN-146 1999 FN-146

(45) CR110451 UND R/F SEAT @ CAL XNER #28 VERT 60C

MAX = 28.68 at 30.16 MS MIN = -19.00 at 21.78 MS

AXIS 1



CASDS Version 3.16.14 - 8-Oct-1988
CREATED: 18-MAR-98 10:47:15

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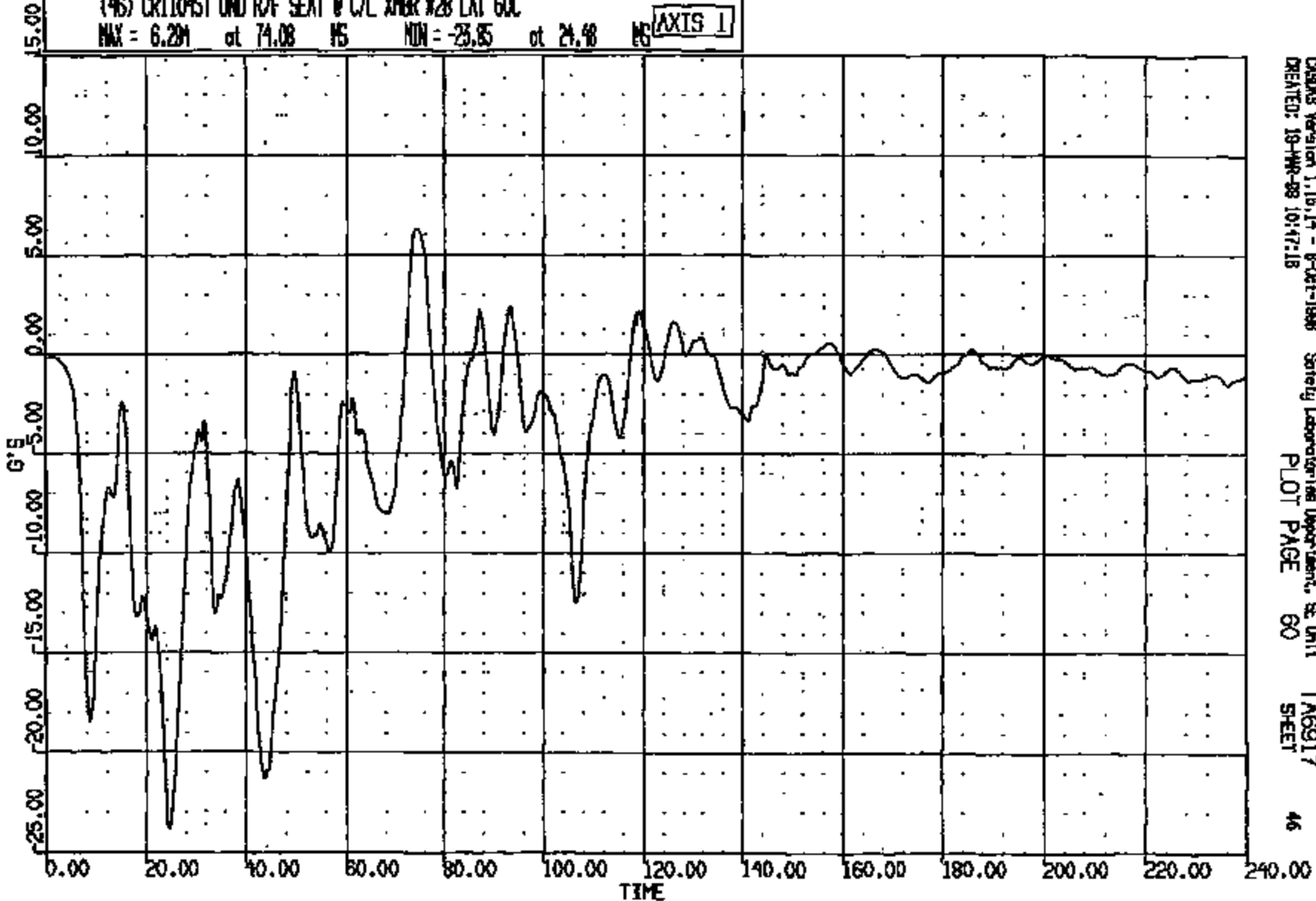
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(46) CR11045T UND R/F SEAT @ C/L XMR #28 LAT 60C

MAX = 6.204 at 74.08 MS MIN = -23.85 at 24.48 MS



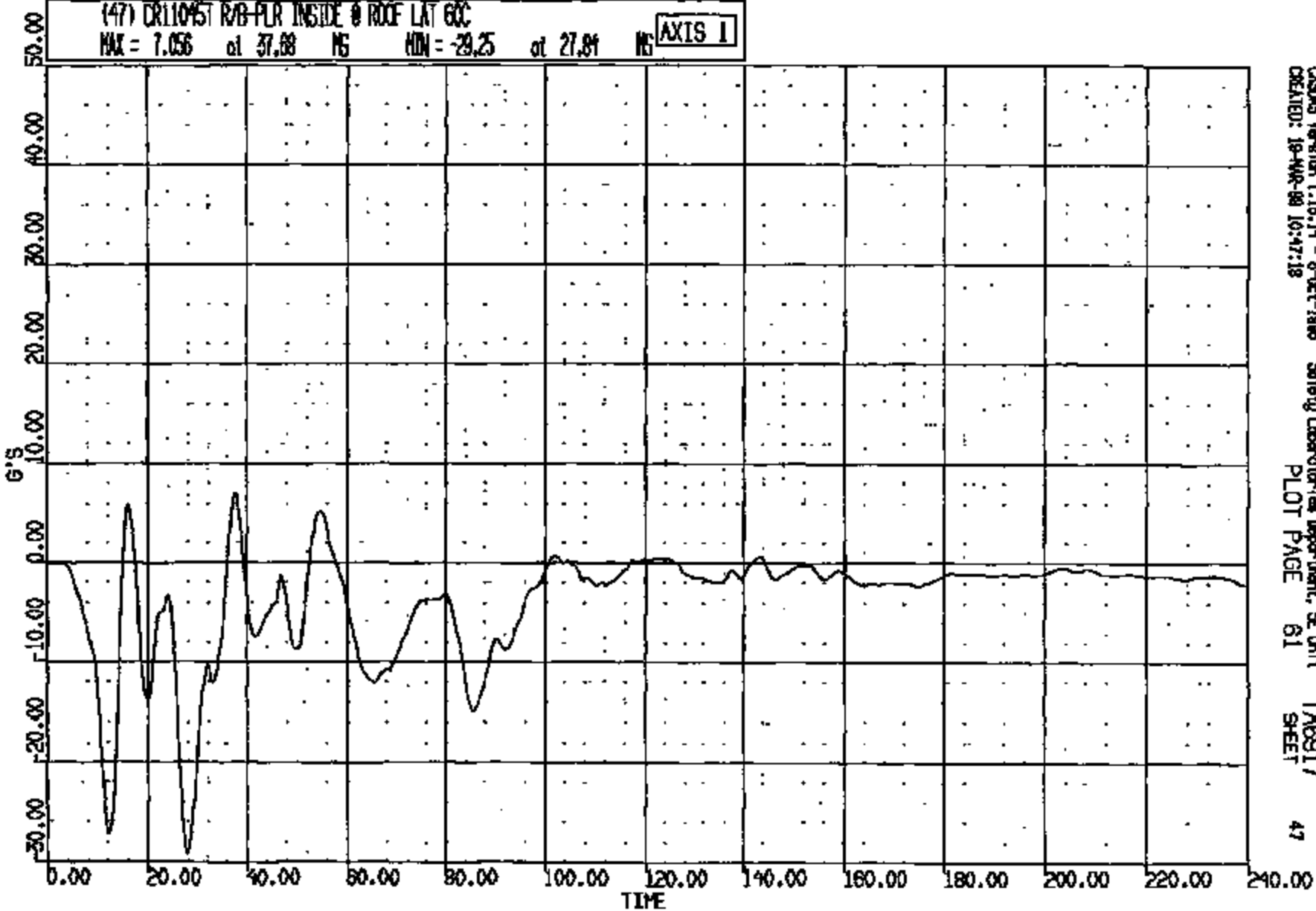
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1999 FN-145 1999 FN-145

(47) CR110451 R/B-PLR INSIDE @ ROOF LAT 60C

MAX = 7.056 at 37.88 NS MIN = -29.25 at 27.84 NS

AXIS 1



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CREATED: 19-MAR-98 10:47:18

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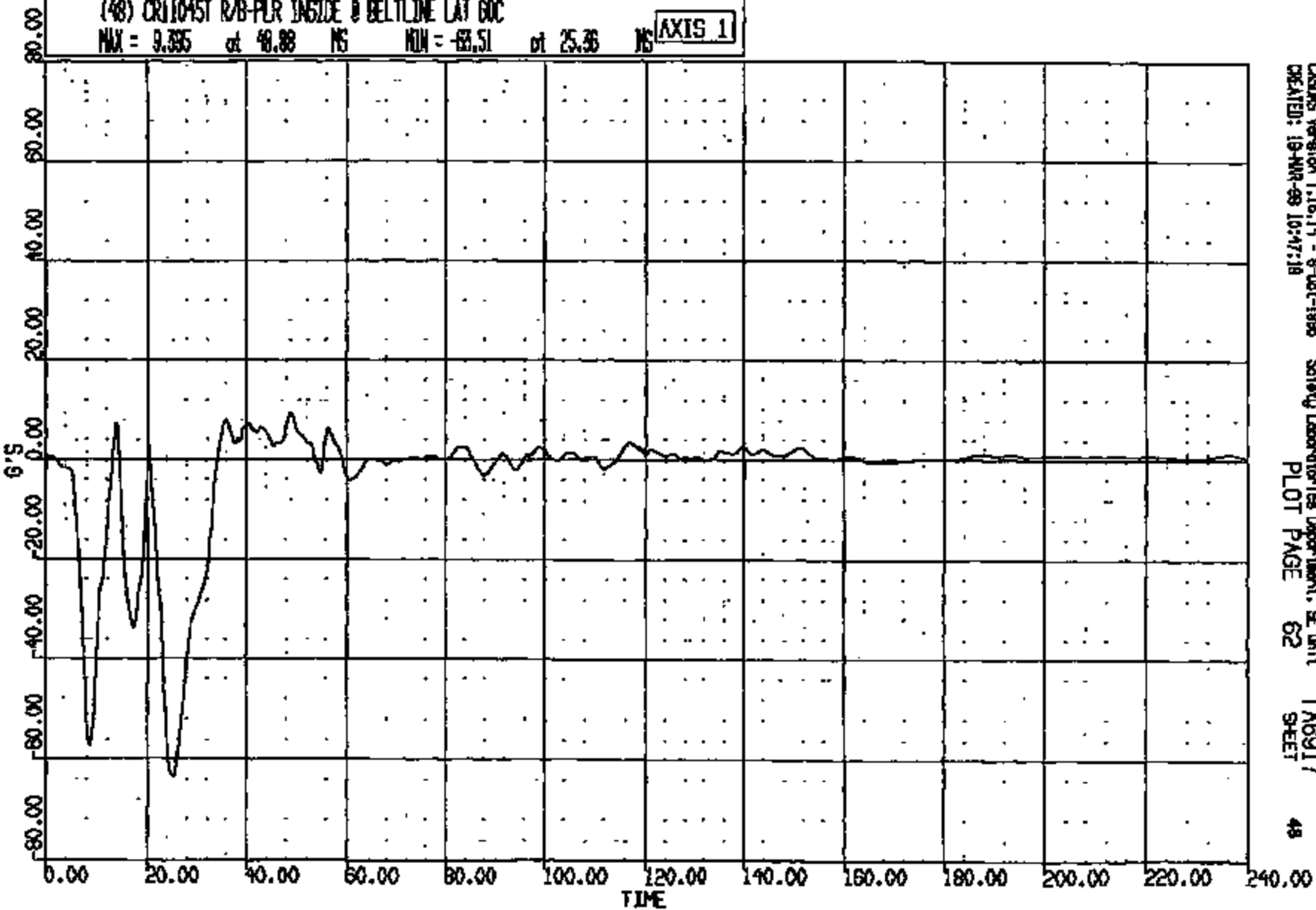
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1988 FN-145 1988 FN-145

(48) CR11045T R/B-PLR INSIDE @ BELTLINE LAT GOC

MAX = 9.395 at 40.88 MS MIN = -63.51 at 25.36 MS

AXIS 1



CRSRS Version 1.16.14 - 8-Oct-1988
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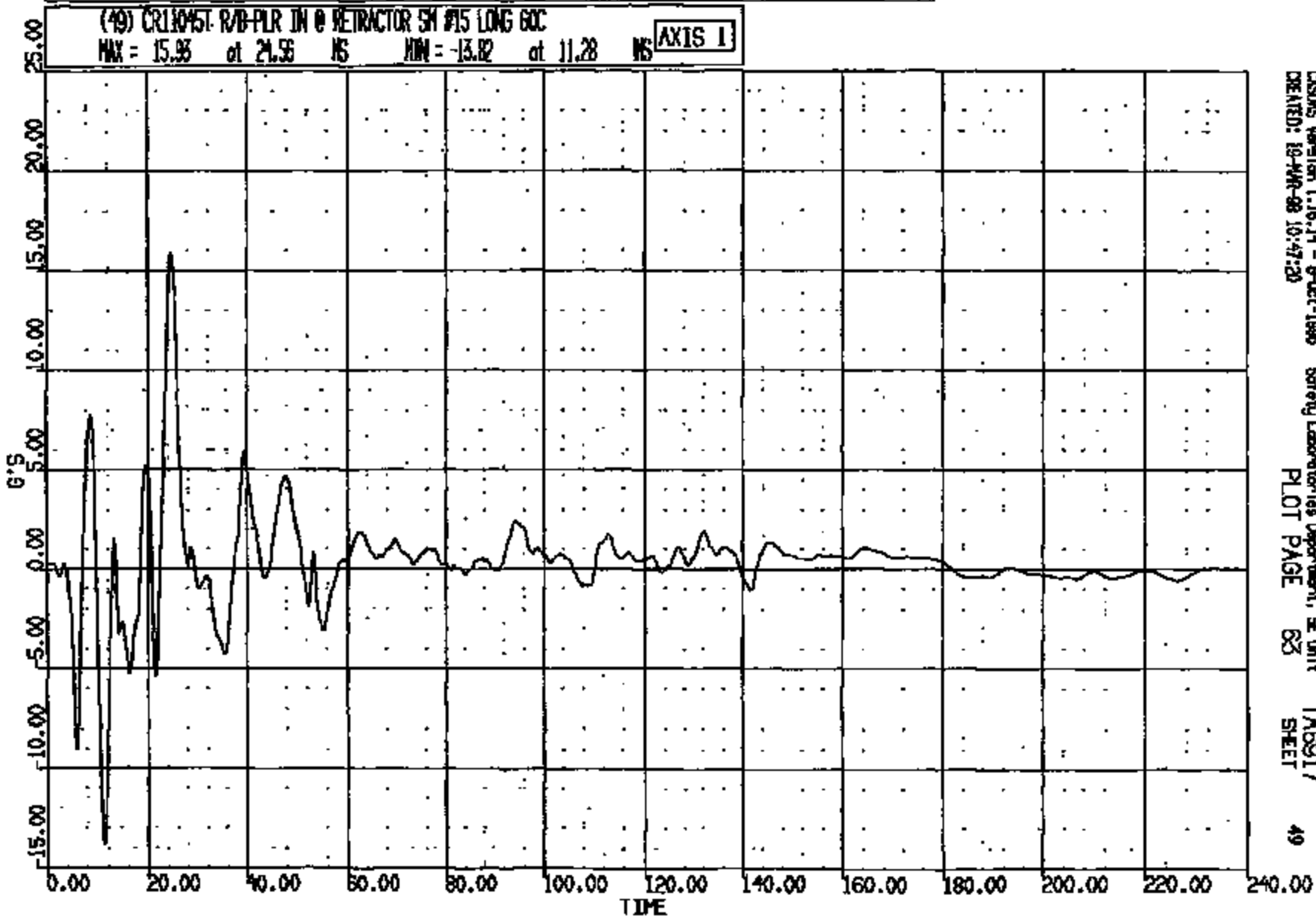
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CRTS 0011045

CR R: 11045 TO: TAGE17 DATE: 980519 10:12:50
1999 FN-145 1999 FN-145

(49) CR11045T. RVD-PLR IN @ RETRACTOR SM #15 LONG 60C

MAX = 15.93 at 24.56 NS MIN = -13.82 at 11.28 NS Axis 1



CASONS Version 1.16.14 - 8-Oct-1998
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Safety Laboratories Department, 5E Unit
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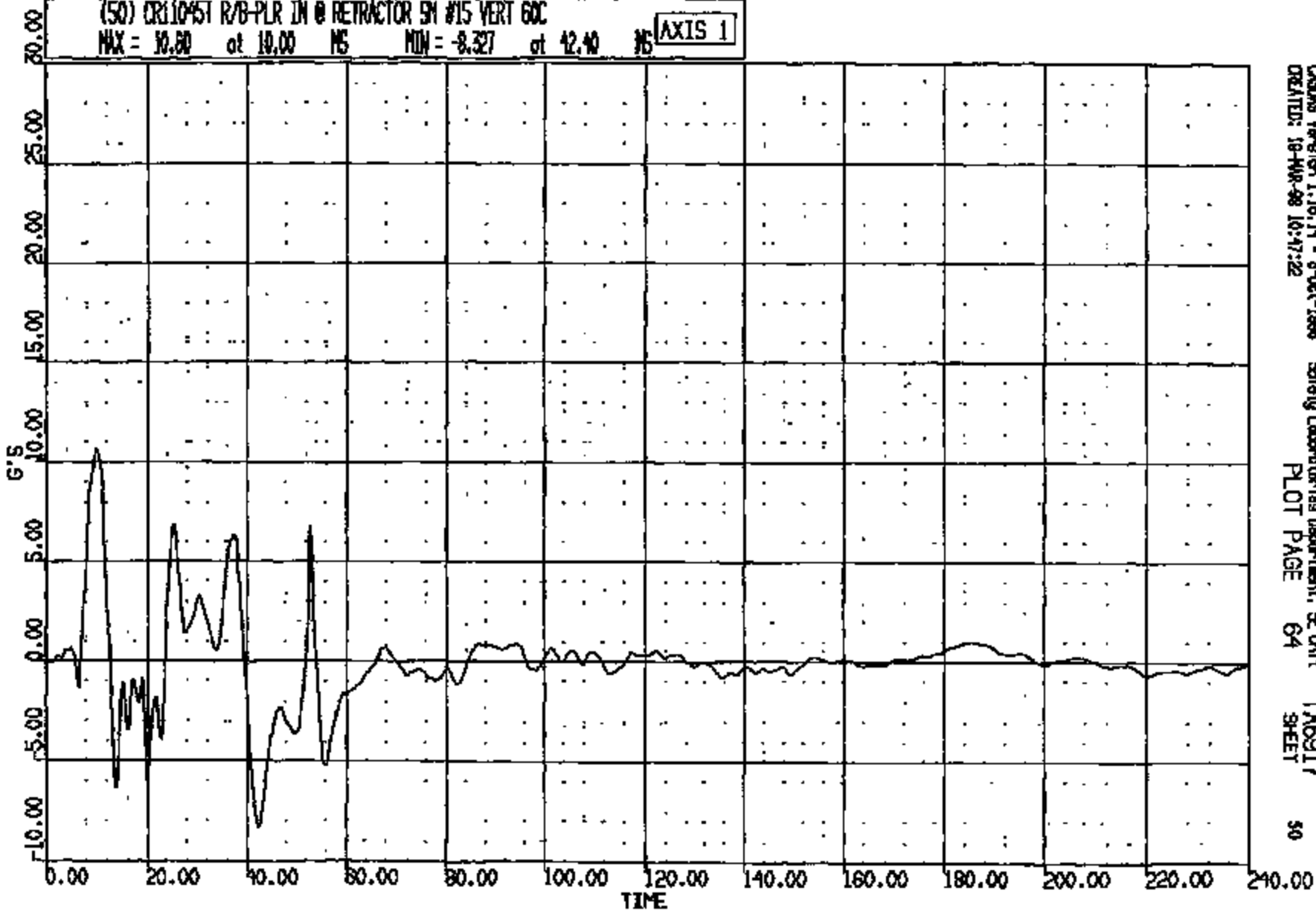
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CR R: 11045 TO: TAB017 DATE: 280518 10:12:50
1999 FN-146 1999 FN-146

(50) CR110451 R/B-PLR IN @ RETRACTOR SN #15 VERT 60C

MAX = 10.00 at 10.00 MS MIN = -8.327 at 42.40 MS

AXIS 1



CASAS Version 1.16.14 - 8-Oct-1998
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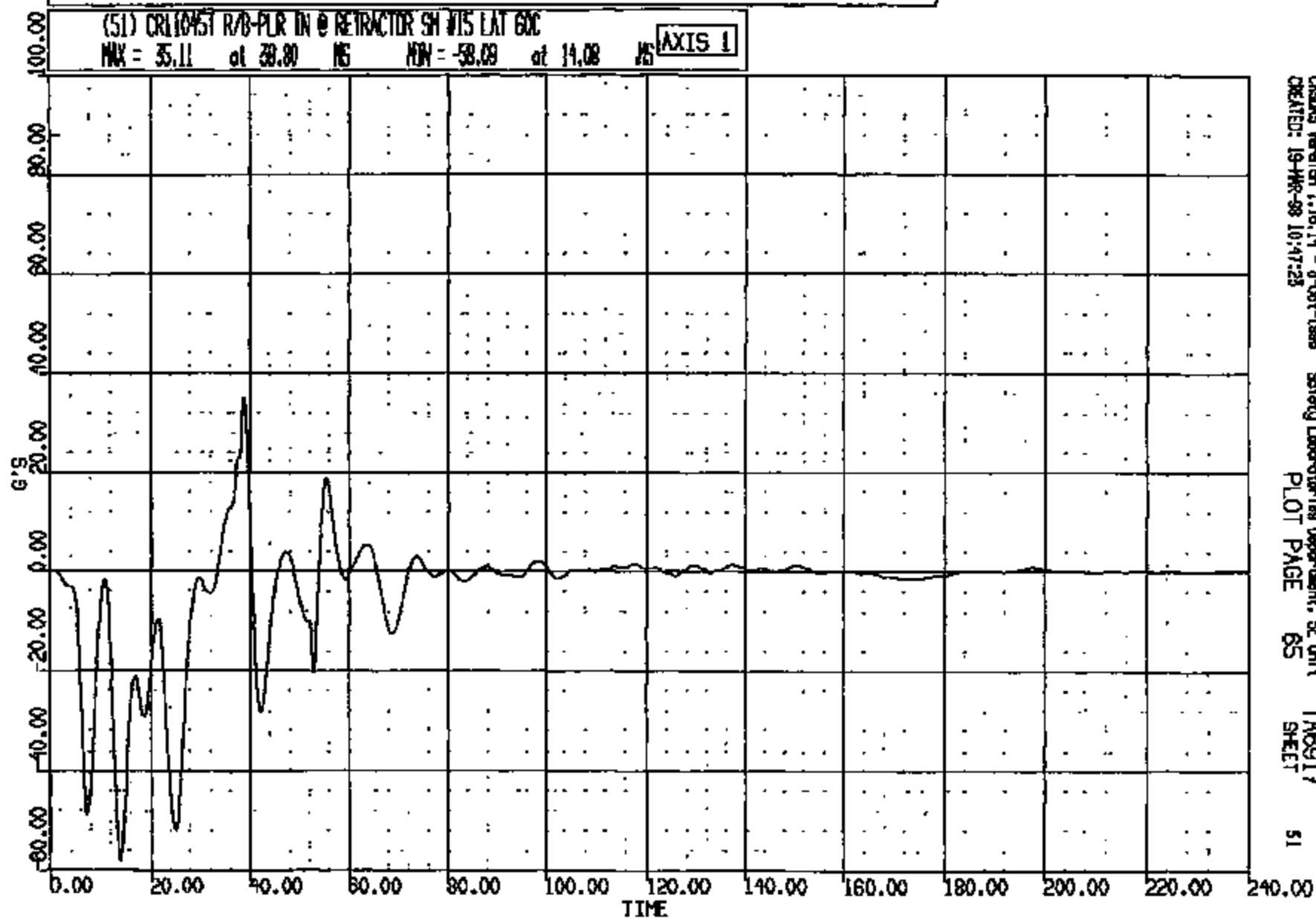
Safety Laboratories Department, SE Unit
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CRIS 0011045

CR R: 11045 TO: TAB917 DATE: 980319 10:12:50
1999 FN-145 1999 FN-145



CASAS Version 1.16.14 - 8-Oct-1998
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Safety Laboratories Department, SE Unit
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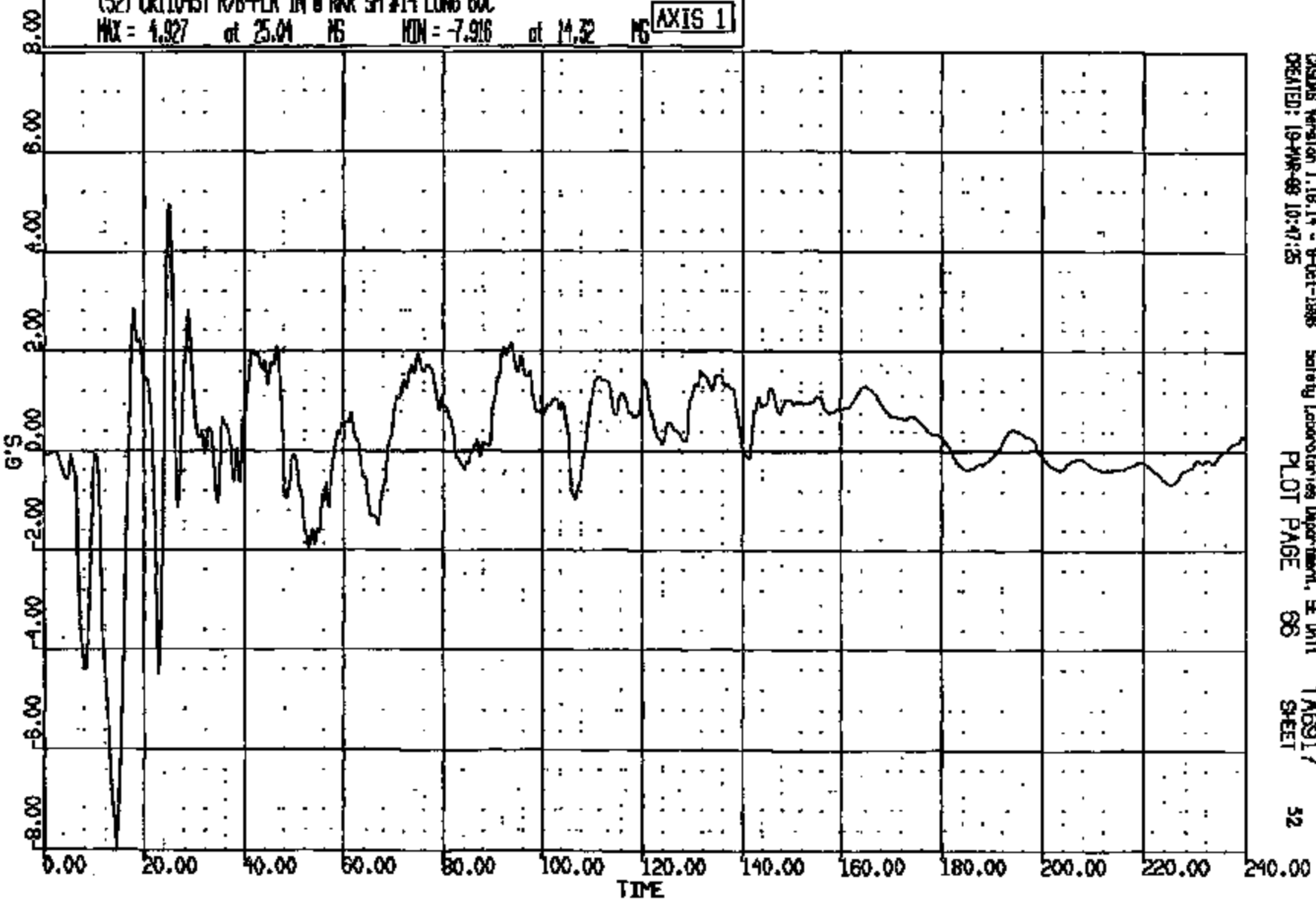
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CR R: 11045 TO: TAG917 DATE: 990519 10:12:50
1999 FN-145 1999 FN-145

(52) CR11045T R/B-PLR IN 8 RKR SP #14 LONG 60C

MAX = 4.927 at 25.04 MS MIN = -7.916 at 14.32 MS

AXIS 1



CASME Version 1.16.14 - 8-Oct-1998
CREATED: 19-MAR-99 10:47:25

Safety Laboratories Department, E Unit
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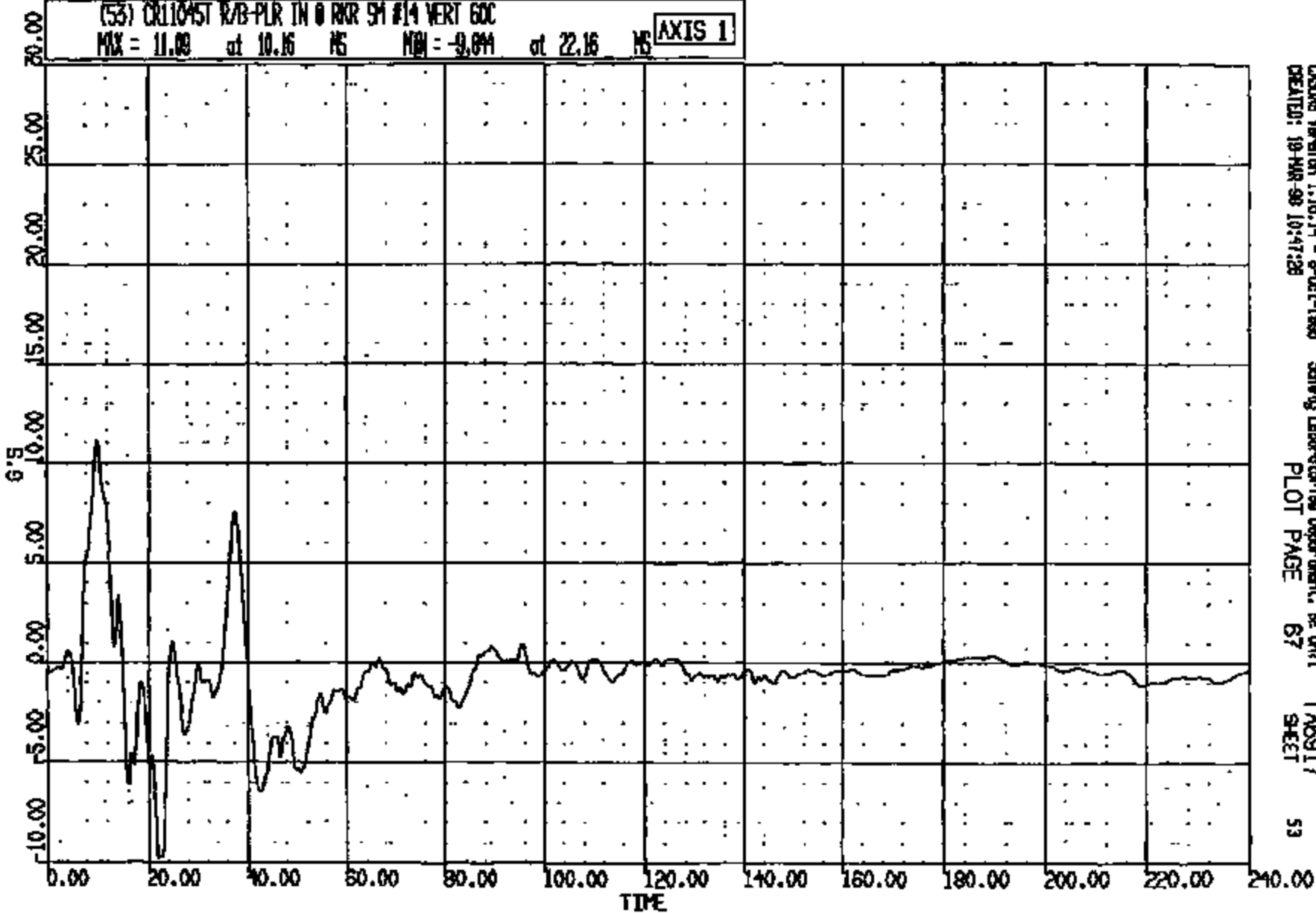
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1999 FN-145 1999 FN-145

(53) CR11045T R/B-PLR IN @ ROR 54 #14 VERT 60C

MAX = 11.09 at 10.16 MS MIN = -9.094 at 22.16 MS

AXIS 1



CISMS Version 1.16.14 - 8-Oct-1999
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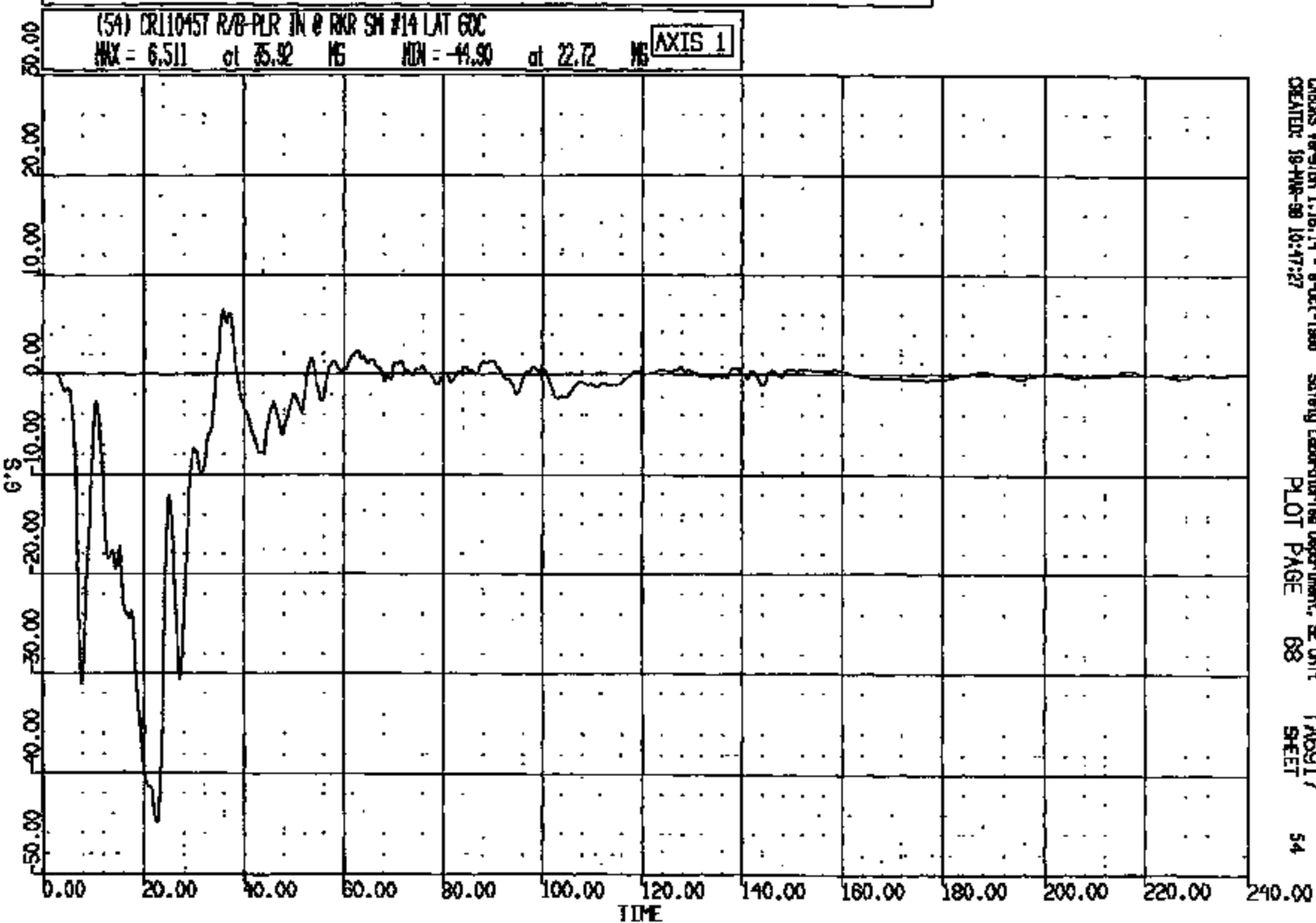
Safety Laboratories Department, SE Unit
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1999 FN-145 1999 FN-145



CASDS Version 1.16.14 - 8-Oct-1988
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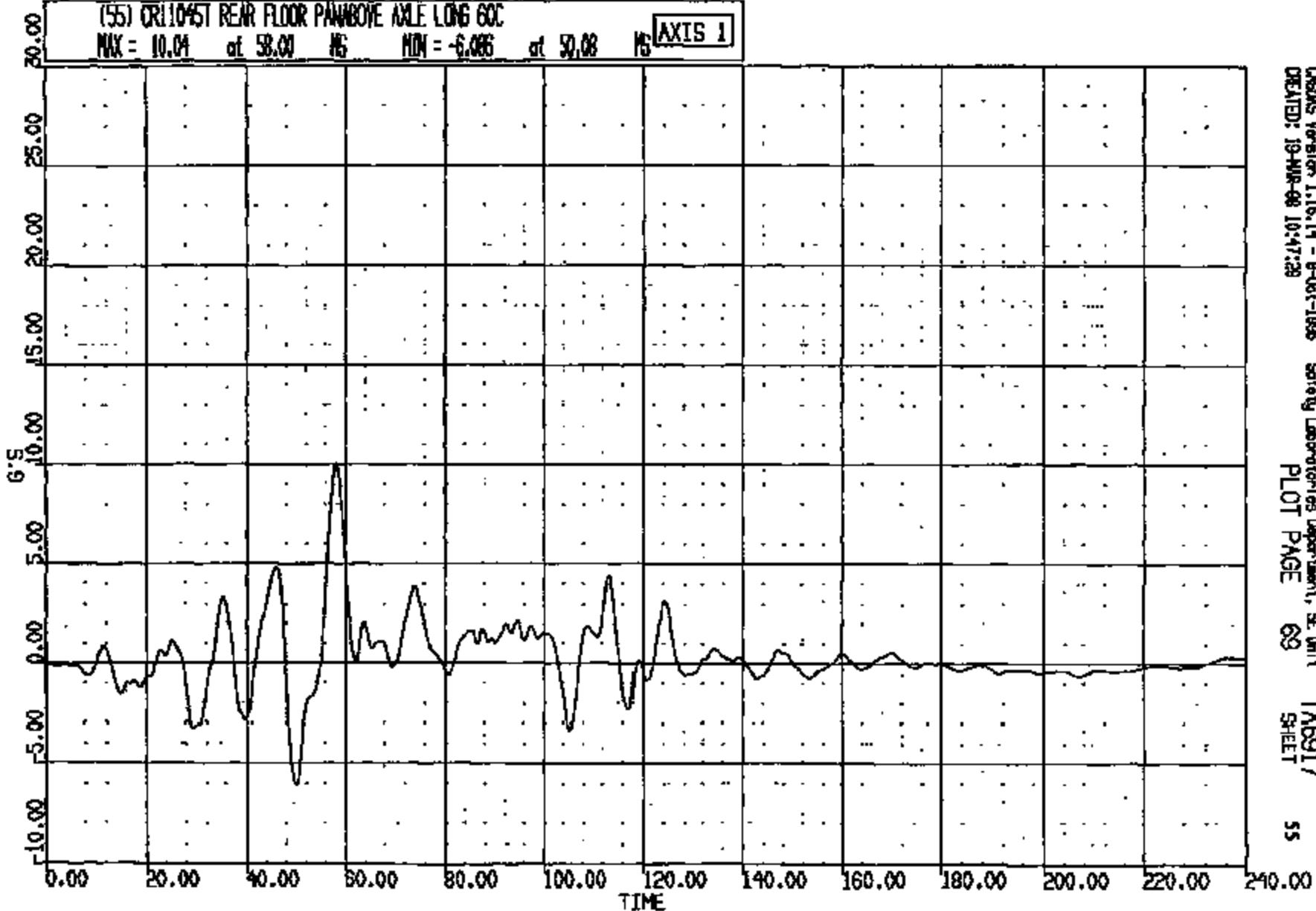
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1999 FN-145 1999 FN-145

(55) CR11045T REAR FLOOR PANABOVE AXLE LONG 60C

MAX = 10.04 at 58.00 MS MIN = -6.086 at 50.08 MS

AXIS 1



CASAS Version 1.16.14 - 8-Oct-1998
CREATED: 19-MAR-98 10:47:28

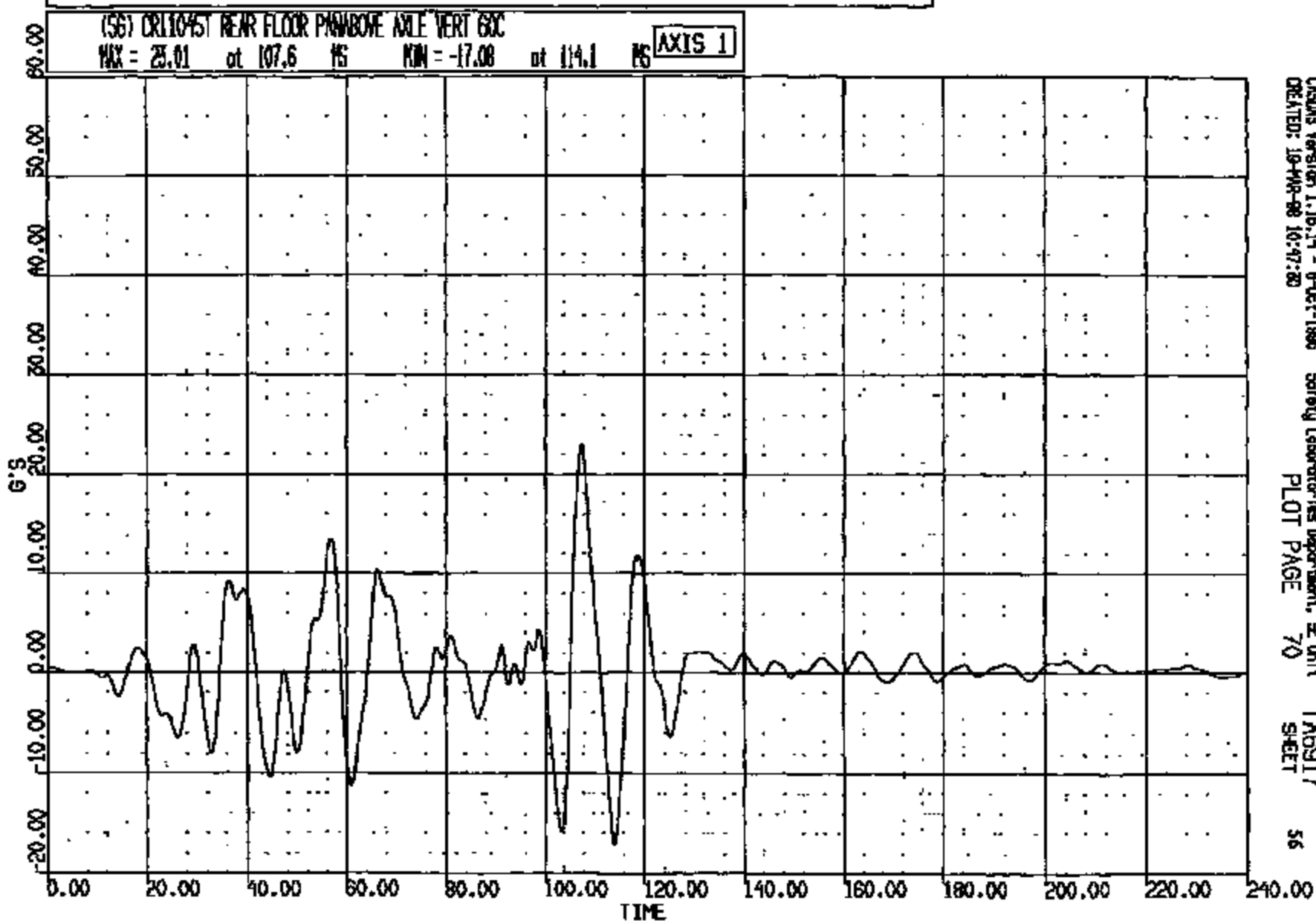
Safety Laboratories Department, SE Unit
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1999 FN-145 1999 FN-145



