

REPORT NO. FHWA/RD-84

DOT 741

IMPROVED PERFORMANCE OF
SMALL SIGN SUPPORTS



JUNE 1984

SIGN SUPPORT IMPACT TEST NO. 6

1981 VW RABBIT

This document is available to the public
through the National Technical Information
Service, Springfield, Virginia 22161

Prepared For

FEDERAL HIGHWAY ADMINISTRATION
OFFICE OF RESEARCH & DEVELOPMENT
WASHINGTON, D.C. 20590

1. Report No. FHWA/RD-84	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle Improved Performance of Small Sign Reports- Sign Support Impact Test. No.		5. Report Date June 1984	
		6. Performing Organization Code MSE	
7. Author(s) Lloyd E. Carlson, Mark Poindexter		8. Performing Organization Report No. R0131-SS6	
9. Performing Organization Name and Address MOBILITY SYSTEMS AND EQUIPMENT COMPANY 6151 West Century Boulevard, Suite 912 Los Angeles, California 90045		10. Work Unit No. (TRAIS)	
		11. Contract or Grant No. DTFH61-80-C-00170	
12. Sponsoring Agency Name and Address U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION 400 Seventh Street, S.W. Washington, D.C. 20590		13. Type of Report Final	
		14. Sponsoring Agency Code	
15. Supplementary Notes			
16. Abstract A 1981 VW Rabbit was impacted into a small sign support to acquire data to describe the vehicle's rigid body dynamics during this type of collision. The impact velocity was 60.17 mph. The vehicle was instrumented with 15 accelerometers. Two Part 572, 50th percentile male ATD's instrumented with 3 accelerometers in each head and chest, and a load cell in each femur were installed in the front seats. The sign post was made of two 3 lb/ft. 'U' shape steel posts bolted together back-to-back. Six strain gages were attached to the posts to measure forces within the posts. All test data were digitized, and a digital data tape was submitted to FHWA. The test was photographed with five (5) high speed cameras, and one (1) documentary. The test date was 29 May 1984.			
17. Key Words Small Sign Support Impact Test 1981 VW Rabbit Strain 60 mph Impact Acceleration HIC		18. Distribution Statement	
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No of Pages	22. Price

TABLE OF CONTENTS

SECTION

1	Introduction
2	Summary of Test Conditions
2.1	Test Article
2.2	Test Vehicle
2.3	Anthropomorphic Test Devices
3	Test Results
Appendix A	Photographic Coverage
Appendix B	Time History Data
Appendix C	Test Article Construction Detail
Appendix D	Vehicle Weight Data
Appendix E	Moving Average Data
Appendix F	Integral Data

FIGURES

1	Camera Locations
2	Time of Maximum 50 msec Average - X-Axis
3	Time of Maximum 50 msec Average - Y-Axis
4	Time of Maximum 50 msec Average - Z-Axis
5	Time of Maximum 10 msec Average - X-Axis
6	Time of Maximum 10 msec Average - Y-Axis
7	Time of Maximum 10 msec Average - Z-Axis

TABLES

1	Crash Test Summary
2	Summary of Camera Locations and Descriptions
3	Test Vehicle Information
4	Accelerometer Locations

TABLE OF CONTENTS (Cont'd)

TABLES

5	Part 572 ATD In-Vehicle Position Recording
6	Part 572 ATD In-Vehicle Position
7	Vehicle Crush Data
8	Summary of Vehicle Accelerometer Data
9	Part 572 ATD Data Summary
10	Occupant Response Comparison to FMVSS Requirements
11	Sign Post Strain Measurements
12	Moving Average Data - Vehicle C.G. Accelerations
13	Predicted Unrestrained Occupant Kinematics

SECTION 1

INTRODUCTION

A test was conducted as a part of Phase I of the Improved Performance of Small Sign Supports Program being conducted for the Federal Highway Administration (FHWA) under contract DTFH61-80-C-00170. Phase I of the project involves a series of crash tests to determine the rigid body dynamics of light weight cars when impacting a sign support at a velocity of nominally 60 miles per hour (96 kilometers per hour). This report is for Phase I, Impact No. 6. The test was conducted on 29 May 1984 with a VW Rabbit as the test vehicle.

SECTION 2

SUMMARY OF TEST CONDITIONS

Sign Support Impact Test No. 6 was conducted on 29 May 1984. A 1981 VW Rabbit was impacted into a ductile steel sign post. The impact location selected is 15 inches to the right of the vehicle centerline. Pretest and posttest photographs of the vehicle are presented in Appendix A. Thirty-five mm color transparencies (2 sets), and high speed and documentary movie films (2 prints) are submitted to FHWA under separate cover as part of this report.

Two fully instrumented Part 572, 50th percentile male anthropomorphic test devices (ATD's) were installed in the driver and right front passenger designated seating positions (DSP's). The driver ATD was restrained with the standard production 2-point lap and shoulder belt system. The passenger ATD was unrestrained.

The test event was photographed with one real-time camera, four ground level high-speed cameras, and one overhead high-speed camera. All cameras functioned properly. The camera location data are presented in Table 2 and Figure 1.

Thirty-one channels of data were recorded on three FM tape recorders. Six additional data channels were recorded on a digital data acquisition system. Time history plots of all recorded channels and appropriate resultants are presented in Appendix B.

TABLE 1 CRASH TEST SUMMARY

Project: Improved Performance of Small Sign Supports

Test: Phase 1 Sign Support Test No. 6 (Rigid Body Dynamics)

Date: 05-29-84 Time: 3:30 PM

Test Article: Two 3 lb/ft (4.5 kg/m) ductile steel U posts bolted
together back-to-back.

Vehicle: 1981 VW Rabbit

Inertial mass: 1844 lb (838 kg) Test mass: 2175 lb (988 kg)

Pre-impact speed: 60.17 mph (96.3 kph) Post-impact speed: *

Offset distance from vehicle centerline: 18 in (0.46 m)

Maximum crush: 28 7/8 in. (0.73 m) Rebound: NA

Damage: TAD: FR-4 CDC: 12FRAW6

Maximum deceleration (at c.g.): 13.39 g

Maximum 0.050 sec average deceleration (at c.g.): 10.40 g

Occupants:

Driver - Part 572 ATD, 3 point restraint

HIC: 35 Chest Acceleration (clipped): 10.8 g

Passenger - Part 572 ATD, unrestrained

HIC: 1201 Chest Acceleration (clipped): 45.6 g

Number of Data Channels: 37

Number of High Speed Cameras: 5

*Post-impact was not determined due to rotation of vehicle.

TABLE 2 SUMMARY OF CAMERA LOCATIONS AND DESCRIPTIONS

Location Number	Field of View	Lens Size	Frame Rate	Timing Speed	Mfg./Serial Number	Impact Dist-X	Center-line Dist-Y	Camera Height	Film Quality
1	Left Side	28 mm	728 fps	60 Hz	HIMAC 143	17 3/4	421	52 1/2	Good
2	Left Front	16 mm	500 fps	1000 Hz	PHOTO-SONICS 573	285 1/2	553 1/2	49	Good
3	Right Side	20 mm	706 fps	None	HIMAC 138	174 3/4	453	57	Good
4	Documentary	Zoom	24 fps	None	ARRIFLEX NR6837	248	712	57	Good
5		50 mm	731 fps	None	FASTAX 41650	-1488	-89 1/4	60 3/4	Good
6	Top	28 mm	582 fps	None	HIMAC 135	0	0	212	Good

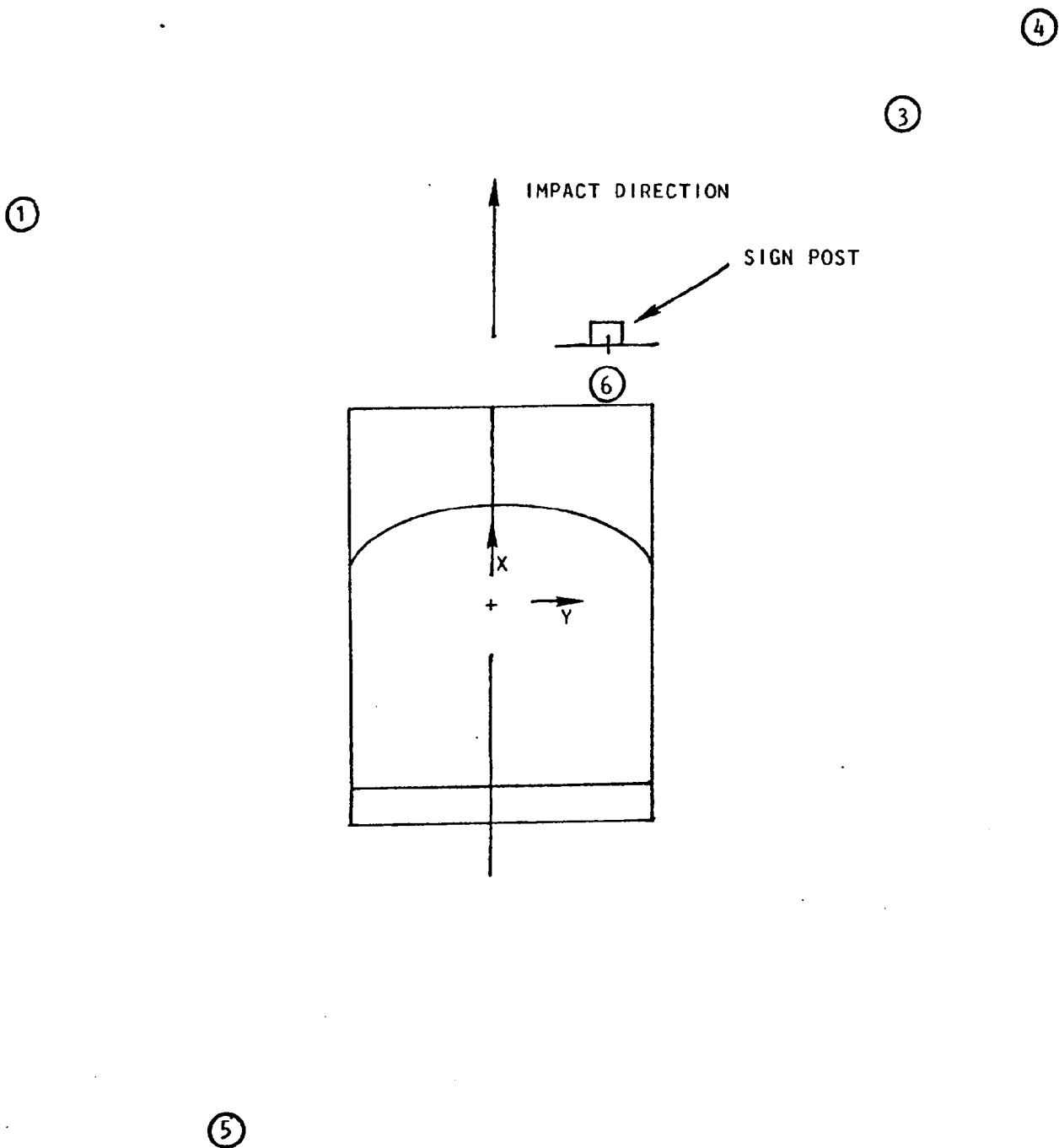


FIGURE 1 - CAMERA LOCATIONS

2.1 TEST ARTICLE

The test article consisted of a 14 foot (4.3 m) sign post with a 3 ft. x 4 ft. (0.9 m x 1.2 m) panel attached. The sign post was made by bolting two 3 lb/ft. (4.5 kg/m) U posts together, back-to-back. The posts were made from an ASTM A 607 steel. Bolts were spaced 4 inches (0.10 m) apart below ground level, and 16 inches (0.41 m) apart above ground level. The sign panel was made of 0.100 inch (2.5 mm) thick aluminum, and attached to the post with three bolts. The sign post was buried 48 inches (1.22 m) in a 5:1 sand-clay soil. Details of the sign post construction are presented in Appendix C.

Six type EA-06-250AF-120 resistance strain gages were bonded to the sign post, three on each U-post, 8 inches (0.20 m) above ground level. Details of the strain gage locations are presented in Appendix C. Plots of the strain gage data are included in Appendix B.

2.2 TEST VEHICLE

The test vehicle is a 1981 VW Rabbit, equipped with a 4-cylinder, 105 cubic inch engine, and a four speed manual transmission. Vehicle descriptive data are presented in Table 3. Components were removed from the car to achieve the required weight. The description of components removed is presented in Appendix D.

The sign post was positioned so that the car would impact it 15 inches to the right of the vehicle centerline. This point is at the right edge of the engine block.

Accelerometers were mounted on the vehicle at eleven locations. Details of the accelerometer locations are shown in Table 4.

TABLE 3 TEST VEHICLE INFORMATION

Vehicle Manufacturer: Volkswagen of America, Inc.
 Make/Model/Year: Volkswagen/Rabbit LS/1981
 Body Style: 2-Door Hatchback
 VIN: 1WCD9170BV044140 Build Date: 12/80
 Engine: 4 cylinder, 105 CID
 Transmission: 4 speed manual
 GVWR: 2,823 lb. (1,282 kg)
 GAWR: Front: 1,609 lb. (730 kg) Rear: 1,278 lb. (580 kg.)
 Tire Size: P155/80R13 Load Range: B
 Tire Pressure: Front: 26 psi (180 kPa) Rear: 26 psi (180 kPa)
 Date Received: 12/30/83 Color: Red

MASS OF VEHICLE AS RECEIVED: LBS.,(Kg.)

Left Front: 658 (299) Right Front: 605
 Left Rear: 361 (164) Right Rear: 346
 Total Front Mass: 1,263 (573) (64 % of total vehicle mass)
 Total Rear Mass: 707 (321) (36 % of total vehicle mass)
 Total Mass: 1,970 (894)

INERTIAL MASS OF VEHICLE: (see Appendix D) LBS.,(Kg.)

Left Front: 637 (289) Right Front: 602 (274)
 Left Rear: 292 (133) Right Rear: 313 (142)
 Total: 1,844 (838)

TEST MASS OF VEHICLE INCLUDING OCCUPANTS: LBS.,(Kg.)

Left Front: 758 (344) Right Front: 682 (310)
 Left Rear: 370 (168) Right Rear: 365 (166)
 Total Front Mass: 1,440 (654) (66 % of total vehicle mass)
 Total Rear Mass: 735 (334) (34 % of total vehicle mass)
 Total Test Mass: 2,175 (988)

VEHICLE ATTITUDE: in (m)

	Delivered	Test
LF	<u>24 (0.61)</u>	<u>23 3/8 (0.59)</u>
RF	<u>24 5/16 (0.62)</u>	<u>23 3/4 (0.60)</u>
LR	<u>24 3/16 (0.61)</u>	<u>24 1/8 (0.61)</u>
RR	<u>24 5/16 (0.62)</u>	<u>24 1/16 (0.61)</u>

TABLE 3 TEST VEHICLE INFORMATION (CONT'D.)

VEHICLE DIMENSIONS: in (m)

Length: 148 3/4 (3.78)

Width: 64 (1.63)

Wheelbase: 94 3/8 (2.40)

Track: Front: 55 (1.40) Rear: 53 5/8 (1.36)

CENTER OF GRAVITY LOCATION: in (m)

33 3/4 (0.86) behind the front axle

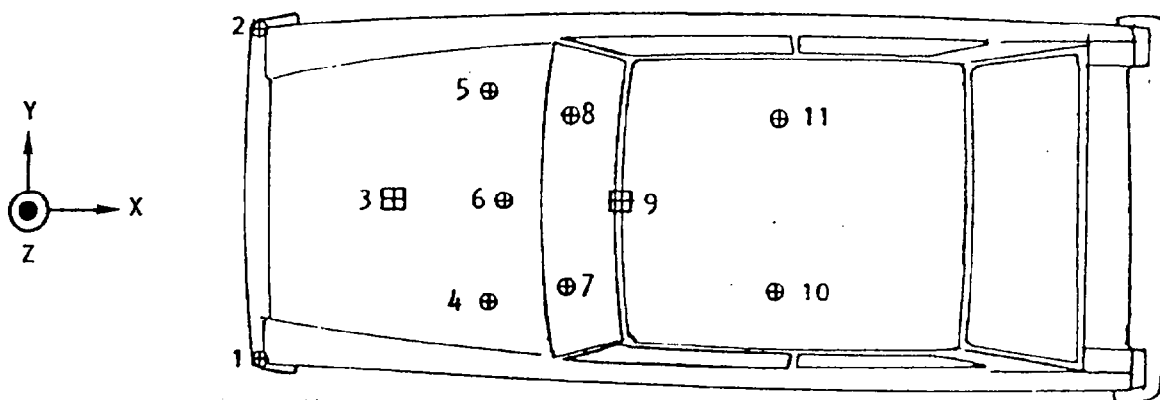
1 1/4 (0.03) to the left of the centerline

20.75 (0.53) above ground

TABLE 4 ACCELEROMETER LOCATIONS

Vehicle: 1981 VW Rabbit Test Date: 29 May 1984

No.	Location	X Distance From Front of Bumper		Y Distance From Centerline		Z Distance Above Ground	
		Inches	(M)	Inches	(M)	Inches	(M)
1	Left Bumper	3/4	(0.02)	+25 1/8	(+0.64)	17 3/4	(0.45)
2	Right Bumper	3/4	(0.02)	+25	(+0.64)	17 1/4	(0.44)
3	Engine	27 1/2	(0.70)	- 2 1/2	(-0.06)	27 1/2	(0.70)
4	Left Front Crossmember	45 1/8	(1.15)	-18	(-0.46)	7 1/2	(0.19)
5	Right Front Crossmember	45 1/8	(1.15)	+19 1/4	(+0.49)	8	(0.20)
6	Firewall	41	(1.04)	+14 1/2	(+0.37)	23 1/4	(0.59)
7	Left Front Floor	60 5/8	(1.54)	-14 1/4	(-0.36)	8 3/4	(0.22)
8	Right Front Floor	62 5/8	(1.59)	+11 3/4	(+0.30)	8 3/4	(0.22)
9	Vehicle c.g.	56 5/8	(1.44)	0	(0.00)	14	(0.36)
10	Left Rear Floor	96 7/8	(2.46)	-20	(-0.51)	10 3/8	(0.26)
11	Right Rear Floor	96 7/8	(2.46)	+13 1/4	(0.37)	14 3/8	(0.37)



⊙ - Single Axis

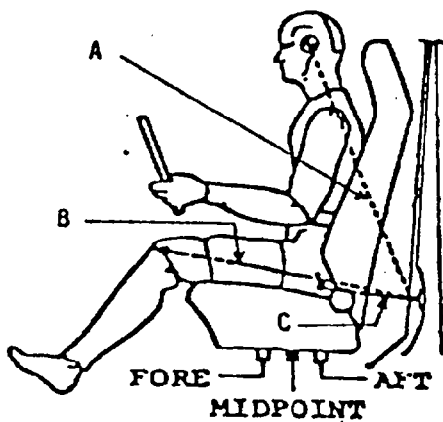
⊠ - Triaxial

2.3 ANTHROPOMORPHIC TEST DEVICES

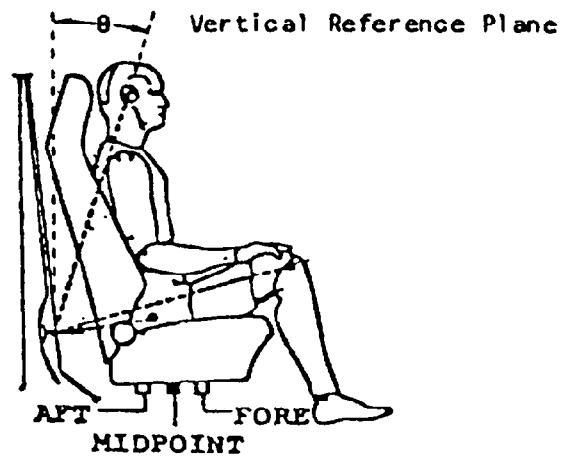
The positioning data for the two 50th percentile male ATD's in the front seats of the test vehicle is presented in Tables 5 and 6. The driver ATD was restrained with the 2-point belt system. The passenger ATD was unrestrained. Each ATD had three accelerometers mounted on a triaxial block in both the head and chest. They also had femur load cells installed in their legs.

TABLE 5 PART 572 ATD IN-VEHICLE POSITION RECORDING

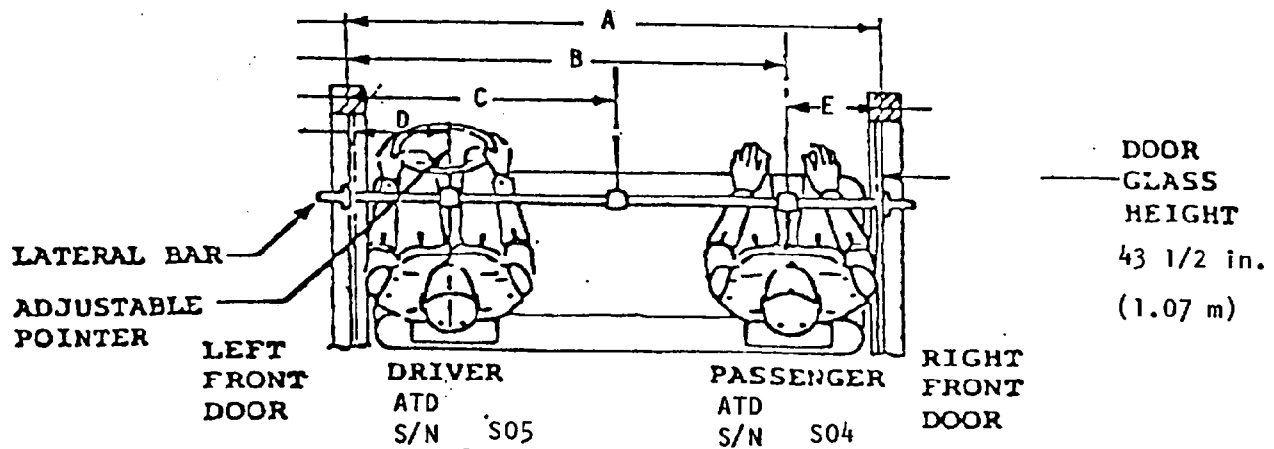
DRIVER ATD



PASSENGER ATD

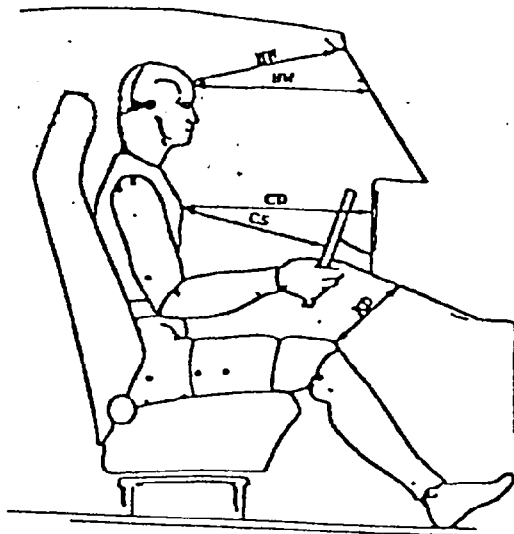


DIMENSION	IN.	(M)	θ	DIMENSION	IN.	(M)	θ
A	17 3/4	0.45	33°	A	16 11/16	0.42	33°
B	31 3/16	0.79	104°	B	32	0.81	100°
C	18 3/8	0.47	123°	C	16 1/4	0.41	125°
TORSO ANGLE = -26°				TORSO ANGLE = -27°			
SEAT BACK ANGLE = -28°				SEAT BACK ANGLE = -27°			
ALL ANGLES ARE RELATIVE TO THE VERTICAL PLANE.							

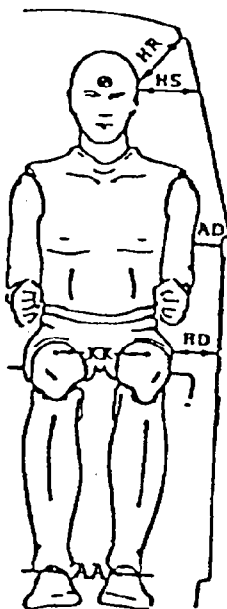


A = 49 3/8 (1.25)
B = 37 11/16 (0.96)
C = 24 11/16 (0.63)
D = 11 3/4 (0.30)
E = 11 11/16 (0.30)

TABLE 6 PART 572 ATD IN-VEHICLE POSITION



	DRIVER INCHES (M)	PASSENGER INCHES (M)
HH	17 11/16 (0.45)	18 1/4 (0.46)
HW	23 1/2 (0.60)	24 (0.61)
CD	21 1/4 (0.54)	20 9/16 (0.52)
CS	12 5/16 (0.31)	-----
KD L	4 15/16 (0.13)	3 13/16 (0.10)
KD R	3 7/8 (0.10)	3 3/4 (0.10)



	DRIVER INCHES (M)	PASSENGER INCHES (M)
HR	7 7/8 (0.20)	8 3/4 (0.22)
HS	8 5/8 (0.22)	8 3/4 (0.22)
AD	3 1/8 (0.08)	3 1/2 (0.09)
HD	5 3/4 (0.15)	6 1/2 (0.17)
KK	14 1/2 (0.37)	11 1/4 (0.29)
AA	13 1/4 (0.34)	8 7/8 (0.23)

HH = Head to Windshield Header
 HW = Head to Windshield
 CD = Chest to Dash
 CS = Chest to Steering Wheel
 KD = Knees to Dash
 HR = Head to Side Roof
 HS = Head to Side Window
 AD = Arm to Door
 HD = Hip to Door
 KK = Knee to Knee

SECTION 3

TEST RESULTS

The vehicle impact velocity was 60.17 mph (96.3 kph). It impacted the sign post 3 inches (0.08 m) to the right of the selected impact point, 15 inches (0.38 m) to the right of the vehicle centerline. The sign post wrapped around the front end of the car and pulled it down so that the left rear wheel was lifted off the ground approximately 12 inches (0.30 m). The car rotated at least 90° to the left before the left rear wheel came down. Before the left rear wheel came down, both of the right wheels lifted off the ground. The car continued to rotate, turning more than 300° before coming to a stop. The right side of the bumper was pulled down to ground level. The hood and right front quarter panel sustained major deformations including two holes in the hood. Crush measurements for the vehicle front bumper are presented in Table 7. A summary of accelerometer data is presented in Table 8. Plots of the vehicle accelerometer data are included in Appendix B.

The driver ATD did not appear to contact anything in the car. The driver ATD's shoulder belt fastener was located on the car door. His belt was fastened and adjusted with the door closed after the pre-test photographs were taken. The belt became unfastened sometime after the impact. There did not appear to be any damage to any components of the belt system. The passenger ATD traveled forward after the impact hitting the windshield header with his head and pushed the upper right corner of the windshield out of the rubber moulding. The passenger's knees both hit the dash panel. A summary of data from the ATD transducers is presented in Table 9. Plots of all ATD data are included in Appendix B. Additional occupant response data for the ATD's is presented in Table 10.

The sign post remained planted in the ground after the impact. After unwrapping it from the front of the car, the portion of the sign post above ground level was straight and nearly parallel to the ground.

All of the bolts above ground level and the upper four bolts below ground level were sheared. All of the other bolts remained intact. The sign panel was stripped from the post by the car.

Maximum strains measured on the post 8 inches (0.20 m) above ground level are presented in Table 11. Plots of all strain gage data are included in Appendix B. Strain gage locations on the post are illustrated in Appendix C.

Ten msec moving averages were calculated for the accelerations measured at the vehicle c.g. Fifty msec moving averages of these same data channels filtered to SAE J211 (b) Class 60 were also calculated. A summary of the average data is presented in Table 12. The maximum values of the averages and the times of occurrence are shown in Figures 4 through 9. Listings of these moving averages are included in Appendix E.

The predicted unrestrained kinematic data are presented in Table 13. For the VW Rabbit the distance that the unrestrained occupant (passenger ATD) was free to travel (see Table 6) was:

x direction = 18 1/4 inches (0.46 m)

y direction = 8 3/4 inches (0.22 m)

As the data shows, the A_y and V_y are noncritical since the occupant moves less than 8.75 inches (0.22 m) laterally. The free body displacement in the longitudinal direction 18.25 inches (0.46 m) is achieved at 130 msec. The corresponding velocity is 29.72 ft/sec (9.1 m/sec). The maximum acceleration is 6.36 g which is well below the 20 g value published in NCHRP Report 230, Page 30.

TABLE 7 VEHICLE CRUSH DATA

Maximum crush of 26 7/8 in. (0.68 m) occurred 26 7/8 in. (0.68 m)
to the right of the centerline.

Vehicle Rebound: NA

Vehicle Speed: (measured 410 in. (10.41 m) from impact)

Trap No. 1: 60.17 mph (96.3 kph)

Trap No. 2: 60.17 mph (96.3 kph)

DAMAGE DIMENSIONS, in. (m):

	<u>Pre-Impact</u>		<u>Post-Impact</u>		<u>Change</u>	
	in. (m)		in. (m)		in. (m)	
Left Side C ₁	<u>147 13/16</u>	<u>(3.75)</u>	<u>151 3/8</u>	<u>(3.84)</u>	<u>+ 3 9/16</u>	<u>(+0.09)</u>
C ₂	<u>148 5/16</u>	<u>(3.77)</u>	<u>147 1/8</u>	<u>(3.74)</u>	<u>- 1 3/16</u>	<u>(-0.03)</u>
C ₃	<u>148 7/8</u>	<u>(3.78)</u>	<u>142 3/4</u>	<u>(3.63)</u>	<u>- 6 1/8</u>	<u>(-0.16)</u>
C ₄	<u>148 7/8</u>	<u>(3.78)</u>	<u>138 1/4</u>	<u>(3.51)</u>	<u>-10 5/8</u>	<u>(-0.27)</u>
C ₅	<u>148 11/16</u>	<u>(3.78)</u>	<u>130 3/8</u>	<u>(3.31)</u>	<u>-18 5/16</u>	<u>(-0.47)</u>
Right Side C ₆	<u>148 1/4</u>	<u>(3.77)</u>	<u>121 3/8</u>	<u>(3.08)</u>	<u>-26 7/8</u>	<u>(-0.68)</u>

Width of Contact: 53 3/4 (1.37)

TABLE 8 SUMMARY OF VEHICLE ACCELEROMETER DATA

LOCATION	AXIS	NEGATIVE DIRECTION		POSITIVE DIRECTION	
		PEAK (G's)	TIME (MSEC)	PEAK (G's)	TIME (MSEC)
(SAE CLASS 60 FILTER)					
Left Bumper	X	133	46	117	25
Right Bumper	X	143	50	111	2
Engine	X	34	18	12	42
Engine	Y	10	7	19	137
Engine	Z	10	33	10	92
Engine	Res.	—	—	35	18
L.F. Crossmember	X	11	63	2	160
R.F. Crossmember	X	31	99	16	78
Firewall	X	53	2	26	5
L.F. Floor	X	12	108	4	159
R.F. Floor	X	15	62	2	163
Vehicle c.g.	X	13	108	3	160
	Y	3	56	8	117
	Z	11	132	10	62
	Res.	—	—	16	109
Vehicle c.g. (.50 ms average)	X	10.4	62	Never	Positive
	Y	0.6	9	2.7	100
L.R. Floor	X	12	52	5	161
R.R. Floor	X	16	63	7	164
(SAE CLASS 180 FILTER)					
Vehicle c.g. (10 ms average)	X	11.8	82	2.2	155
	Y	2.4	177	6.1	111