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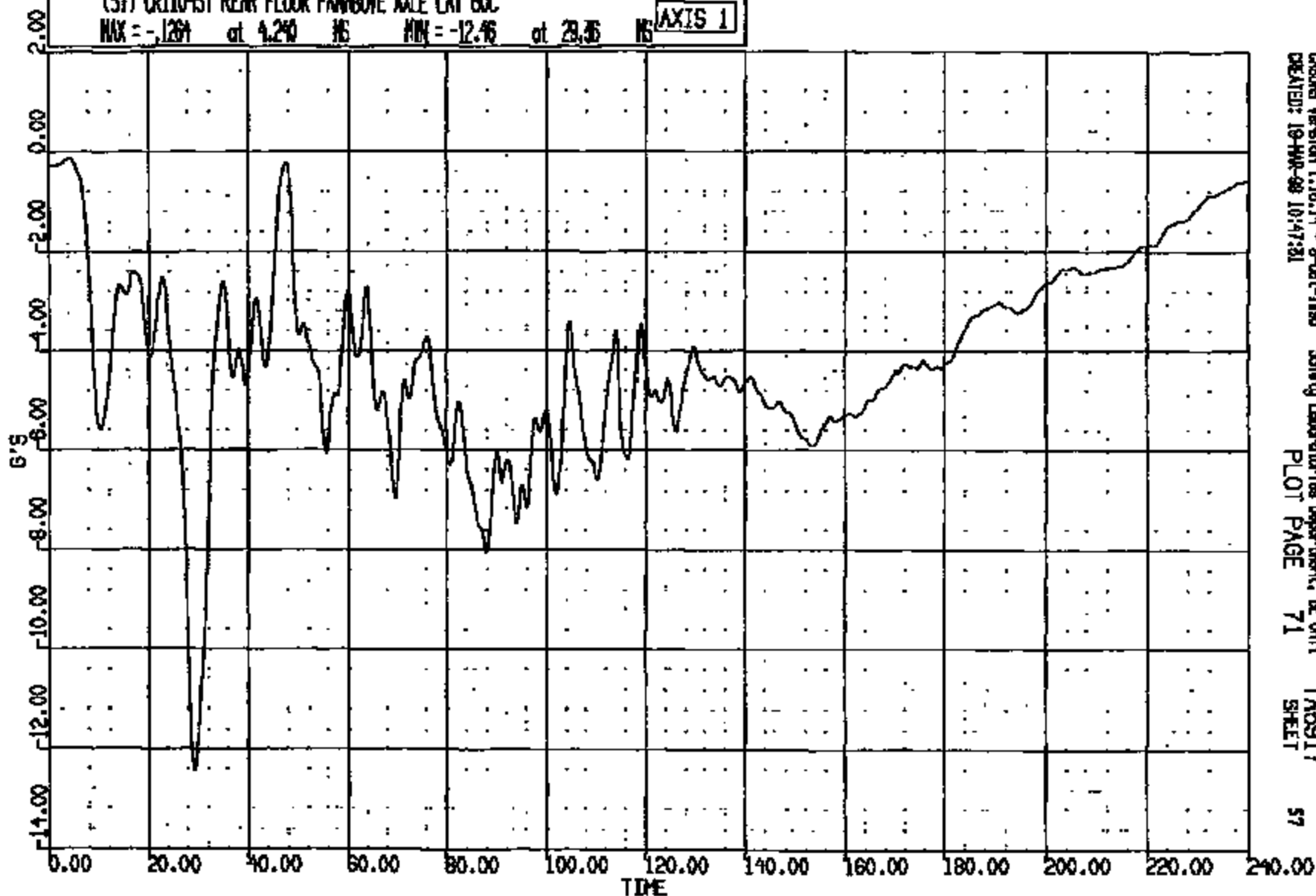
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CR R: 11045 TO: TAB917 DATE: 880518 10:12:30
1988 FN-145 1988 FN-145

(57) CR110-5T REAR FLOOR PAN/BOWE AXLE LAT 60C

MAX = -12.61 at 4.24 HS MIN = -12.46 at 23.35 HS

AXIS 1



CASIMS Version 1.16.14 - 8-Oct-1988
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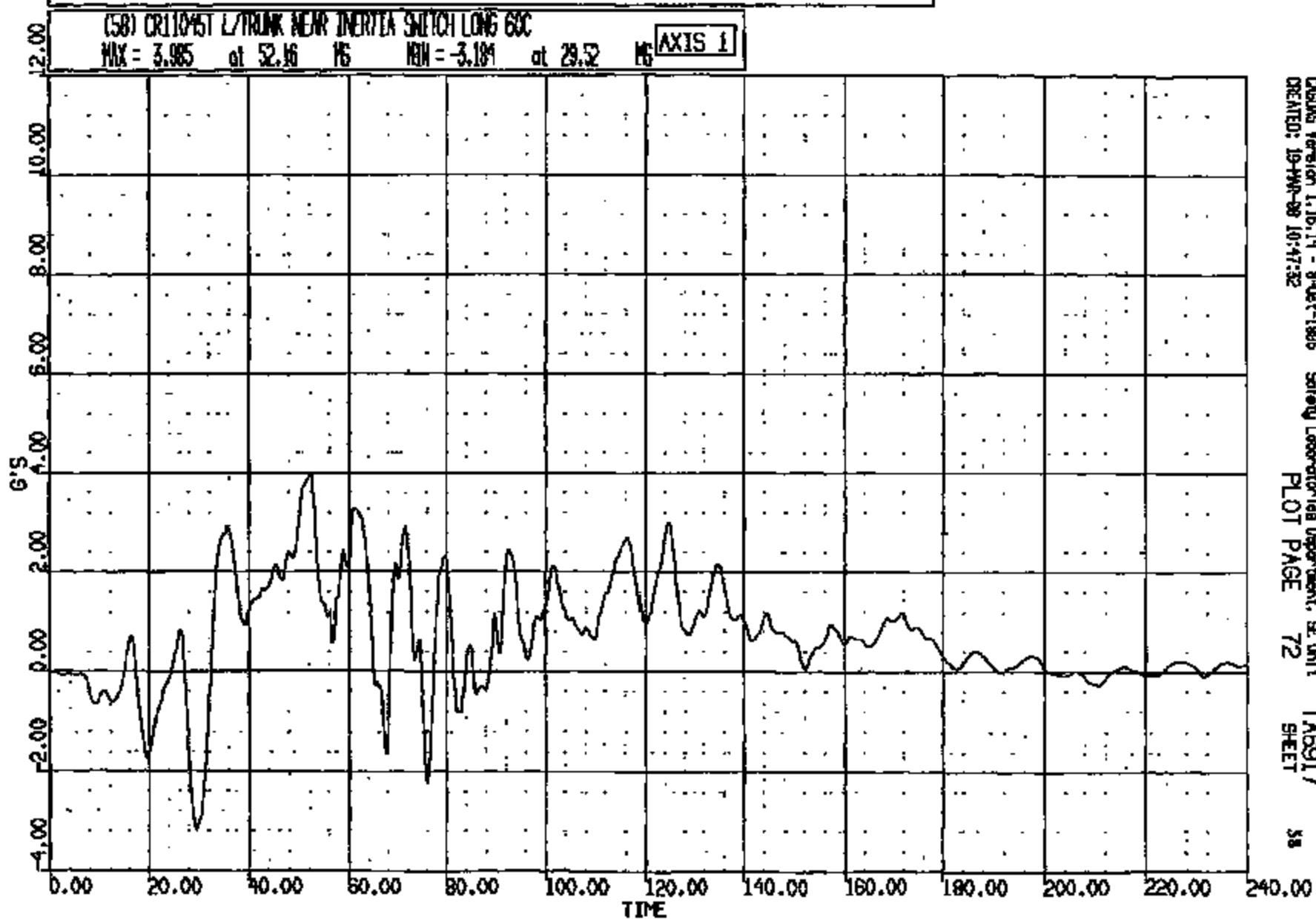
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1998 FN-145 1998 FN-145



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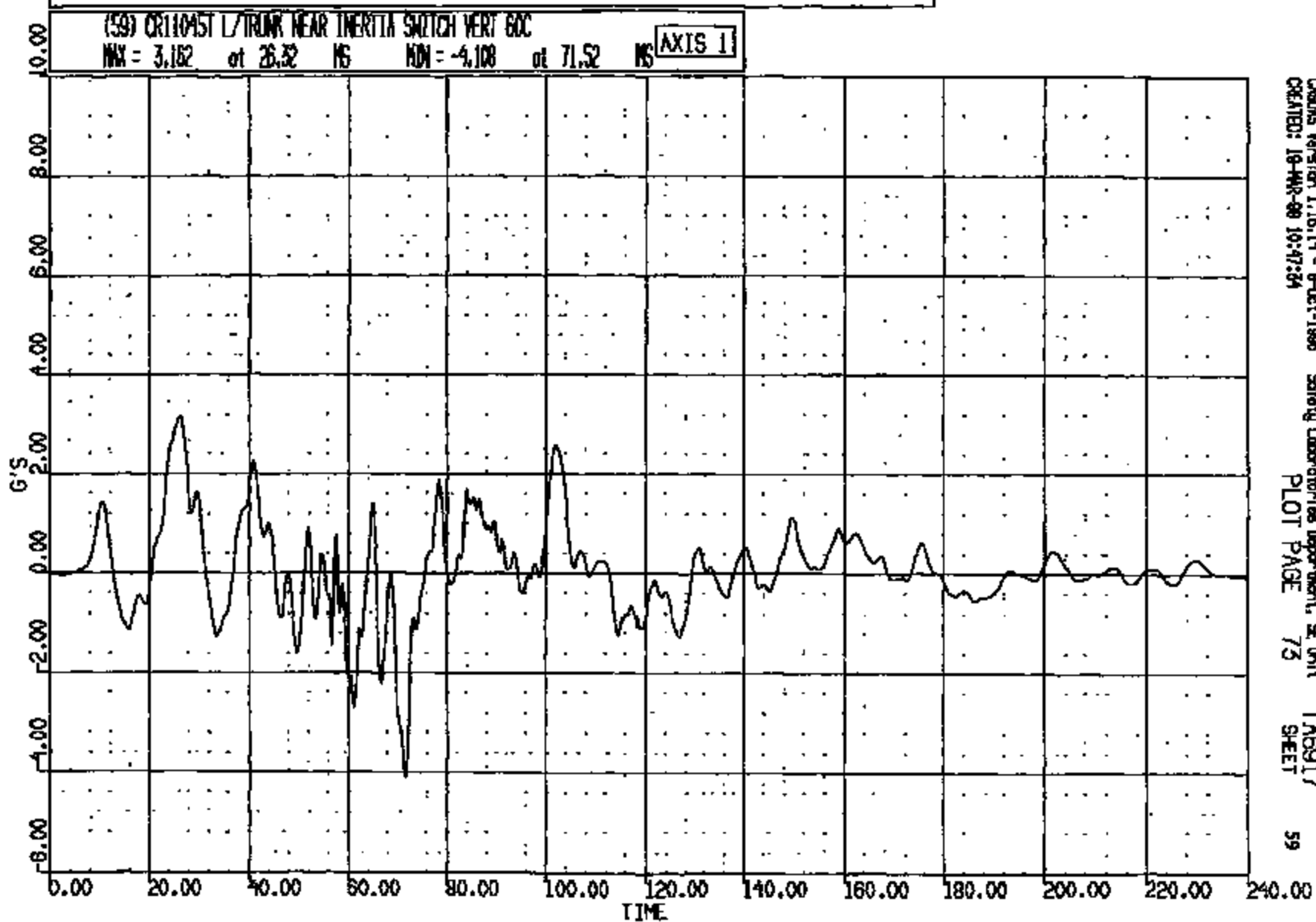
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CADNAS Version 1.16.19 - 8-Oct-1998
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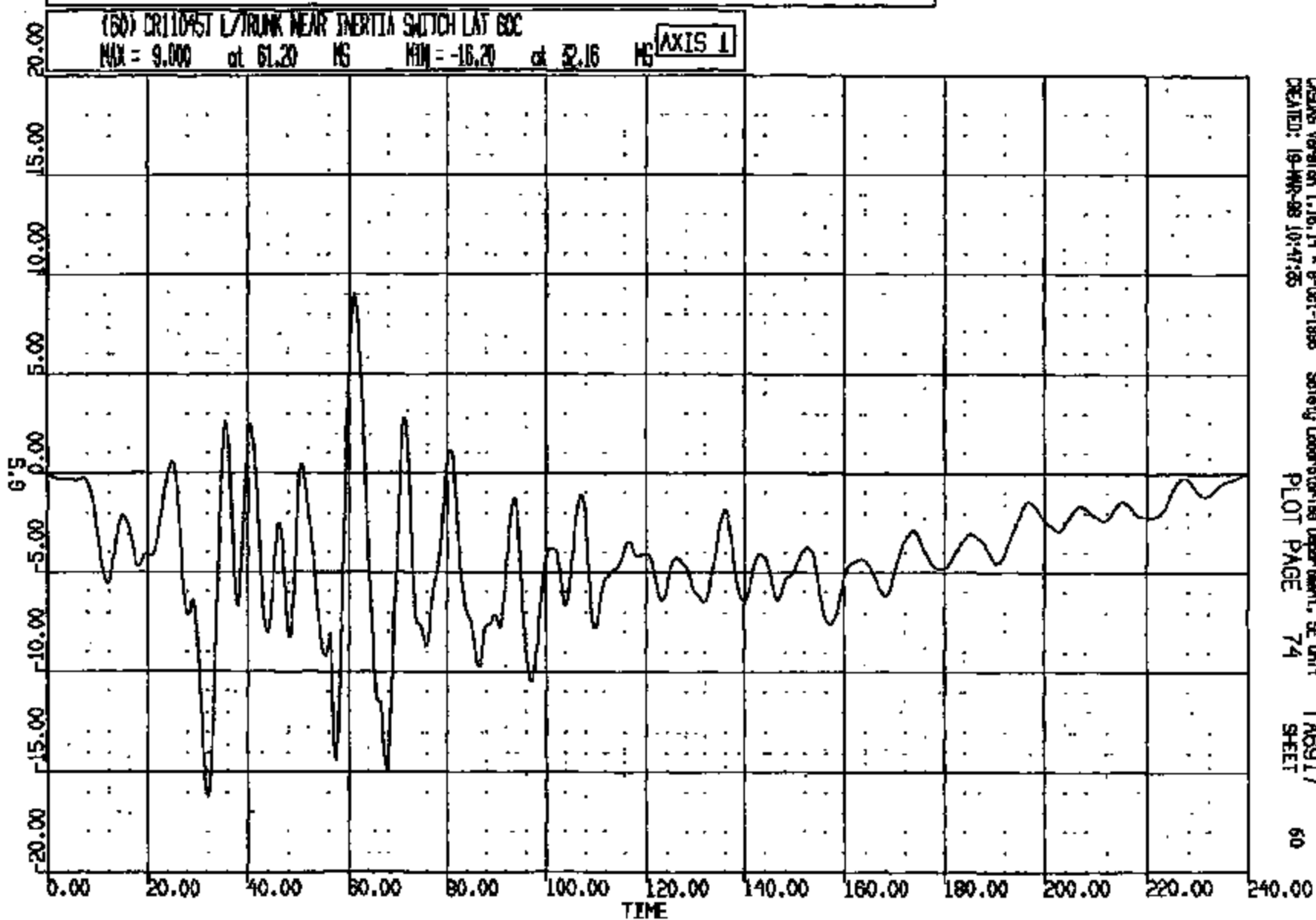
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1998 FN-145 1998 FN-145



CHENG Version 1.16.14 - 8-Oct-1998
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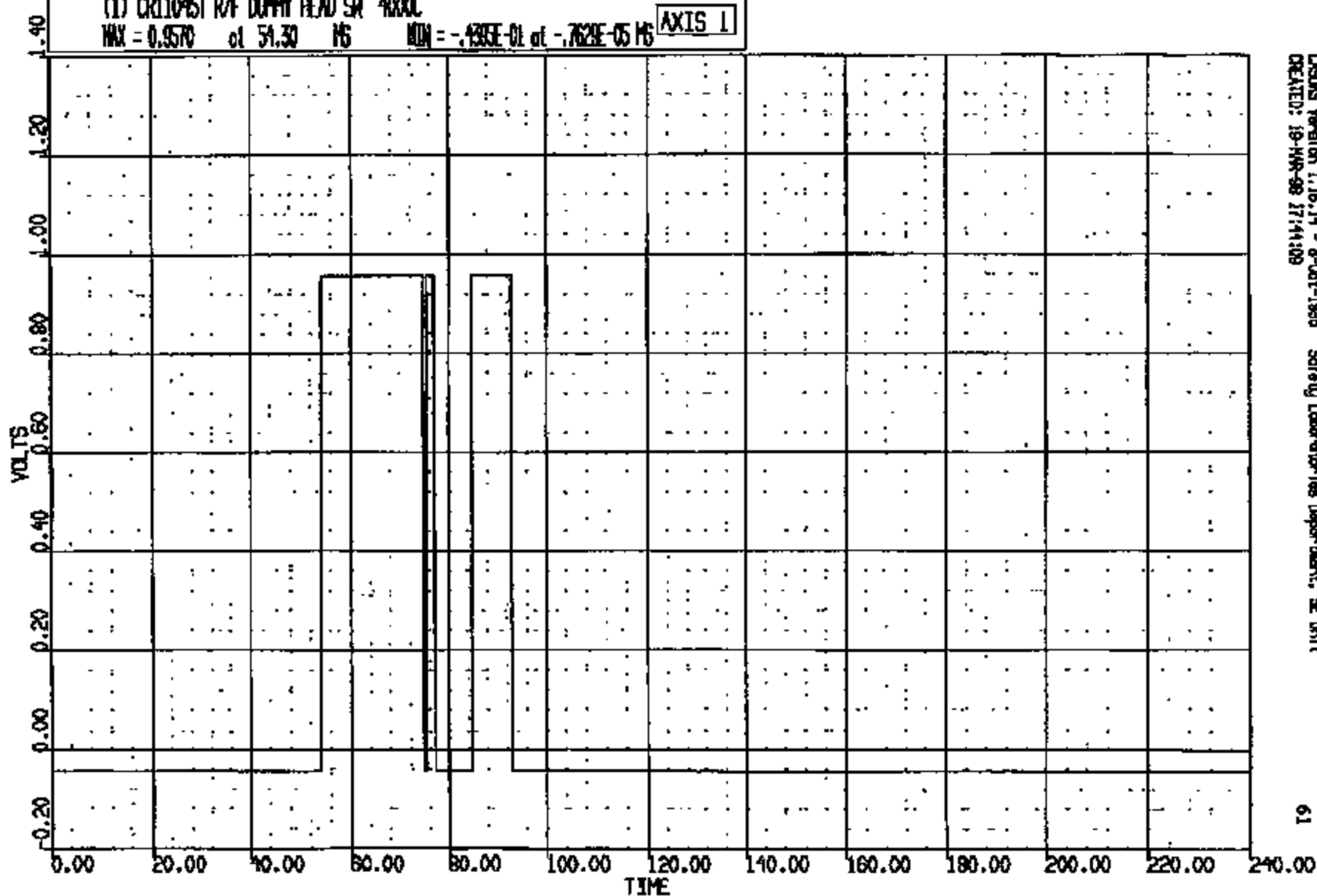
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1999 FN-145 MOVING DEFORMABLE BA

(1) CR11045T R/F DUMMY HEAD SM 4000C

MAX = 0.9570 at 54.30 MS MIN = -.1935E-01 at -.7625E-05 MS

AXIS 1



CRS005 Version 1.16.14 - 8-Oct-1998
CREATED: 19-MAR-98 17:44:09

Safety Laboratories Department, SE Unit

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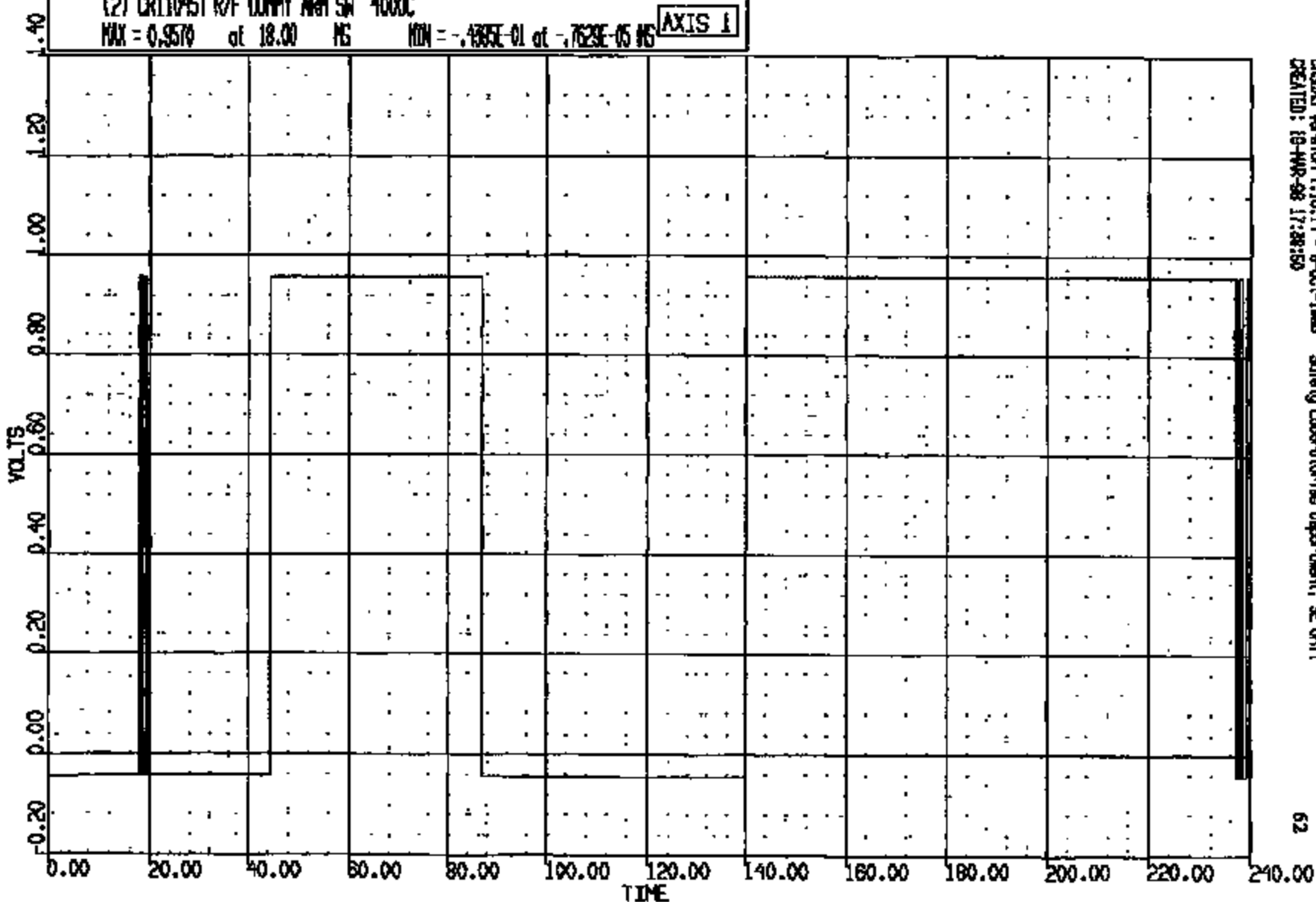
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1999 FN-145 MOVING DEFORMABLE BA

(2) CR11045T R/F DUMPPY AWH SN 4000C

MAX = 0.9570 at 18.00 MS MIN = -.4335E-01 at -.7523E-05 MS

AXIS 1



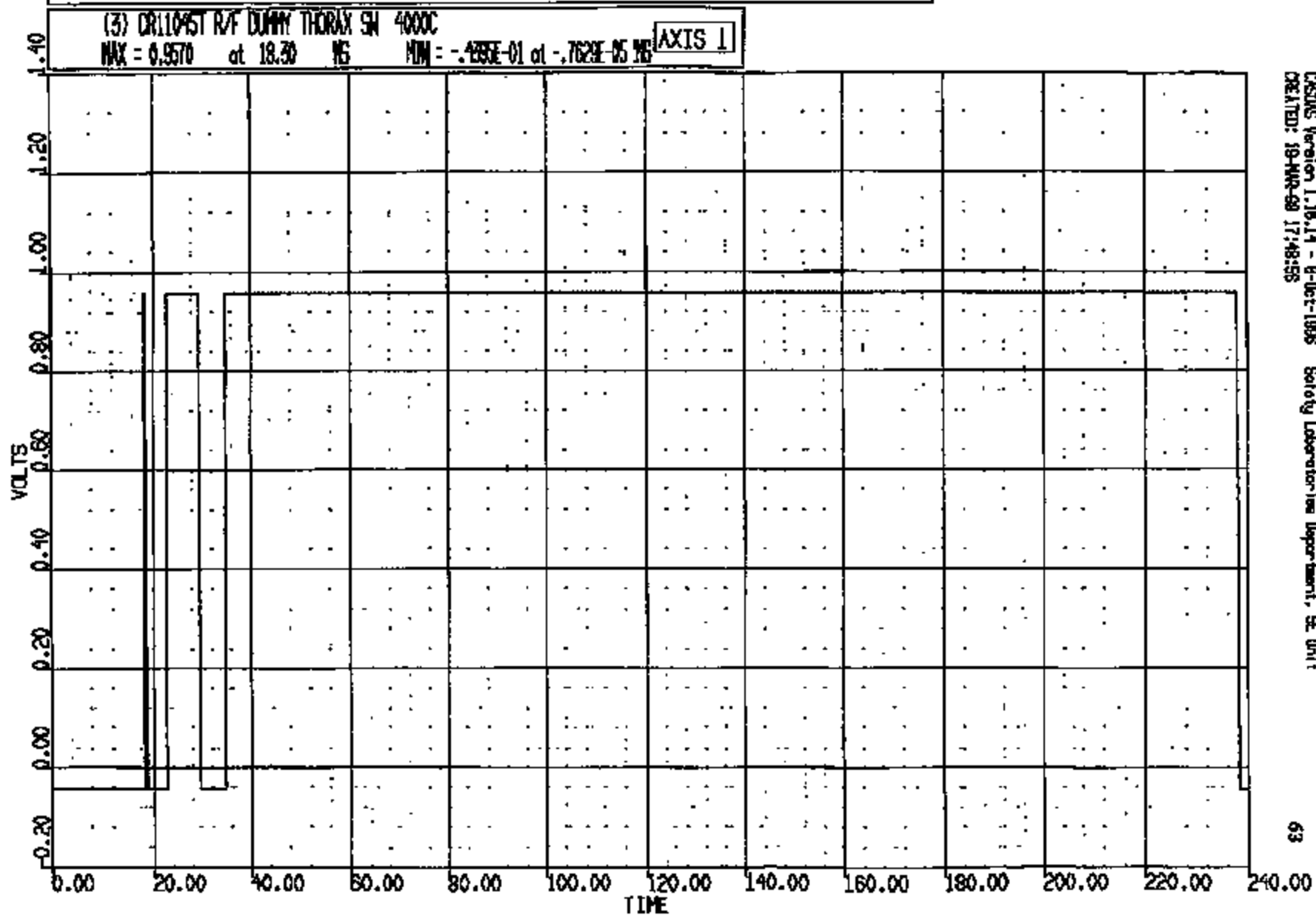
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CR R: 11045 TO: TAB917 DATE: 980319 10:12:50
1999 FN-145 MOVING DEFORMABLE BA



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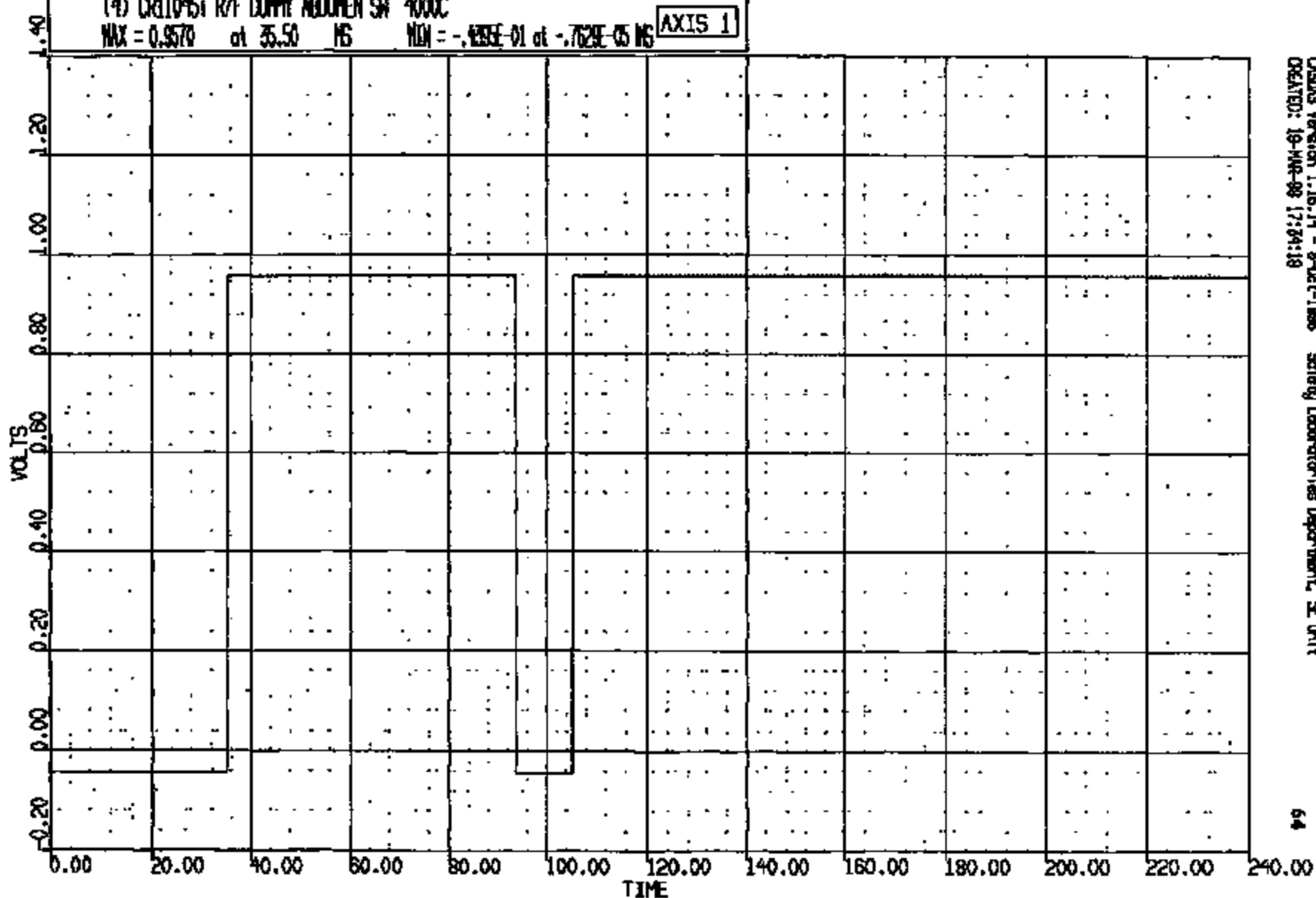
Safety Laboratories Department, SE Unit

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1989 FN-145 MOVING DEFORMABLE BA

(4) CR11045T R/F DUMMY ADDONEN SW 4000C

MAX = 0.9570 at 35.50 MS MIN = -.4335E-01 at -.7625E-05 MS

AXIS 1

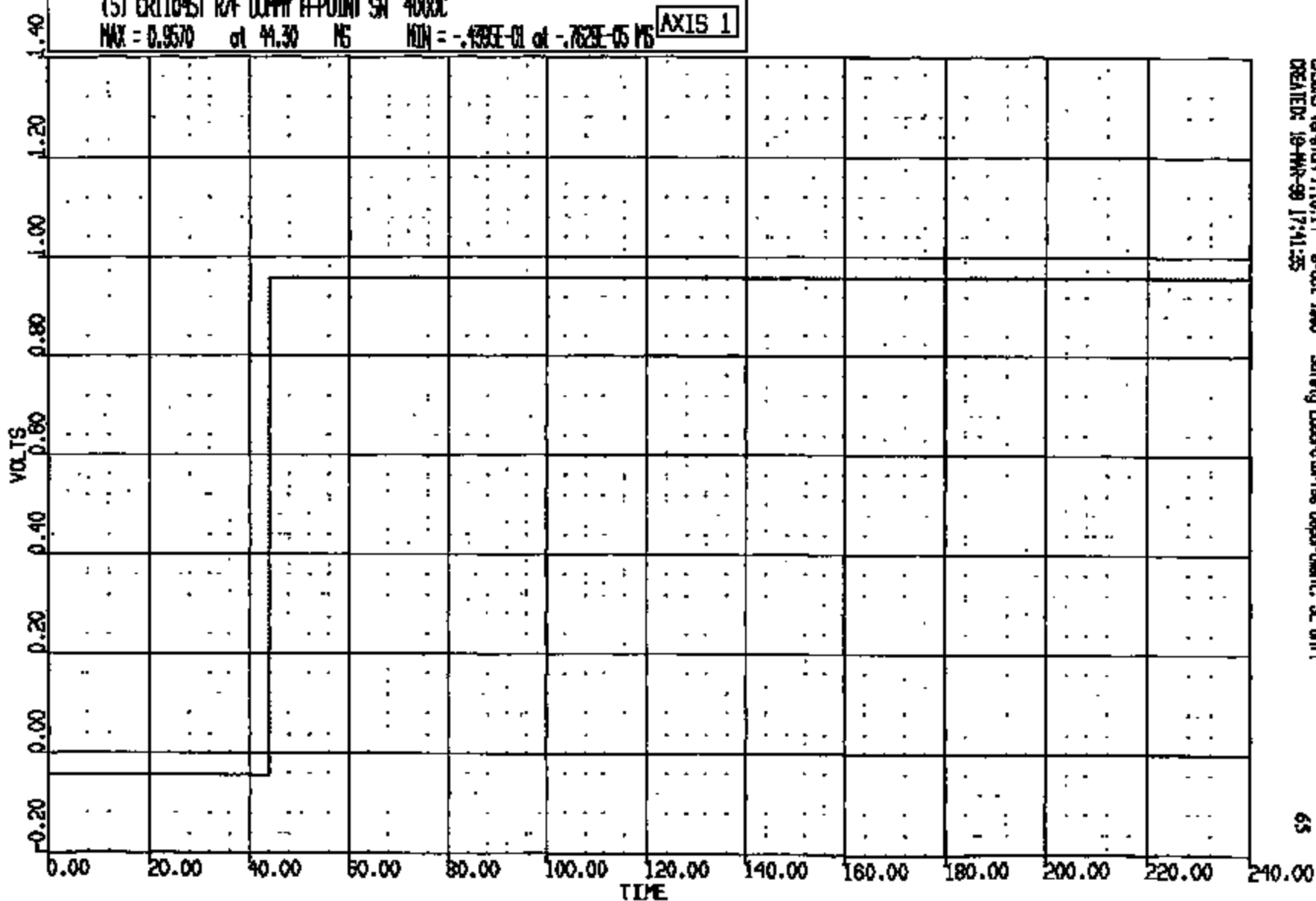


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1999 FN-145 MOVING DEFORMABLE BA

(5) CR11045T R/F DUMMY H-POINT SN 4000C

MAX = 0.9570 at 44.30 MS MIN = -.4393E-01 at -.7623E-05 MS

AXIS 1



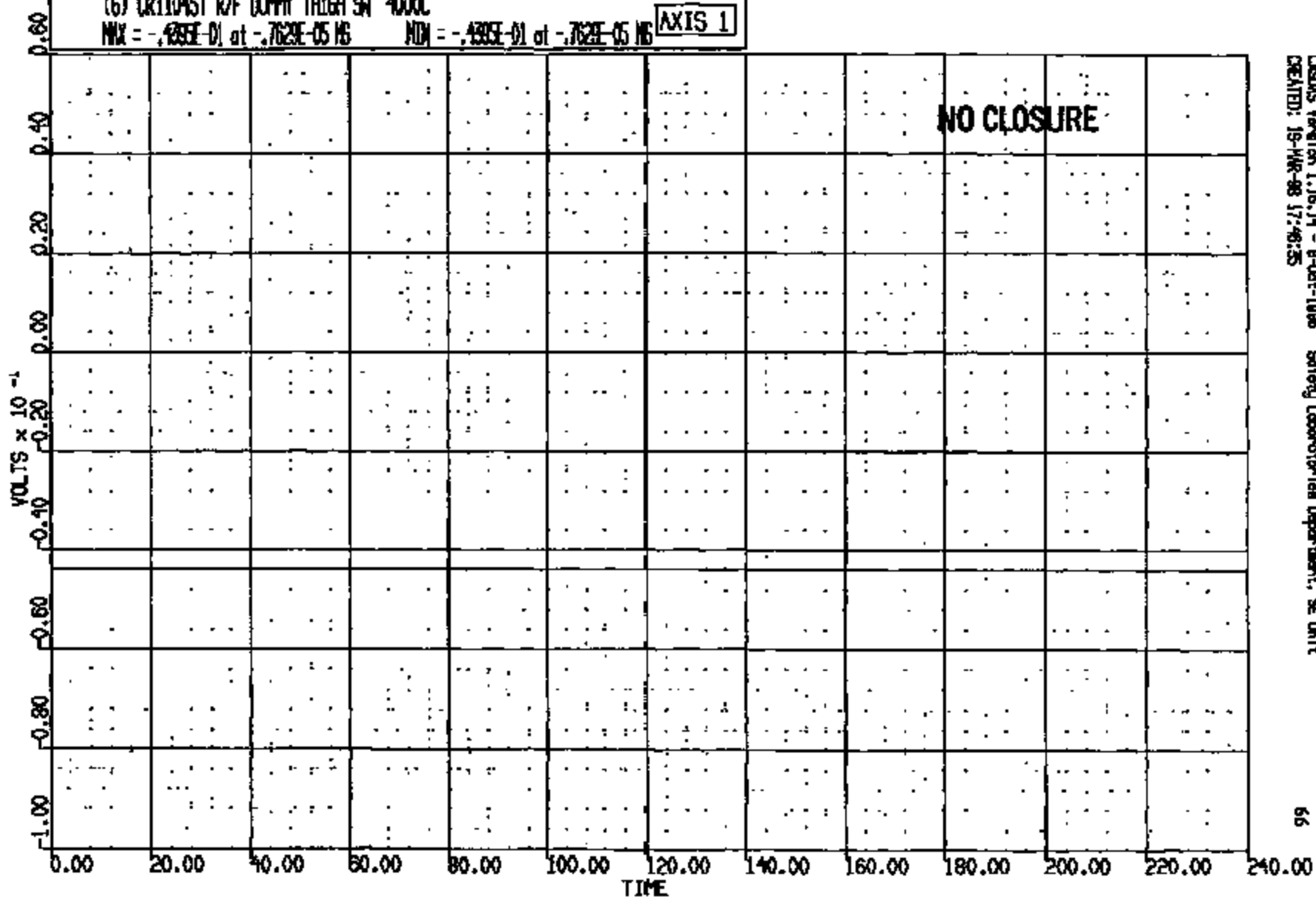
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1999 FN-145 MOVING DEFORMABLE BA

(6) CR11045T R/F DUMMY THIGH SW 4000C

MAX = -.430E-01 at -.762E-05 MS

MIN = -.430E-01 at -.762E-05 MS

AXIS 1



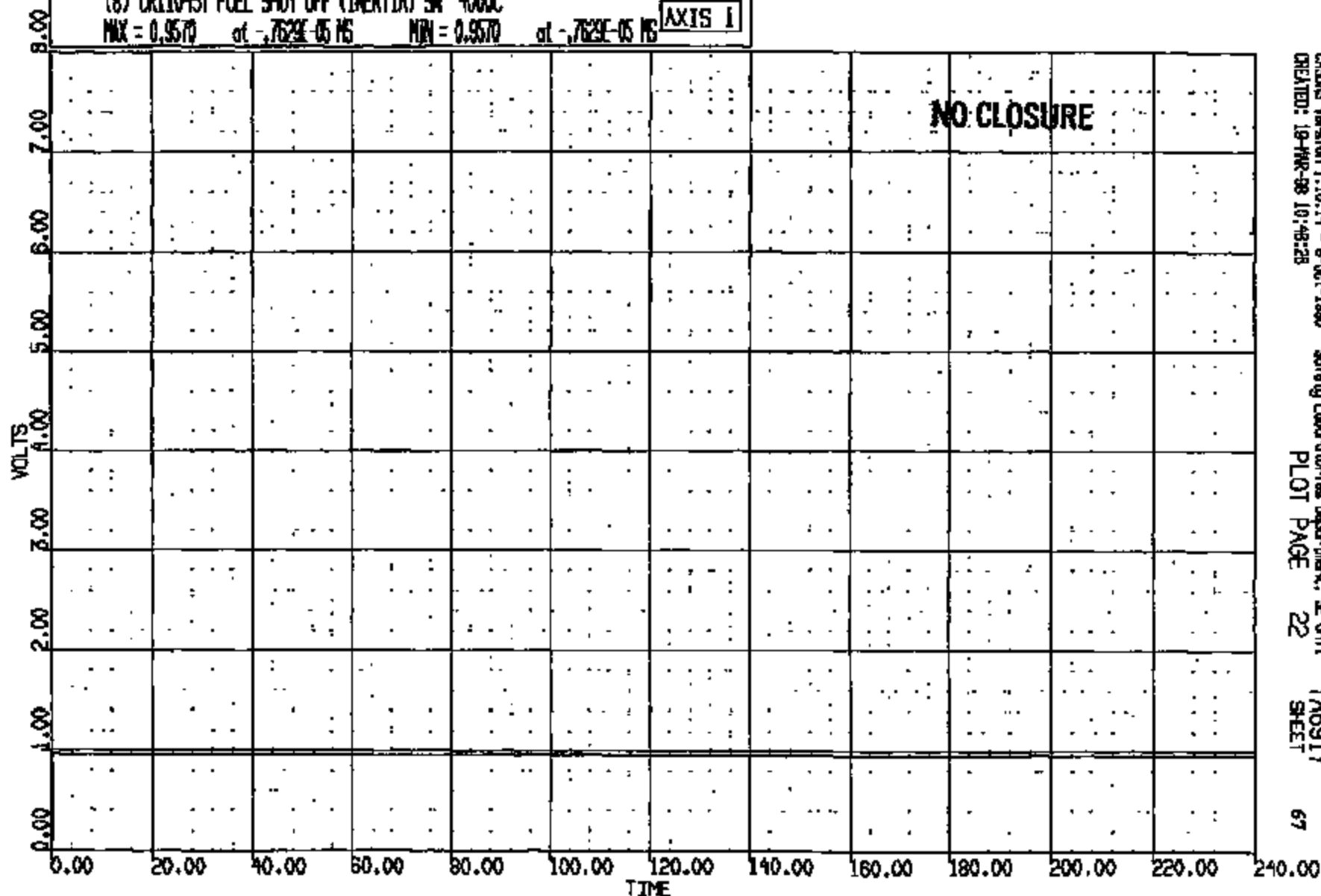
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CR R: 11045 TO: TAB917 DATE: 980818 10:12:50
1999 FN-145 1999 FN-145

(8) CR11045T FUEL SHUT OFF (INERTIA) SW 4000C

MAX = 0.9570 at - .7629E-05 MS MIN = 0.9570 at - .7629E-05 MS

AXIS 1



CASAS Version 1.16.14 - 8-Oct-1999
CREATED: 19-MAR-98 10:48:28

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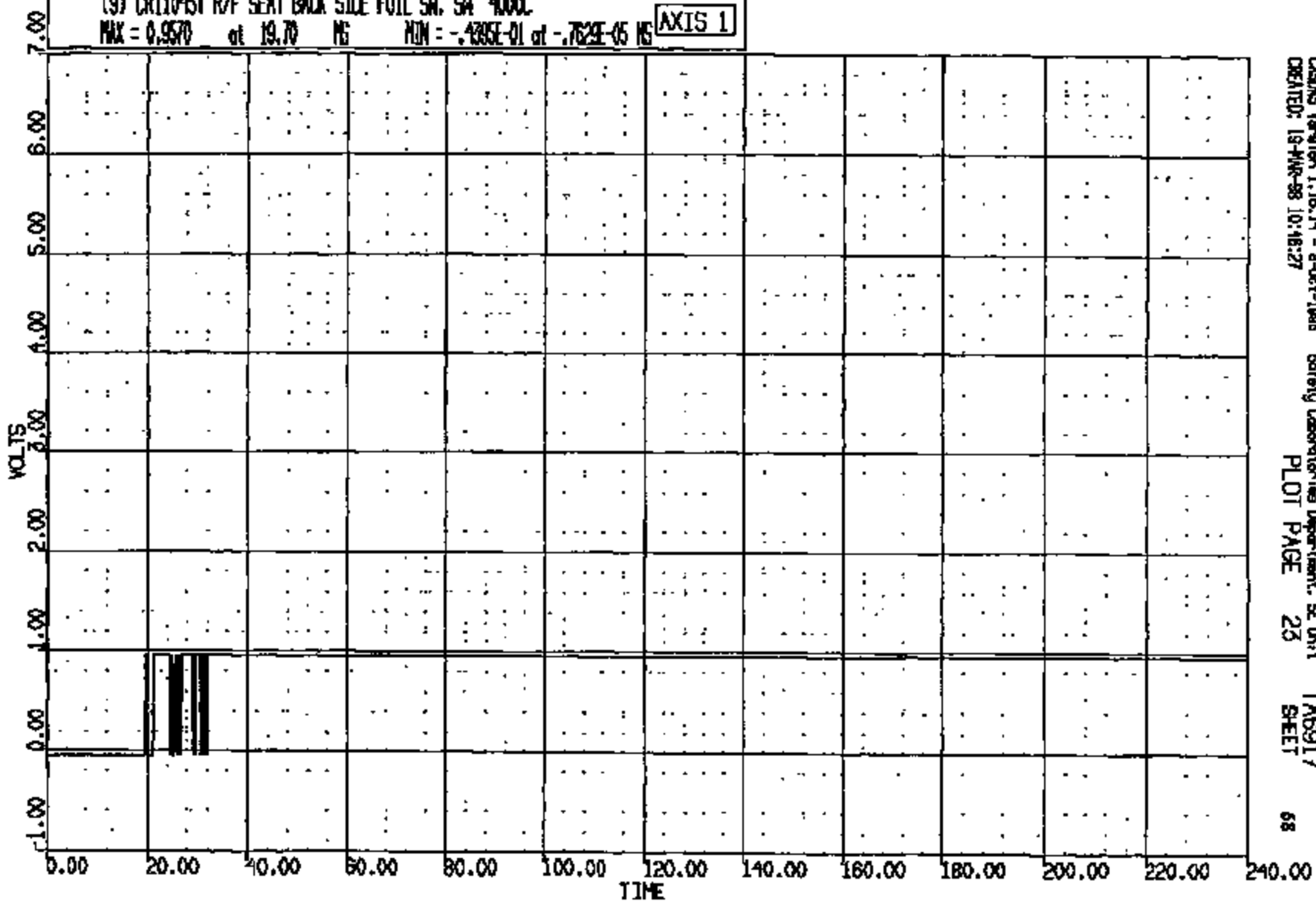
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1999 FN-145 1999 FN-145

(9) CR110451 R/F SEAT BACK SIDE FOIL SW. SW 4000C

MAX = 0.9570 at 19.70 NS MIN = -.4305E-01 at -.7629E-05 NS

AXIS 1



CASINS Version 1.16.14 - 8-Oct-1995
CREATED: 19-MAR-98 10:16:27

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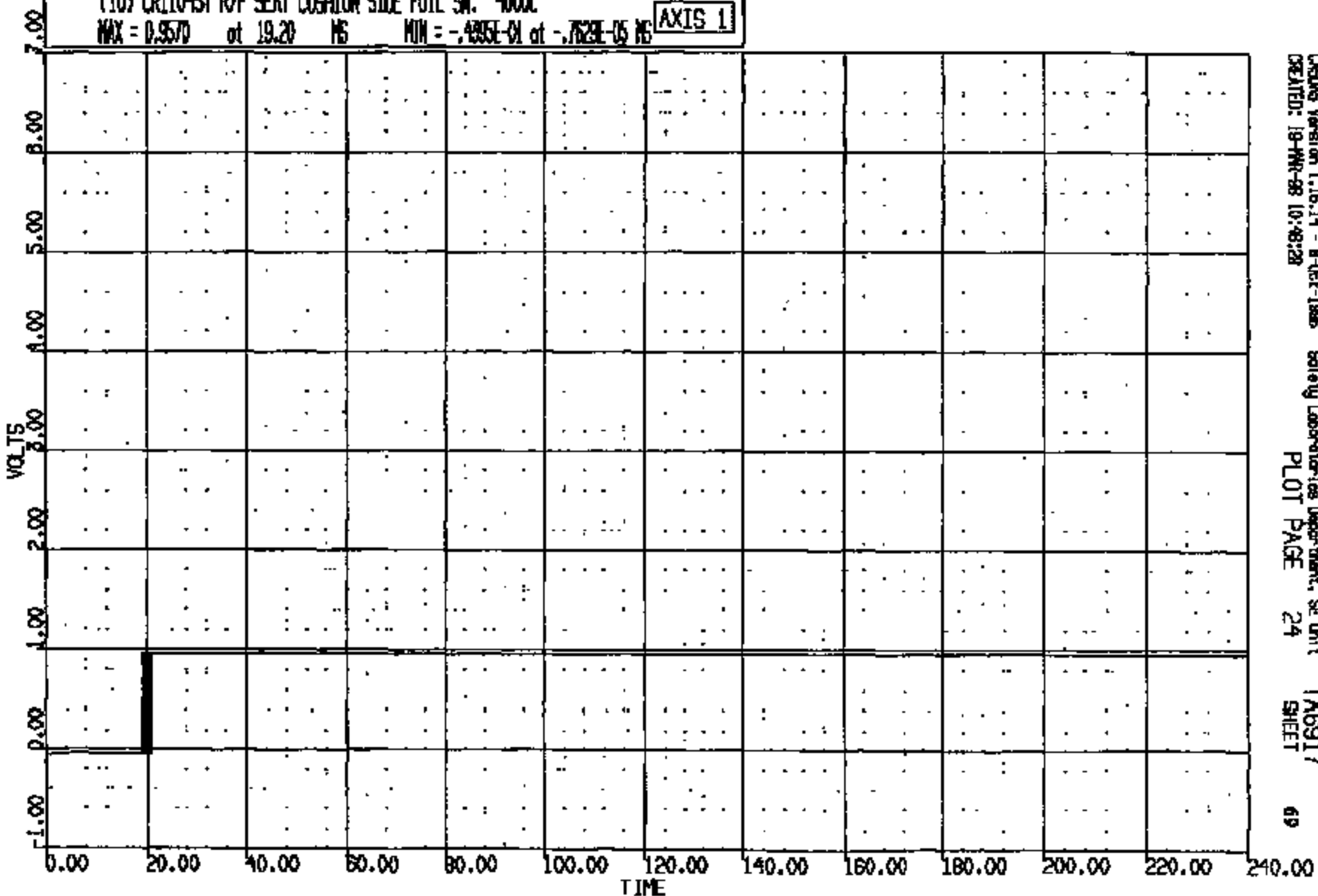
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CR R: 11045 TO: TA6917 DATE: 980319 10:12:50
1999 FN-145 1999 FN-145

(10) CR110451 R/F SEAT CUSHION SIDE FOIL SW. 4000C

MAX = 0.9570 at 19.20 MS MIN = -.4895E-01 at -.7623E-05 MS

AXIS 1



CASINS Version 1.16.14 - 8-Oct-1998
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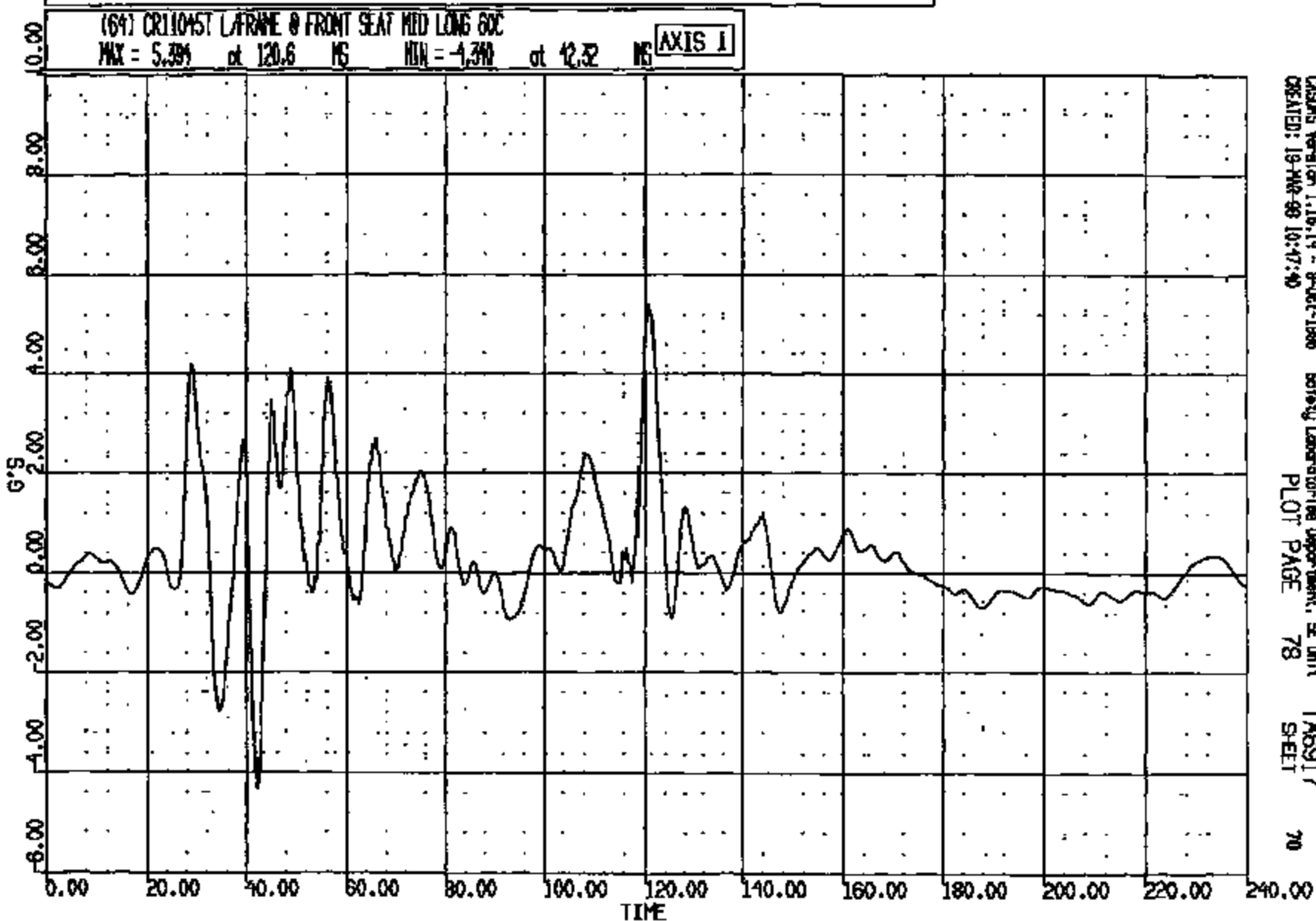
Safety Laboratories Department, SE Unit
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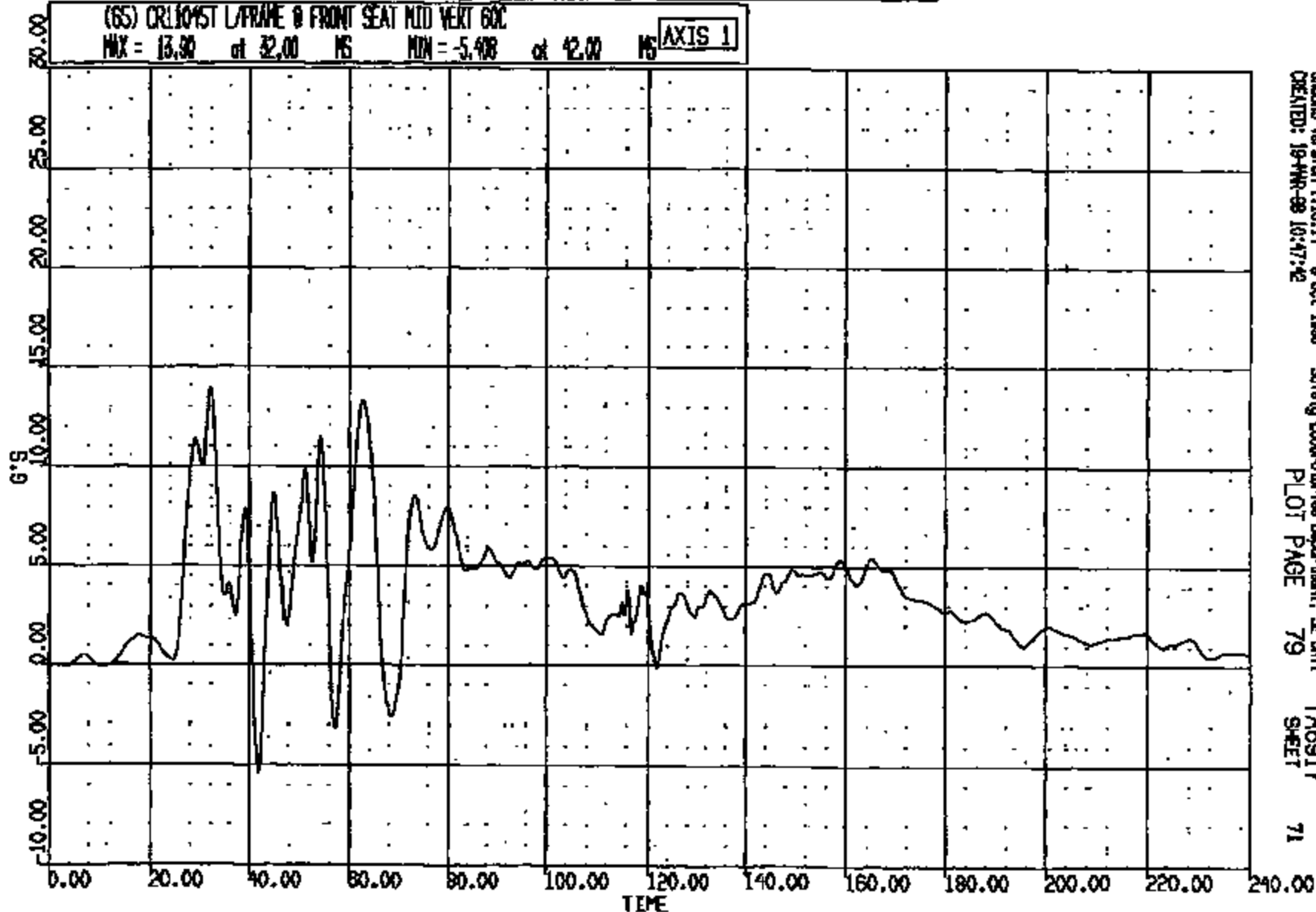
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CR R: 11045 TO: TA6917 DATE: 980319 10:12:50
1998 FN-145 1998 FN-145

(GS) CR11045T L/FRAIR @ FRONT SEAT MID VERT GXC

MAX = 13.90 at 32.00 MS MIN = -5.408 at 42.00 MS

AXIS 1



CASAS Version 1.16.14 - 9-Oct-1998
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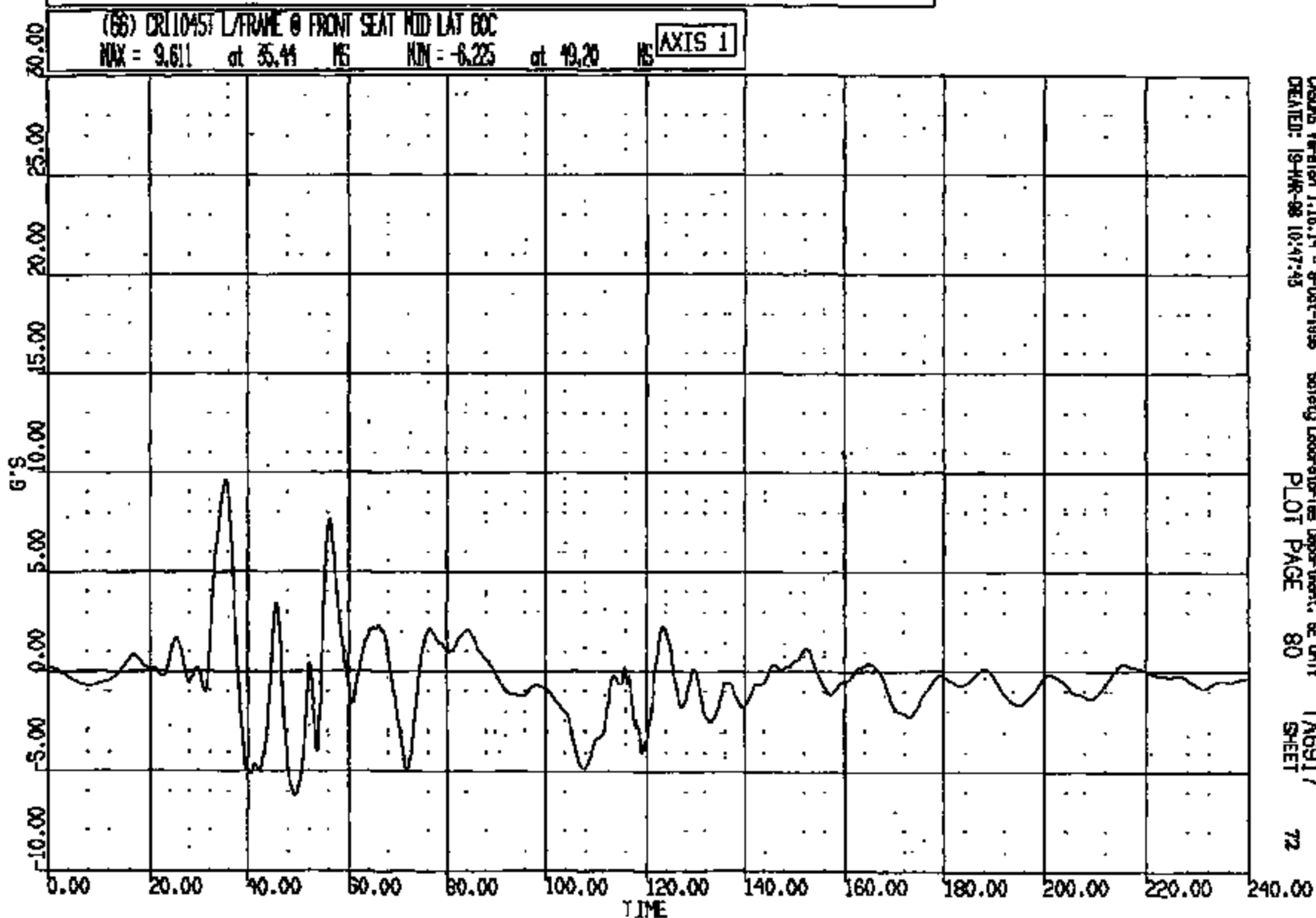
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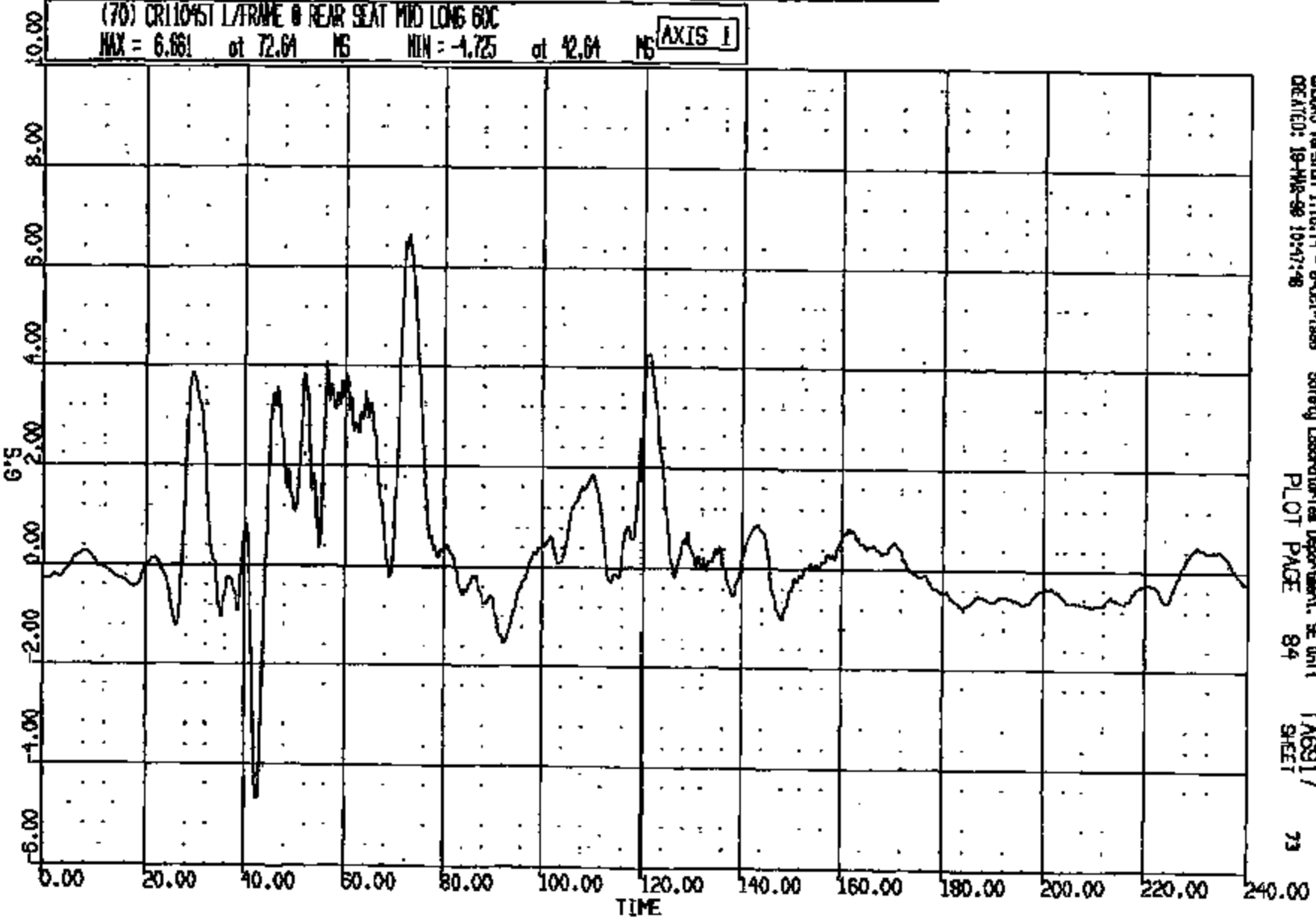
CRTS 0011045

CR R: 11045 TO: TABS17 DATE: 980819 10:12:50
1999 FN-145 1999 FN-145

(70) CR110451 L/FRAME @ REAR SEAT MID LONG 60C

MAX = 6.661 at 72.64 MS MIN = -1.725 at 42.64 MS

AXIS 1



CASIMS Version 1.16.14 - 8-Oct-1995
CREATED: 19-MAR-98 10:47:48

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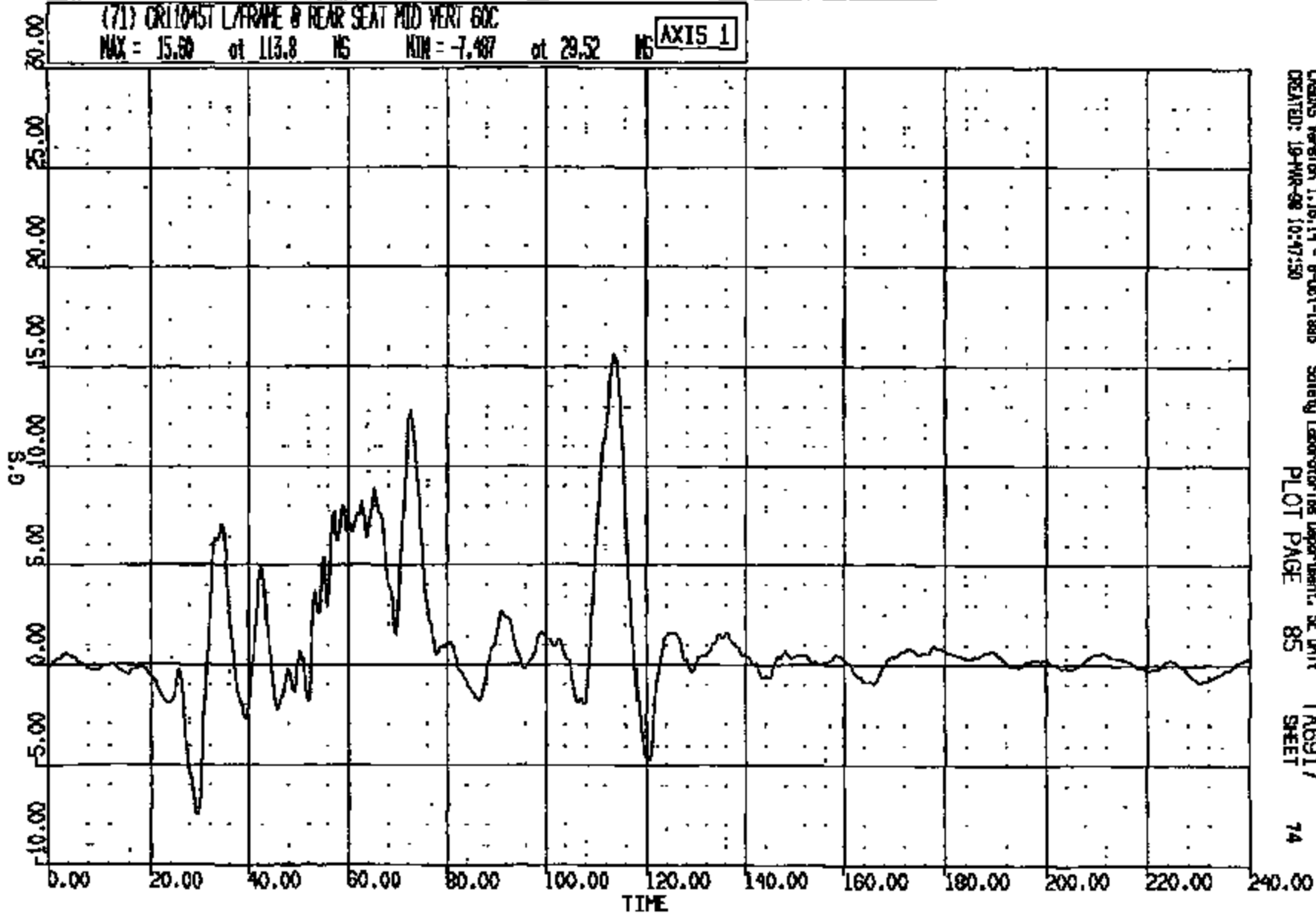
CRTS 0011045

CR R: 11045 ID: TAB917 DATE: 280310 10:12:50
1999 FN-145 1999 FN-145

(71) CR11045T L/FRAPE @ REAR SEAT MID VERT GOC

MAX = 15.80 at 113.8 MS MIN = -7.487 at 29.52 MS

AXIS 1



CASINS Version 1.16.14 - 8-Oct-1988
CREATED: 19-MAR-98 10:47:50

Safety Laboratories Department, SE Unit
PLOT PAGE 85

TAG917
SHEET 74

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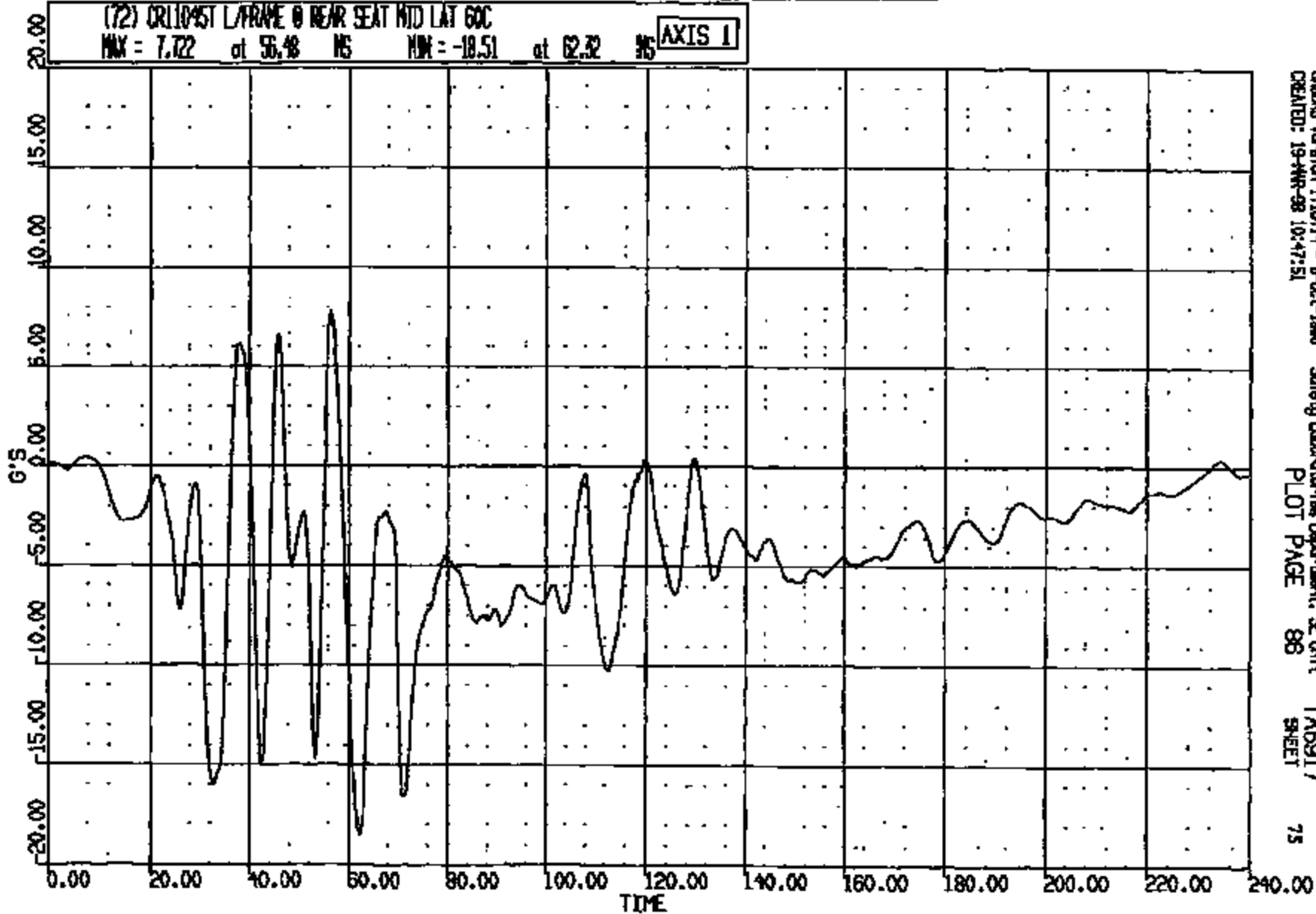
CRTS 0011045

CR #: 11045 TO: TAB917 DATE: 980318 10:12:50
1999 FN-145 1999 FN-145

(72) CR1045T L/FRAME 0 NEAR SEAT MID LAT 60C

MAX = 7.72 at 56.48 MS MIN = -18.51 at 62.32 MS

AXIS 1



CADDS Version 1.18.14 - 8-Oct-1998
CREATED: 19-APR-98 10:47:51

Safety Laboratories Department, SE Unit
PLOT PAGE 88

TAB917
SHEET 75

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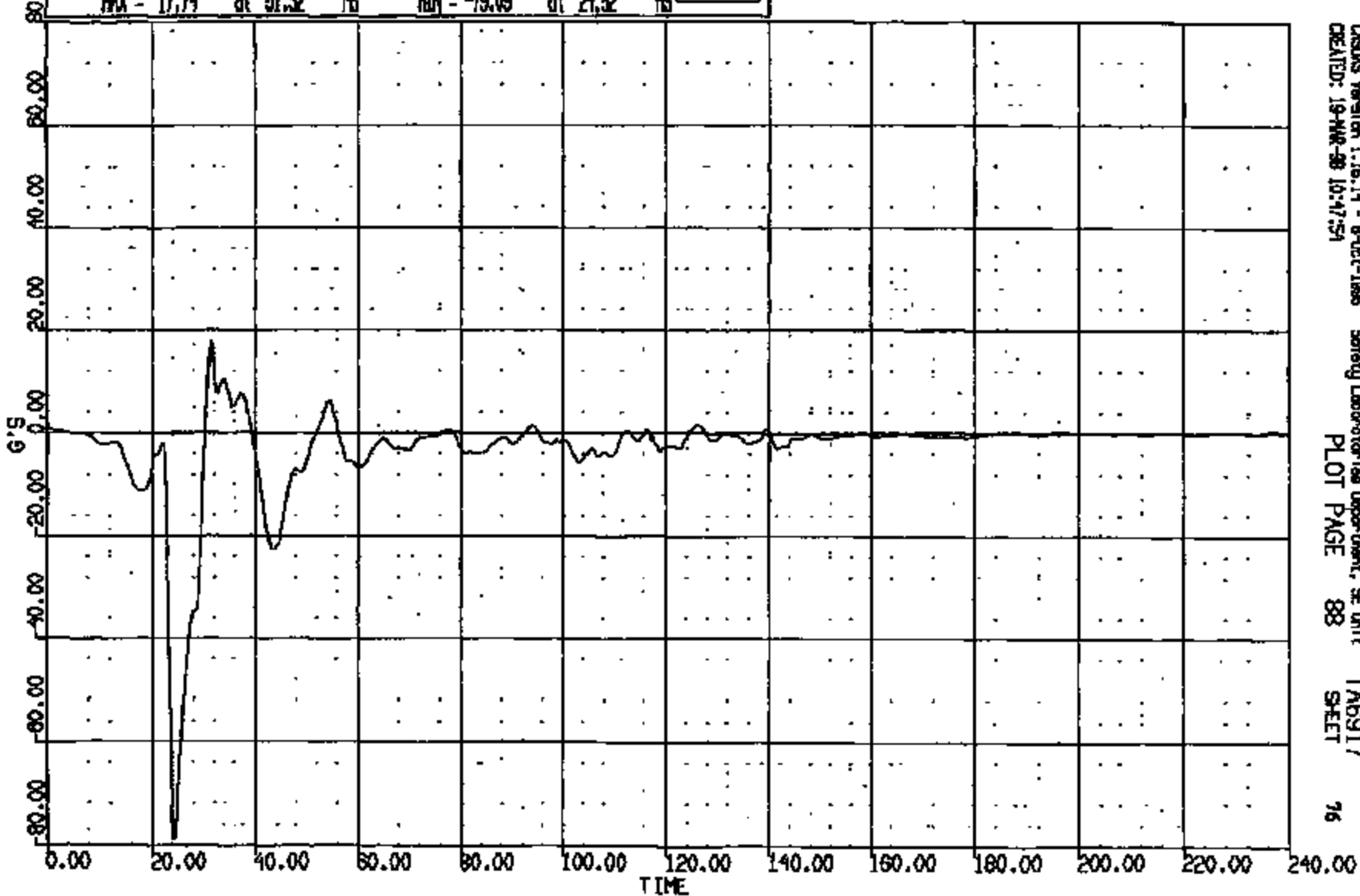
CRIS 0011045

CR R: 11045 TO: TA6917 DATE: 980319 10:12:50
1999 FN-145 1999 FN-146

(74) CR11045T R/FRAME @ FRONT SEAT MID LAT 60C

MAX = 17.79 at 31.52 MS MIN = -79.09 at 21.32 MS

AXIS 1



CASUS Version 1.16.14 - 8-Oct-1998
CREATED: 19-MAR-98 10:47:54

Safety Laboratories Department, SE Unit

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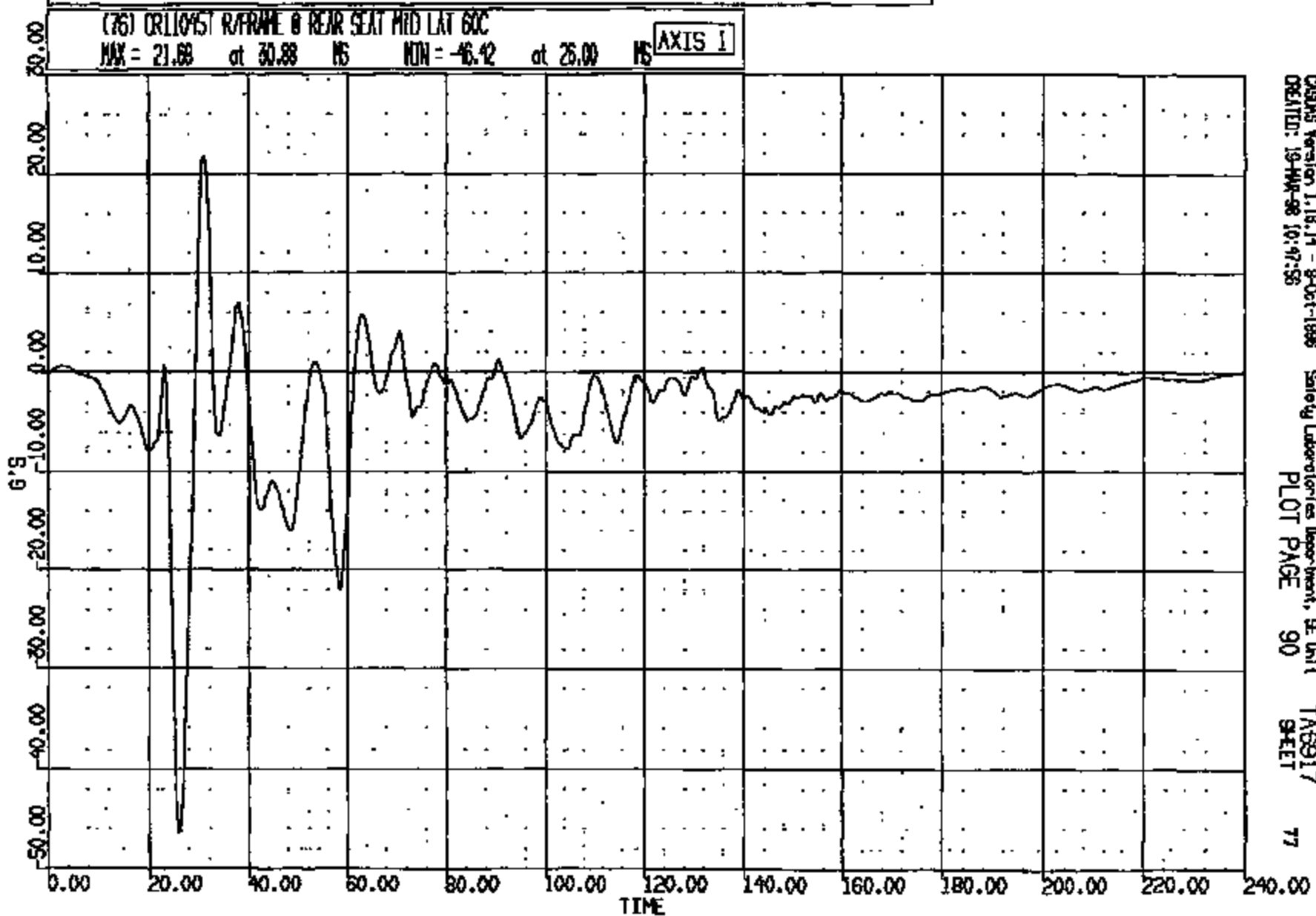
TA6917