TABLE 9 PART 572 ATD DATA SUMMARY

Test Vehicle: 1981 VW Rabbit	Driver ATD				Passenger ATD			
	Positive Direction*		Negative Direction**		Positive Direction*		Negative Direction**	
	Peak (G)	Time (msec)	Peak (G)	Time (msec)	Peak (G)	Time (msec)	Peak (G)	Time (msec)
Head Acceleration Longitudinal	2	376	9	154	11	189	132	166
Lateral	1	64	5	172	11	168	20	162
Vertical	11	147	0	25	66	163	11	178
Resultant	14	148	—	—	133	166	—	—
HIC	35 BWTN 97 AND 209 MSEC				1201 BTWN 161 AND 171 MSEC			
Chest Acceleration Longitudinal	3	312	10	116	25	184	47	164
Lateral	2	210	7	162	26	178	32	183
Vertical	3	142	2	110	22	120	6	147
Resultant (Max)	11	144	—	—	48	164	—	—
Resultant (Clip)	10.8	—	—	—	45.6	—	—	—
	Peak 1b	(N)	Time (msec)		Peak 1b	(N)	Time (msec)	
Femur Loads Left	444	1980	127		675	3010	101	
Femur Loads Right	487	2172	118		836	3728	99	
Vehicle Impact Speed mph (Kph): 60.17 (96.3)								
* Longitudinal: Forward Lateral: Rightward Vertical: Downward					**Longitudinal: Rearward Lateral: Leftward Vertical: Upward			

TABLE 10 OCCUPANT RESPONSE DATA

OCCUPANT RESPONSE COMPARISON TO FMVSS REQUIREMENTS 05/29/84

<u>VEHICLE</u>	<u>OCCUPANT</u>	<u>HIC</u>				<u>*COMP. MARG.</u>
		<u>HIC</u>	<u>T1</u>	<u>T2</u>	<u>T2-T1</u>	
1981 VW Rabbit	Driver	35.33	97.13	209.13	112.00	0.04
1981 VW Rabbit	Passenger	1201.44	161.13	171.25	10.12	1.20

CHEST RESULTANT ACCELERATION, 3 MSEC CLIPPED PEAK

<u>VEHICLE</u>	<u>OCCUPANT</u>	<u>REQUIREMENT</u>	<u>RESPONSE</u>	<u>*COMP. MARG.</u>
1981 VW Rabbit	Driver	60.0	10.8	0.18
1981 VW Rabbit	Passenger	60.0	45.6	0.76

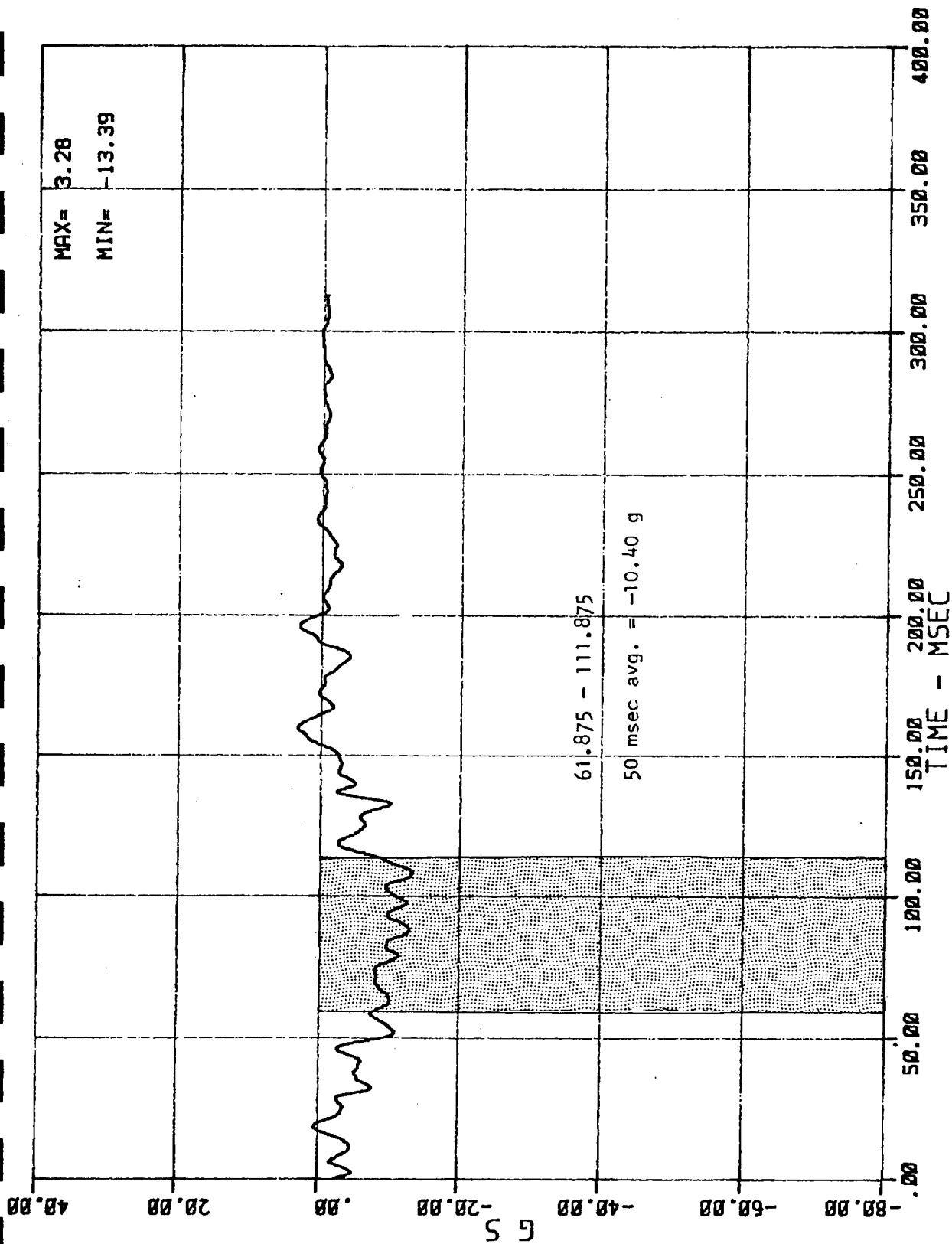
*Values Greater Than 1 Represent Non-Compliance.

TABLE 11 SIGN POST STRAIN MEASUREMENTS

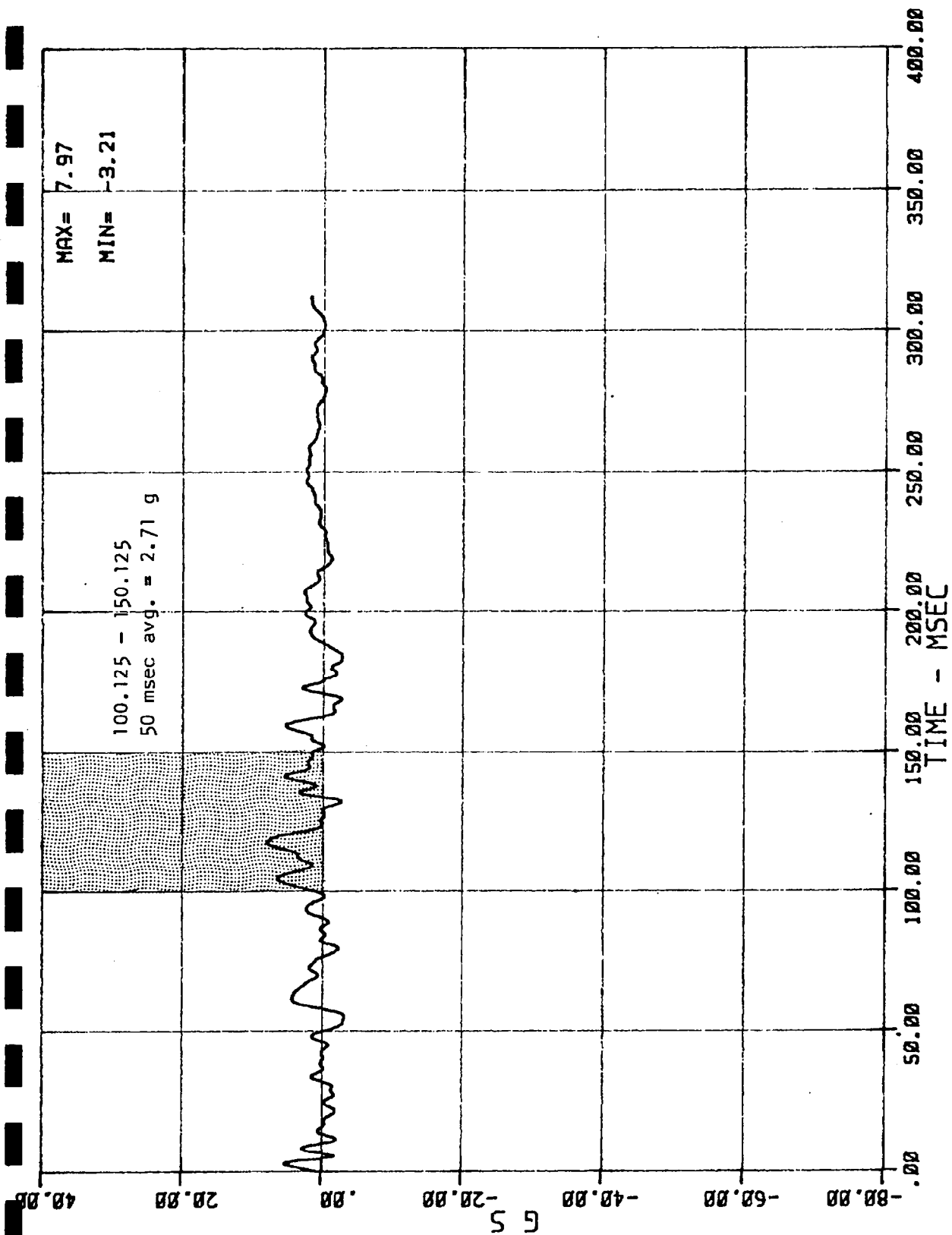
Gage No.	Gage Location	Maximum Strain Level (μ inch/inch)
1	Front Post, Right Flange	3003
2	Front Post, Webbing	-1593
3	Front Post, Left Flange	-5443
4	Rear Post, Right Flange	-8961
5	Rear Post, Webbing	14027
6	Rear Post, Left Flange	2596

TABLE 12 MOVING AVERAGE DATA - VEHICLE C.G. ACCELERATIONS

Vehicle C.G. Acceleration Axis	Moving Average Time (msec)	Maximum Value (g)	Time Of Occurance (msec)
X	50	-10.40	61.875 - 111.875
X	10	-11.77	81.875 - 91.875
Y	50	2.71	100.125 - 150.125
Y	10	6.10	111.00 - 121.00
Z	50	- 5.08	104.00 - 154.00
Z	10	- 9.72	124.75 - 134.75

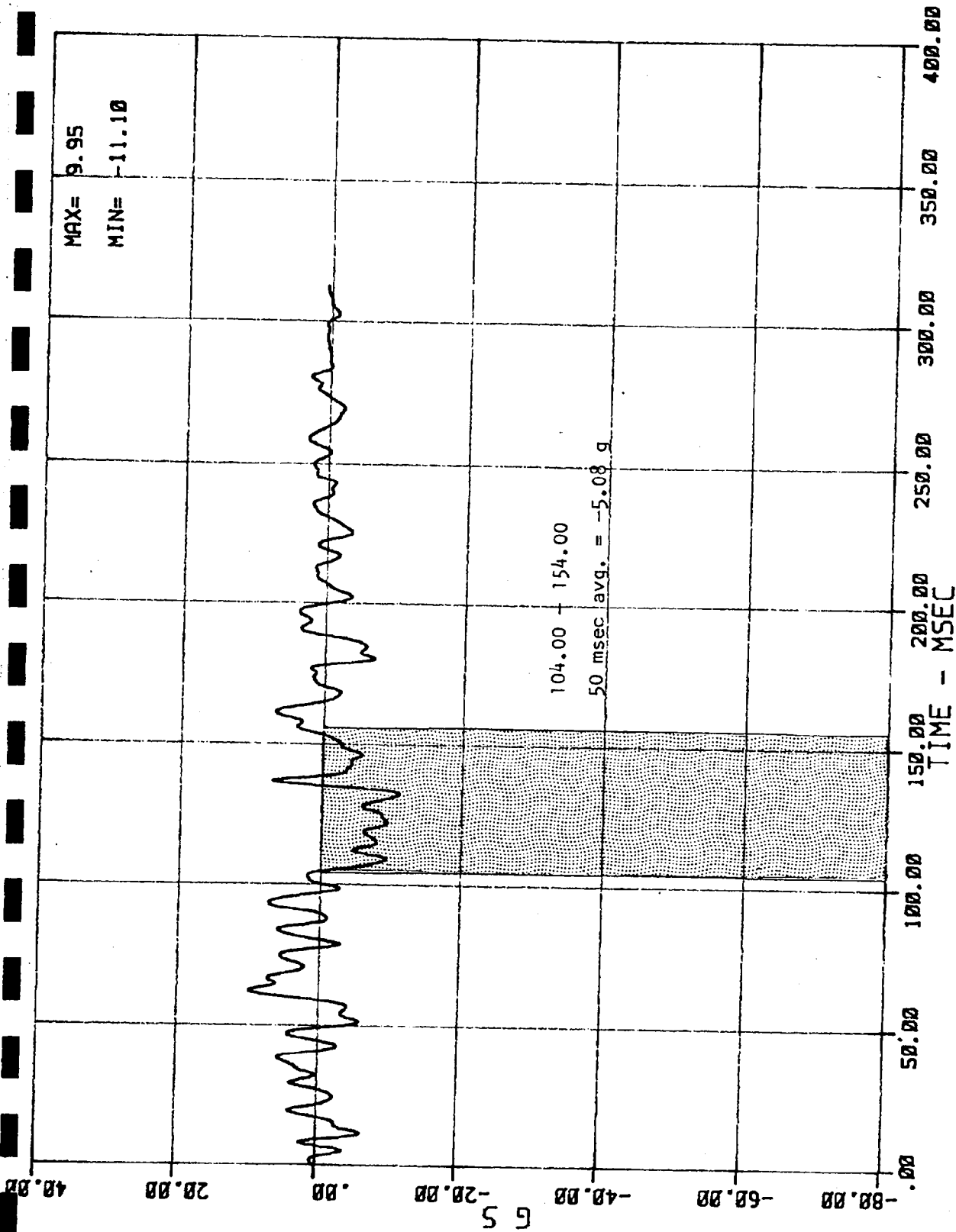


23 AC 01 N VEG X (VEHICLE CG ACCEL. -- X AXIS) CLASS 60 FILTER
MSE F08064 1981 VV RABBIT 05/29/84
FIGURE 2 - TIME OF MAXIMUM 50 MSEC AVERAGE — X AXIS