SHEET 76

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CRIS 0011045

CR R: 11045 TO: TAB917 DATE: 980519 10:12:50
1999 FN-148 1999 FN-145



CASMS Version 1.18.14 - 8-Oct-1998
CREATED: 19-MAY-98 10:47:56

Safety Laboratories Department, SE Unit
PLOT PAGE 90

TAB917
SHEET 77

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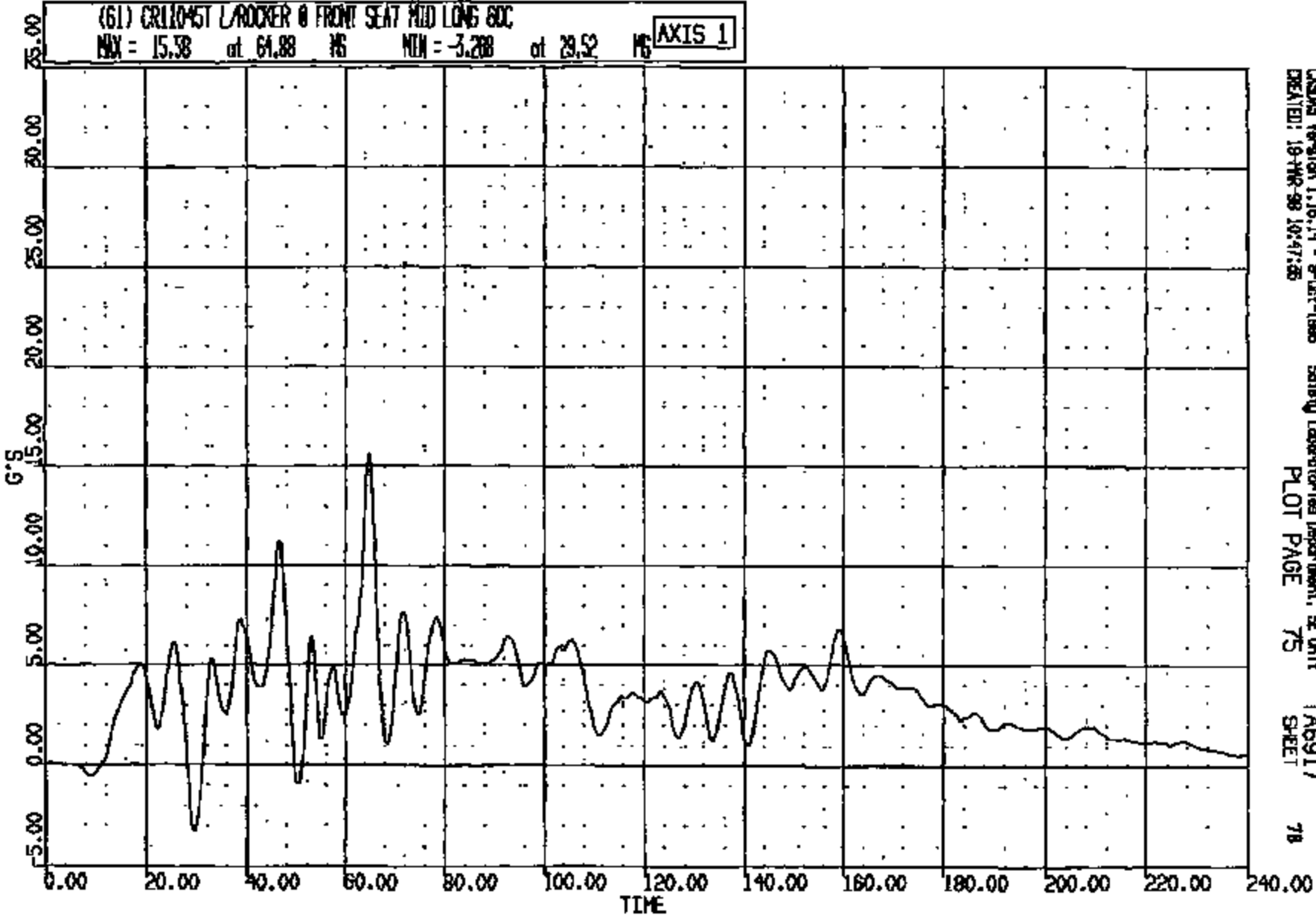
CRTS 0011045

CR R: 11045 TO: TA6917 DATE: 880519 10:12:50
1999 FN-146 1999 FN-146

(61) CR11045T L/ROCKER @ FRONT SEAT MID LONG 80C

MAX = 15.38 at 64.88 MS MIN = -3.288 at 29.52 MS

AXIS 1



CASME Version 1.16.14 - 8-Oct-1996
CREATED: 19-MAR-98 10:47:25

Safety Laboratories Department, SE Unit
PLOT PAGE 75

TA6917
SHEET 78

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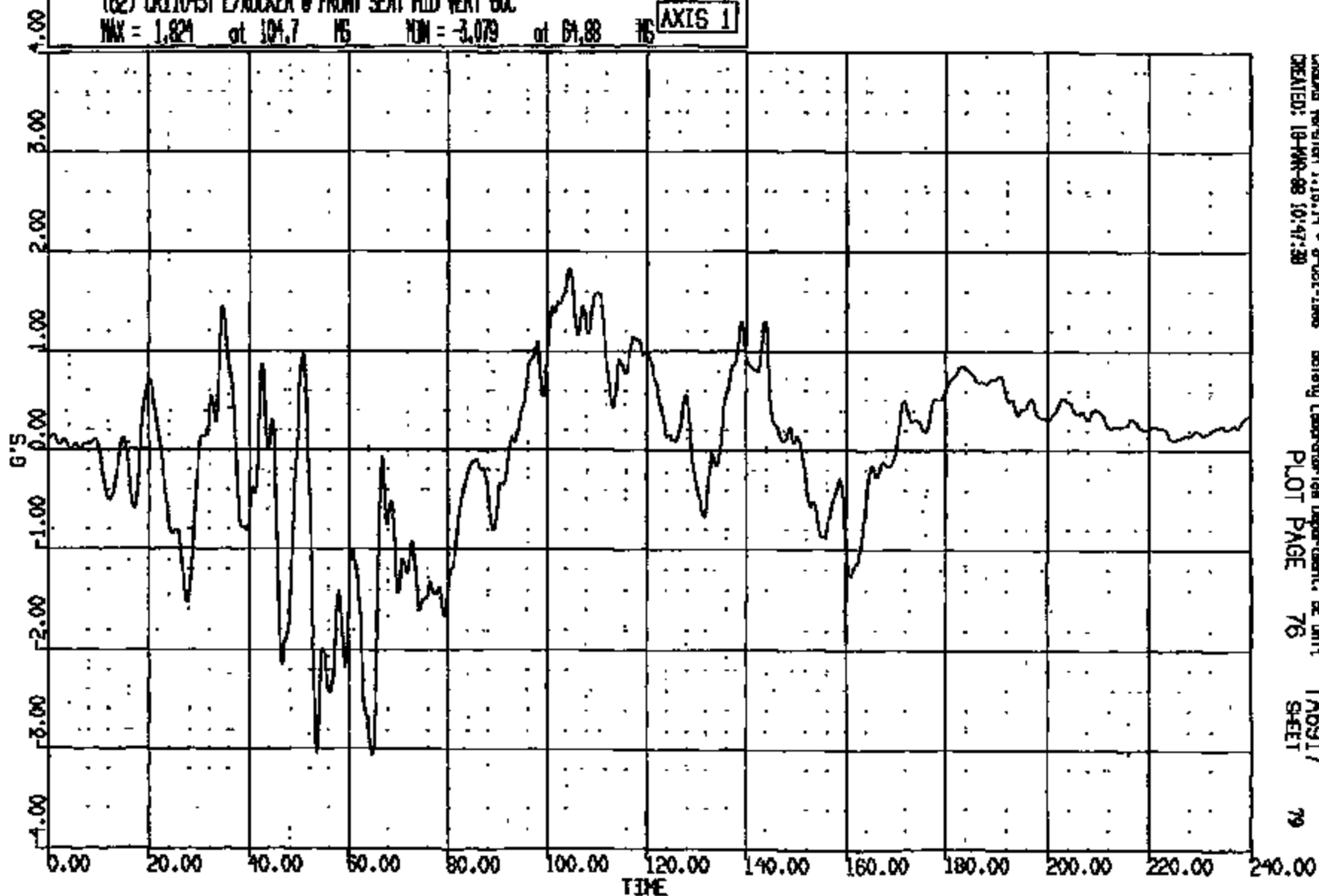
CRIS 0011045

CR R: 11045 TO: TAB917 DATE: 980519 10:12:50
1999 FN-145 1999 FN-145

(62) CR11045T L/ROCKER @ FRONT SEAT MID VERT GOC

MAX = 1.824 at 101.7 MS MIN = -3.079 at 61.88 MS

AXIS 1



CASAB Version 1.15.14 - 8-Oct-1998
CREATED: 18-MAR-98 10:47:28

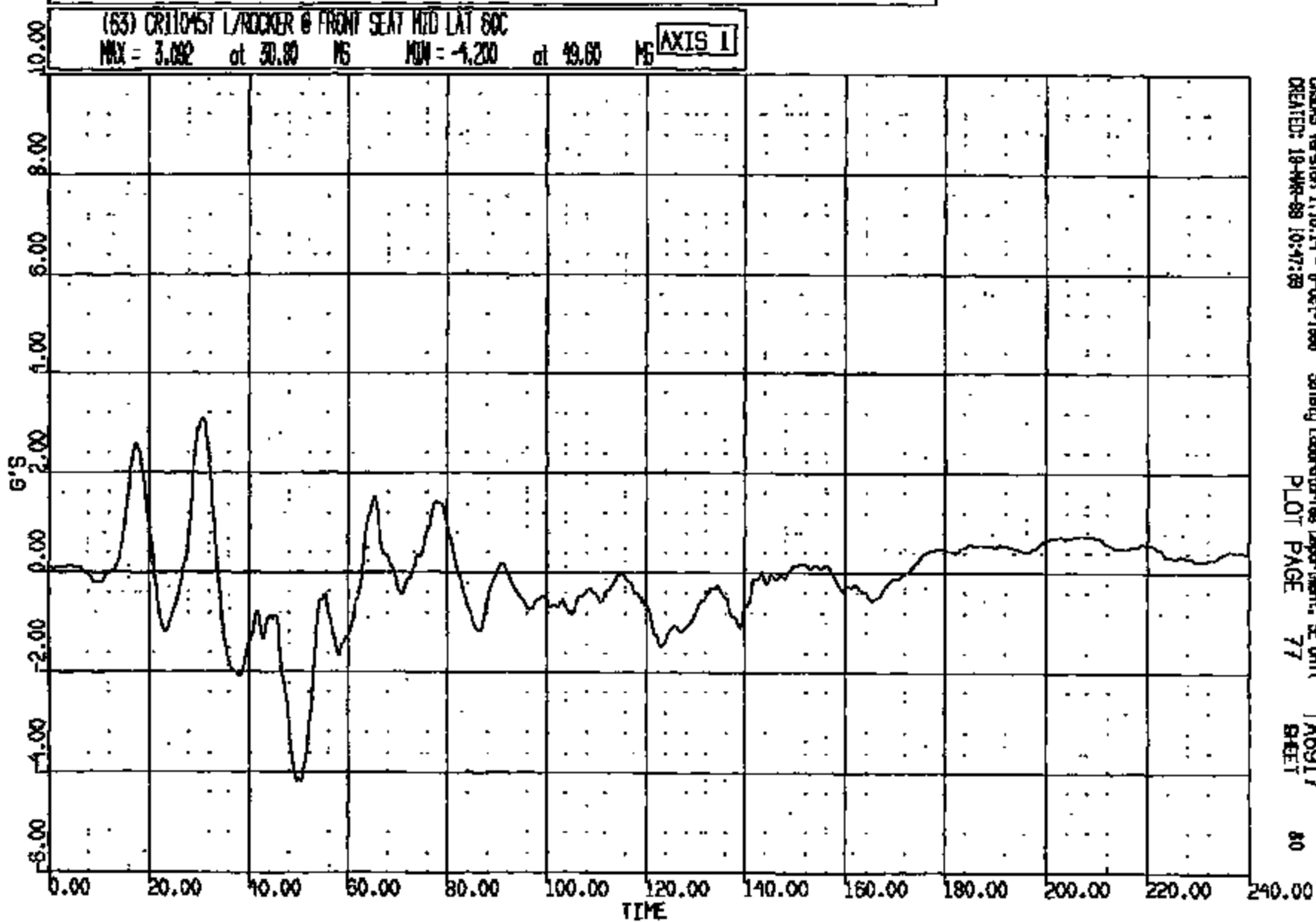
Safety Laboratories Department, BE Unit
PLOT PAGE 76

TAB917
SHEET 79

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CRIS 0011045

CR R: 11045 TO: TAB917 DATE: 980319 10:12:50
1999 FN-145 1999 FN-145



CASINS Version 1.16.14 - 8-Oct-1996
CREATED: 18-MAR-98 10:47:39

Safety Laboratories Department, SE Unit
PLOT PAGE 77

TAB917
SHEET 80

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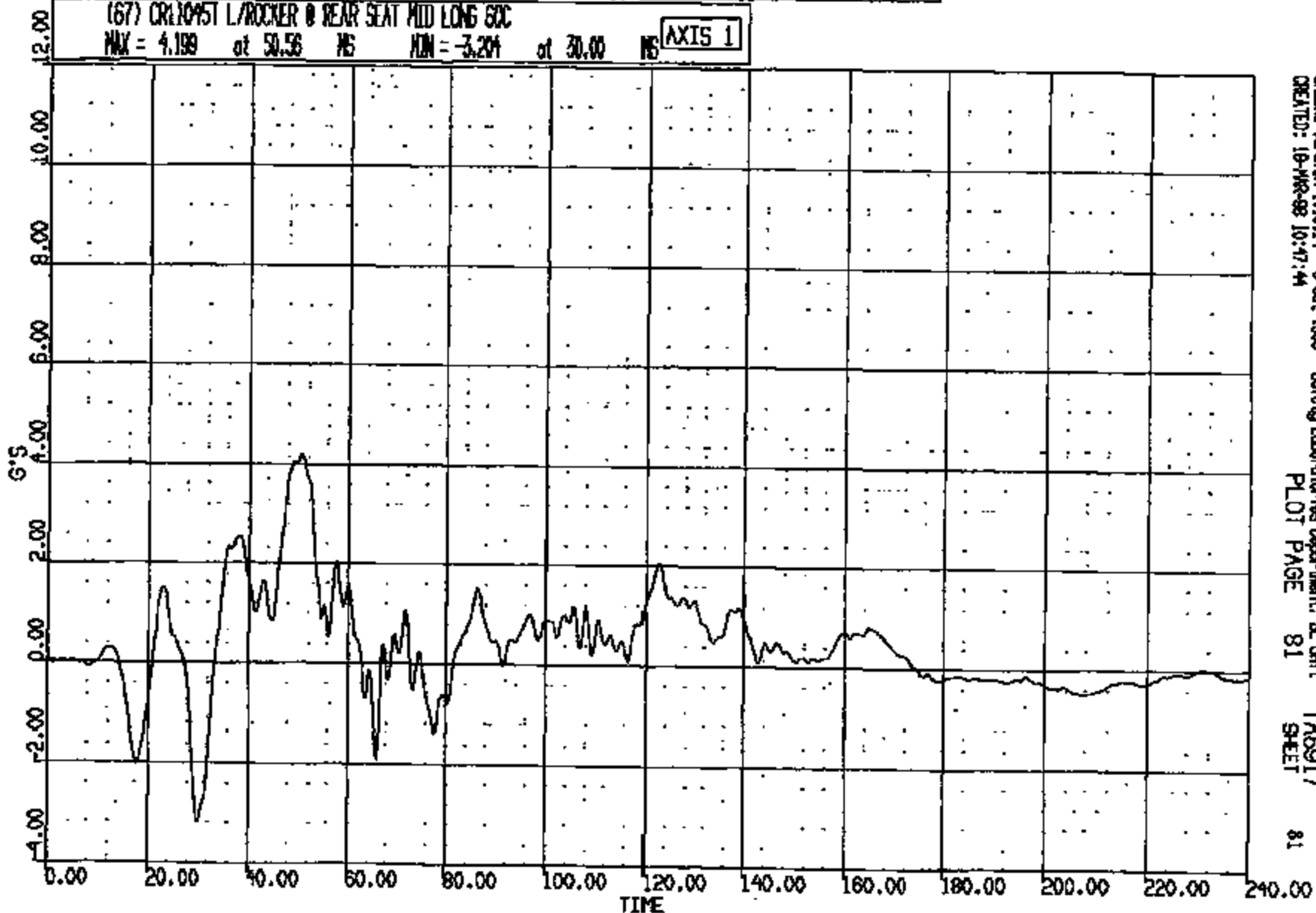
CR11S 0011045

CR R: 11045 TO: TAB917 DATE: 980518 10:12:50
1999 FN-145 1999 FN-146

(67) CR110451 L/ROCKER @ REAR SEAT MID LONG GOC

MAX = 4.199 at 50.56 MS MIN = -3.204 at 30.00 MS

AXIS 1



CASUS Version 1.16.14 - 8-Oct-1998
CREATED: 18-MAR-98 10:17:44

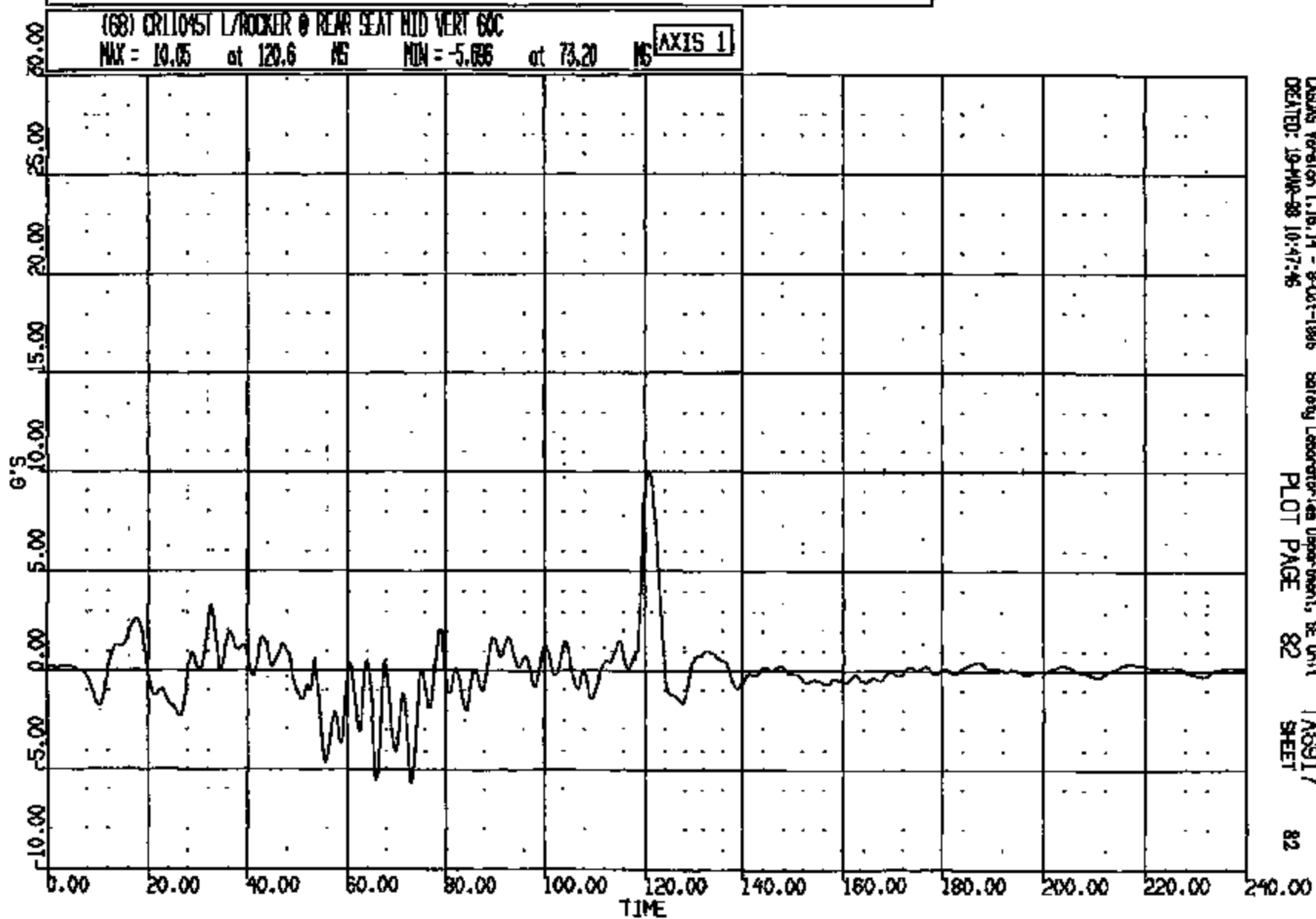
Safety Laboratories Department, BE Unit
PLOT PAGE 81

TAB917
SHEET 81

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CRIS 0011045

CR R: 11045 TO: TAG917 DATE: 980819 10:12:50
1999 FN-146 1999 FN-146



CASAS Version 1.16.14 - 8-Oct-1996
CREATED: 19-AUG-98 10:47:46

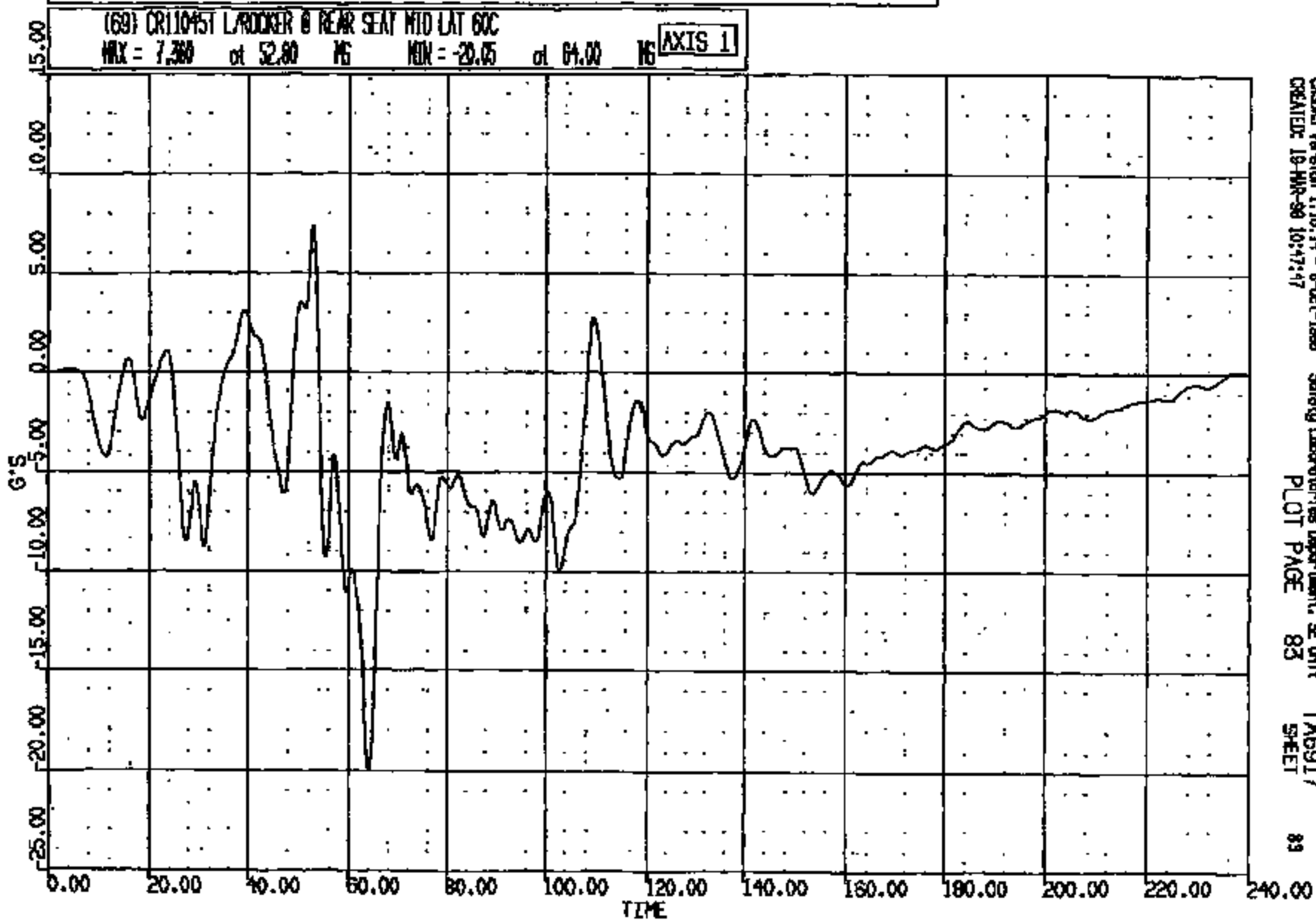
Safety Laboratories Department, SE Unit
PLOT PAGE 82

TAG917
SHEET 82

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CRIS 0011045

CR R: 11045 TO: TAG917 DATE: 990319 10:12:50
1999 FN-145 1999 FN-145



CISAS Version 1.16.14 - 8-Oct-1996
CREATED: 19-MAR-99 10:17:17

Safety Laboratories Department, SE Unit
PLOT PAGE 83

TAG917
SHEET 83

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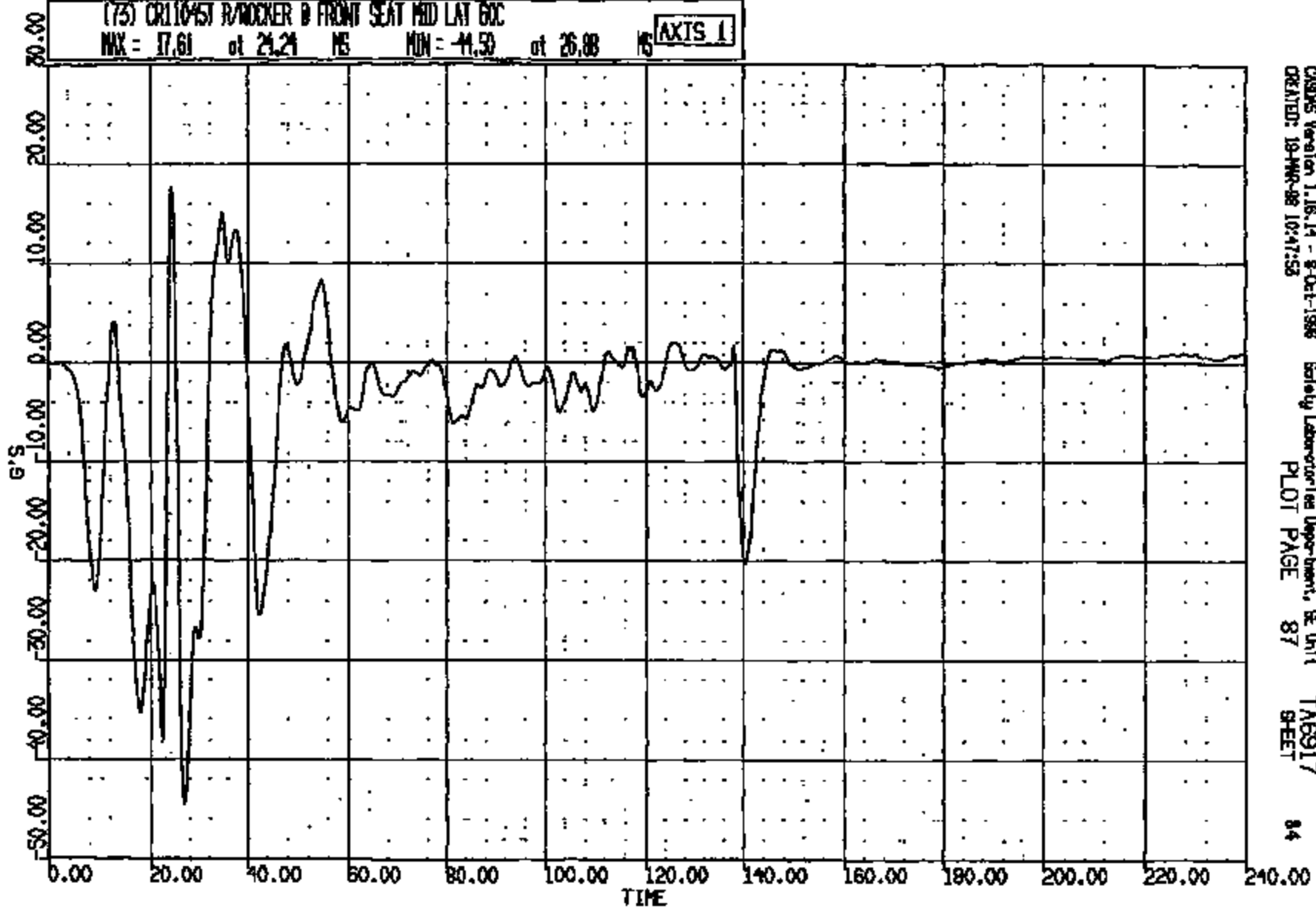
CRIS 0011045

CR R: 11045 TO: TA8917 DATE: 880318 10:12:50
1999 FN-145 1999 FN-145

(73) CR110451 R/DOCKED @ FRONT SEAT MID LAT 60C

MAX = 17.61 at 24.24 MS MIN = -44.53 at 26.88 MS

AXIS 1



CASHS Version 1.16.14 - 8-Oct-1986
 CREATED: 19-MAR-88 10:47:53

Soil & Water Laboratory, SE Unit
PLOT PAGE 87

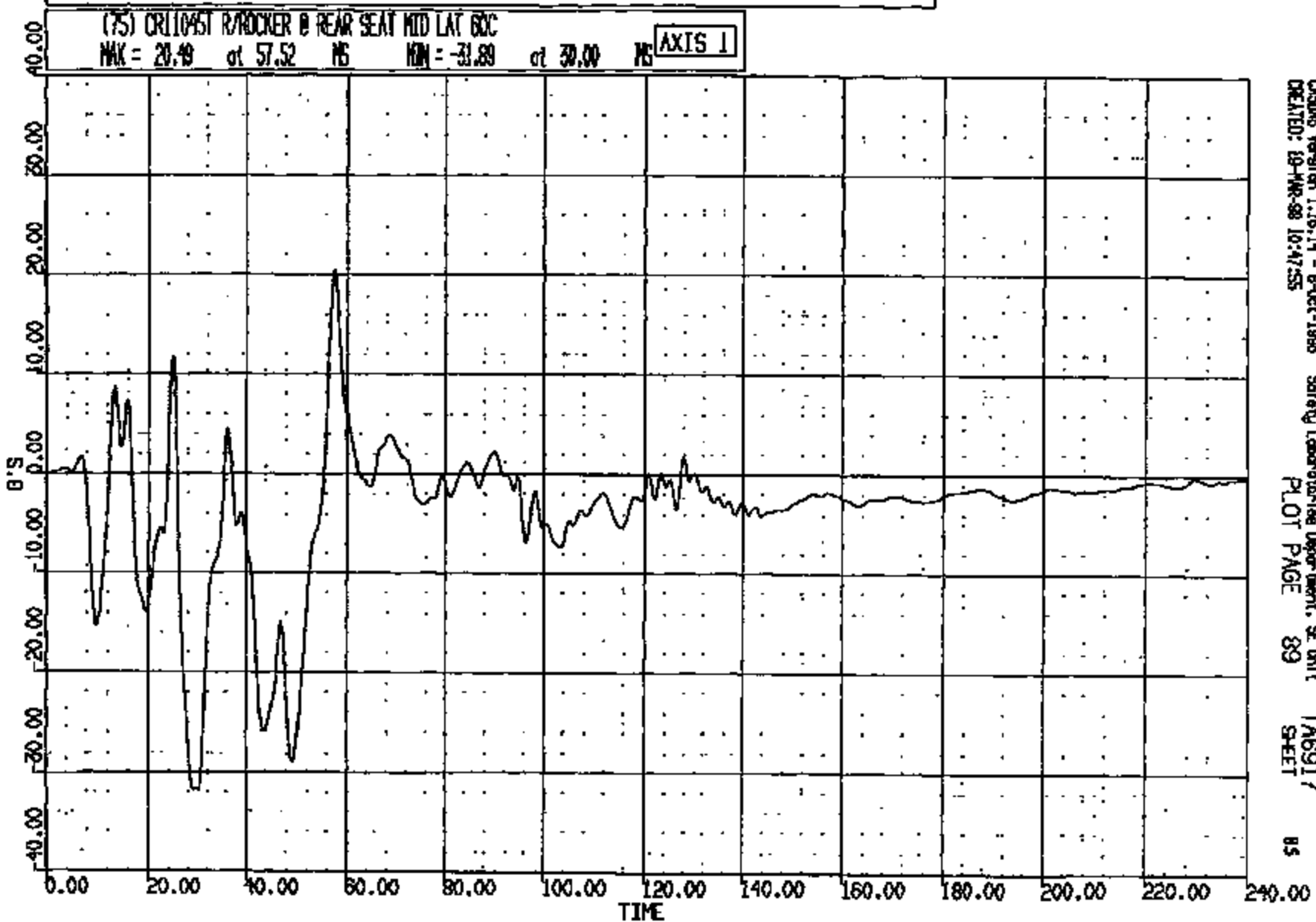
TABLE 917
SHEET

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ENTIRE PAGE CONFIDENTIAL.

CRTS 0011045

CR R: 11045 TO: TAB917 DATE: 880218 10:12:50
1988 FN-145 1988 FN-145



CASUS Version 1.16.14 - 8-Oct-1988
CREATED: 19-MAR-88 10:47:55

Safety Laboratories Department, SE Unit
PLOT PAGE 89

TAB917
SHEET 85

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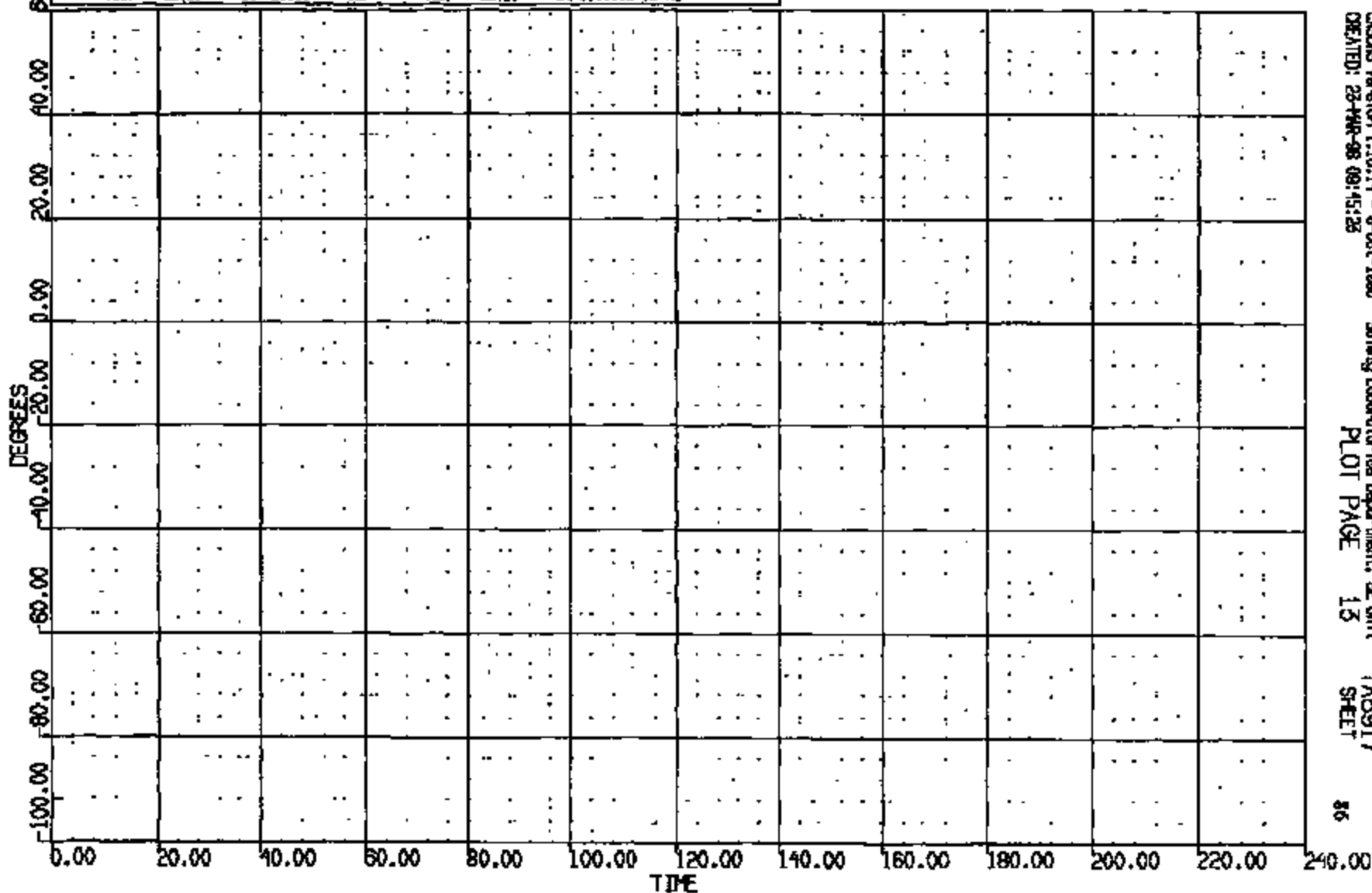
CR15 0011045

CR R: 11045 TO: TAB917 DATE: 980312 10:12:50
1999 FN-145 1999 FN-145

(0) CR011045 L S ROOF AT A PLR WRT GRND REF STAT ANGLE

MAX = -92.00 at 2.000 MS MIN = -92.18 at 0.0000E+00 MS

AXIS 1



CASAS Version 1.16.14 - 8-Oct-1999
CREATED: 22-FAR-98 09:45:26

Safety Laboratories Department, SE Unit
PLOT PAGE 13

TAB917
SHEET 86

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CR011045

CR #: 11045 TO: TAG917 DATE: 980518 10:12:50
1998 FN-145 1998 FN-145

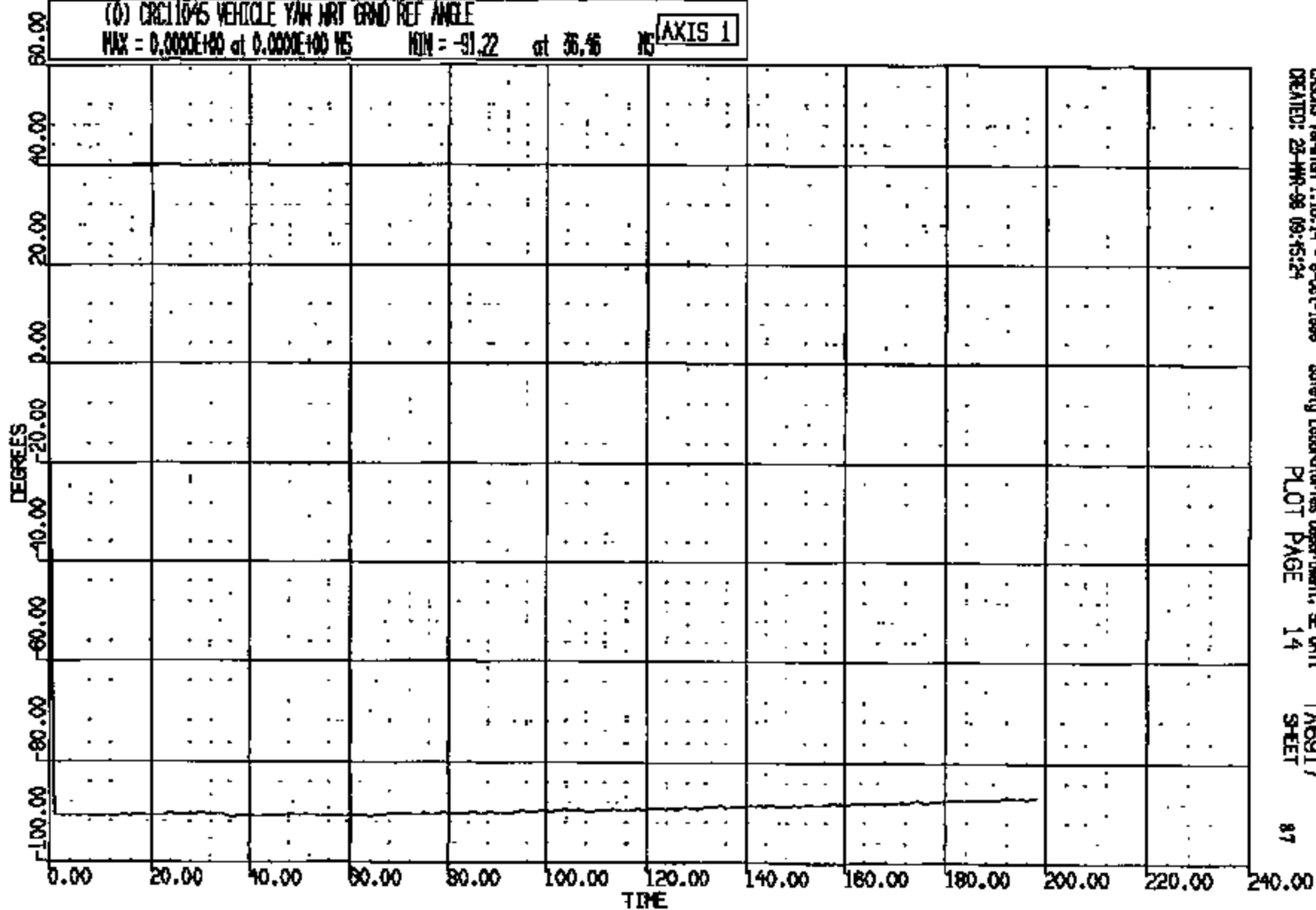
(0) CR011045 VEHICLE YAW WRT GRND REF ANGLE

MAX = 0.0000E+00 at 0.0000E+00 HS

MIN = -91.22

at 36.46 HS

AXIS 1



CASIMS Version 1.16.14 - 8-Oct-1998
CREATED: 28-MAR-98 09:15:24

Safety Laboratories Department, SE Unit
PLOT PAGE 14

TAG917
SHEET

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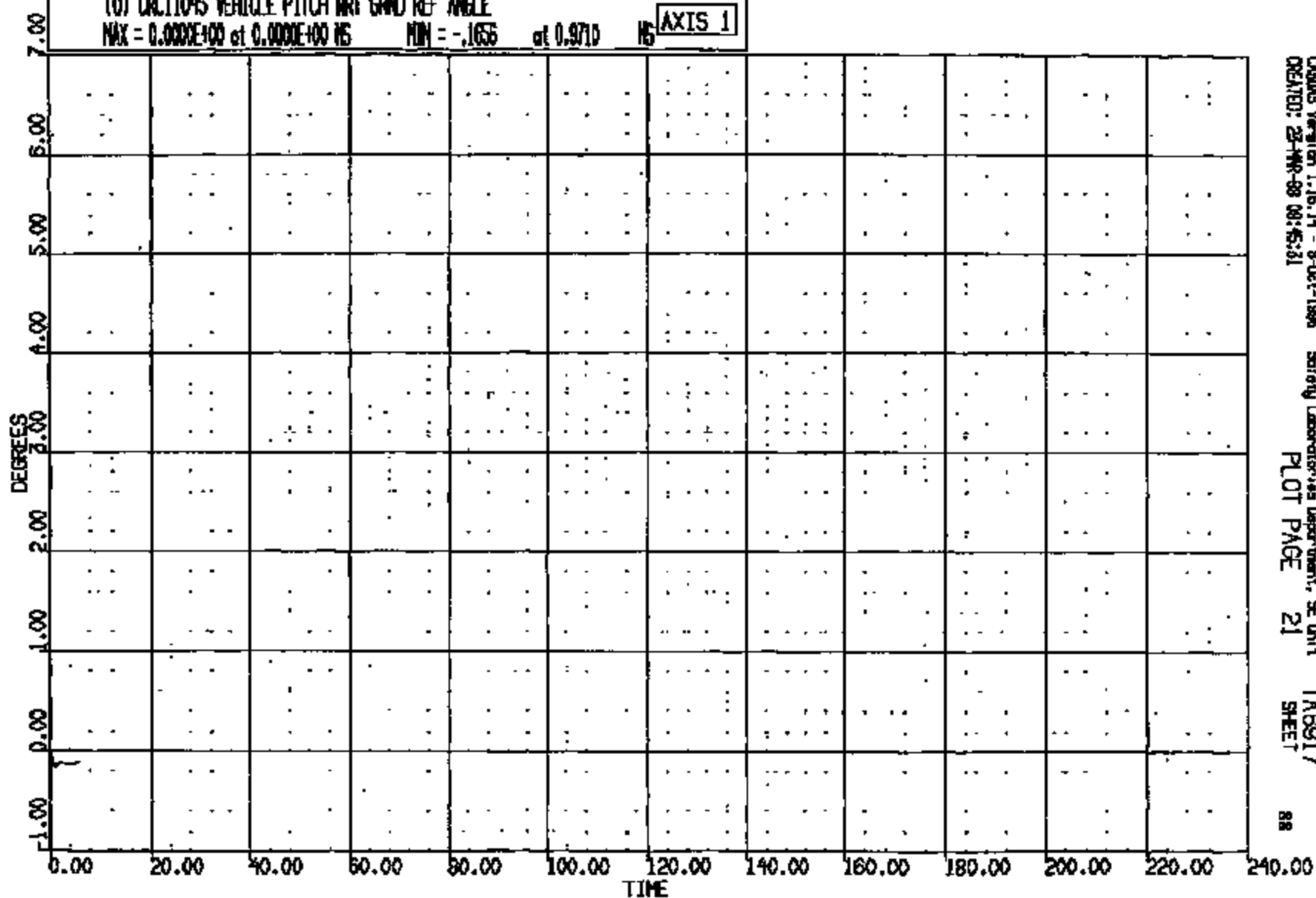
CRIS 0011045

CR R: 11045 TO: TAB917 DATE: 880819 10:12:50
1989 FN-145 1989 FN-145

(0) CR11045 VEHICLE PITCH WRT GND REF ANGLE

MAX = 0.000E+00 at 0.000E+00 HS MIN = -.1635 at 0.9710 HS

AXIS 1



CASAS Version 1.16.14 - 8-Oct-1988
CREATED: 23-MAR-88 08:45:31

Safety Laboratories Department, SE Unit
PLOT PAGE 21

TAB917
SHEET

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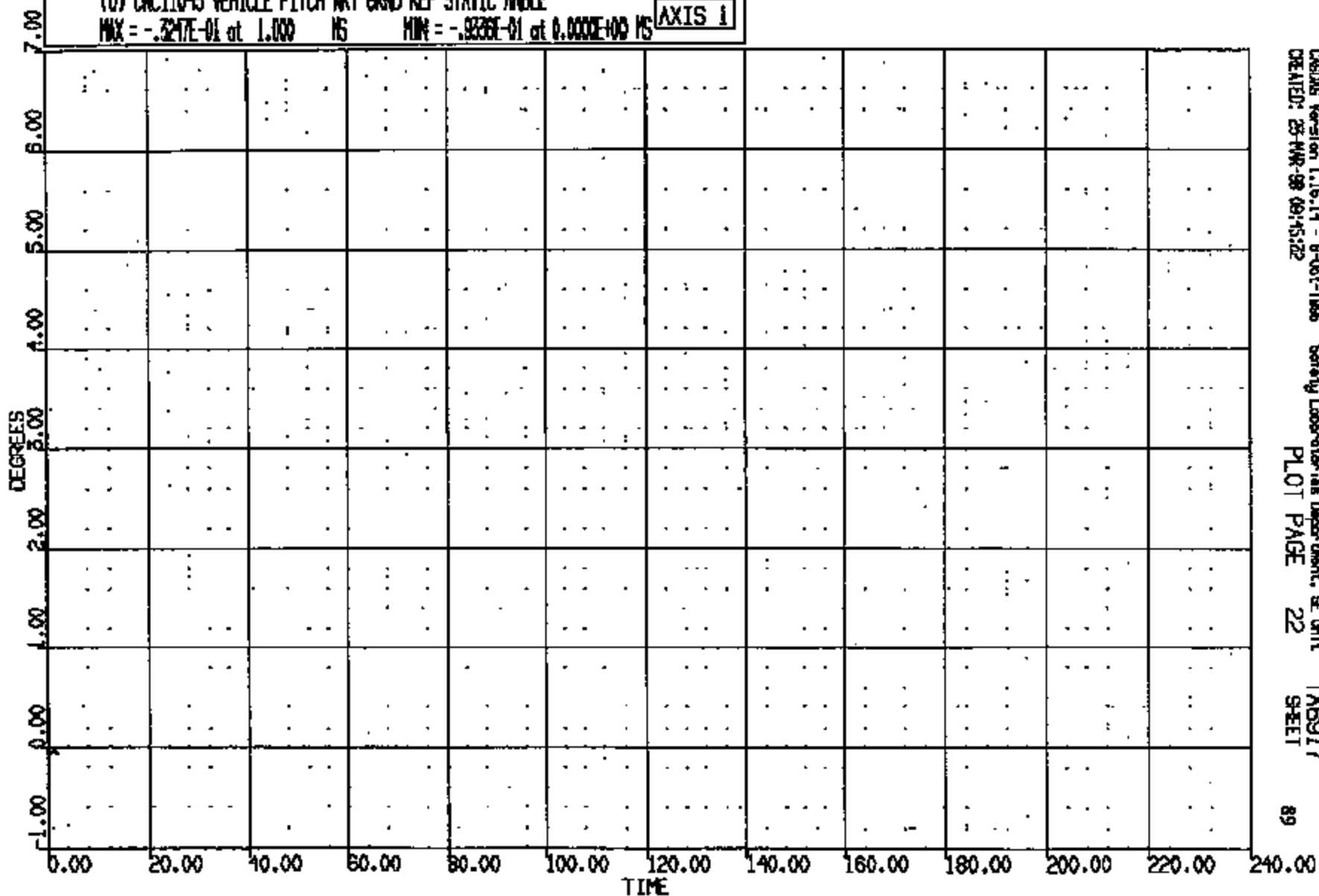
CR11045

CR R: 11045 TO: TAB917 DATE: 980319 10:12:50
1999 FN-145 1999 FN-145

(0) CRC11045 VEHICLE PITCH WRT GRND REF STATIC ANGLE

MAX = -.3247E-01 at 1.000 MS MIN = -.9336E-01 at 0.0000E+00 MS

AXIS 1



CASIMS Version 1.16.14 - 8-Oct-1999
CREATED: 25-MAR-98 09:45:22

Safety Laboratories Department, SE Unit
PLOT PAGE 22 TAB917

SHEET 89

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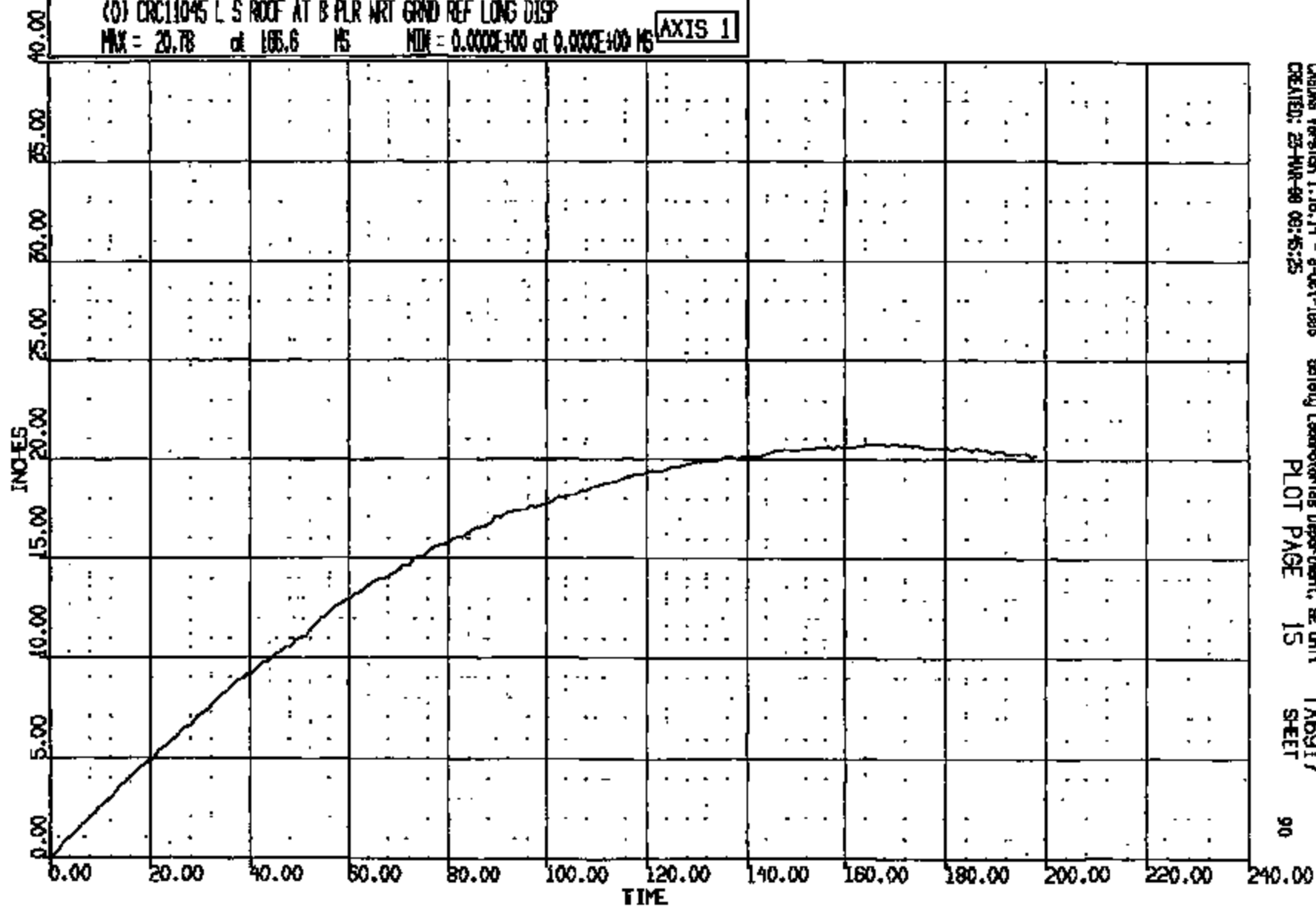
CRTS 0011045

CR R: 11045 TO: TAB917 DATE: 280518 10:12:50
1999 FN-145 1999 FN-145

(0) CRC11045 L S ROOF AT B PLR WRT GRID REF LONG DISP

MAX = 20.78 at 105.6 MS MIN = 0.000E+00 at 0.000E+00 MS

AXIS 1



CRTS 0011045

CADDS Version 1.16.14 - 8-Oct-1995
CREATED: 25-MAR-99 09:45:25

Safety Laboratories Department, BE Unit
PLOT PAGE 15

TAB917
SHEET

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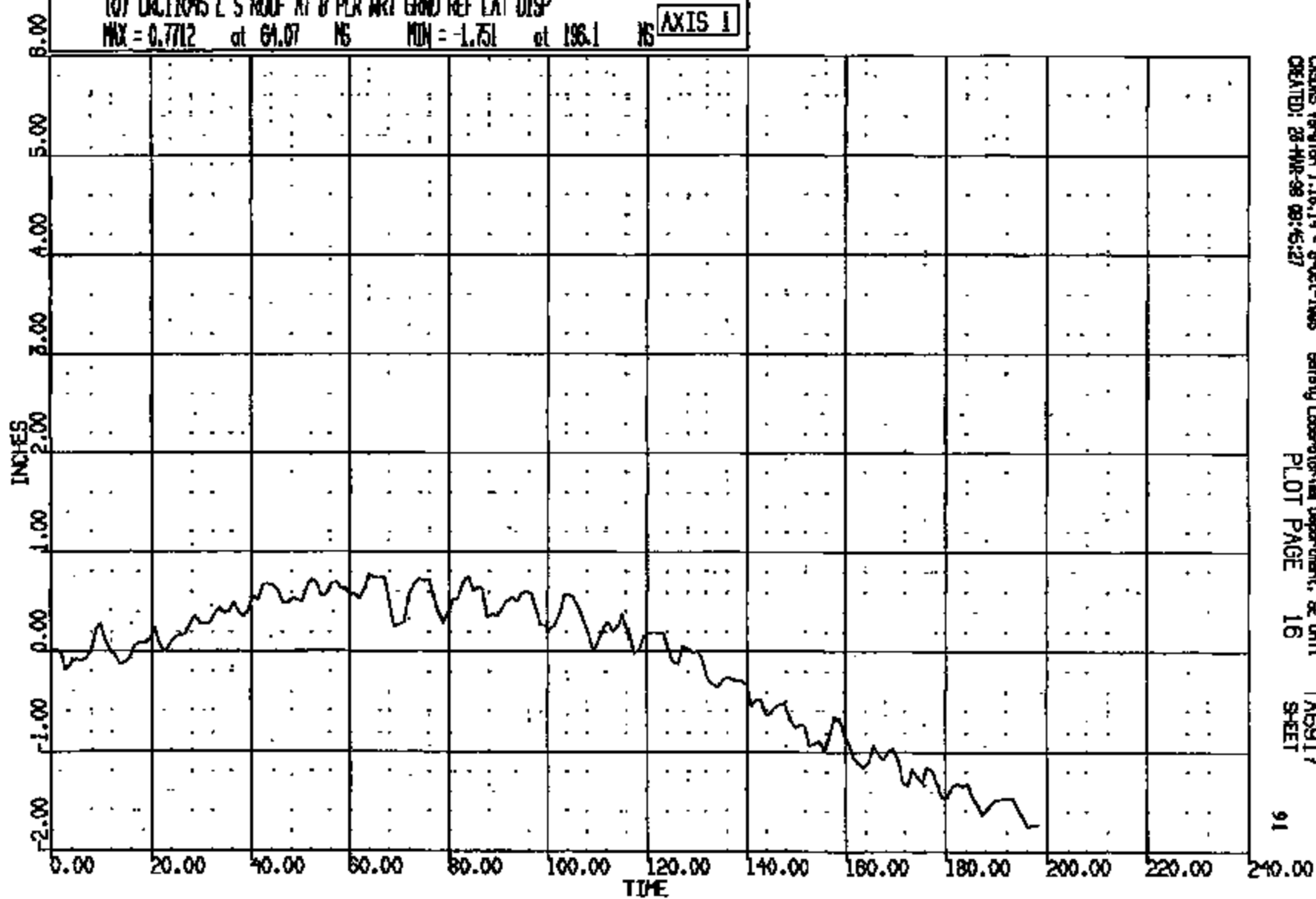
ENTIRE PAGE CONFIDENTIAL

CR N = 11045 TO: TAG917 DATE: 980818 10:12:50
1999 FN-145 1999 FN-145

(0) CR11045 L S ROOF AT B PLR WRT GRND REF LAT DISP

MAX = 0.7712 at 61.07 NS MIN = -1.751 at 196.1 NS

AXIS 1



CASINS Version 1.16.14 - 8-Oct-1998
CREATED: 28-MAR-98 08:45:27

Safety Laboratory Department, SE Unit
PLOT PAGE 16

TAG917
SHEET

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CRIS 0011045

ASC TO #: T- T66917

DIMENSIONAL ANALYSIS REPORT

CRASH #: 11045

VEHICLE INFORMATION

TEST DESCRIPTION: 90 DEG. RIGHT SIDE FIRED POLE
VEHICLE PROGRAM YEAR: 1999
VEHICLE MODEL NAME: FN-143
VEHICLE PROGRAM NAME: FN-143
VEHICLE ID NUMBER: 578T617
CERTIFICATION VEHICLE CODE: DV
REQUESTOR NAME: D. R. FUNDY
TEST ENGINEER NAME: E. ODA

TIME AND DATE OF REPORT: 2-JUN-98 08:28:14

CRTS 0011045

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T-46917

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ASC TO #: T- TMS917

DIMENSIONAL ANALYSIS REPORT

CRASH #: 11045

** POINT COORDINATES **

UNIT NO	SIDE	PNT NO	DESCRIPTION		INCHES			INCHES TRANSFORMED			
					LONG X	LAT Y	VERT Z	X	Y	Z	D
070			SEE COMMENT SHEET								
		75	FUCK "2" HEIGHT FOR DIMENSIONAL REF. ONLY	REF AFT			-4.71				
071			MISCELLANEOUS / SIDED								
	L	07	CONTROL NOTCH/HOLE C/L SET DR/SIDE MEAS./PASS.	REF AFT	124.49	-30.58	14.81				
	R	07	CONTROL NOTCH/HOLE C/L SET DR/SIDE MEAS./PASS.	REF AFT	124.49	-30.50	14.81				
074			CHM POSITIONING REF.								
		41	CHM FRONT DOOR A PILLAR SROOF @SIDE OF IMPACT	REF AFT	112.15	25.72	57.62				
		42	CHM FRONT DOOR A PILLAR SHELT @SIDE OF IMPACT	REF AFT	92.59	32.39	42.71				
		43	CHM FRONT DOOR A PILLAR SROCKER @SIDE OF IMPACT	REF AFT	94.82	33.27	19.77				
		44	CHM FRONT DOOR ROCKER @S PILLAR @SIDE OF IMP.	REF AFT	125.75	33.35	19.83				
411			TOP (BODY) NEW SIDED								
		01	EXTRA SET UP POINT (LEFT FOREMOST FRAME)	REF AFT	41.41	-22.96	21.72				
		02	EXTRA SET UP POINT (RIGHT FOREMOST FRAME)	REF AFT	37.62	12.83	22.53				
		03	EXTRA SET UP POINT (LEFT REARMOST FRAME)	REF AFT	225.95	-25.31	21.32				

* VALUE WAS TRANSLATED

TIME AND DATE OF REPORT: 7-JUN-98 08:28:15

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Q-A6917

ASC TO #: T- TAG917

DIMENSIONAL ANALYSIS REPORT

CRASH #: 11045

INT NO	SIDE	PNT NO	DESCRIPTION	** POINT COORDINATES **			INCHES CHANGED			
				LONG X	LAT Y	VERT Z	X	Y	Z	D
		04	EXTRA HRT UP POINT (RIGHT REARMOST FRAME)	BEF AFT	226.02	24.95	21.43			
		26	"H" POINT LOCATION ON OUTER HRT/OCCUPANT DOOR	BEF AFT	120.94	39.22	28.00			
		38	TOP OF ROCKER SILL IN LINE W/FRONT "H" PT.	BEF AFT	120.94	33.45	19.14			
		57	FRONT OCCUPANT SEAT C/L (WIDTH)	BEF AFT		15.70				
		84	"W.R.T." ON ROCKER SIDE OPPOSITE OF IMPACT	BEF AFT	123.54	-32.19	19.37			
412			TOP (BODY) SIDED POINTS							
L	09	END OF FRONT SPINDLE @ CENTERLINE (WHEELBASE)	BEF AFT	63.55 63.27	-33.21 -30.97	16.78 18.31	-0.28	2.24	1.53	2.73
R	09	END OF FRONT SPINDLE @ CENTERLINE (WHEELBASE)	BEF AFT	63.32 67.38	33.19 34.79	16.66 16.44	4.06	1.50	-0.22	4.37
L	16	LATCH/STRIKER BOLT @C/L OR U-BOLATOP @B PILLAR	BEF AFT	128.87 128.83	-33.32 -33.67	31.64 31.56	-0.04	-0.15	-0.08	0.17
R	16	LATCH/STRIKER BOLT @C/L OR U-BOLATOP @B PILLAR	BEF AFT	128.87	33.41	31.79				
L	89	END OF REAR SPINDLE @ CENTERLINE (WHEELBASE)	BEF AFT	180.41 180.43	-32.12 -32.65	14.09 15.43	0.02	-0.53	1.34	1.44
R	89	END OF REAR SPINDLE @ CENTERLINE (WHEELBASE)	BEF AFT	180.59 180.91	31.92 30.79	14.58 13.56	0.32	-1.19	-1.02	1.56
650			BLANK UNIT POINTS							
	01	1	SEE COMMENTS PAGE	BEF AFT	99.74	-30.46	15.20			

* VALUE WAS TRANSLATED

TIME AND DATE OF REPORT: 2-JUN-98 09:28:17

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RSC TO #: T- 2A6917

DIMENSIONAL ANALYSIS REPORT

CRASH #: 11045

** POINT COORDINATES **

UNIT NO	SIDE	PNT NO	DESCRIPTION		INCHES			INCHES CHANGED			
					LONG X	LAT Y	VERT Z	X	Y	Z	D
		02	2	SEE COMMENTS PAGE	REF AFT	147.14	-30.38	15.00			
		03	3	SEE COMMENTS PAGE	REF AFT	66.92	-33.00	42.47			
		04	4	SEE COMMENTS PAGE	REF AFT	193.13	-33.00	44.99			

* VALUE WAS TRANSLATED

TIME AND DATE OF REPORT: 2-JUN-98 08:28:17

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ABC TO G. T- TA6917

DIMENSIONAL ANALYSIS REPORT

CRASH #: 11045

** SECTIONALS **

UNIT NO	SCEN NO	SIDE	SEQ NO	BEFORE AND CRASH STATUS
------------	------------	------	-----------	-------------------------

X	Y	Z
---	---	---

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MIDLINE EXTERIOR SECT

1	BEFORE	64.69	33.81	41.66
1	AFTER	71.64	35.45	40.82
2	BEFORE	69.24	34.61	41.29
2	AFTER	79.32	36.48	39.84
3	BEFORE	79.80	35.28	41.40
3	AFTER	94.13	36.14	39.68
4	BEFORE	85.79	35.91	41.39
4	AFTER	95.33	36.63	39.47
5	BEFORE	98.07	36.16	41.35
5	AFTER	103.49	34.21	39.68
6	BEFORE	110.48	36.58	41.37
6	AFTER	119.42	24.22	39.97
7	BEFORE	122.36	36.90	41.39
7	AFTER	125.98	19.55	39.62
8	BEFORE	132.32	36.98	41.33
8	AFTER	130.64	20.12	39.47
9	BEFORE	139.72	36.97	41.43
9	AFTER	133.10	21.52	39.31
10	BEFORE	154.57	37.00	41.37
10	AFTER	139.79	21.75	39.57
11	BEFORE	172.69	36.32	41.36
11	AFTER	144.23	25.56	40.11
12	BEFORE	182.66	36.06	41.39
12	AFTER	154.70	29.19	40.49

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MIDLINE EXTERIOR SECT

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ABC TO #: T- TAE917

DIMENSIONAL ANALYSIS REPORT

CRASH #: 11045

** SECTIONS **

UNIT NO	SCEN NO	SIDE	SEQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			1	BEFORE	78.32	37.75	31.46
			1	AFTER	80.41	38.83	29.41
			2	BEFORE	80.95	37.91	31.55
			2	AFTER	87.18	38.55	29.46
			3	BEFORE	87.15	38.15	31.58
			3	AFTER	92.36	38.38	29.47
			4	BEFORE	93.71	38.36	31.53
			4	AFTER	94.23	38.49	29.13
			5	BEFORE	106.12	38.71	31.49
			5	AFTER	103.20	34.49	29.21
			6	BEFORE	117.73	38.92	31.47
			6	AFTER	111.31	30.66	29.33
			7	BEFORE	130.25	39.03	31.42
			7	AFTER	118.06	26.07	29.38
			8	BEFORE	134.33	39.02	31.49
			8	AFTER	124.21	20.84	29.36
			9	BEFORE	146.51	39.00	31.52
			9	AFTER	126.42	19.76	29.39
			10	BEFORE	161.33	38.76	31.91
			10	AFTER	138.18	19.57	29.45
			11	BEFORE	167.35	38.69	31.54
			11	AFTER	132.11	21.58	29.58
			12	BEFORE	170.54	38.73	31.59
			12	AFTER	132.85	22.01	29.71

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CHARACTER LINE EXT SECT

1	BEFORE	79.45	37.18	23.58
1	AFTER	84.30	37.77	21.50

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ASC TO S: T- TA6917

DIMENSIONAL ANALYSIS REPORT

CRASH #: 11045

** SECTIONALS **

UNIT NO	SCIN NO	SIDE	SSQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			2	BEFORE	87.09	37.41	23.50
			2	AFTER	88.96	37.59	21.46
			3	BEFORE	89.16	37.71	23.51
			3	AFTER	92.48	37.43	21.49
			4	BEFORE	101.08	38.01	23.51
			4	AFTER	94.22	37.15	21.25
			5	BEFORE	113.37	38.21	23.45
			5	AFTER	111.11	30.86	21.27
			6	BEFORE	125.81	38.27	23.57
			6	AFTER	120.74	24.76	21.41
			7	BEFORE	131.03	38.24	23.53
			7	AFTER	125.36	21.49	21.33
			8	BEFORE	131.69	38.11	23.52
			8	AFTER	128.59	20.77	21.61
			9	BEFORE	134.91	38.19	23.57
			9	AFTER	130.99	21.09	21.95
			10	BEFORE	143.56	38.19	23.52
			10	AFTER	132.84	21.51	22.12
			11	BEFORE	153.13	38.08	23.60
			11	AFTER	132.54	22.81	21.78
			12	BEFORE	162.95	37.98	23.77
			12	AFTER	138.54	25.47	21.94
			13	BEFORE	163.32	37.84	23.66
			13	AFTER	143.44	27.22	22.04
			14	BEFORE	165.45	37.76	23.70
			14	AFTER	151.72	30.03	22.40

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BOTTOM OF DOOR EXT SECT

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TA6917

ASC TO 4: T- TA4917

DIMENSIONAL ANALYSIS REPORT

CRASH #: 11045

** SECTIONALS **

INT NO	SECTN NO	SIDE	SNO NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			1	BEFORE	89.10	36.16	16.18
			2	AFTER	94.48	33.80	14.20
			2	BEFORE	131.73	36.34	16.19
			2	AFTER	110.25	28.71	13.79
			3	BEFORE	132.32	36.17	16.15
			3	AFTER	122.36	24.37	13.37
			4	BEFORE	162.46	36.10	16.52
			4	AFTER	128.04	21.86	13.79
431	81			ROCKWELL PANEL EXT SECT			
			1	BEFORE	94.76	34.19	16.90
			1	AFTER	94.99	30.56	14.64
			2	BEFORE	108.24	34.19	16.90
			2	AFTER	109.40	24.89	13.28
			3	BEFORE	123.72	34.17	16.90
			3	AFTER	127.43	20.16	13.68
			4	BEFORE	133.26	34.14	16.90
			4	AFTER	134.26	18.25	12.93
			5	BEFORE	139.46	34.08	16.90
			5	AFTER	156.47	27.37	15.68
			6	BEFORE	152.54	34.00	16.90
			6	AFTER	161.91	28.46	16.15
			7	BEFORE	161.93	33.94	16.92
			7	AFTER	0.00	0.00	0.00
433	81			ROOF LINE INTERIOR SECT			
			1	BEFORE	98.78	29.82	47.43
			1	AFTER	100.12	28.63	45.38

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DIMENSIONAL ANALYSIS REPORT

CRASH #: 11045

** SECTIONALS **

UNIT NO	SECT NO	SIDE	END NO	NAME AND CRASH STATUS	X	Y	INCHES Z
	2		BEFORE		110.24	25.80	55.06
	2		AFTER		107.69	25.55	51.49
	3		BEFORE		110.66	23.40	58.13
	3		AFTER		115.04	23.41	55.77
	4		BEFORE		127.69	22.37	59.34
	4		AFTER		123.02	17.35	59.54
	5		BEFORE		137.13	22.72	58.88
	5		AFTER		126.33	15.74	59.32

435 S1

BELT LINE INTERIOR SECT

1	BEFORE	98.48	32.41	42.80
1	AFTER	102.87	30.84	41.38
2	BEFORE	107.41	32.42	42.80
2	AFTER	104.48	30.00	40.55
3	BEFORE	123.69	32.54	42.80
3	AFTER	110.42	26.25	40.57
4	BEFORE	128.55	32.68	42.80
4	AFTER	116.73	22.84	41.03
5	BEFORE	131.12	30.67	42.80
5	AFTER	123.25	19.36	41.17
6	BEFORE	135.53	30.95	42.80
6	AFTER	128.11	17.31	41.06

437 S1

HIP INTERIOR SECTION

1	BEFORE	95.62	32.22	27.90
1	AFTER	101.32	30.29	26.57
2	BEFORE	107.69	32.36	27.90
2	AFTER	110.62	26.43	25.85

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DIMENSIONAL ANALYSIS REPORT

CRASH #: 11045

** SECTIONALS **

UNIT NO	SCIN NO	SIDE	SEQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			1	BEFORE	115.17	32.12	27.90
			3	AFTER	117.01	22.33	25.90
			4	BEFORE	126.85	31.25	27.90
			4	AFTER	125.01	18.52	25.81
			5	BEFORE	128.84	30.76	27.90
			5	AFTER	128.29	17.21	26.11
			6	BEFORE	134.82	30.62	27.90
			6	AFTER	130.89	16.06	25.82

438 81

1ST 50 FWD/HINGH PLANE

1	BEFORE	90.53	36.11	16.15
1	AFTER	95.42	33.53	13.96
2	BEFORE	90.50	36.75	16.81
2	AFTER	95.86	34.83	15.36
3	BEFORE	90.51	37.26	18.43
3	AFTER	96.48	36.02	20.32
4	BEFORE	90.84	37.51	21.38
4	AFTER	96.72	36.92	23.76
5	BEFORE	90.56	38.06	25.11
5	AFTER	96.82	37.23	25.62
6	BEFORE	90.60	38.37	27.96
6	AFTER	96.87	37.03	27.45
7	BEFORE	90.57	38.16	29.75
7	AFTER	96.82	37.36	34.54
8	BEFORE	90.56	38.02	35.24
8	AFTER	96.44	36.40	39.29
9	BEFORE	90.51	36.65	39.83
9	AFTER	96.03	35.08	41.87

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DIMENSIONAL ANALYSIS REPORT

CRASH #: 11045

** SECTIONALS **

INT NO	SCIN NO	SIDE	SEQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			10	BEFORE	90.55	35.64	41.79
			10	AFTER	95.41	34.20	42.47
			11	BEFORE	90.55	35.32	42.34
			11	AFTER	95.37	33.58	43.12
			12	BEFORE	90.53	34.33	43.78
			12	AFTER	95.27	32.89	43.65
			13	BEFORE	90.57	33.79	44.55
			13	AFTER	0.00	0.00	0.00
			14	BEFORE	90.49	33.02	45.26
			14	AFTER	0.00	0.00	0.00
			15	BEFORE	90.54	32.64	45.51
			15	AFTER	0.00	0.00	0.00

439 SI

SECT # 2500 BODY LINE

1	BEFORE	98.45	36.93	16.13
1	AFTER	103.07	31.31	13.98
2	BEFORE	98.43	36.43	16.30
2	AFTER	103.54	32.82	16.22
3	BEFORE	98.50	37.13	17.23
3	AFTER	103.84	33.50	21.41
4	BEFORE	98.40	37.43	18.78
4	AFTER	104.02	34.17	25.71
5	BEFORE	98.41	37.57	19.58
5	AFTER	103.98	34.00	27.56
6	BEFORE	98.44	37.73	21.49
6	AFTER	104.10	34.17	33.44
7	BEFORE	98.44	38.02	23.38
7	AFTER	104.02	34.08	37.59

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CRASH #: 11045

** SECTIONALS **

TEST NO	SECT NO	SIDE	SEQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			8	BEFORE	98.45	38.57	28.11
			8	AFTER	103.84	33.97	40.59
			9	BEFORE	98.40	38.40	29.74
			9	AFTER	103.66	33.73	41.58
			10	BEFORE	98.37	38.51	32.63
			10	AFTER	103.61	33.49	41.82
			11	BEFORE	98.45	38.11	36.34
			11	AFTER	0.00	0.00	0.00
			12	BEFORE	98.42	37.13	39.46
			12	AFTER	0.00	0.00	0.00
			13	BEFORE	98.42	36.08	41.53
			13	AFTER	0.00	0.00	0.00
			14	BEFORE	98.40	34.83	43.47
			14	AFTER	0.00	0.00	0.00

439 82

SECT @ 2500 BODY LINE

1	BEFORE	98.44	31.67	21.83
1	AFTER	100.82	29.24	22.51
2	BEFORE	98.44	32.17	26.31
2	AFTER	101.01	30.22	26.78
3	BEFORE	98.44	32.45	33.89
3	AFTER	101.55	30.64	30.65
4	BEFORE	98.44	32.30	41.50
4	AFTER	102.83	31.01	41.51

440 81

VERT SECT. 20° FWD I/CL

1	BEFORE	121.68	36.19	16.20
1	AFTER	124.84	23.41	14.08

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** SECTIONS **

INT NO	SCEN NO	SIDE	SEQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			2	BEFORE	121.66	36.72	16.49
			2	AFTER	124.52	23.15	14.48
			3	BEFORE	121.70	37.27	17.12
			3	AFTER	124.28	22.64	18.79
			4	BEFORE	121.63	37.66	18.06
			4	AFTER	123.97	22.20	21.97
			5	BEFORE	121.63	37.85	19.23
			5	AFTER	123.71	21.93	25.18
			6	BEFORE	121.63	38.01	20.40
			6	AFTER	123.72	21.84	26.20
			7	BEFORE	121.57	38.19	22.75
			7	AFTER	123.53	21.42	27.92
			8	BEFORE	121.65	38.66	25.47
			8	AFTER	123.56	21.40	30.11
			9	BEFORE	121.63	38.93	27.11
			9	AFTER	123.54	21.51	32.04
			10	BEFORE	121.61	39.04	28.38
			10	AFTER	123.59	21.51	33.92
			11	BEFORE	121.66	38.89	29.91
			11	AFTER	123.48	21.92	34.71
			12	BEFORE	121.64	39.03	32.64
			12	AFTER	123.30	21.09	36.47
			13	BEFORE	121.66	38.77	35.70
			13	AFTER	123.17	21.20	39.00
			14	BEFORE	121.60	28.36	37.66
			14	AFTER	123.25	21.34	41.59
			15	BEFORE	121.66	38.16	38.37
			15	AFTER	123.34	21.47	42.95

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DIMENSIONAL ANALYSIS REPORT

CRASH #: 11045

** SECTIONALS **

INT NO	SCIN NO	SIDE	SEQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			16	BEFORE	121.73	37.20	40.70
			16	AFTER	123.69	19.77	59.96
			17	BEFORE	121.69	36.28	42.37
			17	AFTER	123.57	19.79	62.13
			18	BEFORE	121.64	35.00	44.12
			18	AFTER	123.75	18.99	61.99
			19	BEFORE	121.63	25.17	60.42
			19	AFTER	123.78	18.97	62.44
			20	BEFORE	121.57	24.16	61.34
			20	AFTER	123.86	19.04	63.01
			21	BEFORE	121.64	23.29	61.78
			21	AFTER	0.00	0.00	0.00
			22	BEFORE	121.64	22.59	61.88
			22	AFTER	0.00	0.00	0.00
			23	BEFORE	121.64	21.44	62.13
			23	AFTER	0.00	0.00	0.00

440 B2

VERT SECT. 20" FWD I/CL

	1	BEFORE	121.76	31.50	21.92
	1	AFTER	123.44	19.96	19.78
	2	BEFORE	121.76	32.09	38.62
	2	AFTER	122.83	19.72	22.57
	3	BEFORE	121.65	31.97	40.78
	3	AFTER	123.40	19.12	36.73
	4	BEFORE	121.65	32.24	43.00
	4	AFTER	123.03	19.12	39.15

441 B1

VERT SECT. @ IMPACT C/L

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** SECTIONALS **

TEST NO	SCIN NO	SIDE	SEQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			1	BEFORE	129.93	36.31	16.22
			1	AFTER	132.44	21.28	14.05
			2	BEFORE	129.94	36.78	16.53
			2	AFTER	132.46	22.07	15.35
			3	BEFORE	129.90	37.30	17.23
			3	AFTER	132.32	21.56	18.25
			4	BEFORE	129.90	37.73	18.67
			4	AFTER	131.90	21.31	21.60
			5	BEFORE	129.91	37.86	19.62
			5	AFTER	131.37	21.19	25.81
			6	BEFORE	129.97	37.99	20.65
			6	AFTER	130.94	20.86	28.40
			7	BEFORE	129.99	38.29	23.56
			7	AFTER	130.76	20.60	31.92
			8	BEFORE	129.99	38.76	26.09
			8	AFTER	130.78	20.46	35.13
			9	BEFORE	129.89	39.05	28.48
			9	AFTER	130.87	19.86	35.85
			10	BEFORE	129.86	39.92	30.00
			10	AFTER	130.63	20.14	37.05
			11	BEFORE	129.83	39.07	32.59
			11	AFTER	130.73	20.22	38.87
			12	BEFORE	129.93	39.00	34.03
			12	AFTER	130.85	20.14	40.46
			13	BEFORE	129.90	38.61	36.77
			13	AFTER	130.87	20.22	40.77
			14	BEFORE	129.89	37.87	39.31
			14	AFTER	130.83	20.58	41.45

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** SECTIONALS **

UNIT NO	SCN NO	SIDE	SEQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			15	BEFORE	129.88	35.79	41.68
			15	AFTER	130.92	20.23	42.97
			16	BEFORE	129.94	35.92	43.08
			16	AFTER	131.52	17.62	60.79
			17	BEFORE	129.90	35.17	44.11
			17	AFTER	131.47	17.23	61.76
			18	BEFORE	129.91	34.81	44.48
			18	AFTER	131.40	16.88	62.93
			19	BEFORE	129.83	24.66	61.11
			19	AFTER	0.00	0.00	0.00
			20	BEFORE	129.88	23.77	61.96
			20	AFTER	0.00	0.00	0.00
			21	BEFORE	129.89	22.88	62.49
			21	AFTER	0.00	0.00	0.00
			22	BEFORE	129.86	22.18	63.57
			22	AFTER	0.00	0.00	0.00
			23	BEFORE	129.89	21.08	62.78
			23	AFTER	0.00	0.00	0.00

441 82

VERT SECT. @ IMPACT C/L

	1	BEFORE	129.90	30.76	21.54
	1	AFTER	131.60	17.23	19.19
	2	BEFORE	129.90	30.68	31.33
	2	AFTER	132.03	16.32	28.83
	3	BEFORE	129.90	30.71	37.64
	3	AFTER	131.48	15.67	35.38
	4	BEFORE	130.74	30.79	41.03
	4	AFTER	132.27	15.79	38.74

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DIMENSIONAL ANALYSIS REPORT

CRASH #: 11045

** SECTIONALS **

DWT NO	SCIN NO	SIDE	SEQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			5	BEFORE	131.91	30.07	45.23
			5	AFTER	133.23	15.24	42.78
			6	BEFORE	132.87	28.67	49.23
			6	AFTER	134.53	14.09	46.36
			7	BEFORE	134.18	25.94	53.93
			7	AFTER	135.27	13.79	52.76
			8	BEFORE	135.26	23.78	57.85
			8	AFTER	136.36	13.19	57.59

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** COMMENTS **

ANY AUTOMATICALLY GENERATED COMMENTS APPEAR IN THIS BOX:

THIS VEHICLE IS SET UP TO DESIGN ATTITUDE AND WHILE REPORTED IN ENGLISH UNITS, USES A METRIC PRINT ZERO. SUSPENSION COMPONENTS ARE NOT IN DESIGN POSITION. COORDINATES CAN BE CONVERTED TO DESIGN PRINT VALUES BY USING THE FOLLOWING: asking for a metric print-out or

TO CONVERT TO METRIC DESIGN PRINT VALUES: MULTIPLY BY 25.4.
TO CONVERT TO ENGLISH DESIGN PRINT VALUES: (for most DOMESTIC VEHICLES)
SUBTRACT 78.74 (2000 MM) FROM THE X VALUE AND SUBTRACT 19.69 (500 MM) FROM THE Z VALUE.

*** 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 ***

REMEMBER::: 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) 53" (3) 84" 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

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** COMMENTS **

SCRIBE A LONGITUDINAL C/L ALONG THE ENTIRE EXTERNAL BODY
(USE TAPE OR PAINT ON THE WINDSHIELD & BACKLIGHT)

SCRIBE A LONGITUDINAL C/L IN THE INTERIOR ON THE ROOF, TUNNEL/CONSOLE
AND ON SEATS

MARK A LONGITUDINAL C/L ON THE OCCUPANT FRONT & REAR SEATS

SCRIBE A VERTICAL LINE ON THE LEFT & RIGHT ROOF TARGET 27.00" REARWARD
OF THE FRONT EDGE OF THE MASTER CONTROL SWITCH OR CONTROL BOLT CENTER-
LINE. ALSO, SCRIBE A HORIZONTAL LINE ON THE TARGETS 46.00" ABOVE THE
TOP OF THE MASTER CONTROL SWITCH OR CONTROL BOLT CENTERLINE.