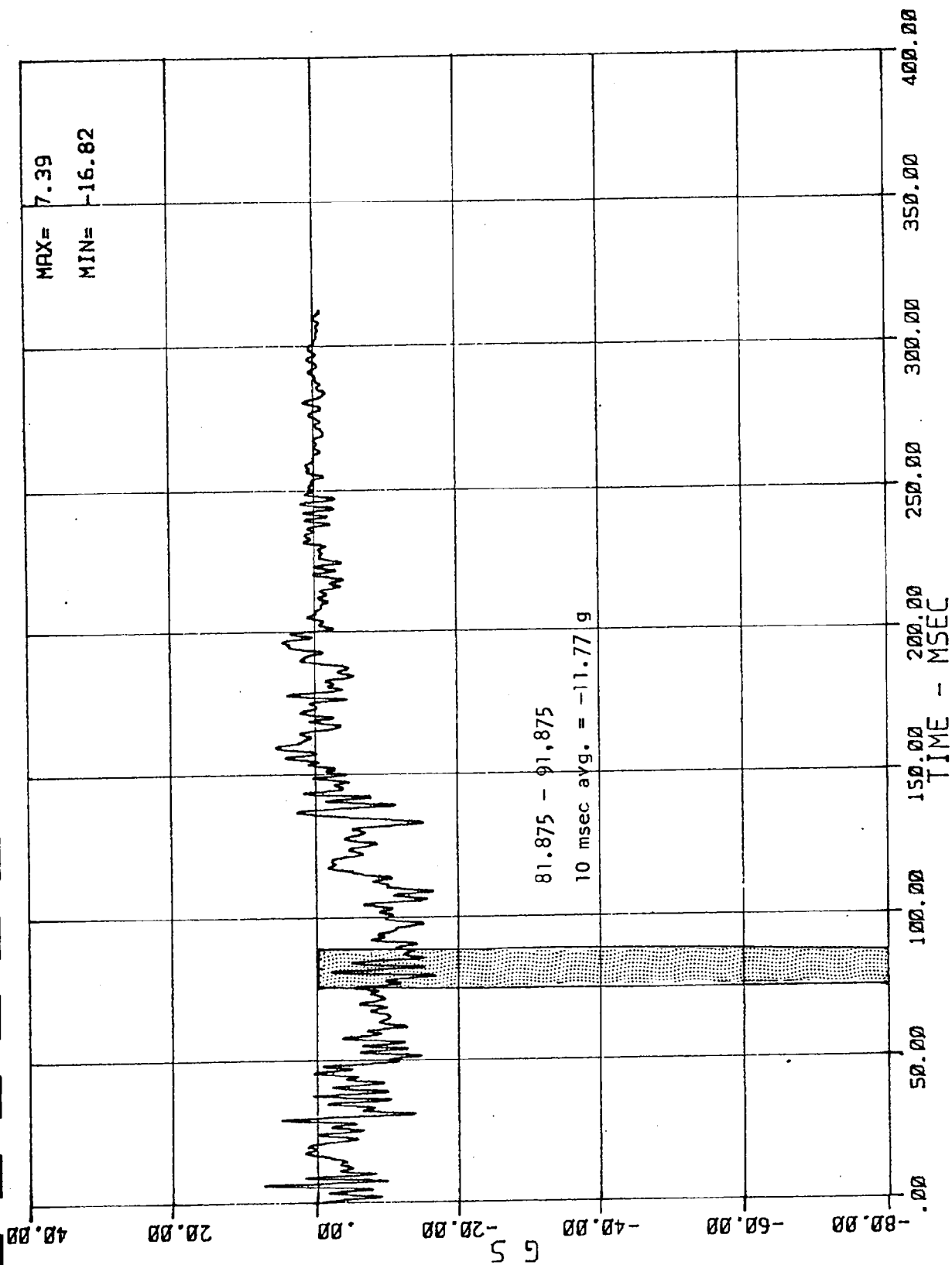
24 AC 01 N VCG Y (VEHICLE CG ACCEL. -- Y AXIS) CLASS 60 FILTER
MSE F08064 1981 VW RABBIT 05/29/84

FIGURE 3 - TIME OF MAXIMUM 50 MSEC AVERAGE -- Y AXIS



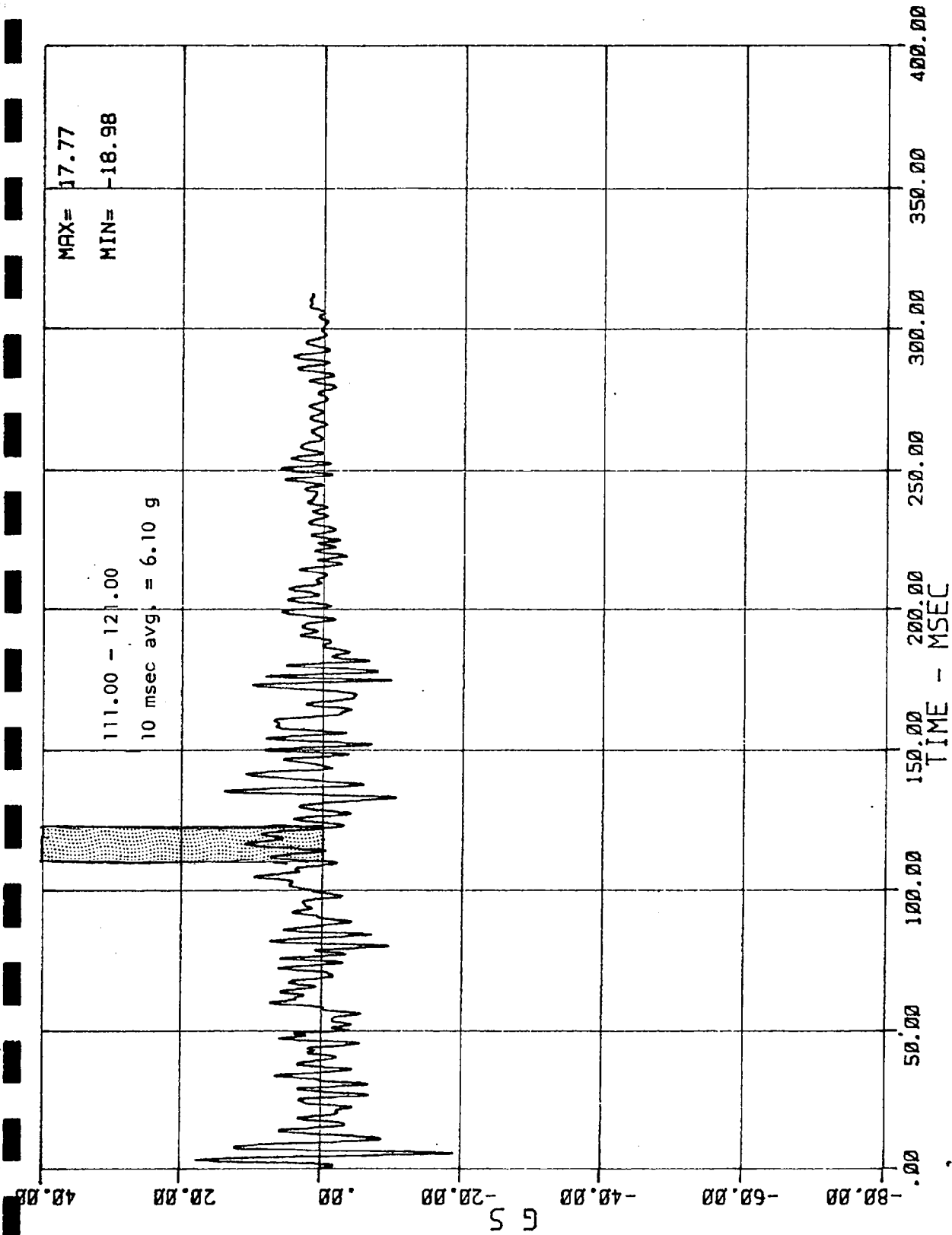
25 AC 01 N VCG Z (VEHICLE CG ACCEL. -- Z AXIS) CLASS 60 FILTER
MSE F08064 1981 VW RABBIT 05/29/84

FIGURE 4 - TIME OF MAXIMUM 50 MSEC AVERAGE -- Z AXIS



23 AC 01 N VCG X (VEHICLE CG ACCEL. -- X AXIS) CLASS 180 FILTER
MSE F08064 1981 VW RABBIT 05/29/84

FIGURE 5 - TIME OF MAXIMUM 10 MSEC AVERAGE — X AXIS



24 AC 01 N VCG Y (VEHICLE CG ACCEL. -- Y AXIS) CLASS 180 FILTER
MSE F08064 1981 VW RABBIT 05/29/84

FIGURE 6 - TIME OF MAXIMUM 10 MSEC AVERAGE -- Y AXIS

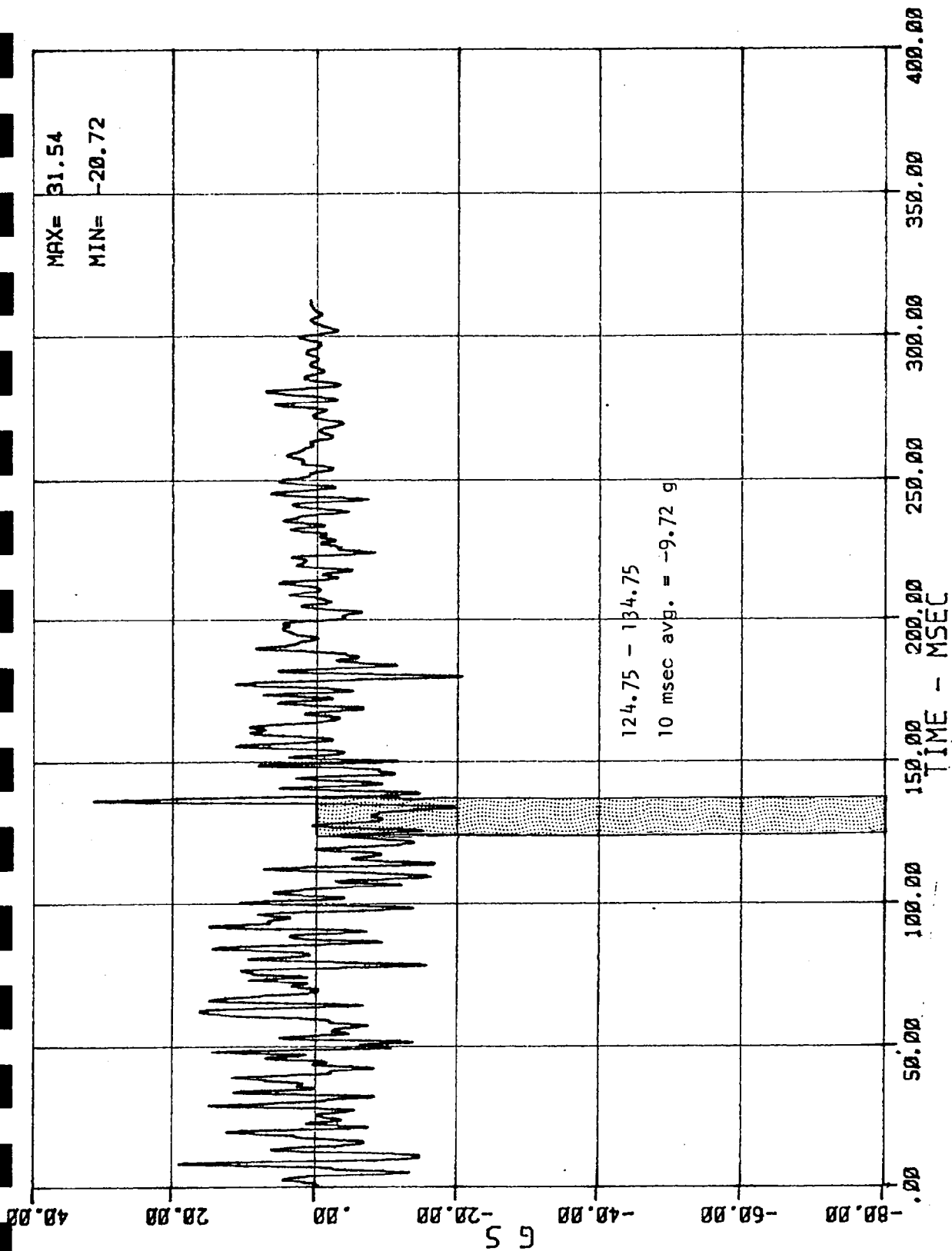


FIGURE 7 - TIME OF MAXIMUM 10 MSEC AVERAGE -- Z AXIS

TABLE 13 PREDICTED UNRESTRAINED OCCUPANT KINEMATICS

Time (msec)	Accel. g's		Vel. (fps)		Disp. (in.)	
	Long.	Lat.	Long.	Lat.	Long.	Lat.
0	- 3.40	2.54	0.00	0.00	0.00	0.00
5	- 3.12	-0.60	0.82	0.75	0.02	0.02
10	- 2.20	-1.06	1.13	0.80	0.08	0.04
15	- 1.24	-0.94	1.81	0.61	0.17	0.07
20	- 2.28	-1.07	1.80	0.47	0.28	0.10
25	- 4.82	-0.36	2.22	0.31	0.40	0.12
30	- 6.70	-0.06	2.55	0.11	0.55	0.13
35	- 5.63	-0.23	3.76	0.18	0.75	0.13
40	- 4.78	0.37	4.70	0.11	1.00	0.14
45	- 7.30	-0.97	5.57	0.10	1.31	0.14
50	- 9.15	-1.79	6.27	0.22	1.66	0.15
55	- 8.82	1.69	7.93	-0.20	2.09	0.15
60	- 9.19	2.99	9.20	-0.32	2.60	0.12
65	- 8.40	1.35	10.79	0.36	3.20	0.12
70	- 9.48	0.55	12.15	0.61	3.90	0.16
75	- 9.65	-0.68	13.47	0.78	4.67	0.20
80	-10.70	-0.77	15.24	0.77	5.52	0.25
85	-11.51	0.91	16.59	0.54	6.48	0.29
90	-11.13	1.08	18.67	0.54	7.54	0.33
95	-10.68	2.56	20.30	0.87	8.71	0.37
100	-11.42	3.89	22.24	0.90	9.99	0.43
105	-11.41	3.05	23.73	1.72	11.37	0.50
110	- 6.19	5.52	25.91	2.14	12.86	0.62
115	- 4.15	4.63	27.39	2.68	14.46	0.77
120	- 5.69	0.94	27.87	3.96	16.12	0.97
125	- 7.82	-0.48	28.73	4.17	17.82	1.22
130	- 6.36	0.17	29.72	4.24	19.58	1.47
135	- 3.05	2.95	31.23	4.06	21.40	1.71
140	- 2.80	3.08	31.75	4.30	23.28	1.97
145	- 1.95	1.82	32.21	4.95	25.20	2.26
150	0.81	2.20	32.65	5.30	27.15	2.57

-1 ft/sec = 0.30 m/sec

-1 in= 0.025 m

* 10 msec Average

APPENDIX A
PHOTOGRAPHIC COVERAGE

APPENDIX A

SMALL SIGN SUPPORT TEST, PHASE L, SIGN SUPPORT IMPACT TEST NO. 6

This appendix contains photographs of the test vehicle and test article.

- Figure A1 - Sign Post - Pretest
- Figure A2 - Full Right Side View - Pretest
- Figure A3 - Right Front 3/4 View - Pretest
- Figure A4 - Impact Location Overhead View - Pretest
- Figure A5 - Driver ATD Position - Pretest
- Figure A6 - Passenger ATD Position - Pretest
- Figure A7 - Sign Post Pieces - Posttest
- Figure A8 - Right Front 3/4 - Posttest
- Figure A9 - Full Right Side View - Posttest
- Figure A10 - Overhead View - Posttest
- Figure A11 - Front View - Posttest
- Figure A12 - Driver ATD Position - Posttest
- Figure A13 - Passenger ATD Position - Posttest

The following is a list of 35 mm color transparencies that have been submitted to FHWA under separate cover as part of this report:

Pretest:

Right Front 3/4 View
Full Right Side View
Full Front View
Right Rear 3/4 View
Bumper and Sign Post, Side View
Bumper and Sign Post, Top View
Driver ATD
Passenger ATD

Posttest:

Full Right Side View
Front Right 3/4 View
Full Front View
Top View
Overall Rear View
Sign Post
Driver ATD
Passenger ATD