ANY COMMENTS ENTERED BY OPERATORS APPEAR BELOW THIS LINE:

DIRECT MEASUREMENT R/S BILLAR TO R/S FRT SEAT BACK @ E HEIGHT OF 42.68-2.97
35.34-2.02
27.68-2.01

UNIT 650 POINTS AS FOLLOWS:

1. L/F SILL SET UP
2. L/R SILL SET UP
3. L/S FRT ALIGN POINT
4. L/S REAR ALIGN POINT

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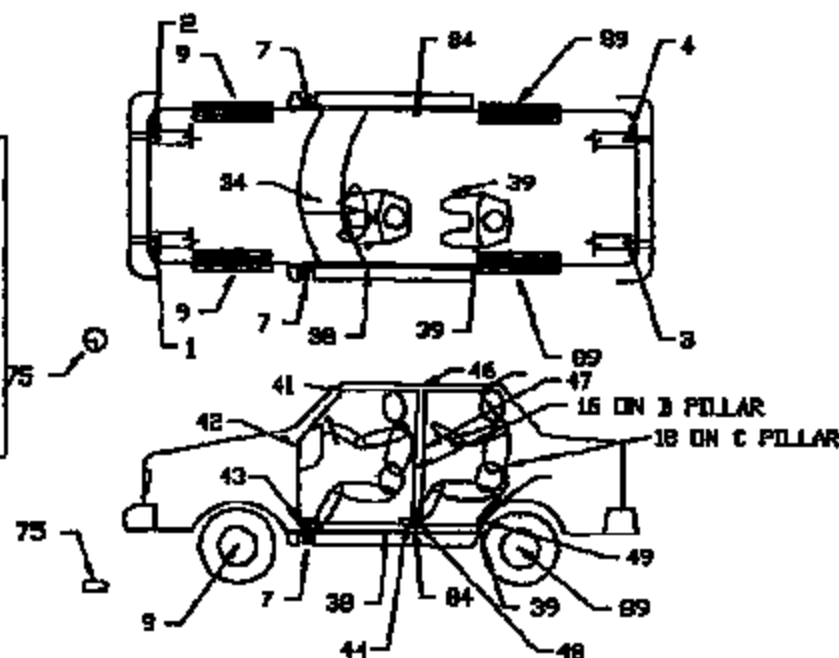
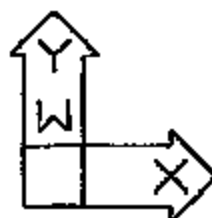
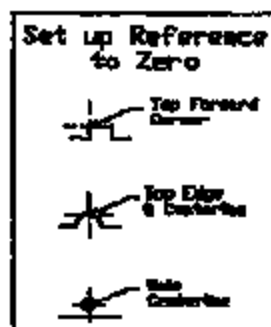
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CONTROL POINTS (SIDE IMPACT CAR) REQUEST 404
 UNIT 70 POINT 75
 UNIT 71 POINTS 7 LEFT & RIGHT
 UNIT 74 POINTS 41-44, 46-49 ON SIDE OF IMPACT
 UNIT 74 POINTS 53, 54 ON SIDE OPPOSITE OF IMPACT
 UNIT 411 POINTS 1-4, 38, 39, 84
 UNIT 412 POINTS 9, 16,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



REQUEST 404 1810: 060 1P/96

UNIT 71

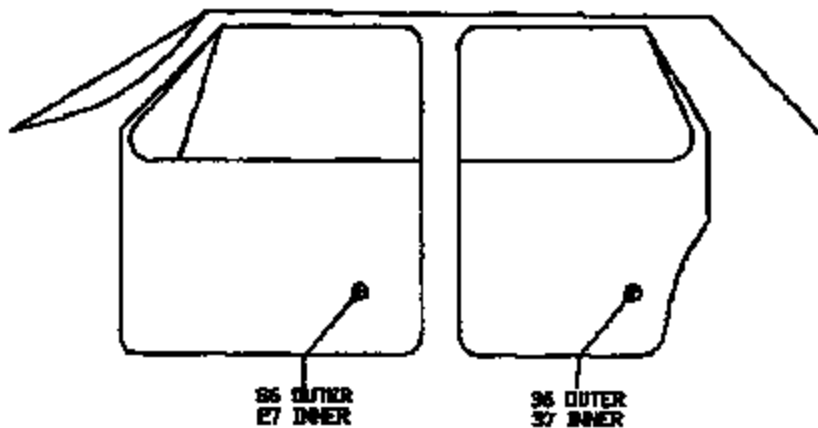
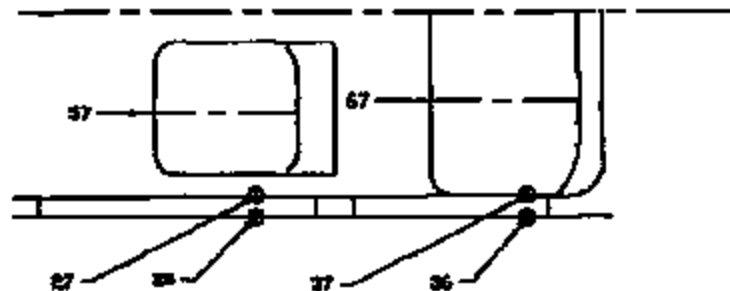
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III

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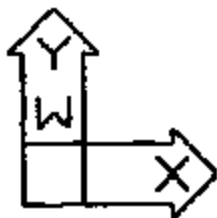
ENTIRE PAGE CONFIDENTIAL

PRE-CRASH LATERAL C/L'S 14 POINTS + REQUEST 417
UNIT 418 POINTS 26,27,36,37,57,67



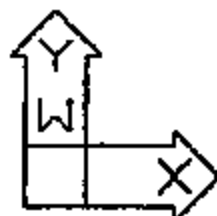
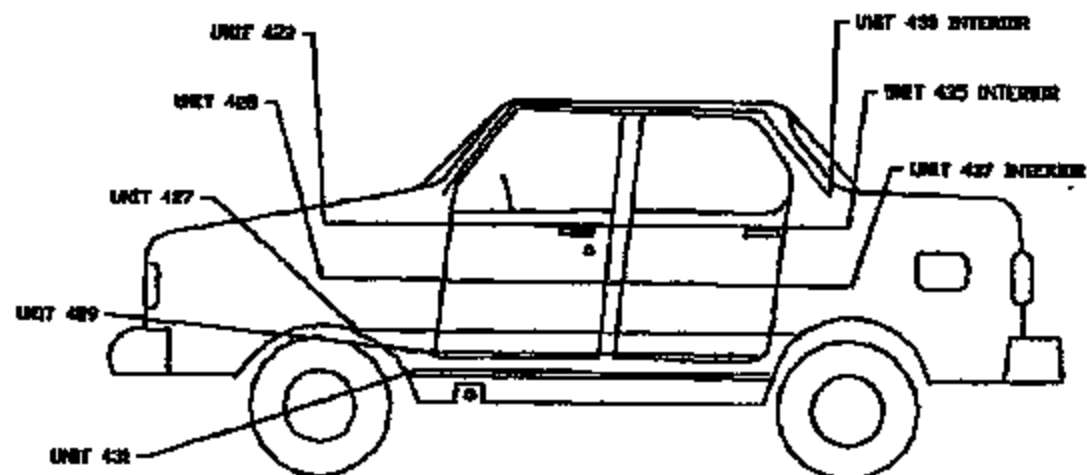
REQUEST 417 UPEC 364 10/96

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EXTERIOR & INTERIOR HORIZ. SECTIONALS SIZE 20" ACT
REQUEST 423,425,427,429,431,433,435,437



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

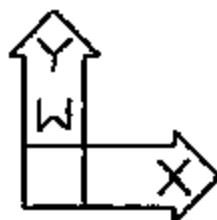
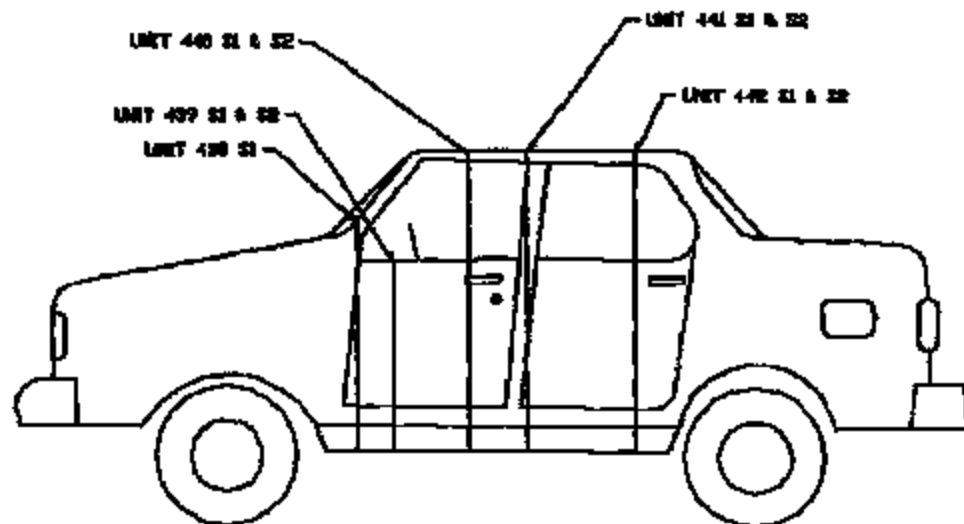
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REQUEST 438 - 442 VERT. SECTIONS STAG IMPACT
 UNITS 438 SI, 439 - 442 SI & SI2
 SI SECTIONS ARE EXTERIOR, SI2 SECTIONS ARE INTERIOR

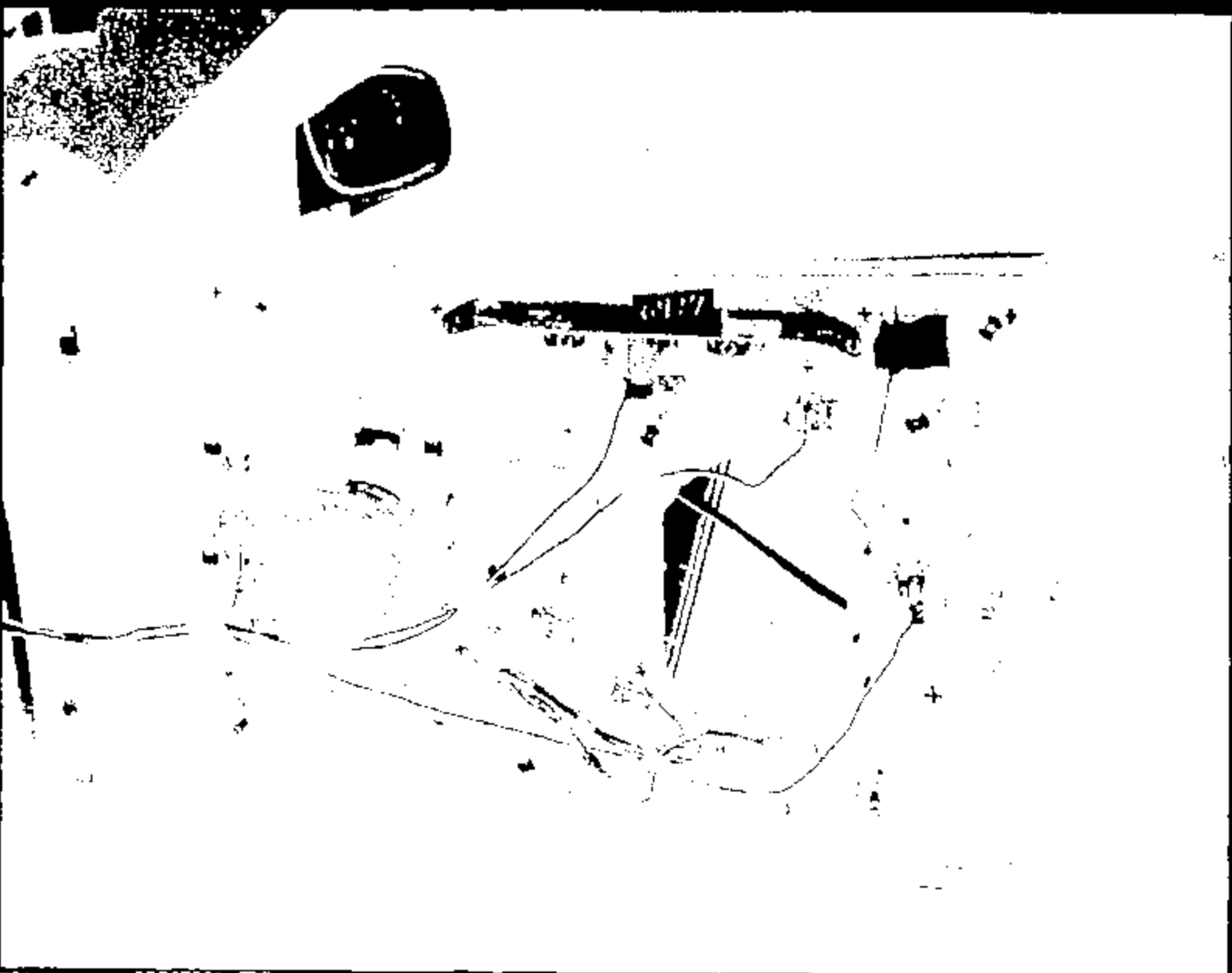


REQUEST 438 - 442 VERT. 979 10/96

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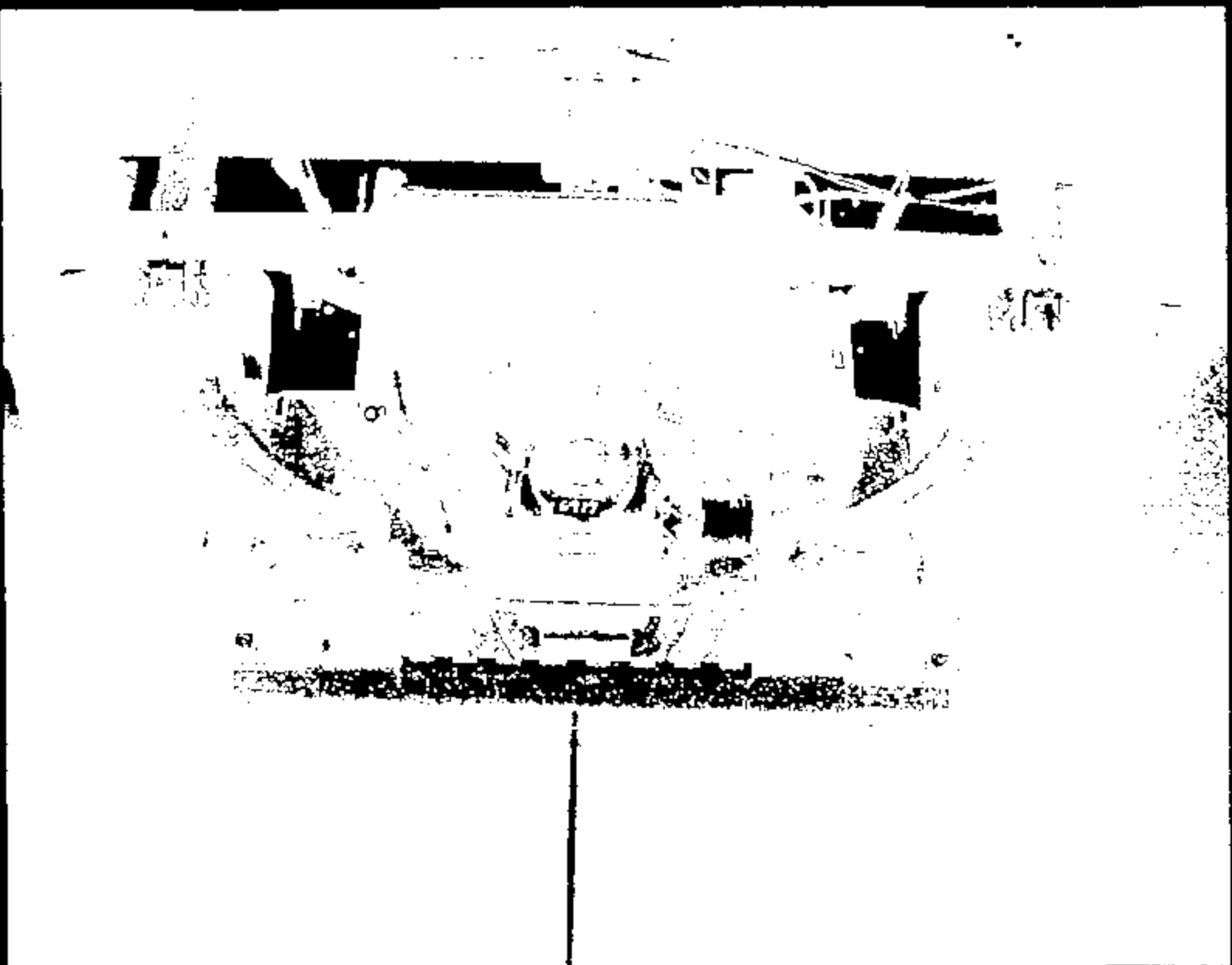
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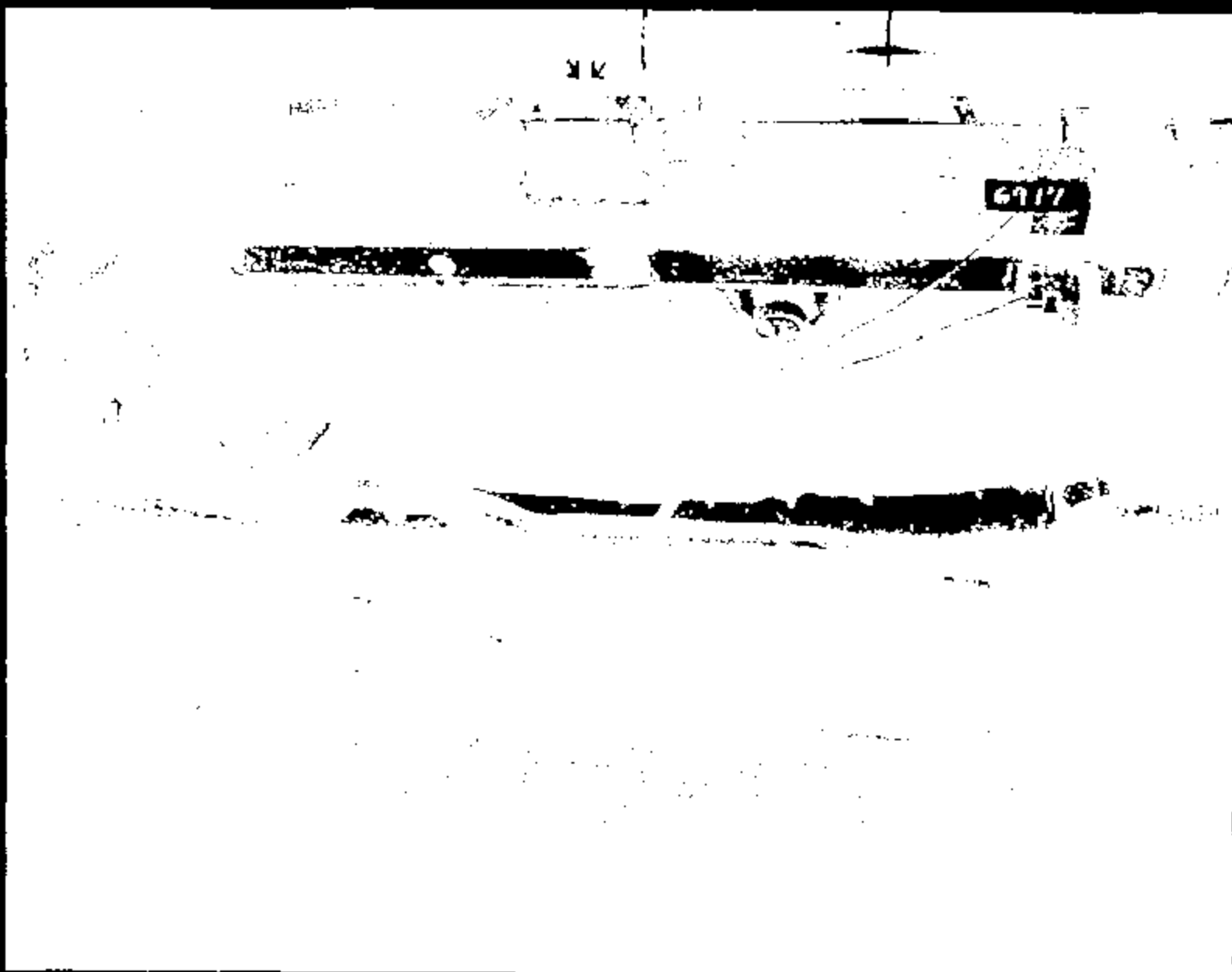


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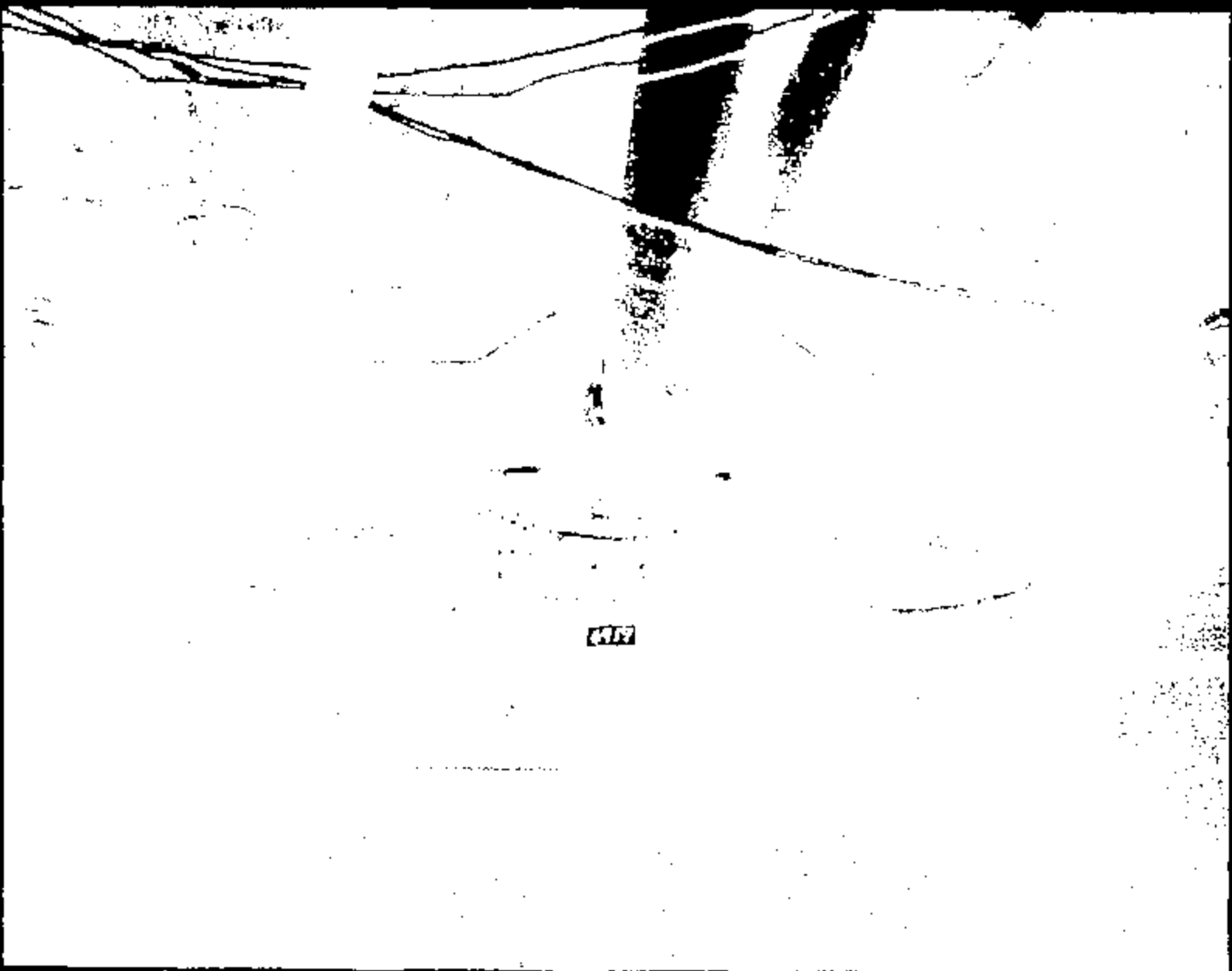
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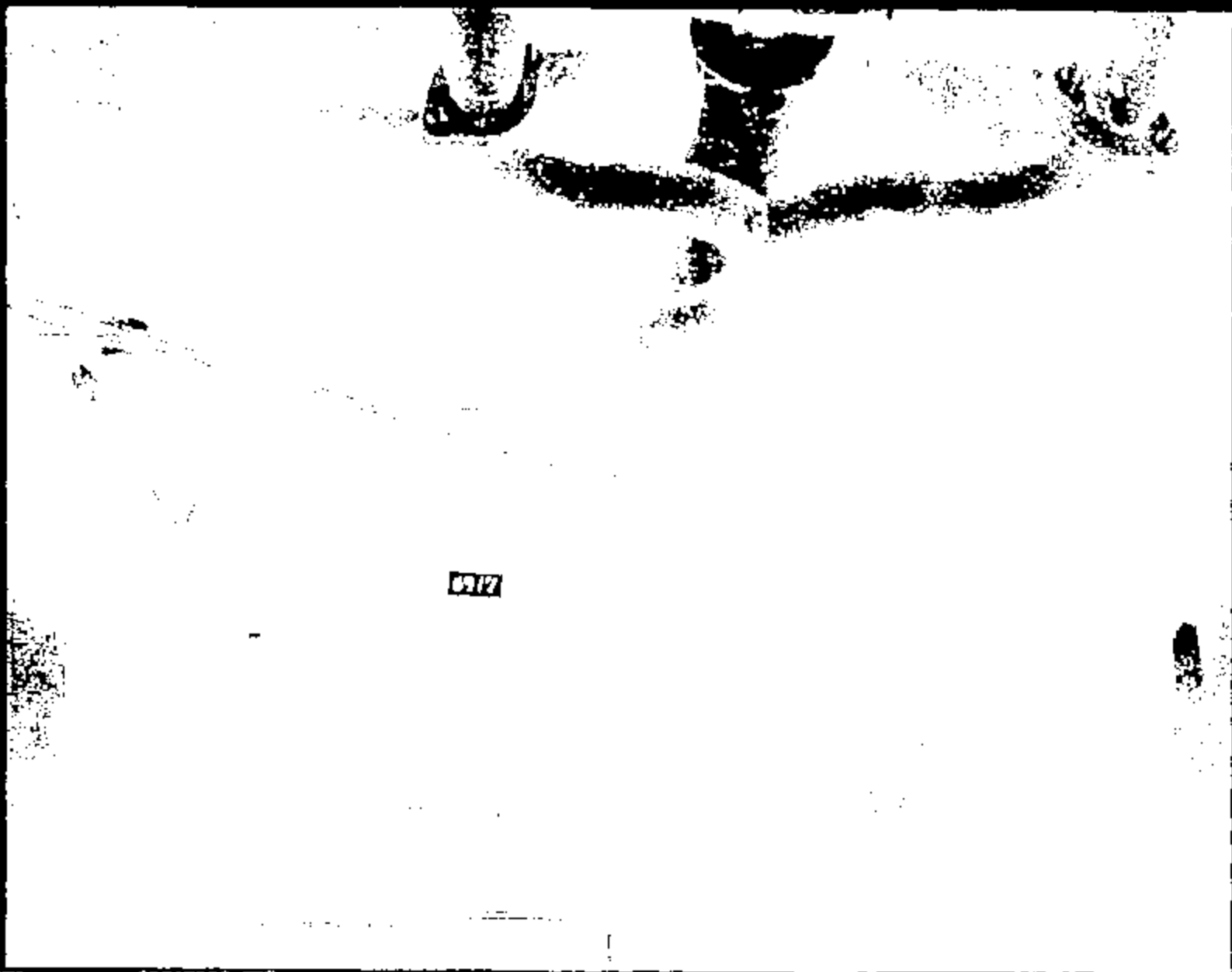
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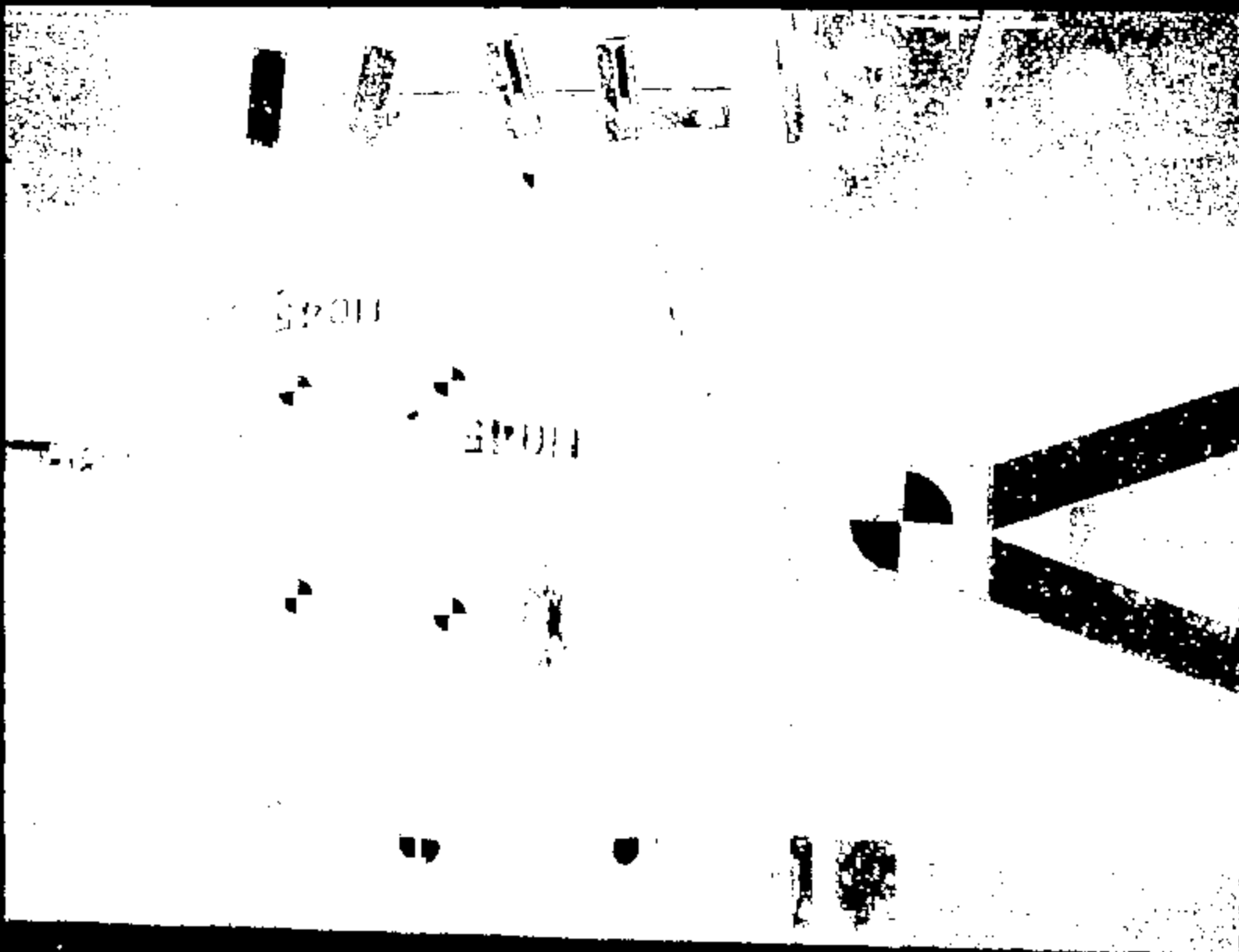


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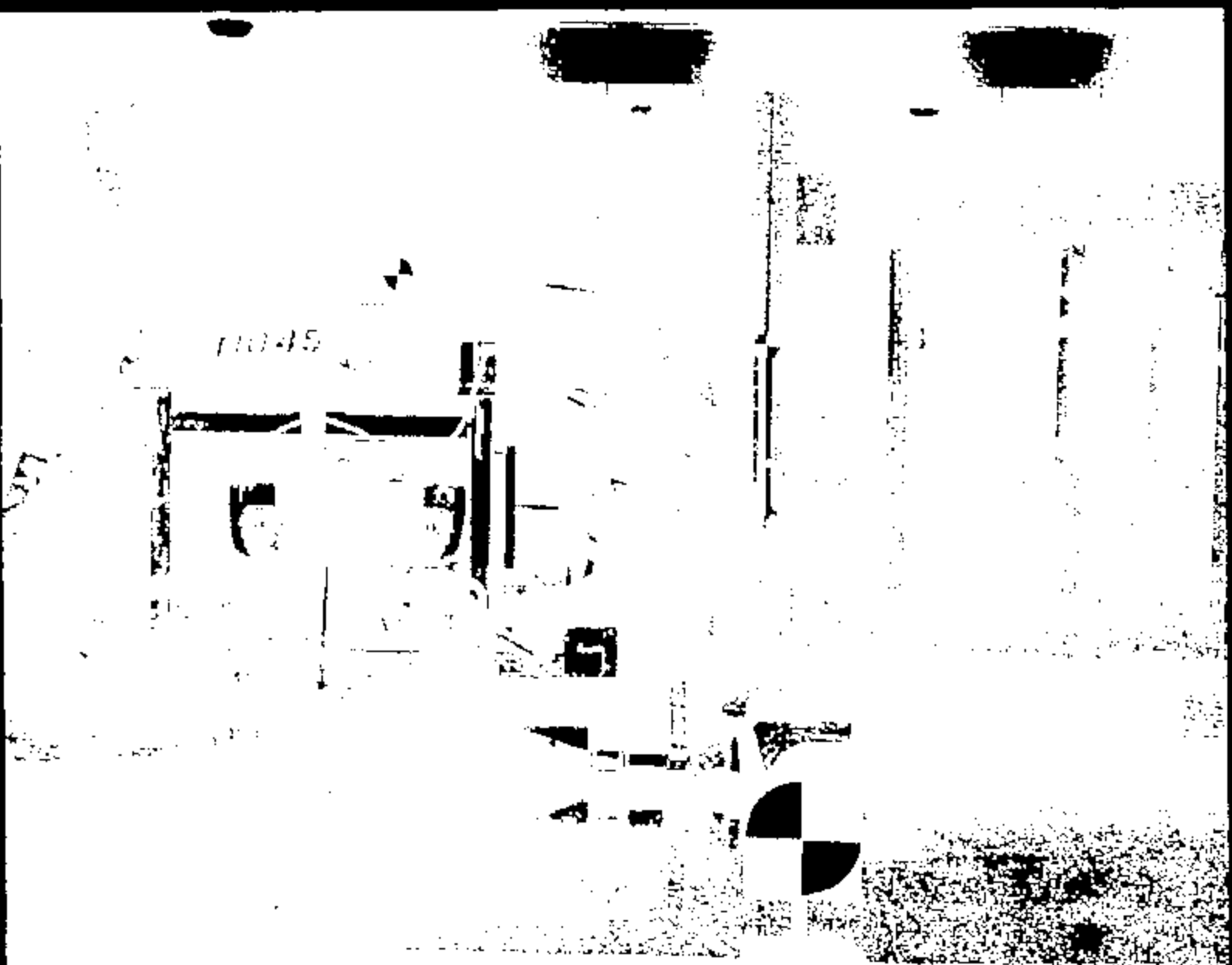


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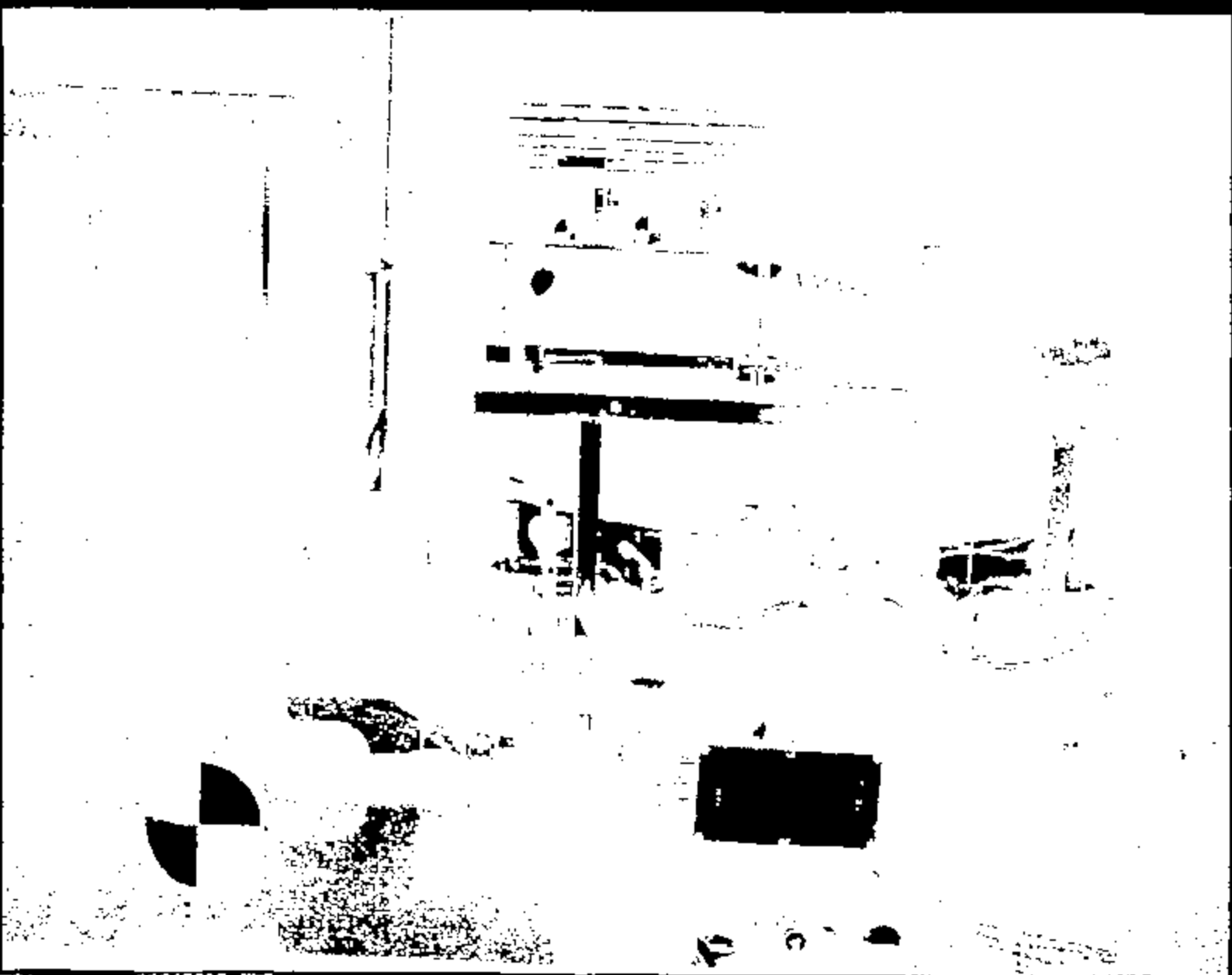


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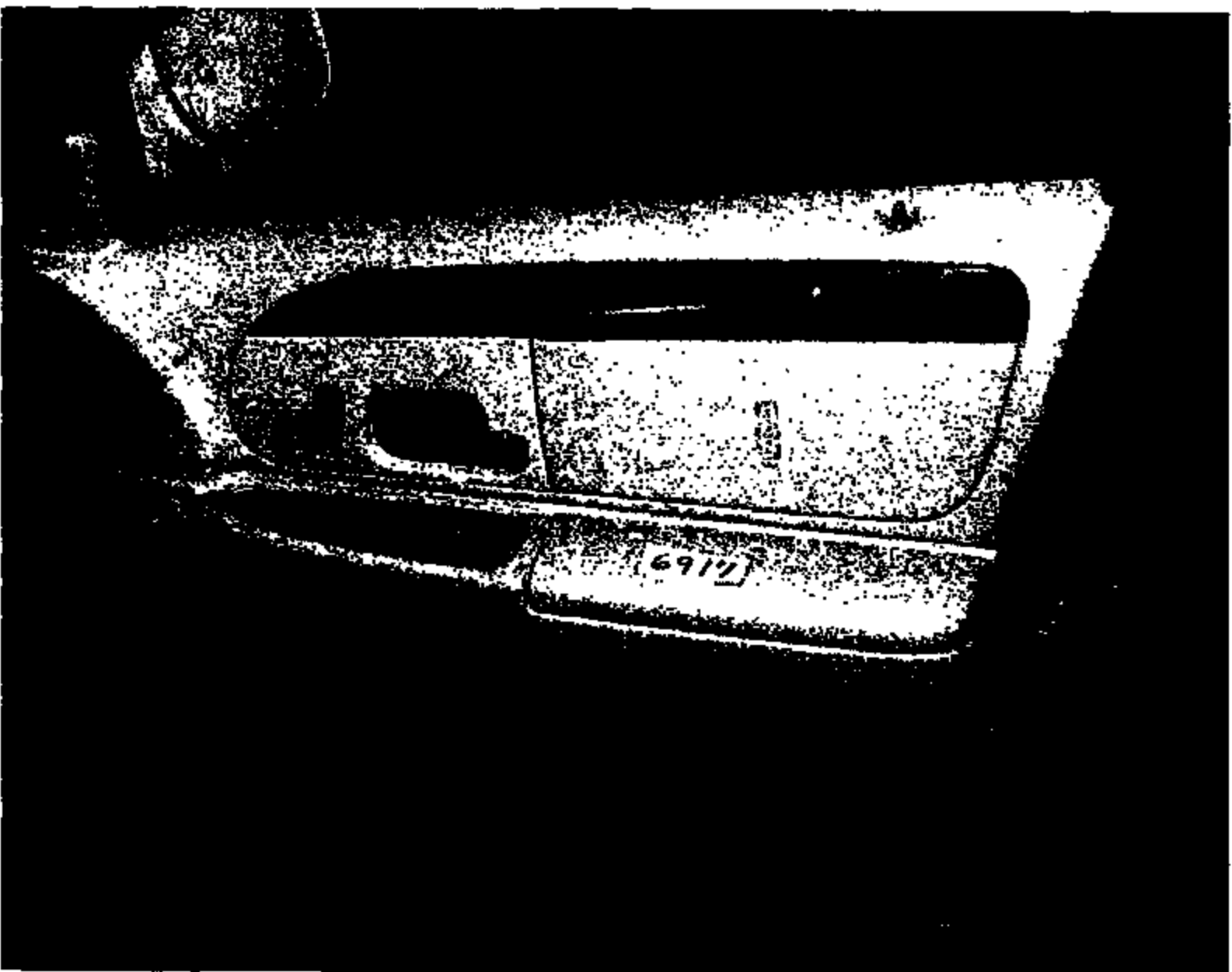
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Wayne