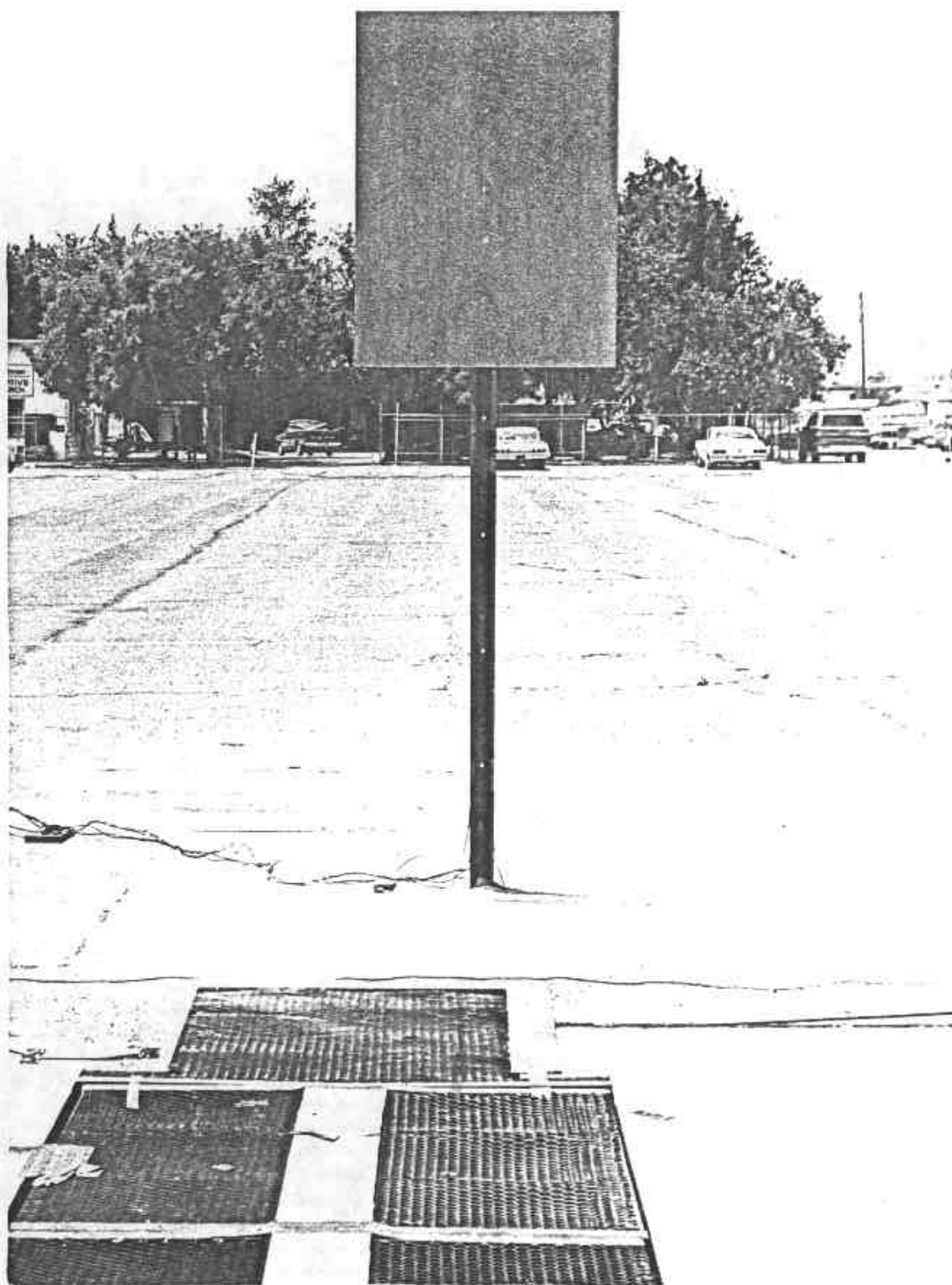


FIGURE A1 - SIGN POST - PRETEST

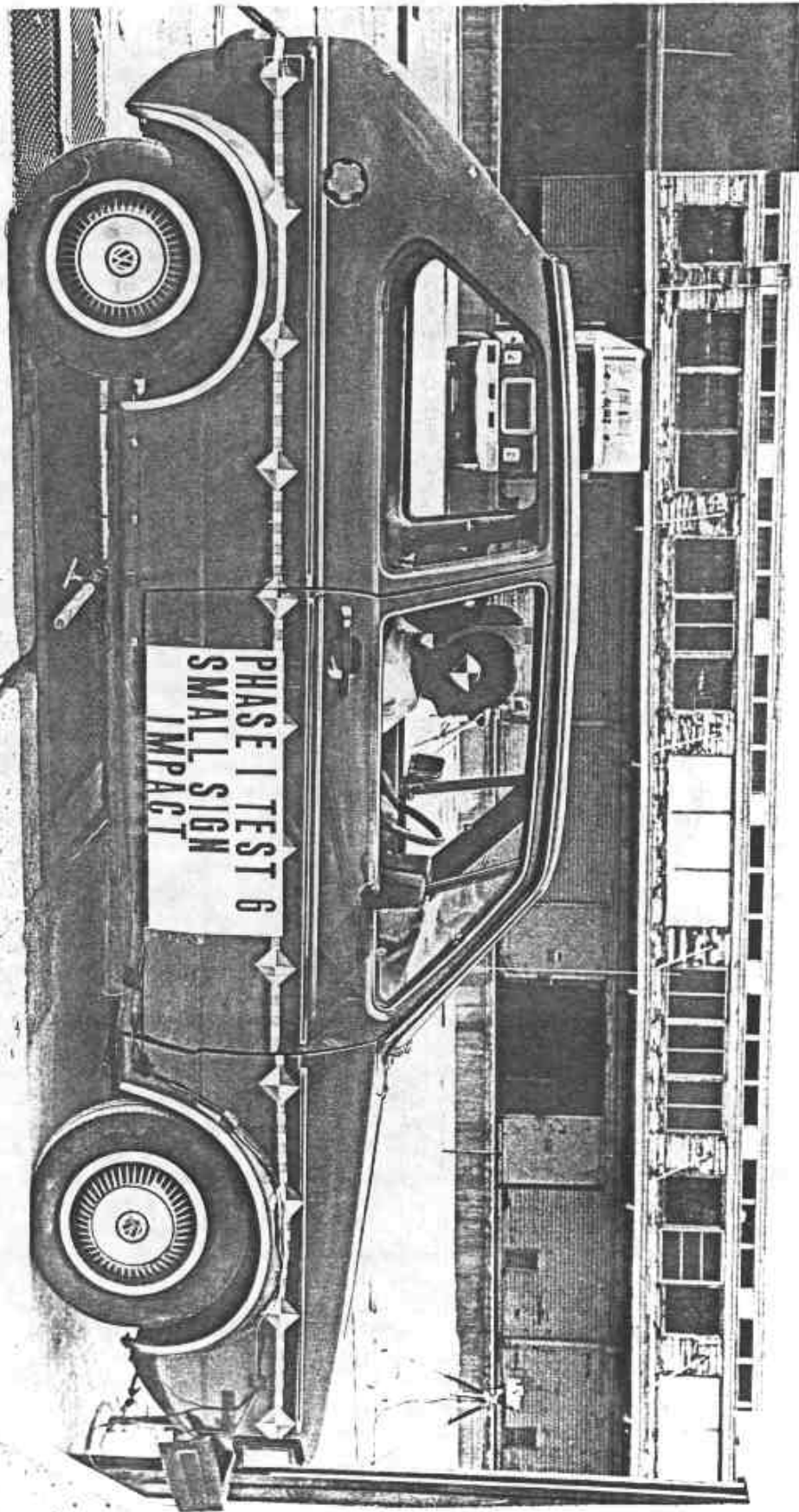


FIGURE A2 - FULL RIGHT SIDE VIEW - PRETEST

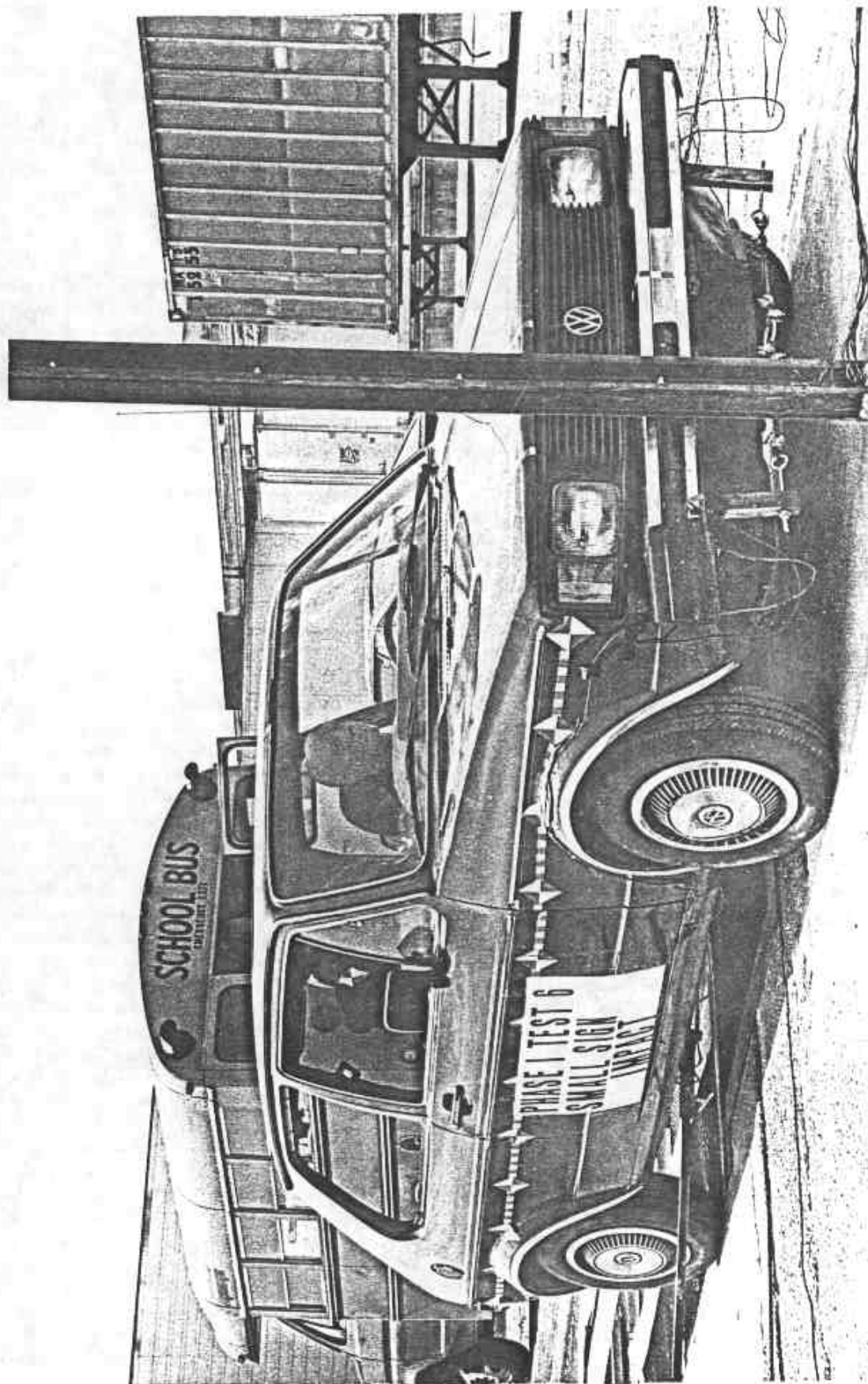


FIGURE A3 - RIGHT FRONT 3/4 VIEW - PRETEST

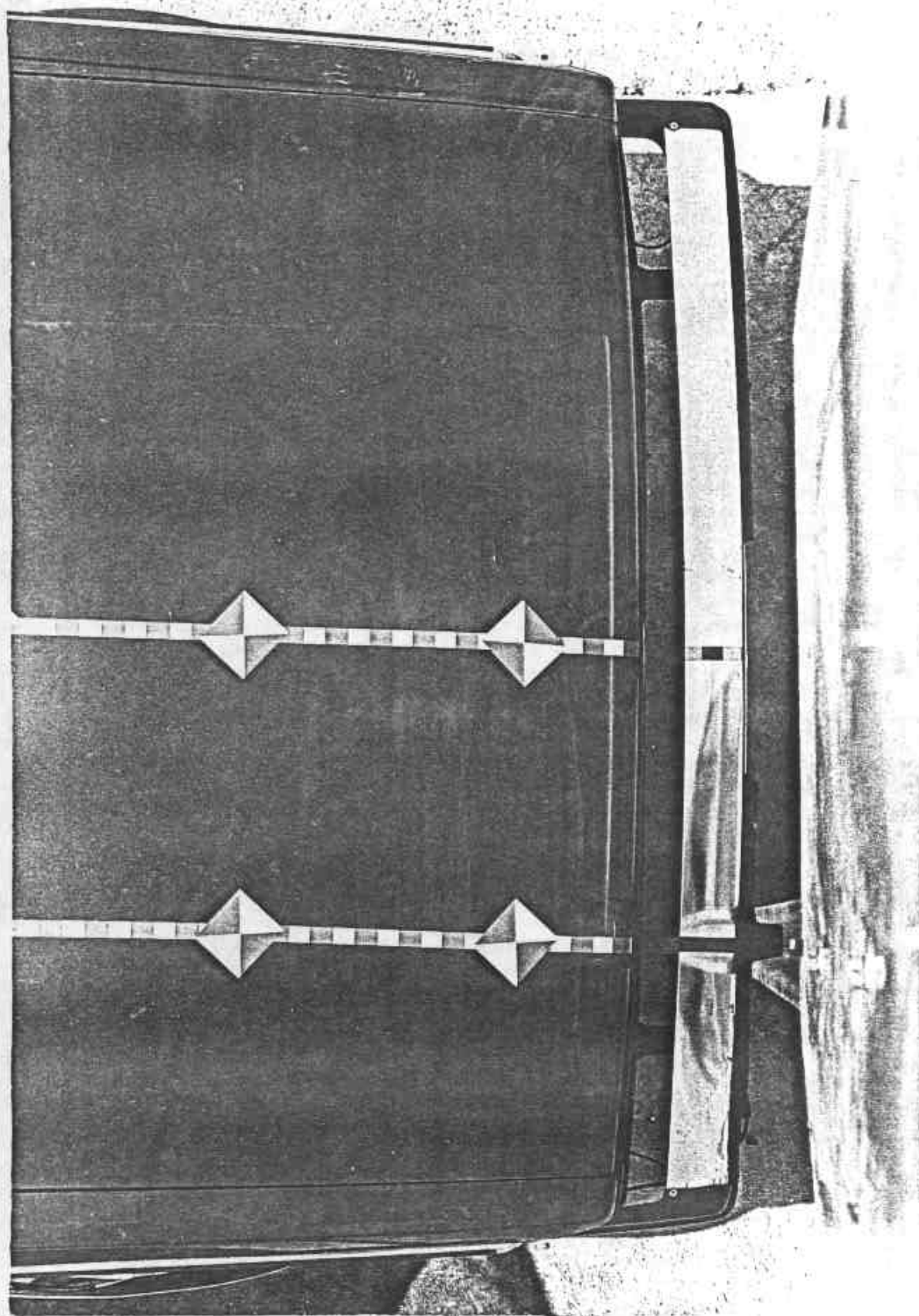


FIGURE A4 - IMPACT LOCATION OVERHEAD VIEW - PRETEST



FIGURE A5 - DRIVER ATD POSITION - PRETEST



FIGURE A6 - PASSENGER ATD POSITION - PRETEST

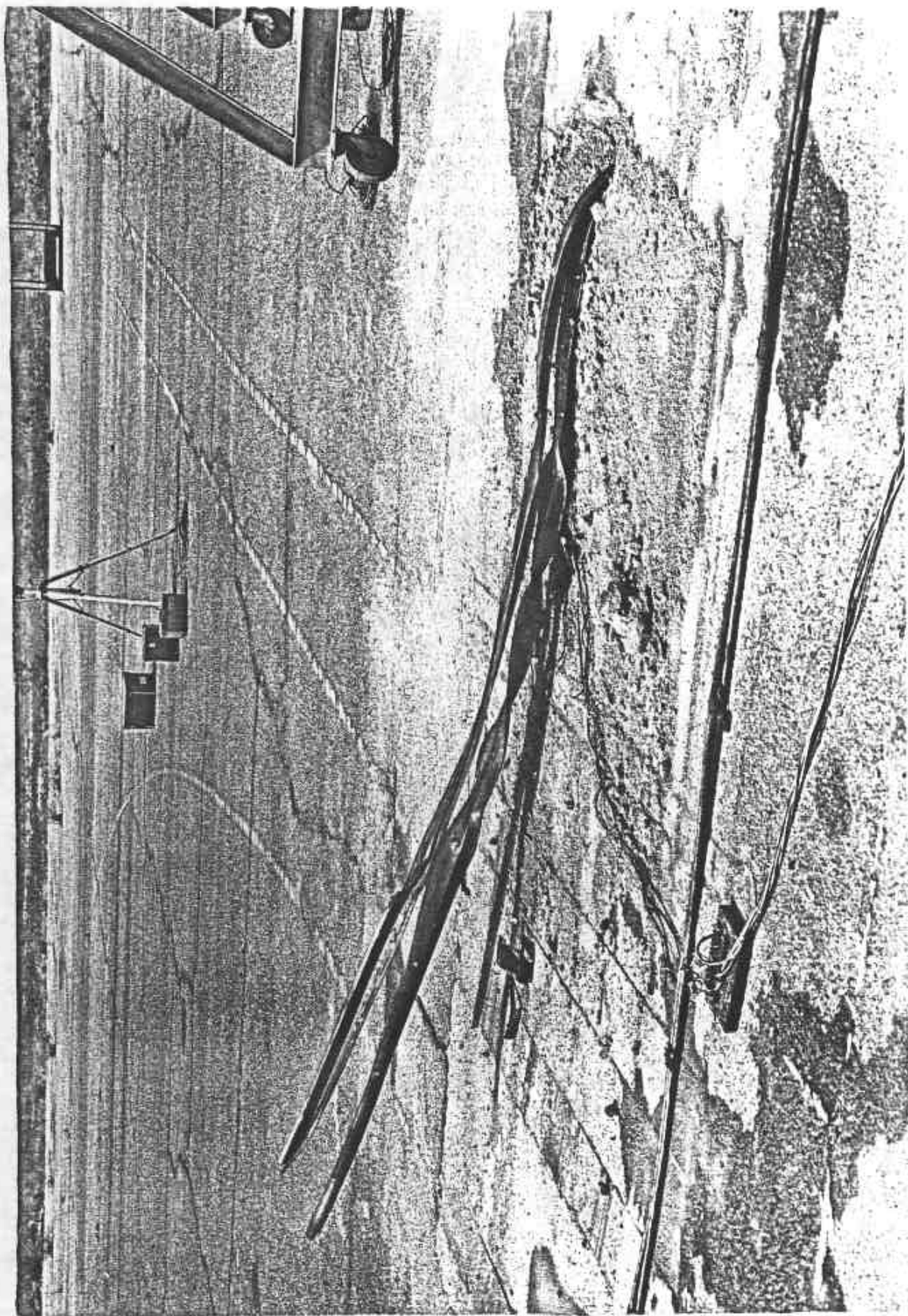


FIGURE A7 - SIGN POST PIECES - POSTTEST

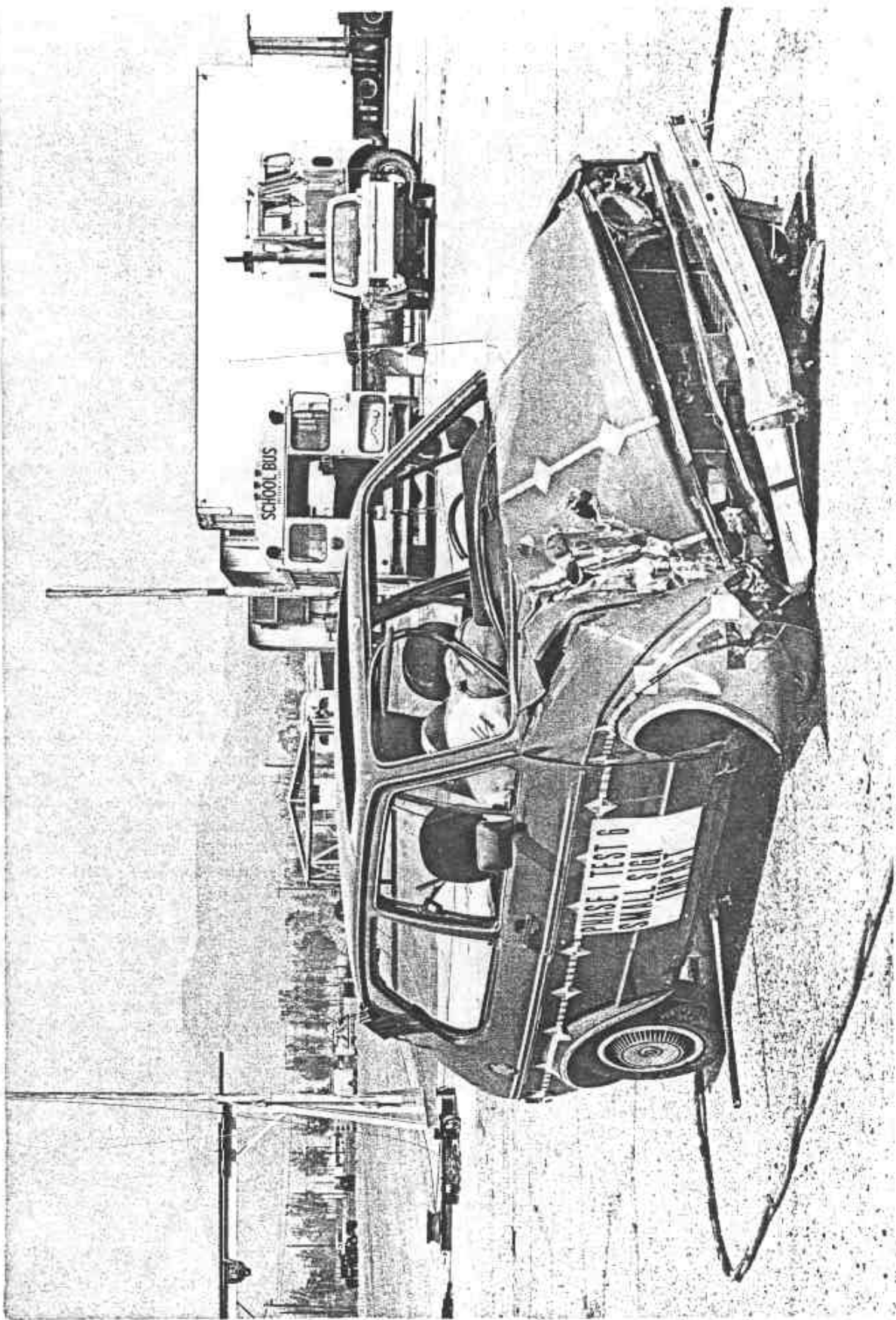


FIGURE A8 - RIGHT FRONT 3/4 VIEW - POSTTEST

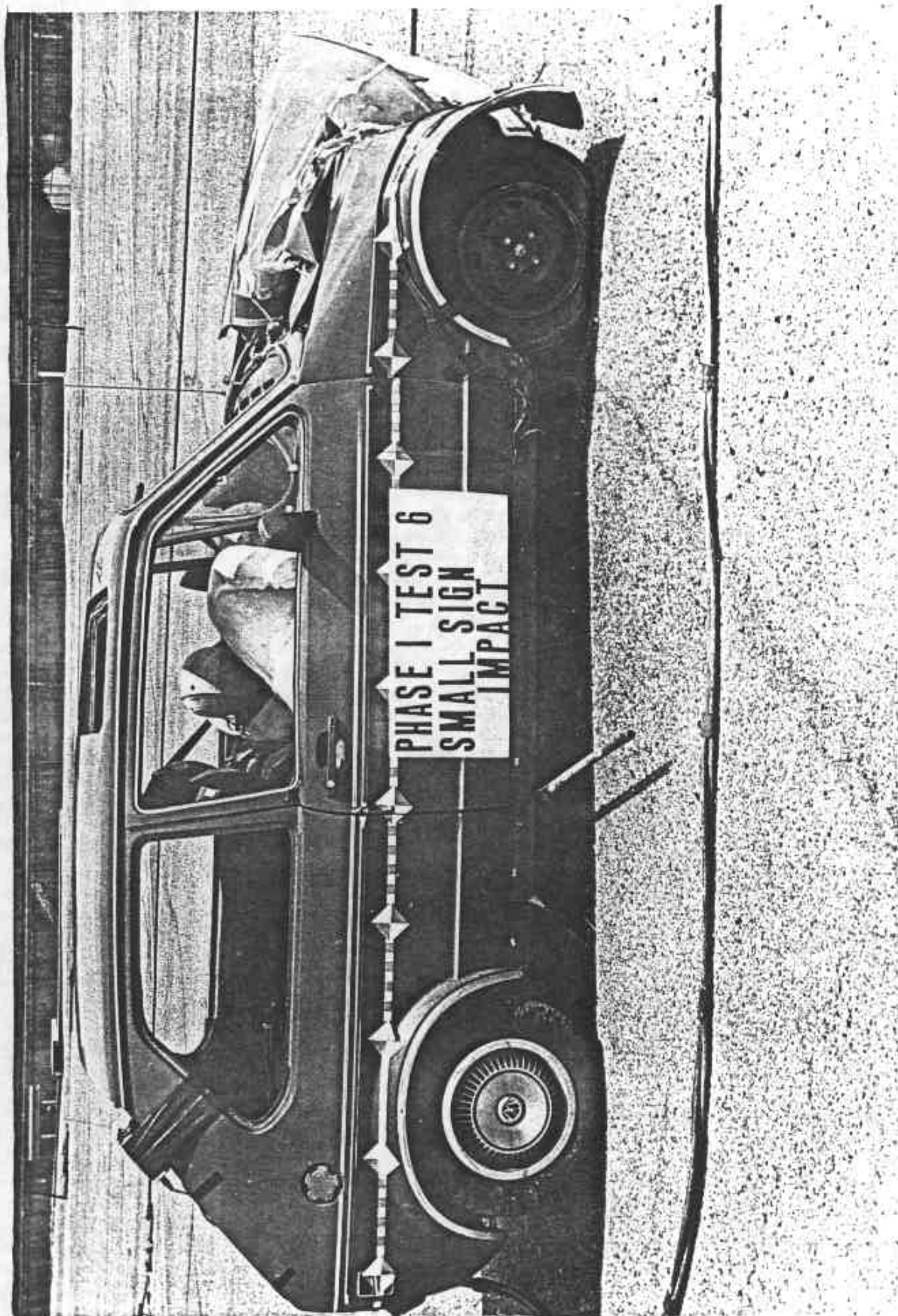


FIGURE A9 - FULL RIGHT SIDE VIEW - POSTTEST

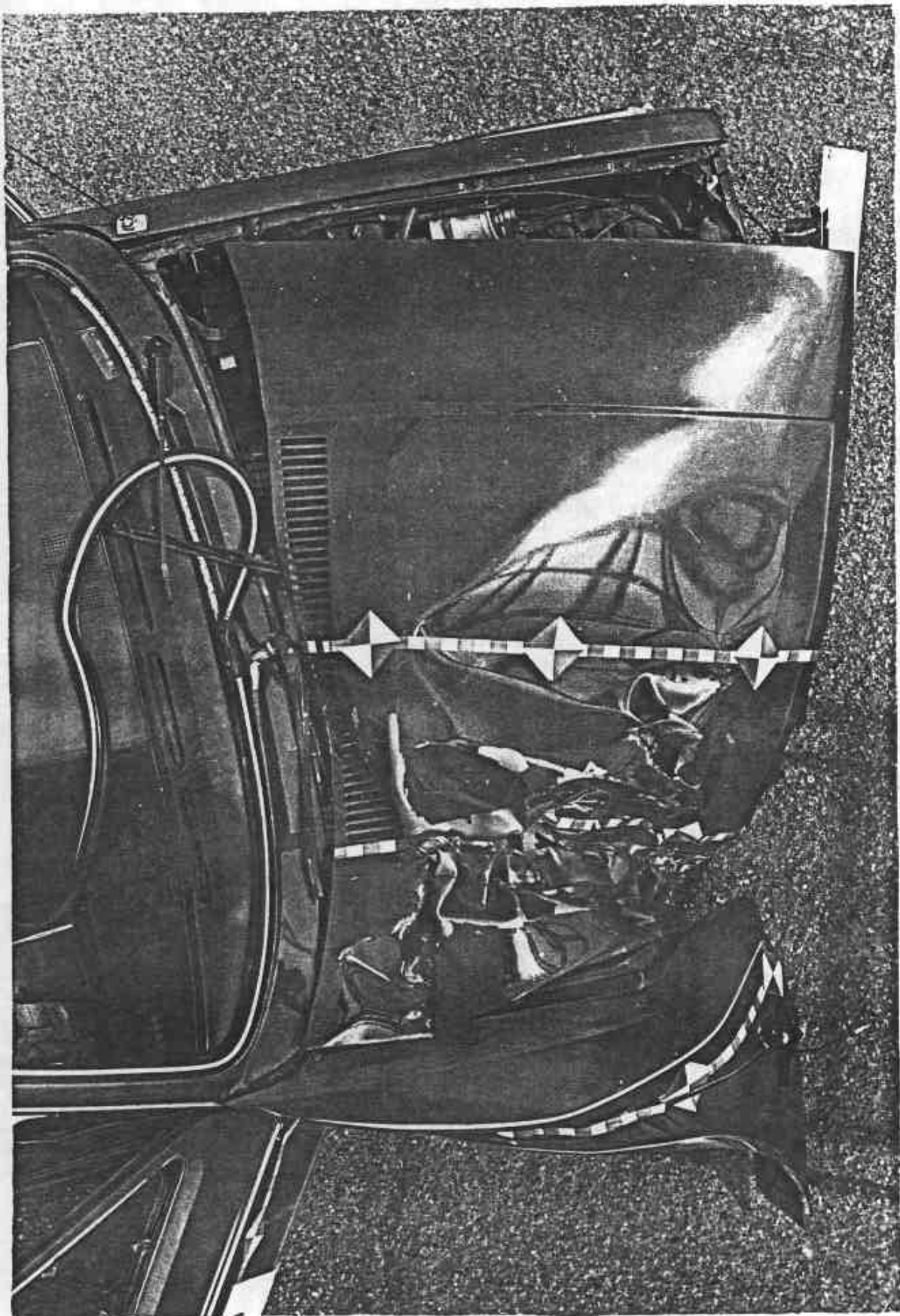


FIGURE A10 - OVERHEAD VIEW - POSTTEST

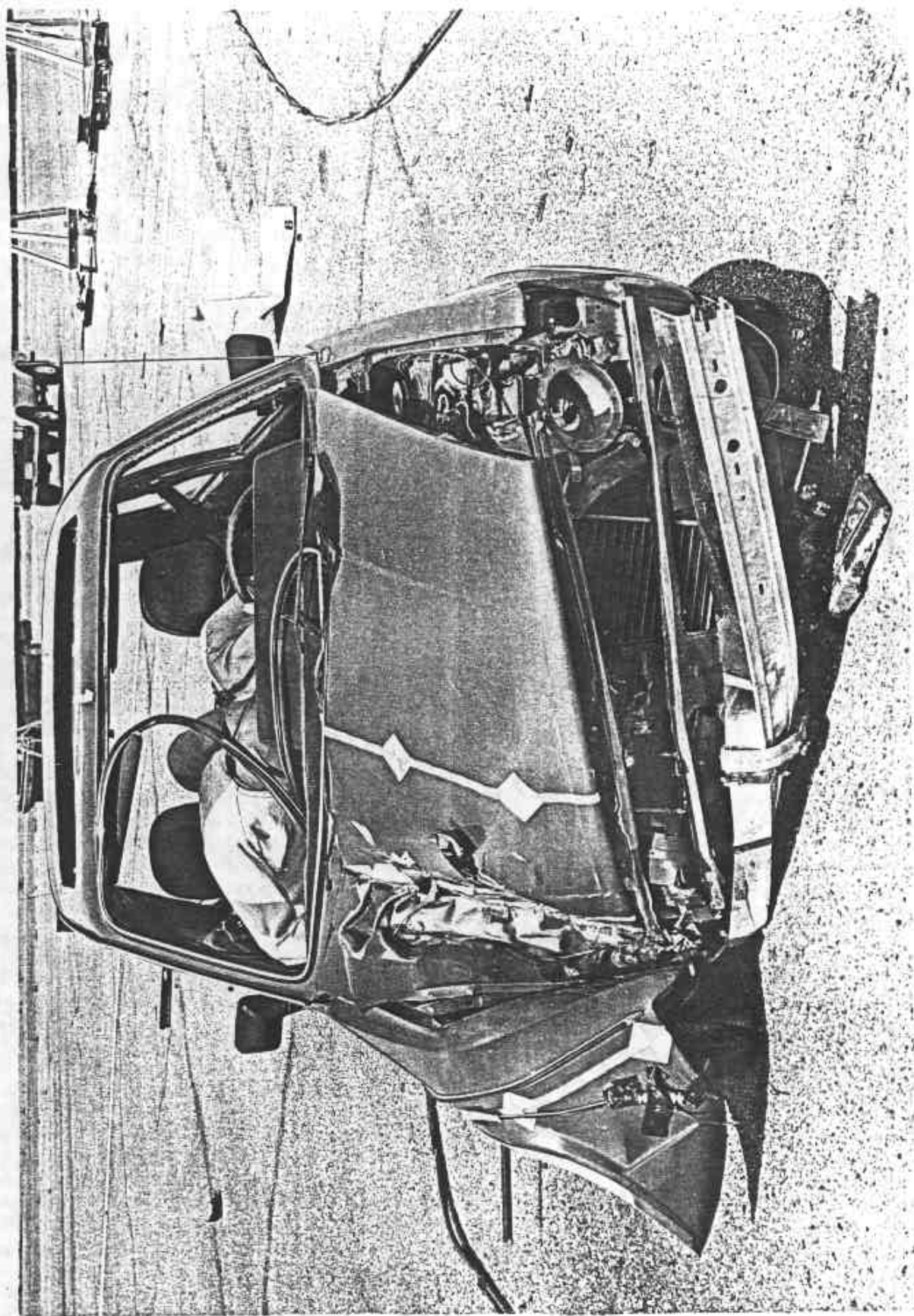


FIGURE A11 - FRONT VIEW - POSTTEST



FIGURE A12 - DRIVER ATD POSITION - POSTTEST



FIGURE A13 - PASSENGER ATD POSITION - POSTTEST

APPENDIX B
TIME HISTORY DATA

APPENDIX B
SMALL SIGN SUPPORT TEST, PHASE I, SIGN SUPPORT TEST NO. 6

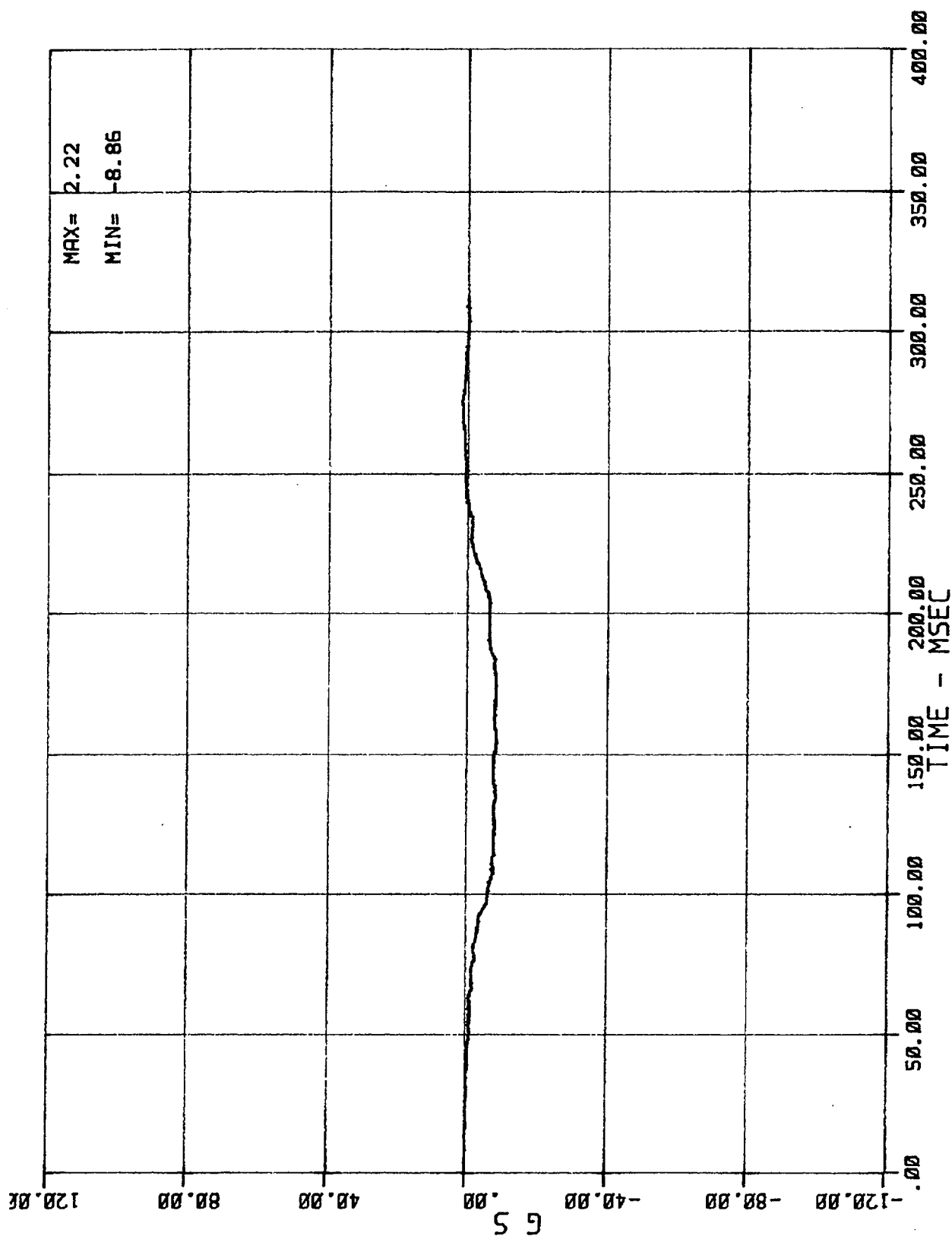
This appendix presents all the time history data measured during the subject test. Prior to digitizing the FM tape analog data were filtered in accordance with SAE J211 (b) requirements for a Class 1,000 filter.

Prior to plotting, all data channels except for the ATD head accelerations, were filtered further in accordance with SAE J211 (b) requirements as follows:

ATD Chest Accels	-	Class 180
ATD Femur Load Cells	-	Class 600
Vehicle Accels (except as noted where Class 180 was also used)	-	Class 60
Strain Gages	-	Class 60

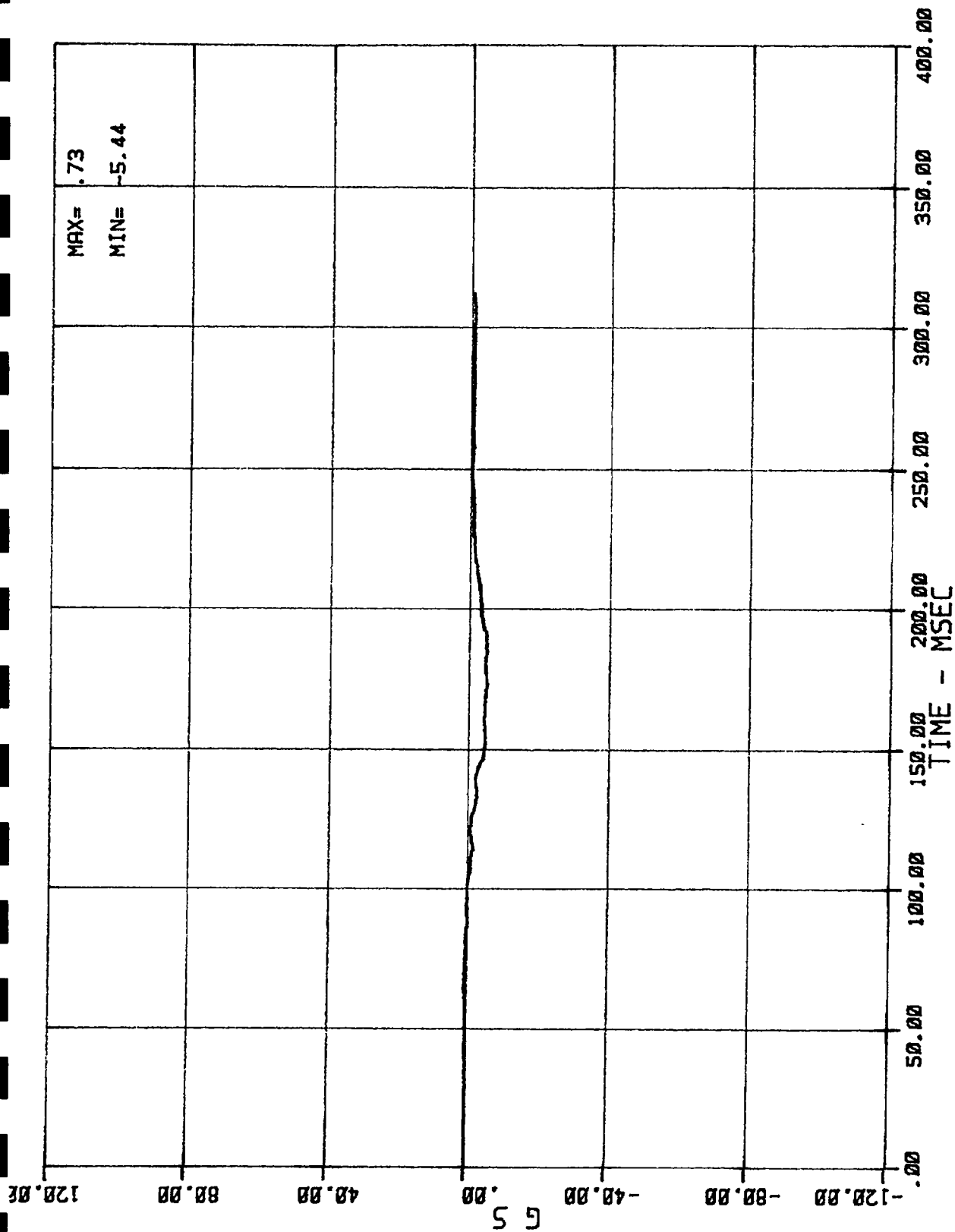
DIGITAL TAPE HEADER INFORMATION

ISM5NP1 TEST 6 81 RABBIT 05/29/84MSEDTFH6180C00170F0306416RIGID BODY DYNAMICS OF 81 RABBIT HITTING DOUBLE 3 LB/FT A607
 STEEL POST RWSVSB060.2000999.9999.9ASHDRY116FMTUMBENG
 10009814-TVF 105 C.I. MF302175094.4140.864.031.9S0THMREAR SEAT AND FUEL TANK REMOVED
 0.200000012FRAN6999053.8-3.601.206.110.618.320.918.020.9
 3SNS Y9
 11CD 050M HUMANOID SYSTEMS S05 17.723.507.900.621.212.303.105.804.50THSTONANONONO
 12CD 050M HUMANOID SYSTEMS S04 18.224.008.808.820.699.903.506.503.8NONSTONANNSNODP
 501AC011HED0600001600000.728600360000125G'SX60.2G00D
 502AC011HED0600001600000.728600360000125G'SY00.0G00D
 503AC011HED0600001600000.728600360000125G'SZ00.0G00D
 504AC011CST0600001600000.728600360000125G'SX60.2G00D
 505AC011CST0600001600000.728600360000125G'SY00.0G00D
 506AC011CST0600001600000.728600360000125G'SZ00.0G00D
 507AC012HED0600001600000.728600360000125G'SX60.2G00D
 508AC012HED0600001600000.728600360000125G'SY00.0G00D
 509AC012HED0600001600000.728600360000125G'SZ00.0G00D
 510AC012CST0600001600000.728600360000125G'SX60.2G00D
 511AC012CST0600001600000.728600360000125G'SY00.0G00D
 512AC012CST0600001600000.728600360000125G'SZ00.0G00D
 513AC01NFB00286001600000.728600360000125G'SX60.2G00D
 514AC01NFB00286001600000.728600360000125G'SX60.2G00D
 515AC01NENG0286001600000.728600360000125G'SX60.2G00D
 516AC01NENG0286001600000.728600360000125G'SY00.0G00D
 517AC01NENG0286001600000.728600360000125G'SZ00.0G00D
 518AC01NFFC0286001600000.728600360000125G'SX60.2G00D
 519AC01NFFC0286001600000.728600360000125G'SX60.2G00D
 520AC01NFWL0286001600000.728600360000125G'SX60.2G00D
 521AC01NLFF0286001600000.728600360000125G'SX60.2G00D
 522AC01NRFF0286001600000.728600360000125G'SX60.2G00D
 523AC01NVC00286001600000.728600360000125G'SX60.2G00D
 524AC01NVC00286001600000.728600360000125G'SY00.0G00D
 525AC01NVC00286001600000.728600360000125G'SZ00.0G00D
 526AC01NLR00286001600000.728600360000125G'SX60.2G00D
 527AC01NRRF0286001600000.728600360000125G'SX60.2G00D
 528LC011LFM-999901600999.928600360000125LBSN GOOD
 529LC011RFM-999901600999.928600360000125LBSN GOOD
 530LC012LFM-999901600999.928600360000125LBSN GOOD
 531LC012RFM-999901600999.928600360000125LBSN GOOD
 532SGBANBFC-999901600999.928600360000125IP10 GOOD. UNITS ARE MICROSTRAIN
 533SGBANBFC-999901600999.928600360000125IP10 GOOD. UNITS ARE MICROSTRAIN
 534SGBANBFC-999901600999.928600360000125IP10 GOOD. UNITS ARE MICROSTRAIN
 535SGBANBRC-999901600999.928600360000125IP10 GOOD. UNITS ARE MICROSTRAIN
 536SGBANBRC-999901600999.928600360000125IP10 GOOD. UNITS ARE MICROSTRAIN
 537SGBANBRC-999901600999.928600360000125IP10 GOOD. UNITS ARE MICROSTRAIN



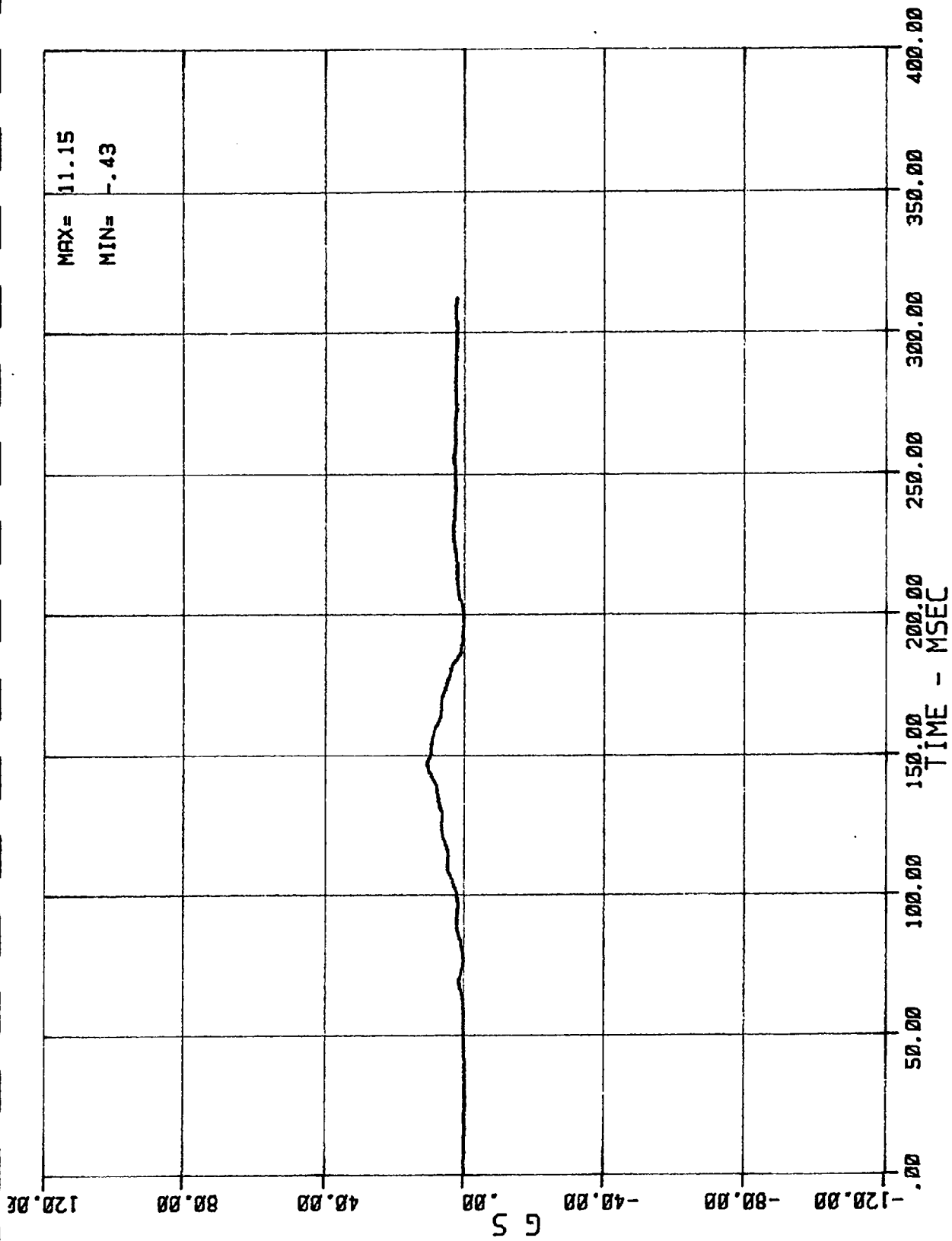
01 AC 01 1 HED X (DRIVER HEAD ACCEL. -- X AXIS)
MSE F08064 1981 VW RABBIT