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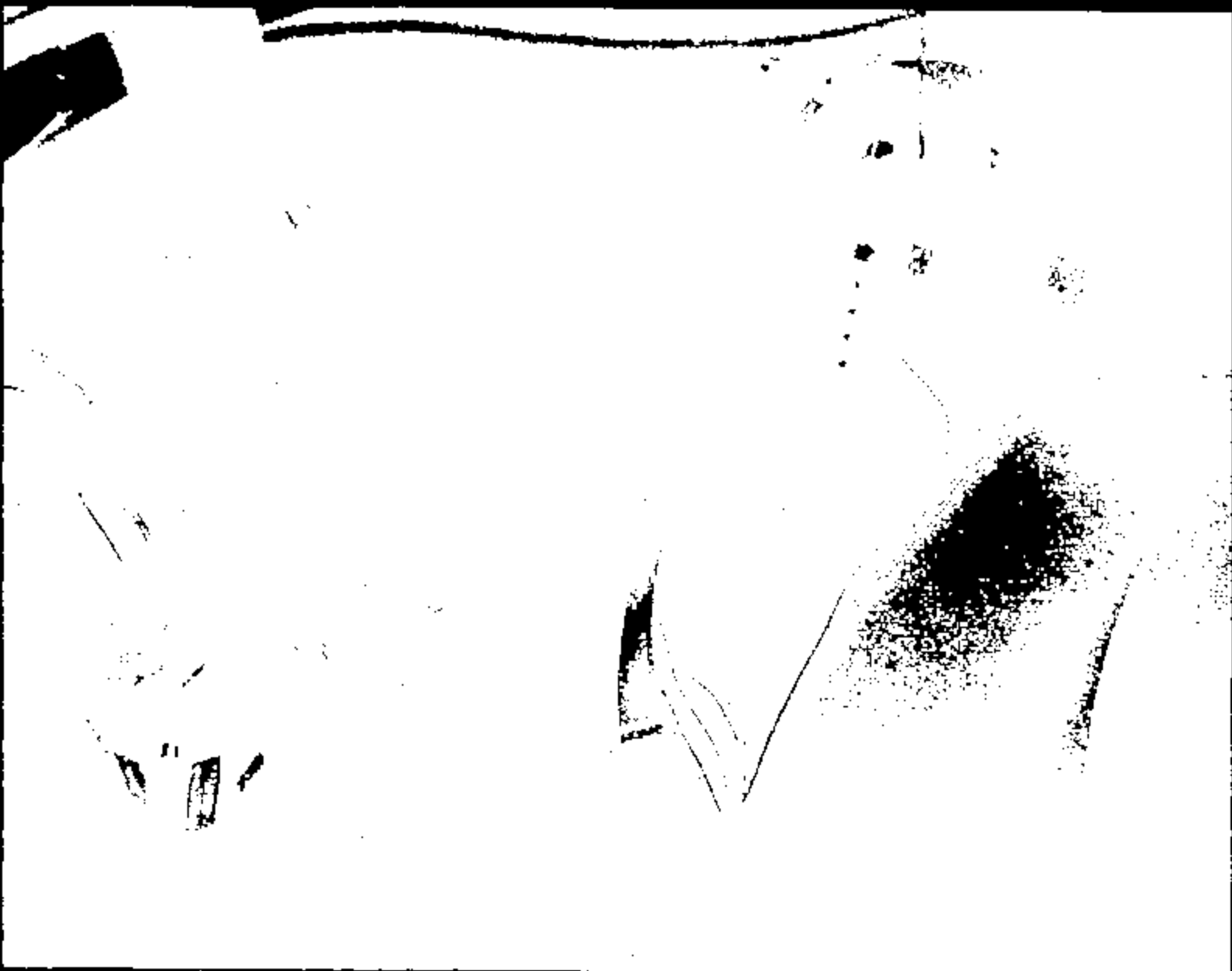
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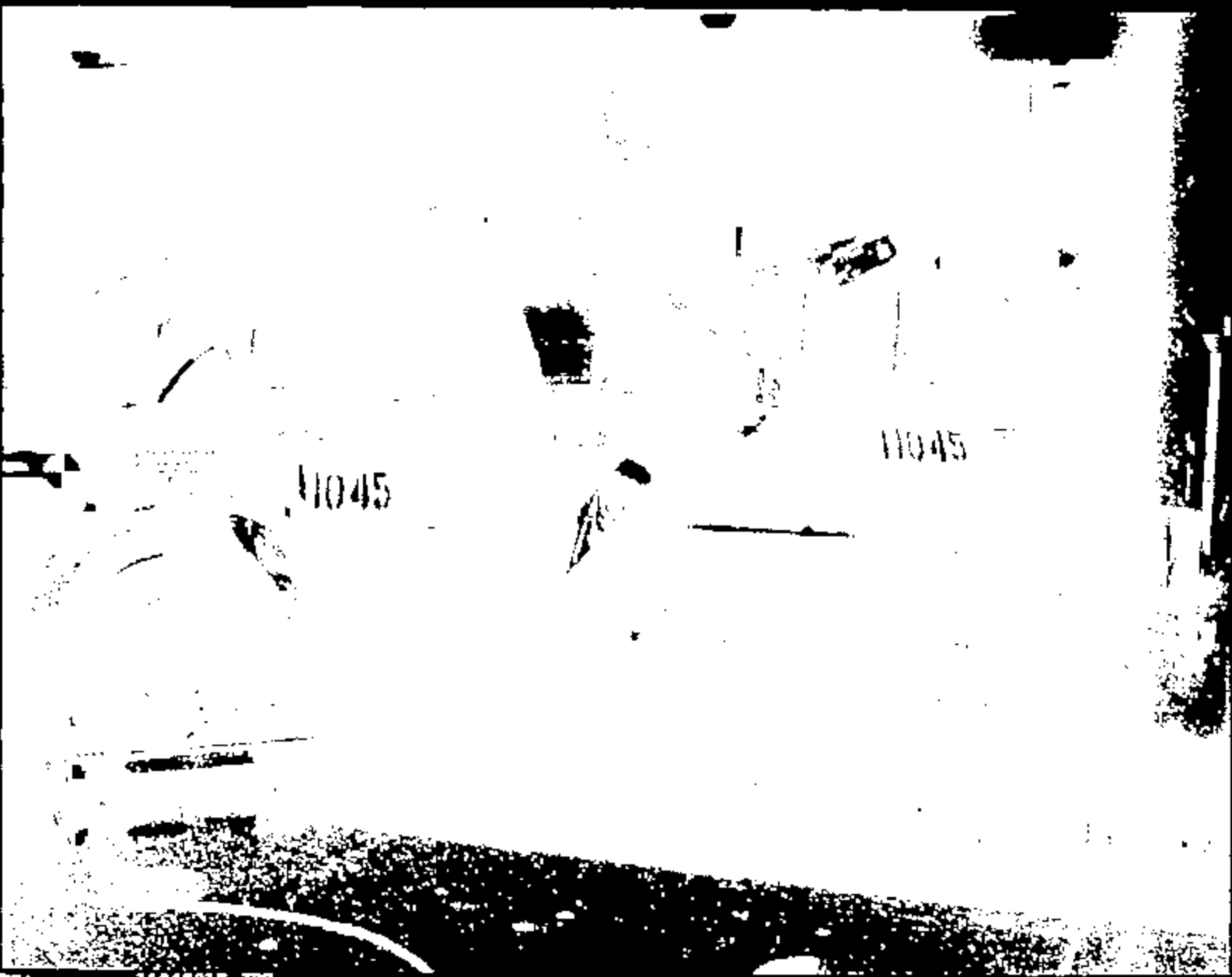
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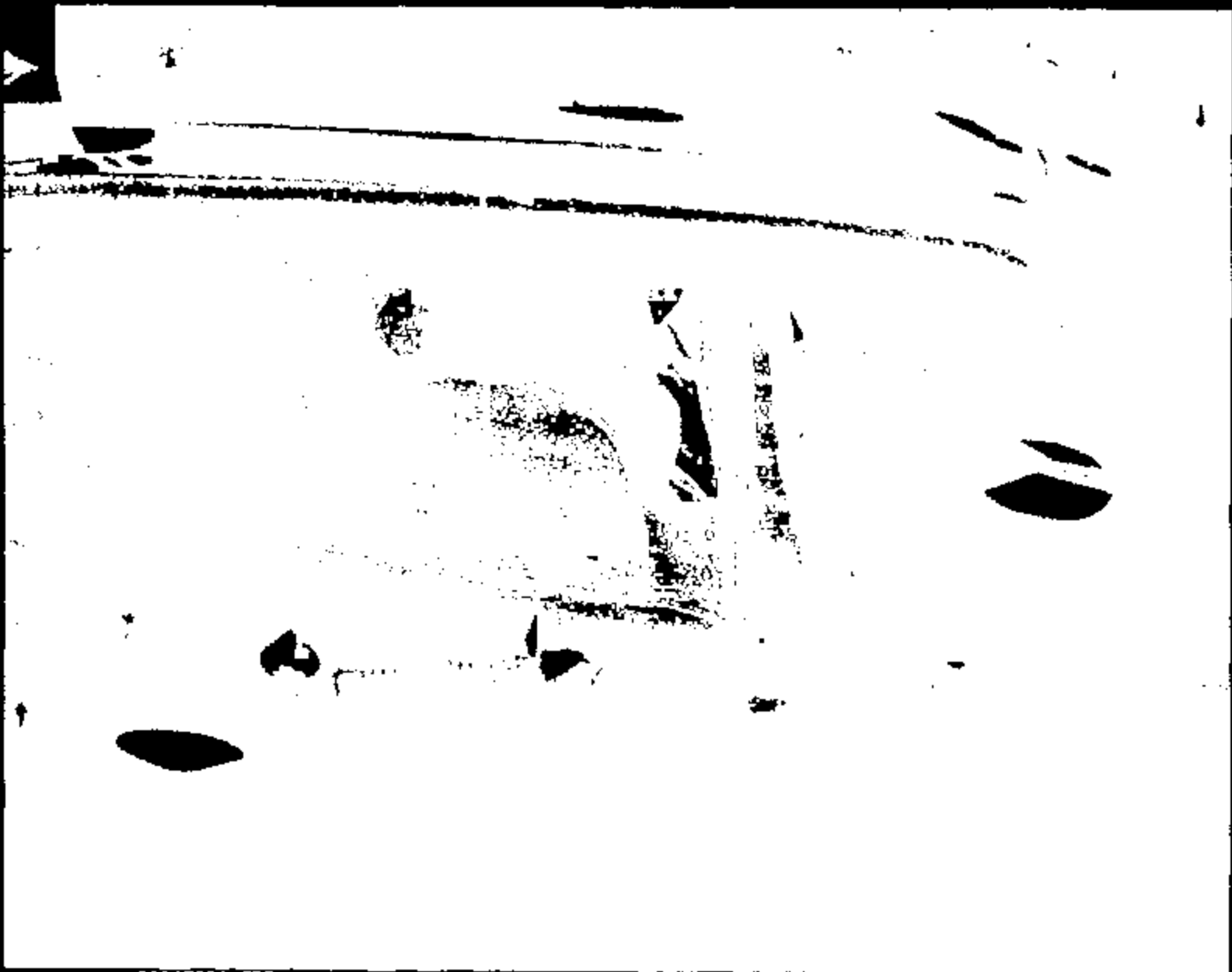
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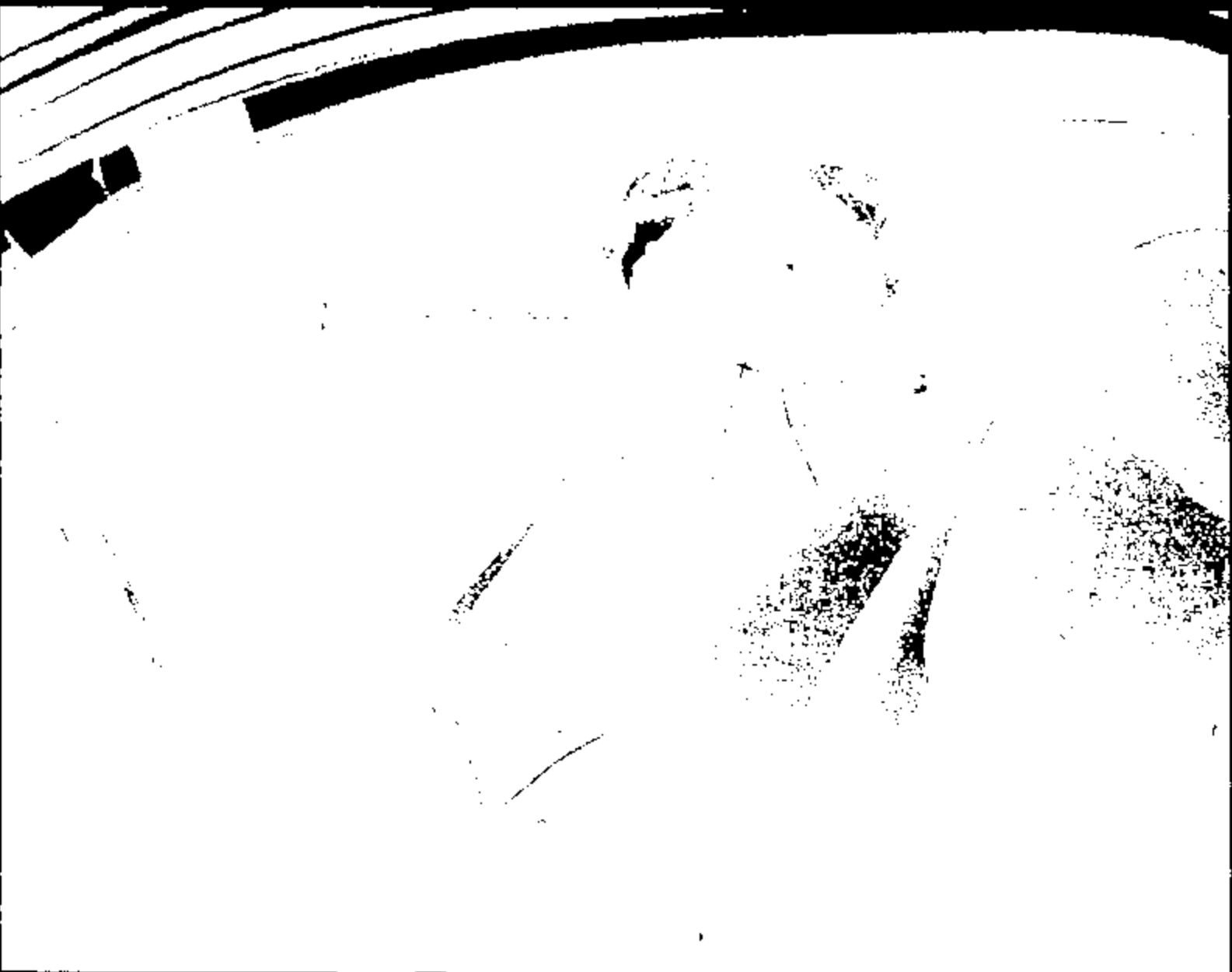
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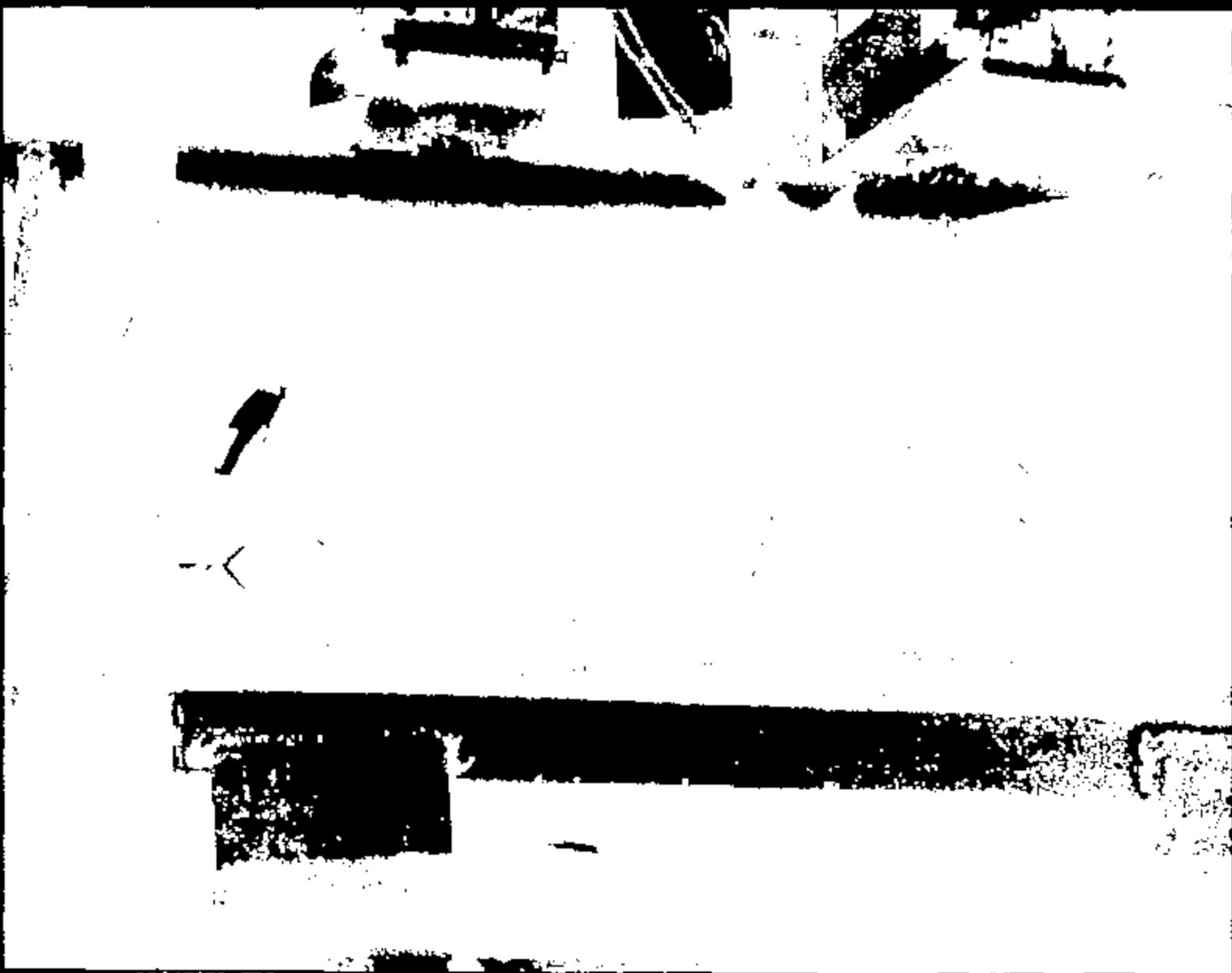
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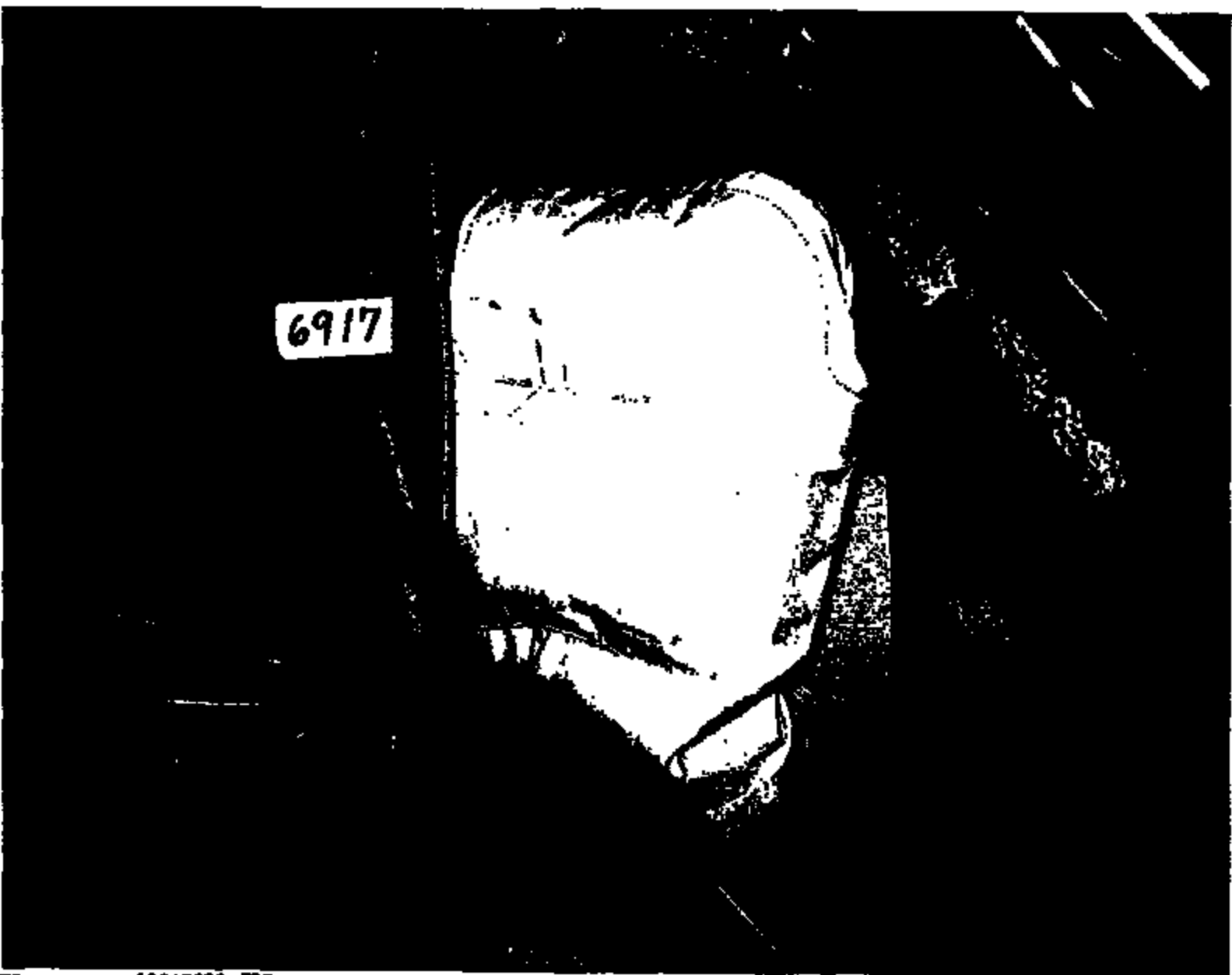
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Image 1

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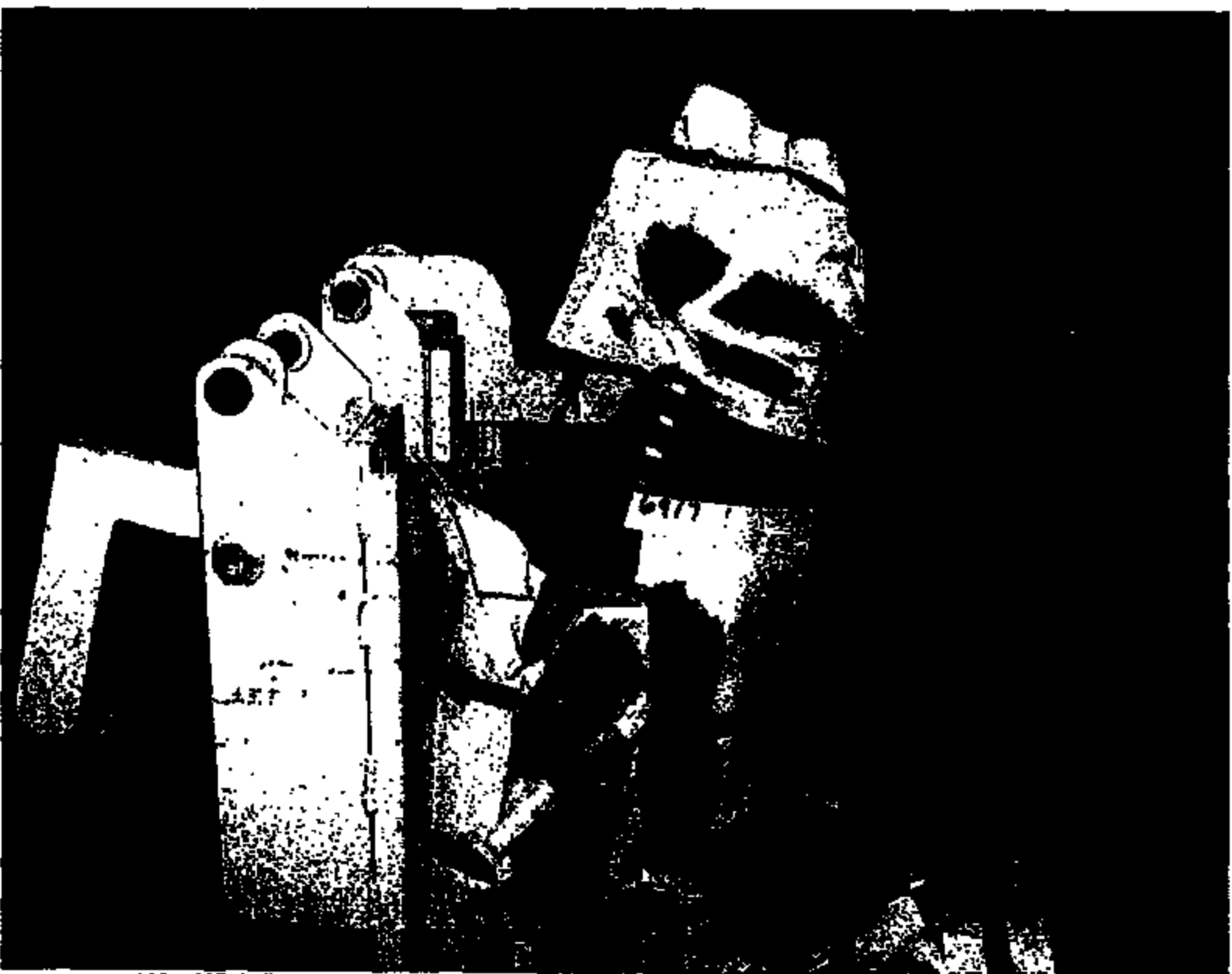
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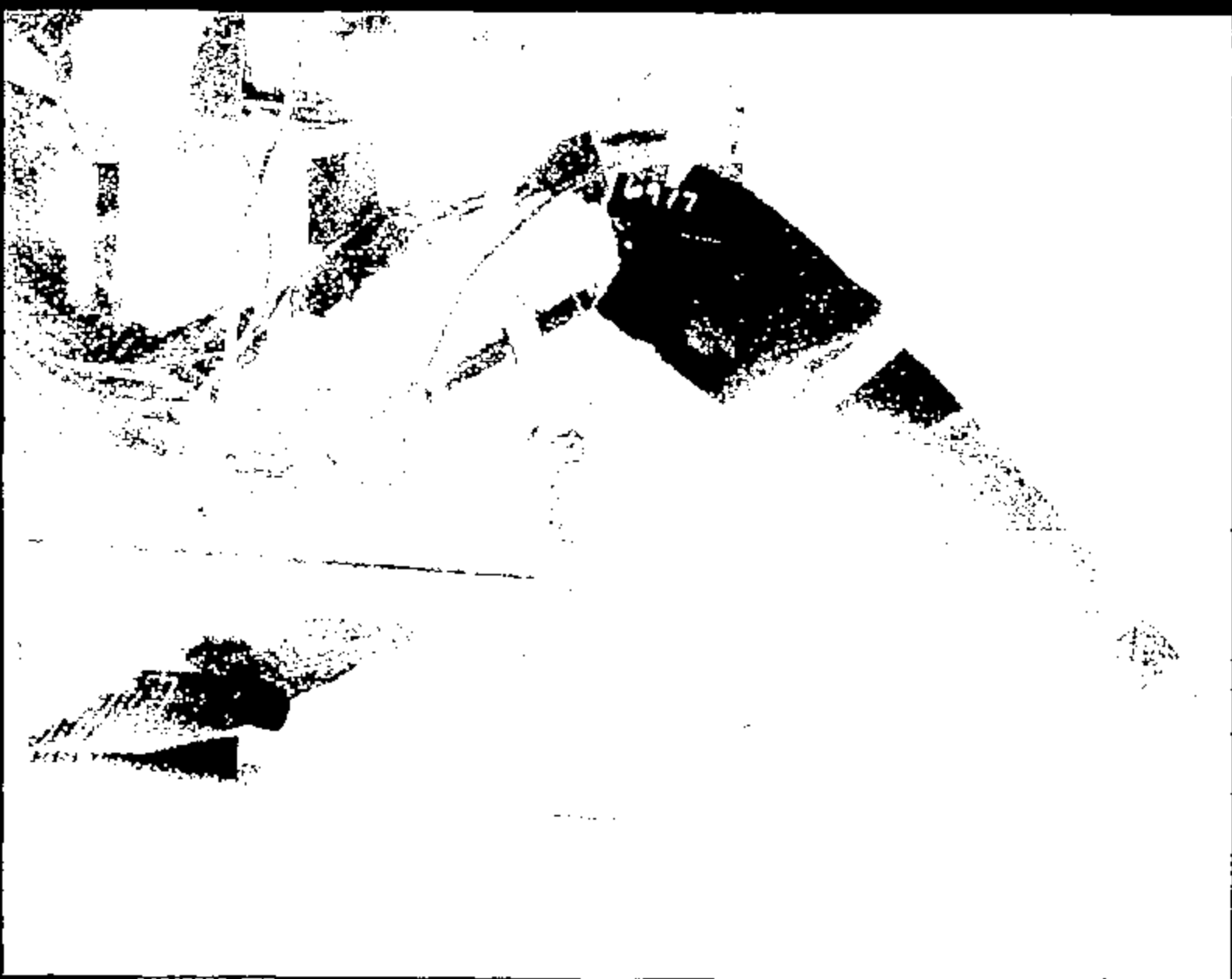
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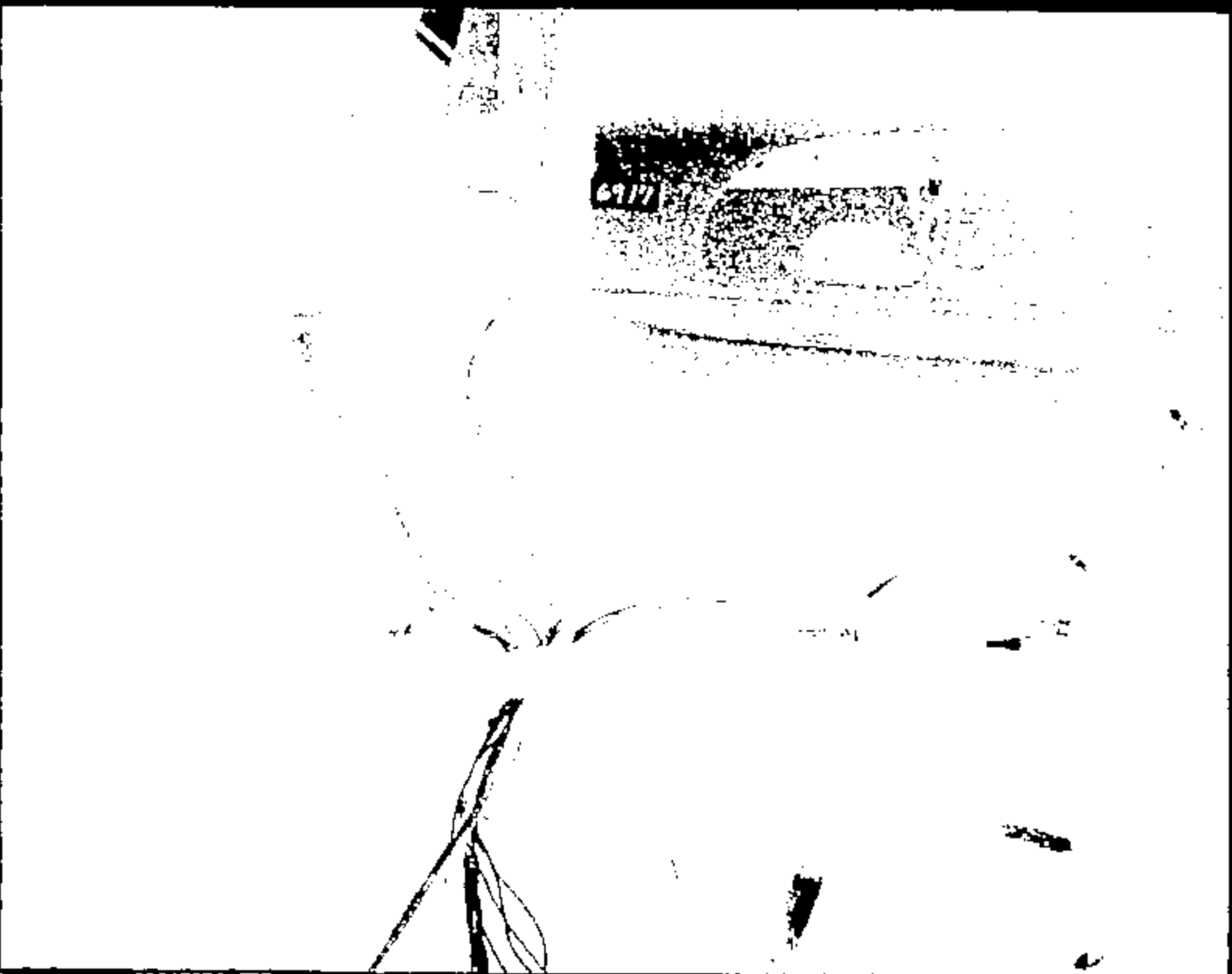
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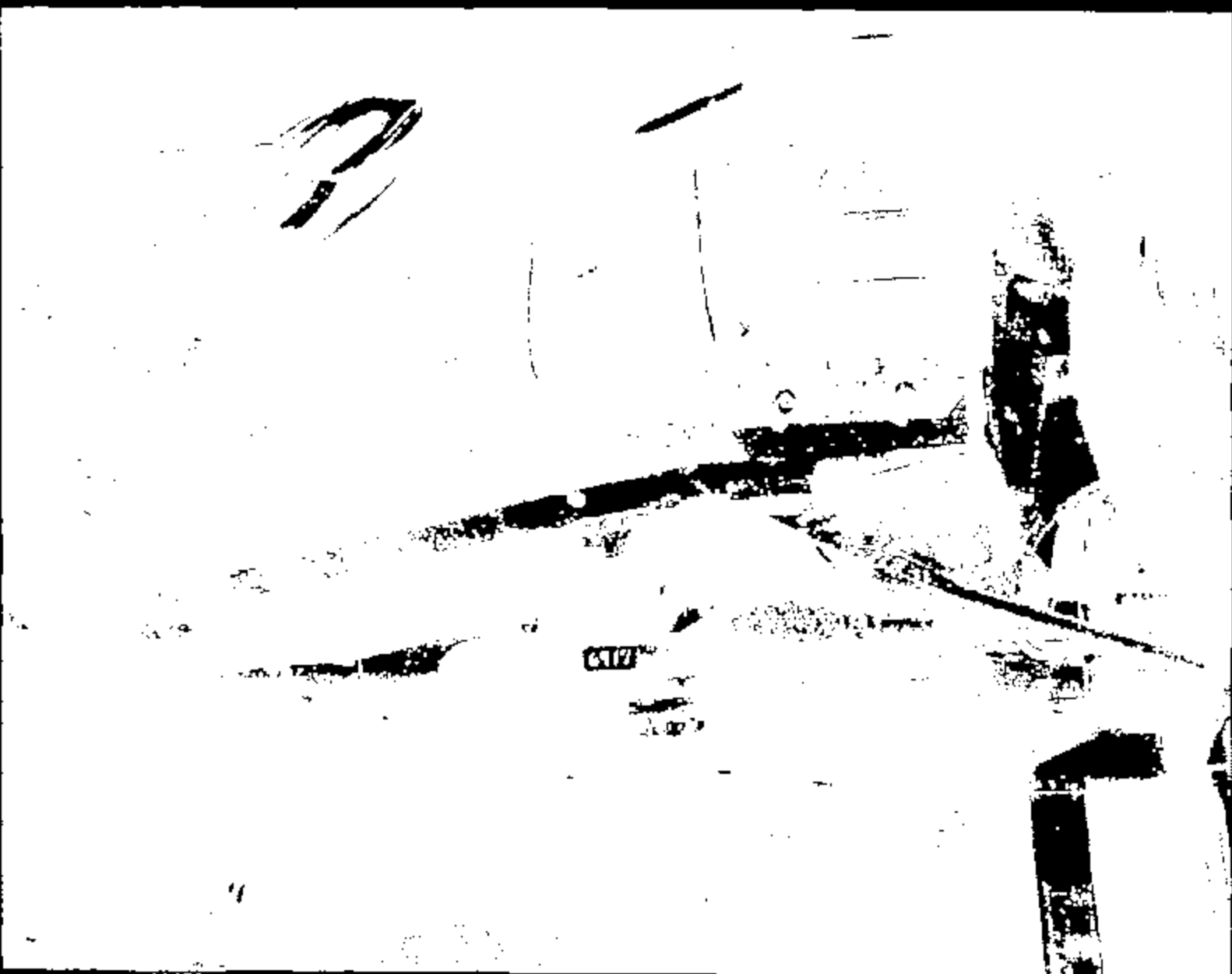


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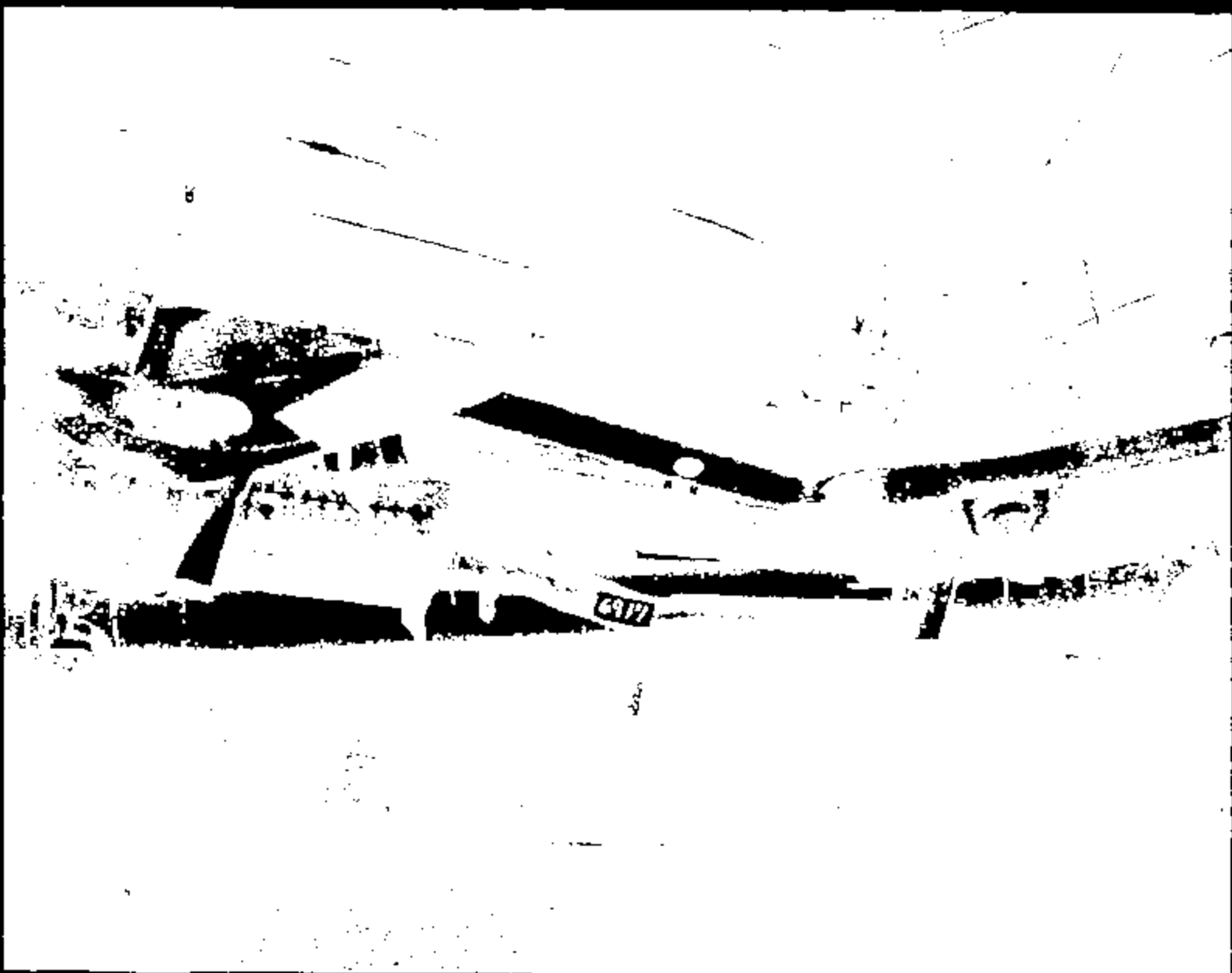
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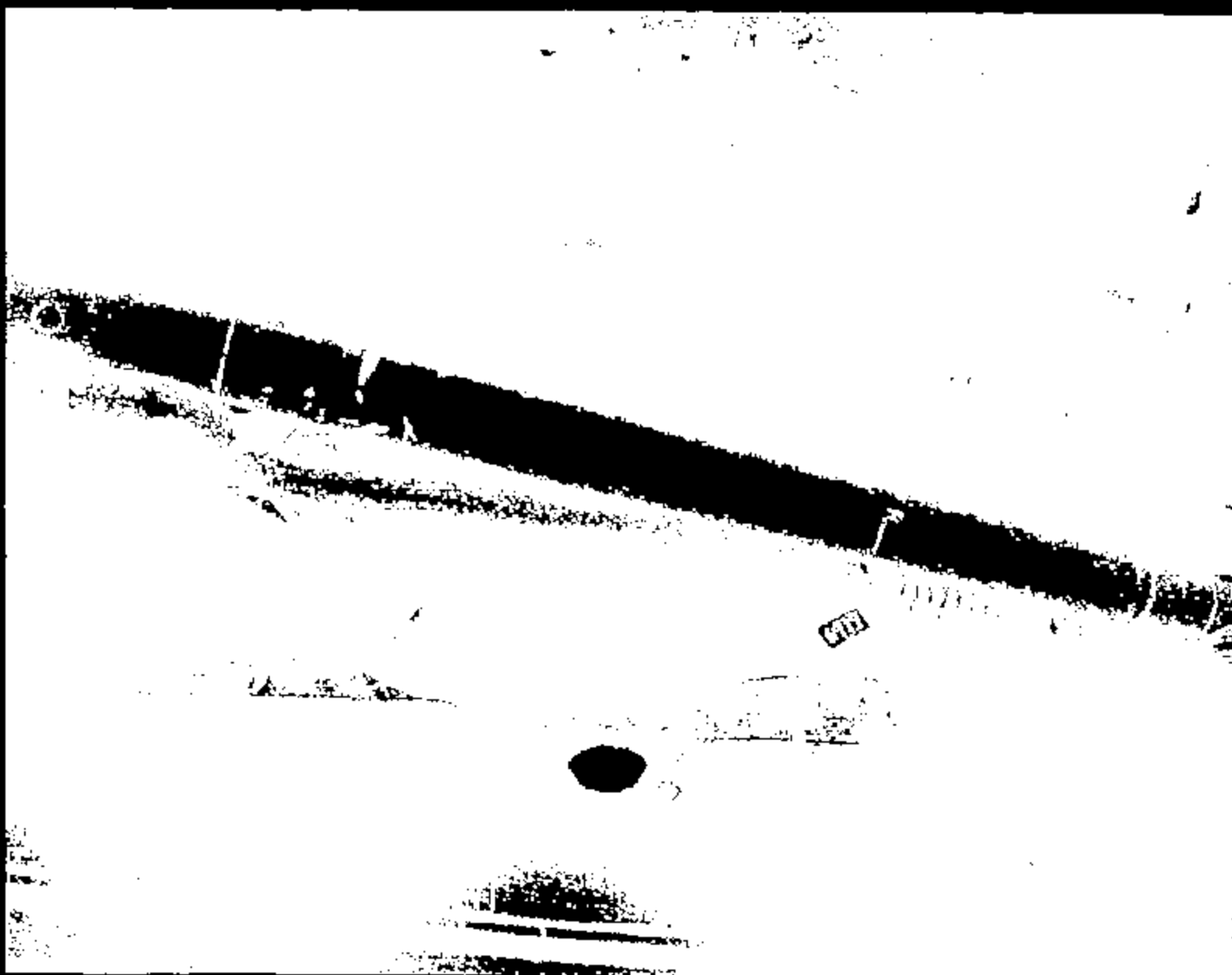
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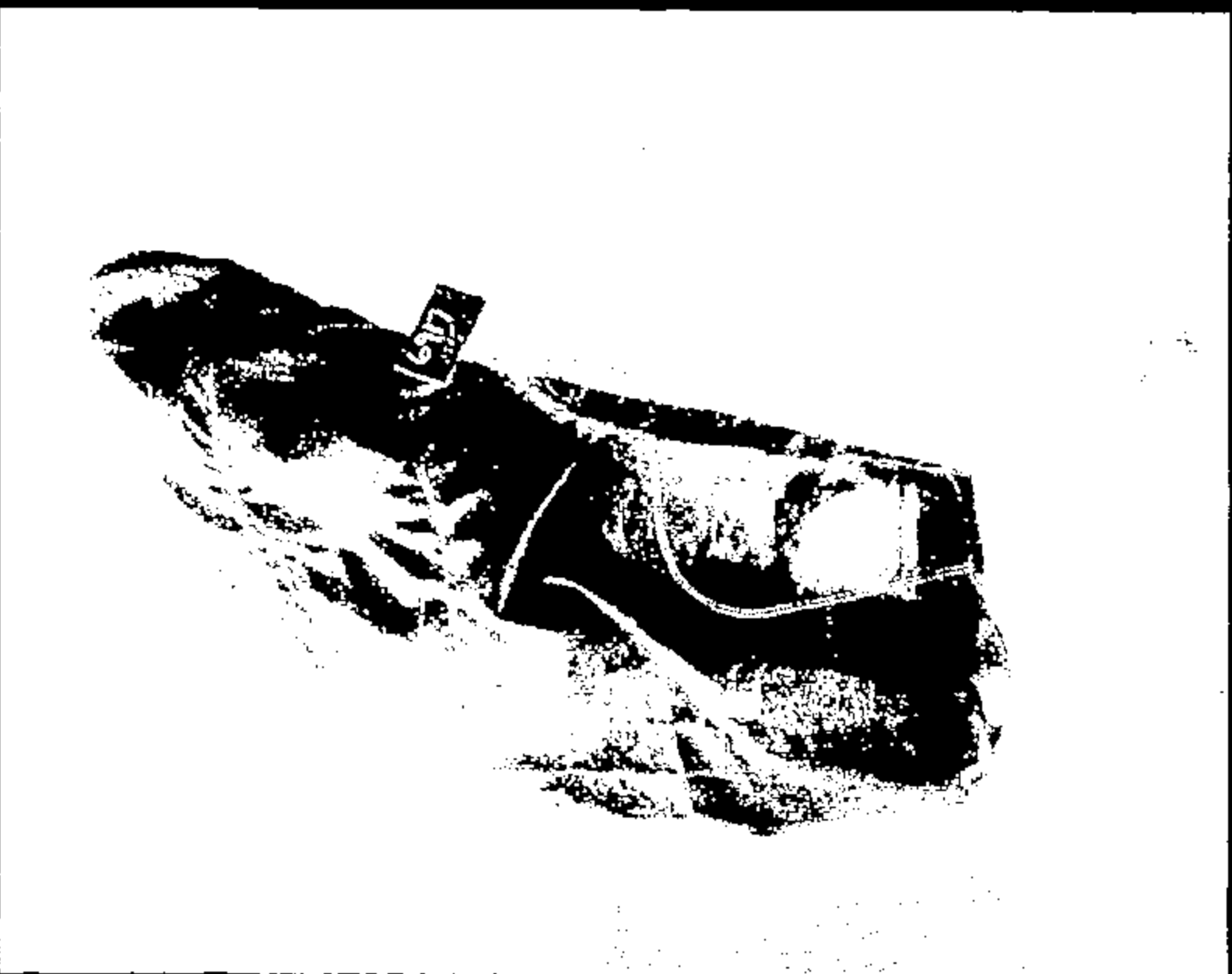
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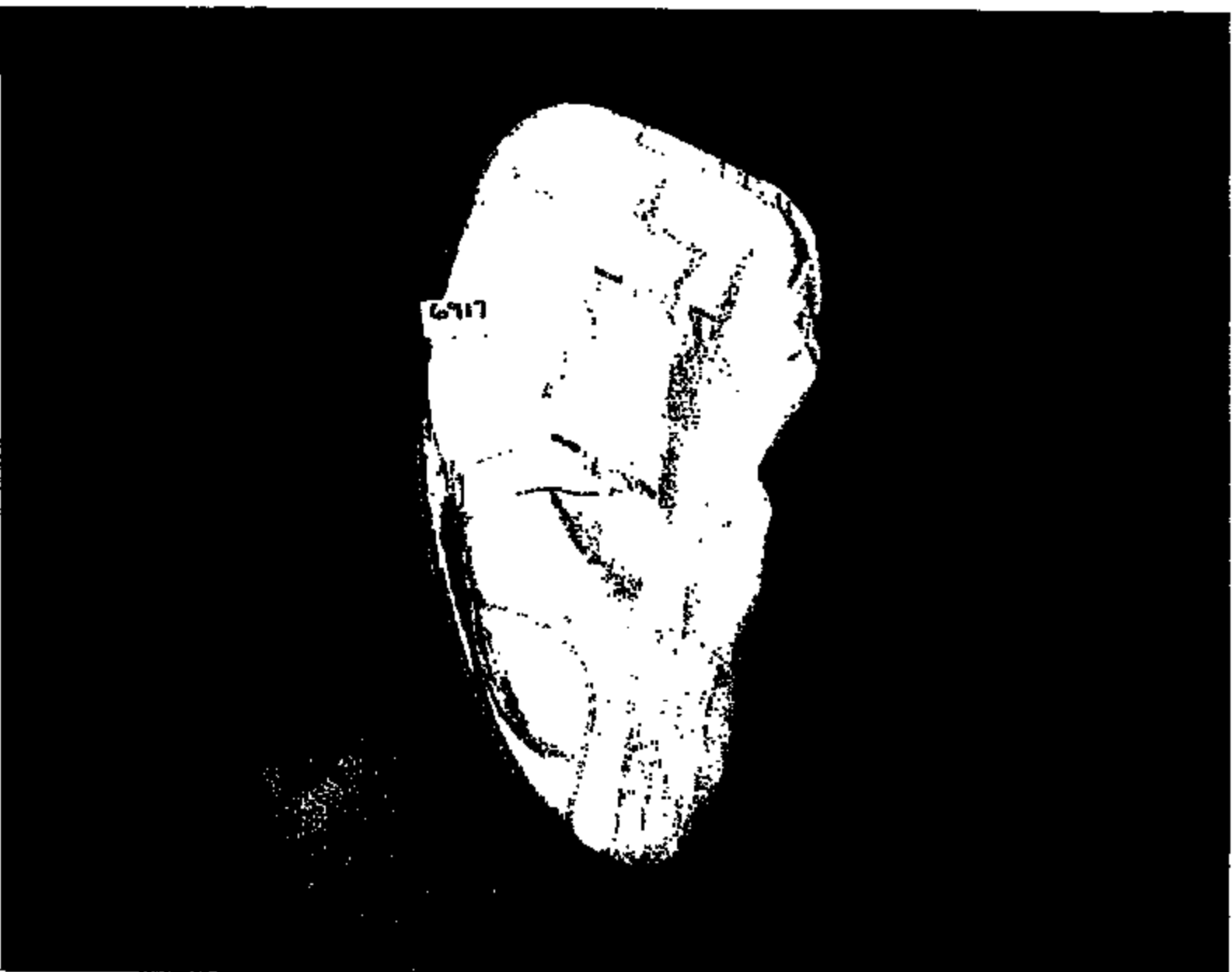
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CRTS 0011045

TEST AUTHORIZATION				TEST ORDER NUMBER: TAL917																																																											
TO: D. Foucault CC: K. D. Arthur				REQUEST DATE: 2/2/98		REQUESTED COMPLETION DATE: 2/20/98																																																									
				REQUEST NUMBER: 16-J16-4438		PROBLEM NUMBER: n/a																																																									
				REQUESTING ACTIVITY: Vehicle Safety & CAE																																																											
TITLE OF TEST: (speed) (test description) 1999 FN145 15 mph Right Side Impact Pole				PARTS DUE DATE: n/a																																																											
TYPE OF TEST: ☒ VEHICLE ☐ BENCH ☐ LABORATORY ☐ OTHER		VIN # or IDENTIFICATION N/A - 6787617 1LNLM8TWXWY905509		VEHICLE MODEL & YEAR: 1999 FN145		PROD. OR ENG. LETTER: n/a																																																									
ENGINE NO. DISPL. CARB: 4.6L		TRANSMISSION: AODE		AXLE RATIO: n/a		TEST CONDUCTED TO CERTIFY CONTROL ITEM COMPLIANCE WITH GOV. REGULATIONS: Yes																																																									
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: P225/60R16		REPORT CATEGORIES: ☒ ENGINEERING ☒ DATA ☒ RAW DATA		PROCUREMENT REQ ? ☐ YES ☒ NO IF YES, GIVE CODE																																																									
VEHICLE TEST WEIGHT: FRONT 2314 REAR 2905 TOTAL 4819		TIRE PRESSURE (psi): FRONT 32 REAR 32				MAIL REPORT TO: BLDG: Bldg. #9 MAIL DROP: MD8016 ADDRESS: 1G-119																																																									
1. OBJECT OF TEST 2. TEST PROCEDURE 3. ITEMS TO BE TESTED (NAME, NUMBER, QUANTITY)																																																															
1) Conduct: (speed) 15 mph (year) 1999 (vehicle) FN145 (level) CP <i>NOTE: USE CASTER</i> (mode) Right Side Impact Pole																																																															
2) Velocity At Impact: 15 mph Remote Fire Time: Positioning procedure: ST-14																																																															
"RECORD COPY" Schedule No. <u>2-7-12</u> Retain Until <u>2018</u> Vehicle Year: 1999 Vehicle Line: FN145 Vehicle Level: CP																																																															
Additional Contacts: (name) D. R. Purdy (phone) 32-30498 (pager number) DPUR E. Meier 84-57642 EMEI				Estimated test cost = \$30,000.00																																																											
Test Dev. Engineer <i>DRP</i> <i>KD</i>																																																															
REQUESTING SECT. NO.: T-551		WORK ORDER/WORK TASK: J19		ISSUED/REQUESTED BY: D. R. Purdy		PHONE: 32-30498																																																									
				APPROVAL: K. D. Arthur		TEST TYPE: n/a																																																									
				30-05190		FUNK: n/a																																																									
						SIGN OFF DATE: n/a																																																									
REQUESTER: DO NOT WRITE BELOW THIS LINE																																																															
WORK STANDARDS NUMBER:				TEST DESCRIPTION:																																																											
<table border="1" style="width: 100%;"> <thead> <tr> <th colspan="5">MANDATORY</th> <th colspan="3">OPTIONAL</th> </tr> <tr> <th>TEST ORDER NO.</th> <th>CATEGORY</th> <th>RESP. SECTION:</th> <th>EST. COMP. DATE</th> <th>PERF.</th> <th>TEST ENG. INITIALS:</th> <th>UNIT CODE:</th> <th>TEST ORDER DATE:</th> </tr> </thead> <tbody> <tr> <td>PERFORMING SECTION</td> <td>HOURS</td> <td>MATERIAL COST</td> <td>COMP. COST</td> <td>PARTS DUE DATE</td> <td>EST. START DATE</td> <td>EST. COMP DATE</td> <td>STATUS</td> </tr> <tr> <td></td> <td></td> <td>\$</td> <td>\$</td> <td></td> <td></td> <td></td> <td>PERCENT COMPLETE</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TOTAL</td> <td></td> <td>\$</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								MANDATORY					OPTIONAL			TEST ORDER NO.	CATEGORY	RESP. SECTION:	EST. COMP. DATE	PERF.	TEST ENG. INITIALS:	UNIT CODE:	TEST ORDER DATE:	PERFORMING SECTION	HOURS	MATERIAL COST	COMP. COST	PARTS DUE DATE	EST. START DATE	EST. COMP DATE	STATUS			\$	\$				PERCENT COMPLETE																	TOTAL		\$					
MANDATORY					OPTIONAL																																																										
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PERFORMING SECTION	HOURS	MATERIAL COST	COMP. COST	PARTS DUE DATE	EST. START DATE	EST. COMP DATE	STATUS																																																								
		\$	\$				PERCENT COMPLETE																																																								
TOTAL		\$																																																													

General Request Information

Test Mode

15 mph
Right Side Impact Pole

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

☐ FMVSS 204 - Steering Wheel Displacement
☐ FMVSS 208 - Frontal Occupant Protection
☐ FMVSS 212 - Wind Shield Retention
☐ FMVSS 214 - Side Impact Protection
☐ FMVSS 219 - Windshield Zone Intrusion
☐ Film Analysis
☐ Template
☐ FMVSS 301 - Fuel System Integrity
☐ Rollover
☐ Pressure Check
☐ FMVSS 303 - NGV Fuel System Integrity
☒ D Sensor Development
☐ Door Operability
☐ ECE 32 Occupant Survival Space - Rear Impact
☐ ECE 33 Occupant Survival Space - Frontal Impact
☐ ECE 34 Fuel System Integrity
☐ ECE 34 Step II - Frontal Offset
☐ ECE / M / 193 STEP II - 900mm Barrier Side Impact
☐
☐

Primary Test Vehicle Information

Use (Target/Bullet):	Bullet
Model Year:	1999
Vehicle Program:	FN145
Vehicle Name:	Town Car
Body Style:	sedan
Build Number:	N/A
Tag Number:	5781817
VIN Number:	1LNLM81WXWY602506
Fuel System Rated Capacity:	19 Gal.
Prototype Level:	CP
Drive Side:	Left Hand Drive

<<< <<< END OF SHEET >>> >>>

Special Prep/Build Instructions Primary Vehicle

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:

☒ Color Contrast Under Body Components

Pyro Restraints Usage

☐ Left Front Air Bag
☐ Right Front Air Bag
☐ Left Side Air Bag
☒ Right 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)

Special Pre-Test Preparation

Other, Specify:

*** END OF SHEET ***

Occupant / ATD Request Primary Vehicle

	<i>Occupant 1</i>	<i>Occupant 2</i>
Type	<u>BIOSID</u>	<u>None</u>
Instrumentation Level*	<u>Development</u>	<u>Development</u>
In-Vehicle Location	<u>RF</u>	<u>RR</u>
Verify: Seat Position Long	<u>mid track travel</u>	<u></u>
Seat Position Vert	<u>Full Down</u>	<u></u>
Seat Back Angle	<u>30.0 degrees</u>	<u></u>
Positioning Procedure	<u>ST-14</u>	<u>ST-14</u>
Use Foot Rest	<u>X</u>	<u></u>
Take Seat Track Video	<u></u>	<u></u>
Special Positioning Instructions	<u></u>	<u></u>
Dummy Adjustment (arm angle)	<u>0 deg (BioSID)</u>	<u></u>
Occupant Belted	<u>YES</u>	<u>NO</u>

*See instrumentation request for detailed instrumentation information.

<<< >>> END OF SHEET >>> >>>

Film Analysis & Photographic Services Request

Front Impact Film Analysis

☐ Head WRT Vehicle
☐ Shoulder WRT Vehicle
☐ Rocker WRT Ground

Other, Specify:

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:

Rear Impact Film Analysis

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

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

2 of 4

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

☐ Front Dummy from Vehicle Hood
☒ Front Dummy from Opposite Window Opening
☐ Rear Dummy from Opposite Window Opening
☒ Front Dummy from Vehicle Trunk
☒ View of Front Seat to Show Dummy Interaction with Trim from Front (Fiber Optic)
☒ View of Front Seat to Show Dummy Interaction with Trim from Right Front Hood-Festus2
☒ View of Front Seat to Show Dummy Interaction with Trim from Center Front Hood

JMF

★

Secondary Vehicle Coverage

ON BOARD CART, Carl Centerline - View of Impact

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
☒ View of Impact Level with Bottom of Pole

Pit Coverage

☒ Cart contact - view of impacted side of vehicle with cart contact
☒ Cart contact - overlap view of impacted side of vehicle with cart contact

Overhead Coverage

☒ Overall view of impacted vehicle side including cart
☒ view of impacted vehicle side focus on front door opening area

High Speed Cameras for Rear Impact**Floor Coverage**

☐ Overall Left
☐ Velocity Left
☐ Overall Right
☐ Velocity Right
☐ A-Pillar Forward Left
☐ A-Pillar Forward Right
☐ Left B-Pillar Rearward (Target)
☐ Right B-Pillar Rearward (Target)
☐ Left Side 45 Degree Angle of Contact Area (from rear)
☐ Right Side 45 Degree Angle of Contact Area (from front)

Overhead Coverage

☐ Overhead - Overall
☐ Overhead - A-Pillar Forward
☐ Overhead - B-Pillar Rearward

Pit Coverage

☐ Pit - Fuel Tank
☐ Pit - Overlap of Fuel Tank
☐ Pit - Filler Pipe

All Other High Speed Photography

0
0

<<< <<< END OF SHEET >>> >>>

Instrumentation and Data Processing Request

Primary Vehicle Structural Instrumentation - Frontal Impact

ACCELEROMETERS:	Long	Vert	Lat
☐ Engine/Trans Upper	☐	☐	☐
☐ Engine/Trans Lower	☐	☐	☐
☐ Left Rocker at B-Pillar	☐	☐	☐
☐ Right Rocker at B-Pillar	☐	☐	☐
☐ Left Frame at B-Pillar	☐	☐	☐
☐ Right Frame at B-Pillar	☐	☐	☐
☐ Left A-Pillar Inside	☐	☐	☐
☐ Right A-Pillar Inside	☐	☐	☐
☐ Centerline Tunnel @ Dash	☐	☐	☐
☐ Centerline Tunnel Middle	☐	☐	☐
☐ Centerline Tunnel @ Seat Long Centerline	☐	☐	☐
☐ Left Floor Pan Under Seat	☐	☐	☐
☐ Left Door Inside Top	☐	☐	☐
☐ Left Shock Tower	☐	☐	☐
☐ Right Floor Pan Under Seat	☐	☐	☐
☐ Right Door Inside Top	☐	☐	☐
☐ Right Shock Tower	☐	☐	☐
☐ Rad Support Top - Center	☐	☐	☐
☐ #1 Crossmember Bottom	☐	☐	☐
☐ #2 Crossmember Bottom	☐	☐	☐
☐ Left Front Rail Forward of Sledrunners	☐	☐	☐
☐ Left Front Rail Forward of Shock Tower	☐	☐	☐
☐ Right Front Rail Forward of Sledrunners	☐	☐	☐
☐ Right Front Rail Forward of Shock Tower	☐	☐	☐
☐ Directly Below D.A. Point # 69	☐	☐	☐
☐ Directly Below D.A. Point # 64	☐	☐	☐

Primary Vehicle Structural Instrumentation - Side Impact

ACCELEROMETERS:	Long	Vert	Lat
☐ L/ A-PILLAR_INSIDE @ ROCKER	☐	☐	☐
☐ L/ A-PILLAR_INSIDE @ HINGE	☐	☐	☐
☐ R/ A-PILLAR_INSIDE @ HINGE	☐	☐	☐
☒ R/ F_DOOR @ BELTLINE_MID	☐	☐	☒
☒ R/ F_DOOR_OVER_ARMREST	☐	☐	☒
☒ R/ F_DOOR_REAR_OF_SEAT_MIDPT	☐	☐	☒
☒ R/ F_DOOR_SPEAKER_HOLE	☐	☐	☒
☒ R/ B-PILLAR_INSIDE @ ROOF	☐	☐	☒
☒ R/ B-PILLAR_INSIDE @ BELTLINE	☐	☐	☒
☐ L/ B-PILLAR_INSIDE @ ROCKER	☐	☐	☐
☐ L/ F_DOOR @ BELTLINE_MID	☐	☐	☐
☐ L/ F_DOOR_OVER_ARMREST	☐	☐	☐
☒ L/ ROCKER @ FRONT_SEAT_MID	☒	☒	☒
☒ L/ ROCKER @ REAR_SEAT_MID	☒	☒	☒
☒ R/ ROCKER @ FRONT_SEAT_MID	☐	☐	☒
☒ R/ ROCKER @ REAR_SEAT_MID	☐	☐	☒
☐ FRONT_FLOOR_PAN @ OL	☐	☐	☐
☐ FLOOR_XMBR @ LF_SEAT_OL	☐	☐	☐
☐ FLOOR_XMBR @ RF_SEAT_OL	☐	☐	☐
☐ OL_TUNNEL @ FRONT_SEAT	☐	☐	☐
☒ REAR_FLOOR_PAN_ABOVE_AXLE	☒	☒	☒

Primary Vehicle Structural Instrumentation - Rear Impact**ACCELEROMETERS:**

	Long	Vert	Lat
____ Left Rocker Panel at "B" Pillar	____	____	____
____ Right Rocker Panel at "B" Pillar	____	____	____
____ Left Frame Rail at "B" Pillar	____	____	____
____ Right Frame Rail at "B" Pillar	____	____	____

OTHER STRUCTURAL ACCELS:

	Long	Vert	Lat
* X Near Fuel Inertia Switch (In Trunk)	X	X	X
* X L/Frame @ Front Seat Mid	X	X	X
* X L/Frame @ Rear Seat Mid	X	X	X
* X R/Frame @ Front Seat Mid	____	____	X
* X R/Frame @ Rear Seat Mid	____	____	X

Secondary Vehicle Structural Instrumentation**ACCELS:**

	Long	Vert	Lat
___ MDS_CENTER_OF_GRAVITY	___	___	___
___ MDS_LEFT_FRAME_RAIL	___	___	___
___ MDS_RIGHT_FRAME_RAIL	___	___	___
___ MDS_REAR_HONEYCOMB_@_O-L	___	___	___
___ MDS BUMPER_FACE_@_O-L	___	___	___
___ MDS BUMPER_FACE_@_L-S	___	___	___
___ MDS BUMPER_FACE_@_R-S	___	___	___

	Long	Vert	Lat
___ Left Rocker Panel at "A" Piller	___	___	___
___ Right Rocker Panel at "A" Piller	___	___	___
___ Left Rocker Panel at "B" Piller	___	___	___
___ Right Rocker Panel at "B" Piller	___	___	___

OTHER SECONDARY VEHICLE ACCELS:

	Long	Vert	Lat
___	___	___	___
___	___	___	___

Long	Vert	Lat
		0
		0

- ☐ 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

- Stroke Break Wire
- Tilt Mechanism Break Wire
- String Pot
- Load Cell (5 Axis)

- Engine to Rad Support left
- Engine to Rad Support center
- Engine to Rad Support right
- Brake booster to shock tower

- ☒ Inertia Fuel System Cut-Off Switch

OTHER VEHICLE SYSTEM INSTRUMENTATION

- ☒ See Sensor Map
- ☒ Foil Contact Switch - R/Front Seat Back Side
- ☒ Foil Contact Switch - R/Front Seat Cushion Side

Dummy Instrumentation - Internal**ACCELS:**

☐ Head C.G.
☐ Chest
☐ Pelvis

☐ Long ☐ Vert ☐ Lat
☐ Long ☐ Vert ☐ Lat
☐ Long ☐ Vert ☐ Lat

LOAD CELLS:

☐ Neck Upper Load
☐ Neck Upper Moment
☐ Neck Lower Load
☐ Neck Lower Moment
☐ Thoracic Load
☐ Thoracic Moment
☐ Lower Lumbar Load
☐ Lower Lumbar Moment
☐ L/Femur Load
☐ L/Femur Moment
☐ R/Femur Load
☐ R/Femur Moment
☐ L/Up/Tibia Moment & Load
☐ R/Up/Tibia Moment & Load
☐ L/Low/Tibia Moment & Load
☐ R/Low/Tibia Moment & Load

☐ Fx ☐ Fy ☐ Fz
☐ Mx ☐ My ☐ Mz
☐ Fx ☐ Fy ☐ Fz
☐ Mx ☐ My ☐ Mz
☐ Fx ☐ Fy ☐ Fz
☐ Mx ☐ My ☐ Mz
☐ Fx ☐ Fy ☐ Fz
☐ Mx ☐ My ☐ Mz
☐ Fx ☐ Fy ☐ Fz
☐ Mx ☐ My ☐ Mz
☐ Fx ☐ Fy ☐ Fz
☐ Mx ☐ My ☐ Mz
☐ Fx ☐ Fy ☐ Fz
☐ Mx ☐ My ☐ Mz

POTENTIOMETERS:

☐ Chest Deflection
☐ Knee Slider - Left
☐ Knee Slider - Right

☐ Disp
☐ Disp
☐ Disp

OTHER INTERNAL DUMMY INSTRUMENTATION:**Dummy Instrumentation - External****CONTACT SWITCHES:**

☐ L / Knee Contact
☐ R / Knee Contact
☐ Header

STRING POTS:

☐ Pelvis
☐ L / Knee
☐ R / Knee

OTHER EXTERNAL DUMMY INSTRUMENTATION:

Dummy Instrumentation - Internal**ACCELS:**

☐ Head C.G.
☐ Chest
☐ Pelvis

☐ Long ☐ Vert ☐ Lat
☐ Long ☐ Vert ☐ Lat
☐ Long ☐ Vert ☐ Lat

LOAD CELLS:

☐ Neck Upper Load
☐ Neck Upper Moment
☐ Neck Lower Load
☐ Neck Lower Moment
☐ Thoracic Load
☐ Thoracic Moment
☐ Lower Lumbar Load
☐ Lower Lumbar Moment
☐ L/Femur Load
☐ L/Femur Moment
☐ R/Femur Load
☐ R/Femur Moment
☐ L/Up/Tibia Moment & Load
☐ R/Up/Tibia Moment & Load
☐ L/Low/Tibia Moment & Load
☐ R/Low/Tibia Moment & Load

☐ Fx ☐ Fy ☐ Fz
☐ Mx ☐ My ☐ Mz
☐ Fx ☐ Fy ☐ Fz
☐ Mx ☐ My ☐ Mz
☐ Fx ☐ Fy ☐ Fz
☐ Mx ☐ My ☐ Mz
☐ Fx ☐ Fy ☐ Fz
☐ Mx ☐ My ☐ Mz
☐ Fx ☐ Fy ☐ Fz
☐ Mx ☐ My ☐ Mz
☐ Fx ☐ Fy ☐ Fz
☐ Mx ☐ My ☐ Mz
☐ Fx ☐ Fy ☐ Fz
☐ Mx ☐ My ☐ Mz

POTENTIOMETERS:

☐ Chest Deflection
☐ Knee Slider - Left
☐ Knee Slider - Right

☐ Disp
☐ Disp
☐ Disp

OTHER INTERNAL DUMMY INSTRUMENTATION:

☐
☐

Dummy Instrumentation - External**CONTACT SWITCHES:**

☐ L / Knee Contact
☐ R / Knee Contact
☐ Header

STRING POTS:

☐ Pelvis
☐ L / Knee
☐ R / Knee

OTHER EXTERNAL DUMMY INSTRUMENTATION:

☐
☐

Dummy Instrumentation - Internal

BioSID

R/F

ACCELS:

☐ L/F_ DUMMY_HEAD_G.G.
☐ L/F_ DUMMY_T1
☐ L/F_ DUMMY_T1/
☐ L/F_ DUMMY_T12
☐ L/F_ DUMMY_T12/
☐ L/F_ DUMMY_PELVIS
☐ L/F_ DUMMY_PELVIS/
☐ L/F_ DUMMY_THORAXRIBUP/
☐ L/F_ DUMMY_THORAXRIBO/
☐ L/F_ DUMMY_THORAXRIBLO/

☐ Long ☐ Vert ☐ Lat
☐ Long ☐ Vert ☐ Lat - R
☐ Lat - L ☐ Lat - REAR
☐ Long ☐ Vert ☐ Lat - REAR
☐ Lat - FRT ☐ Lat - REAR
☐ Long ☐ Vert ☐ Lat - REAR
☐ Lat - L ☐ Lat - REAR
☐ Lat - FRT ☐ Lat - REAR
☐ Lat - FRT ☐ Lat - REAR
☐ Lat - FRT ☐ Lat - REAR

LOAD CELLS:

☐ L/F_ DUMMY ABDOMEN_LOAD_FRONT (EURO)
☐ L/F_ DUMMY ABDOMEN_LOAD_MID (EURO)
☐ L/F_ DUMMY ABDOMEN_LOAD_REAR (EURO)
☐ L/F_ DUMMY THORACIC SPINE_LOAD
☐ L/F_ DUMMY THORACIC SPINE_LOAD
☐ L/F_ DUMMY LUMBAR SPINE_LOAD
☐ L/F_ DUMMY LUMBAR SPINE_LOAD
☐ L/F_ DUMMY PELVIC_LOAD (EURO)

☐ Py
☐ Py
☐ Py
☐ Px ☐ Py ☐ Fz
☐ Mx ☐ My
☐ Fx ☐ Py ☐ Fz
☐ Mx ☐ My
☐ Py

POTENTIOMETERS:

☐ L/F_ DUMMY_CHEST_DEFLECTION (SID)
☐ L/F_ DUMMY_THORAXRIBUPDISP (EURO)
☐ L/F_ DUMMY_THORAXRIBLODISP (EURO)
☐ L/F_ DUMMY_THORAXRIBLODISP (EURO)

☐ Disp
☐ Disp
☐ Disp
☐ Disp

OTHER INTERNAL DUMMY INSTRUMENTATION:**Dummy Instrumentation - External****CONTACT SWITCHES:**

☒ L/F_ DUMMY_HEAD_SW
☒ L/F_ DUMMY_ARM_SW
☒ L/F_ DUMMY_THORAX_SW
☒ L/F_ DUMMY ABDOMEN_SW
☒ L/F_ DUMMY_H-POINT_SW
☒ L/F_ DUMMY_THIGH_SW

OTHER EXTERNAL DUMMY INSTRUMENTATION:

CRTS 0011045

Barrier Load Cell

0000	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000

Notes:

Blank indicates cell not required

"L" indicates data required in longitudinal direction only

"T" indicates data required on all three axes

<<< <<< END OF SHEET >>> >>>

CRTS 0011045

Requested/Originator: U. S. Army
 Project: 0000 Feeding Barrier
 Drawing Part: 0000

Request #: 10-J18-406
 Barrier Load Cell Attachment
 Page 1 of 1

Rev: 2.000 Revised: Sept 12, 1990
 Author: 0000/0000/0000

ENTIRE PAGE CONFIDENTIAL

List of Test Contacts

	Last name	Phone	Pager	Profile
Requestor	D. R. Purdy	82-90486	DPUR	DPURDY1
Approving supervisor	K. D. Arthurs	88-05158	KART	KARTHURS
Build coordinator	E. Malar	84-57542	EMEI	EMEIER
Test engineer				
Other				
Other				

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

CRTS 0011045

Requestor/Collector: D. R. Purdy
 Printed: 2008 Friday, October 10, 2008
 Darby Press, Gwynedd

Request #: 10-110-0486
 Contact List Attachment
 Page 1 of 1

Auto TA
 Ver: 2.0.0.0 Issued: Sept 13, 2006
 Author: OliverHigley@nasa.gov

ENTIRE PAGE CONFIDENTIAL

Test Conditions - Final Prep

T.O. #: 74 6917

Final Prep Contacts

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

Test Engineer	Request Engineer	Build Coordinator
Name: _____	D. R. Purdy	E. Meier
Phone: _____	92-30498	84-57542
Pager: _____	DPLR	EME

The Pressure

Front: 32. pal. Rear: 32. pal

Fuel System

Fuel Tank & System to Contain: none

$$\frac{\text{Fill Level}}{\text{Capacity}} = \frac{\%}{100} \times \frac{10 \text{ Gal.}}{\text{Capacity}}$$

Weight Targets

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

Curb Weight		Requested Test Weight	Acceptable Test Weight Variance		Actual Test Weight
			High (+)	Low (-)	
Front:	2,220 lbs	2,314 lbs	12 lbs		Front: 2693
Rear:	1,802 lbs	2,305 lbs	12 lbs		Rear: 1930
Total:	4,022 lbs	4,619 lbs	24 lbs	#VALUE!	Total: 4623

Rated Luggage Load: 200 lbs.

Simulate Vorticity at Weigh-Up Duminy Weights

On Board Careers Count

Weight Addition (Restrictions)

Do NOT place any weight in the following locations:

☐ Air Cleaner	☐ Engine	☒ X Doors
☐ Battery	☐ Fan Box/Shroud	☒ X Foot Wells - Front
☐ Bottle - Coolant	☐ Headlamp Overage	☒ X Foot Wells - Rear
☐ Bottle - Washer	☐ Radiator	☒ X Quarter Panels
☐ Other:		☐ Trunk Floor

Ride Highlights

Measure • Test Weight

Front: 715.0 inches

Rear: 707.0 Inches

Measure

From: Wheel Lip

To: GROUND

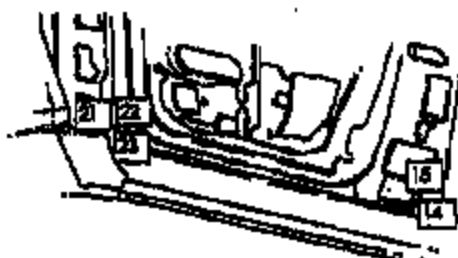
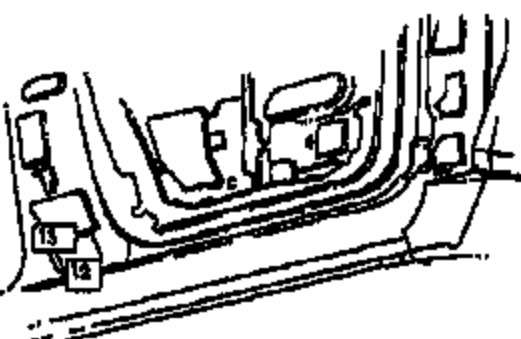
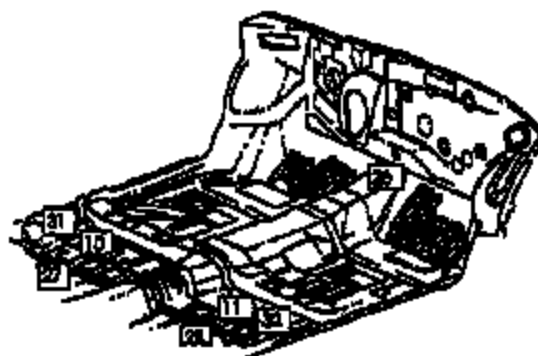
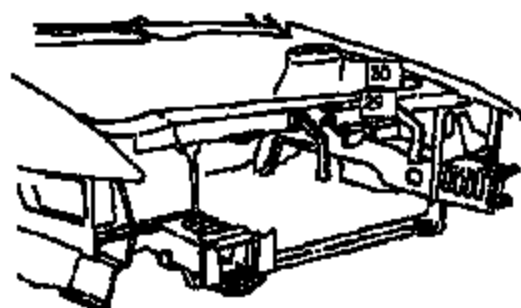
Additional Remarks

~~Would~~ ~~NOT~~ ~~FIT~~ ~~IN~~ ~~THE~~ ~~BUILDING~~

Program: FN145
Vehicle ID: B787817
Build Level: CP - Side
Test Model: 15mph Pole RH

SENSOR MAP

Engineer: Erich Kemnitz
Phone #: 248-1002
Date: 02/03/98
Time: 8:00 AM



Sensor Channels only

Location Name	Type	Output	Nominal (v)	Max/min	Serial #
10 UND_L/P_SEAT_R_L/R_SIDE_SEN1	Siemens side	status	2.5 +- 0.5		
11 UND_R/P_SEAT_R_L/R_SIDE_SEN1	Siemens side	status	2.5 +- 0.5		
12 L/R-FLR_IN_R_SIDE_SEN	accel	TRIAK			
13 L/R-FLR_IN_R_SIDE_SEN	accel	TRIAK			
14 R/R-FLR_IN_R_SIDE_SEN	accel	TRIAK			
15 R/R-FLR_IN_R_SIDE_SEN	accel	TRIAK			
21 R/A-FLR_IN_R_SIDE_SEN1	Siemens BCM	Dr. Head	0.0 +- 0.5		
22 R/A-FLR_IN_R_SIDE_SEN2	Siemens BCM	Dr. Leg	0.0 +- 0.5		
23 R/A-FLR_IN_R_SIDE_SEN3	Siemens BCM	Pass Leg	0.0 +- 0.5		
24 R/A-FLR_IN_R_SIDE_SEN4	Siemens BCM	Dr. R Leg	0.0 +- 0.5		
25 R/A-FLR_IN_R_SIDE_SEN5	Siemens BCM	Dr. L Leg	0.0 +- 0.5		
26 R/A-FLR_IN_R_SIDE_SEN6	Siemens BCM	Dr. Foot	0.0 +- 0.5		
27 R/A-FLR_IN_R_SIDE_SEN7	Siemens BCM	rolling	open		
28 R/A-FLR_IN_R_SIDE_SEN8	Siemens BCM	up/down	5.0+- 0.5		
29 R/A-FLR_IN_R_SIDE_SEN9	accel	TRIAK			
30 R/A-FLR_IN_R_SIDE_SEN10	accel	TRIAK			
31 C/L-FLR_R_SIDE_SEN	accel	TRIAK			
32 UND_L/P_SEAT_R_C/L_SIDE	accel	TRIAK			
33 UND_R/P_SEAT_R_C/L_SIDE	accel	TRIAK			
34 L/C/HEAD UP FWD_SEN1	Head up	volts			
35 L/C/HEAD UP FWD_SEN2	accel	TRIAK			
36 UND_L/P_SEAT_R_L/R_SIDE_SEN	accel	TRIAK			
37 UND_R/P_SEAT_R_L/R_SIDE_SEN	accel	TRIAK			

Rear Face of Head sensors from Side Sensor

Rear Face of Head sensors from Side Sensor

5

0

Front Face Head sensors. Next to Side Sensor.

Front Face Head sensors. Next to Side Sensor.

Side Impact Barrier Test Data Sheet

T.O. TA6917

Crash Number 11045Test Date 3/19/93MDS Tire
Pressure

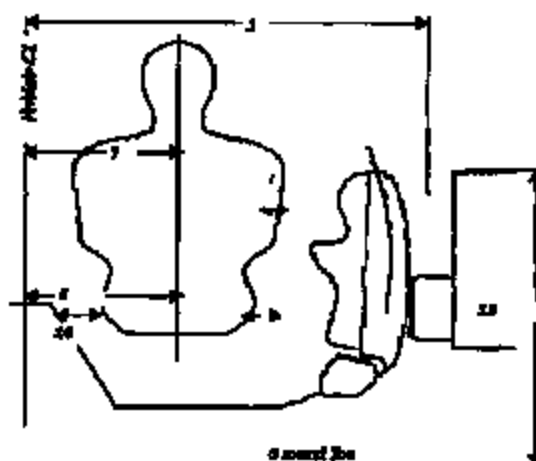
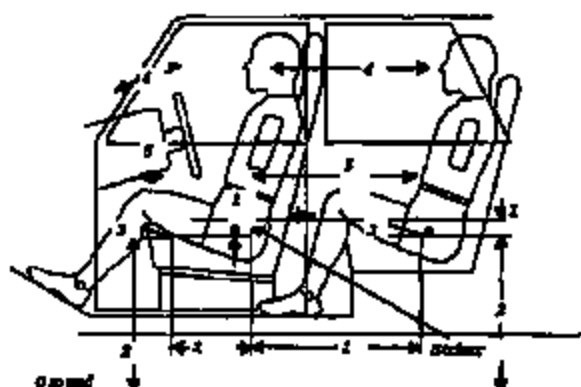
Vehicle Weight

Impact Velocity _____ MPH Barrier Lot # _____

LF RF
LR RRLF RF
LR RR
Total

Occupant/Vehicle Data		Front	Rear
Dummy Serial Number			
Seatback Angle - Barrier Measurement (DA)		50.9	
Dummy to interior/door H-point (+/- 0.6 inch required)		Vertical	
Above/Forward (+) Below/Rearward (-)		Longitudinal	
1. H-Point to Door Strike		Vertical	
Above/Forward (+) Below/Rearward (-)		Longitudinal	
2. H-Point to Ground (vertical)			
3. Pelvic Angle		4.9	
4. Nose to Upper Steering/Headrest (shortest)		24.9	
5. Abdomen to lower steering/seatback (horizontal)		15.0	
6. Pelvis centerline to Vehicle centerline (lateral)			
7. Chest centerline to Vehicle centerline (lateral)			
Seat centerline to Vehicle centerline (lateral) (DA)			
8. Chest to Beltline (lateral, shortest)		8.1	
9. Pelvis to H-Point (lateral)		6.1	
10. Pelvis to nearest inboard hard point (lateral)			
Left Wheel lip height (vertical to ground)			
Right Wheel lip height (vertical to ground)			
11. Vehicle centerline to barrier face (lateral)			
12. Barrier Top to Ground @ Pullback (Vertical)			
Impact Mark relative to Target		+ above/two - below/zero	

49



TEST AUTHORIZATION NUMBER: _____

CONTACTS:

name	phone	pager	prof
D. R. Purdy	32-90496	DPUR	DPURDY1
E. Meier	84-57542	EME1	EMEIER

TEST ENGINEER: _____

CRTS 0011045