05/29/84



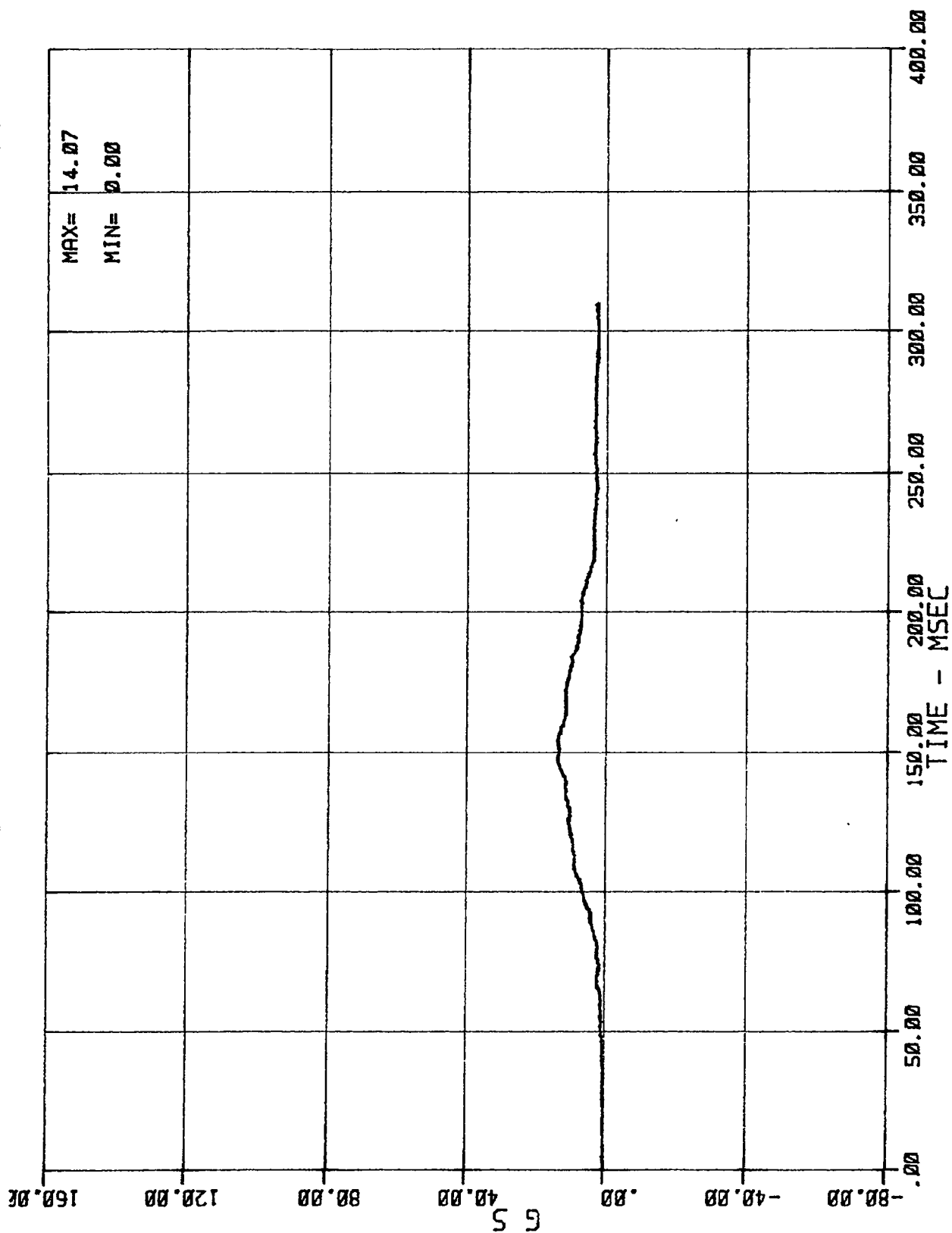
02 AC 01 1 HED Y (DRIVER HEAD ACCEL. -- Y AXIS)
MSE F08064 1981 VW RABBIT

05/29/84



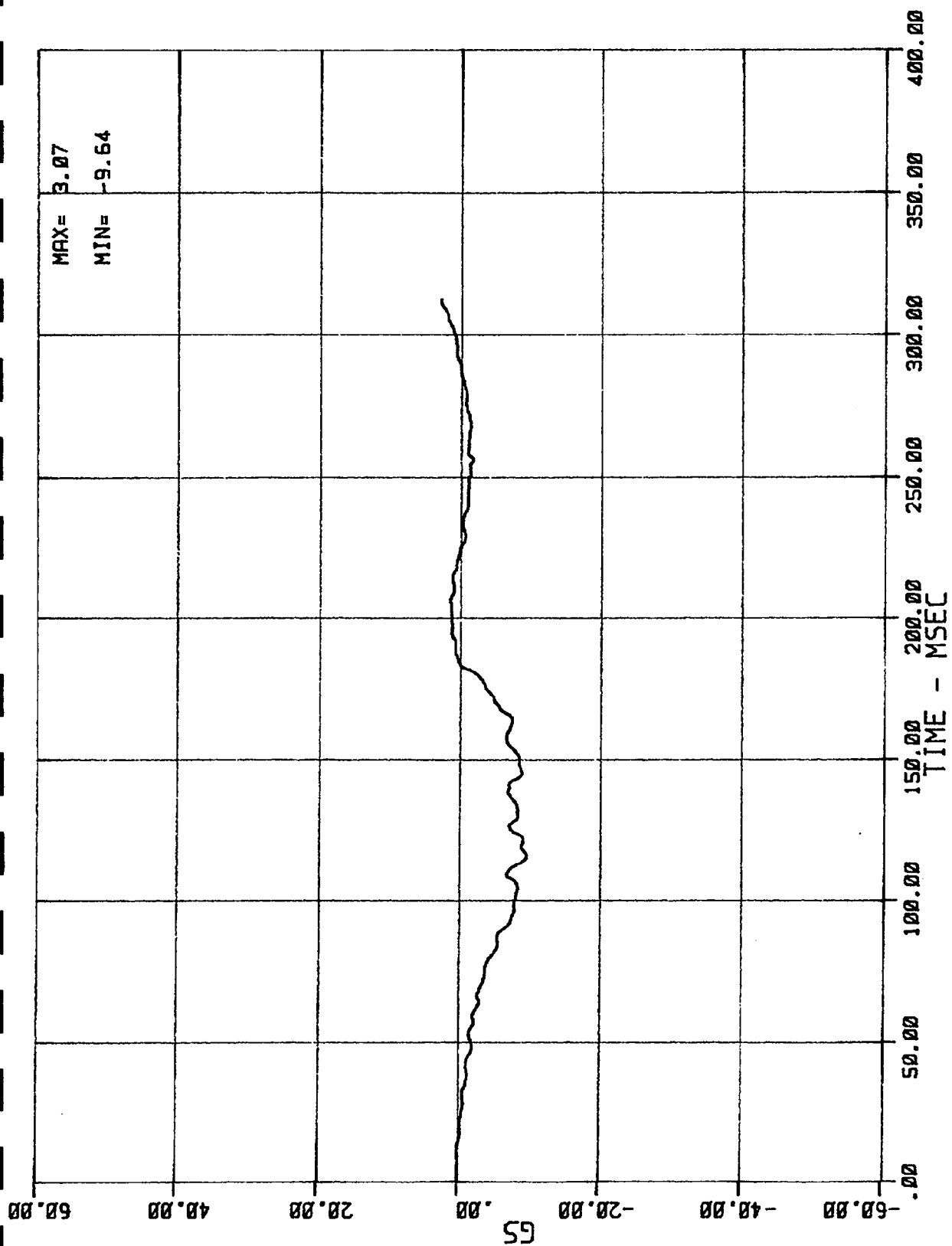
03 AC 01 1 HED Z (DRIVER HEAD ACCEL. -- Z AXIS)
MSE F08064 1981 VW RABBIT

05/29/84



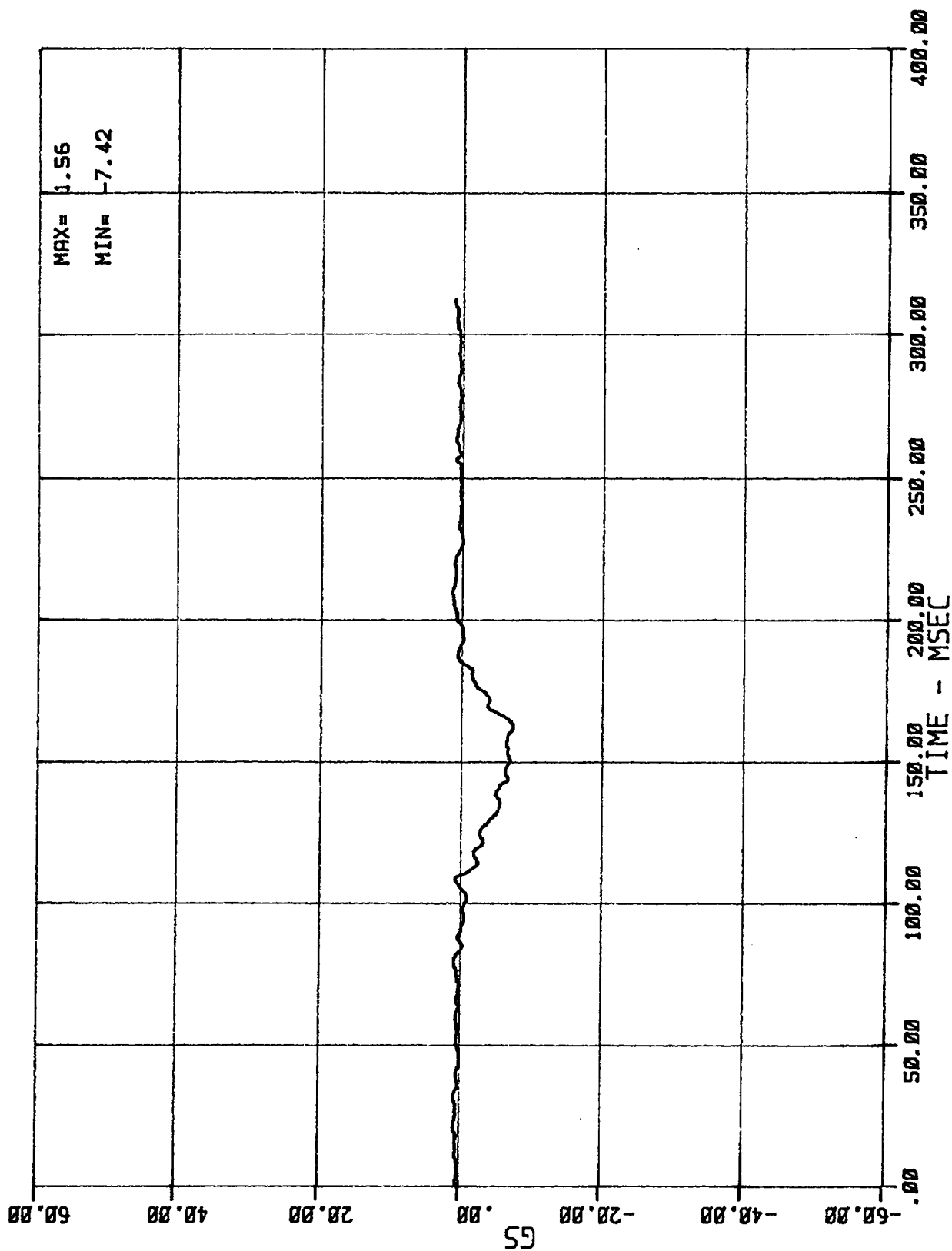
DRIVER HEAD RESULTANT ACCELERATION
MSE F08064 1981 VW RABBIT

05/29/84



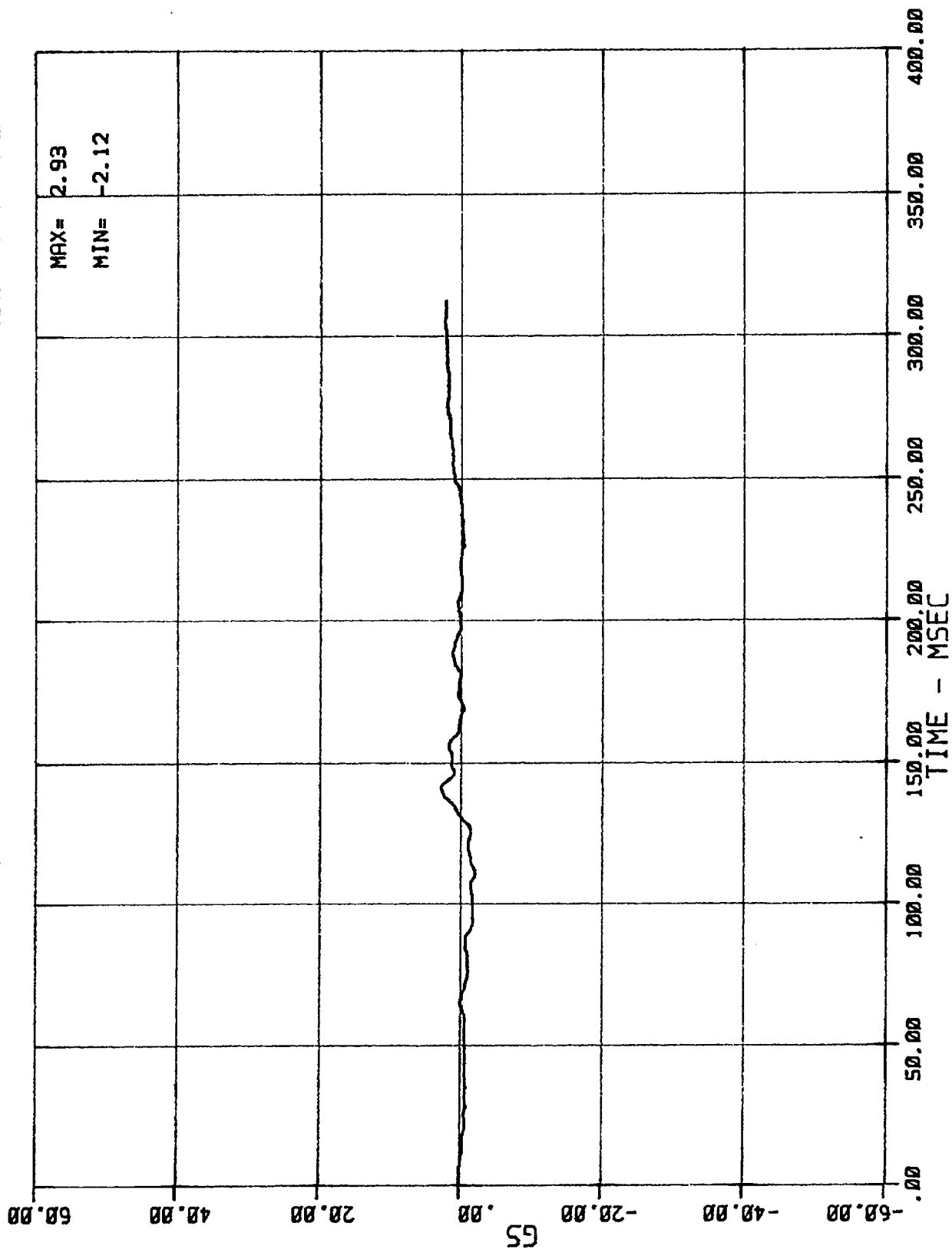
04 AC 01 1 CST X (DRIVER CHEST ACCEL. -- X AXIS)
MSE F08064 1981 VW RABBIT

05/29/84



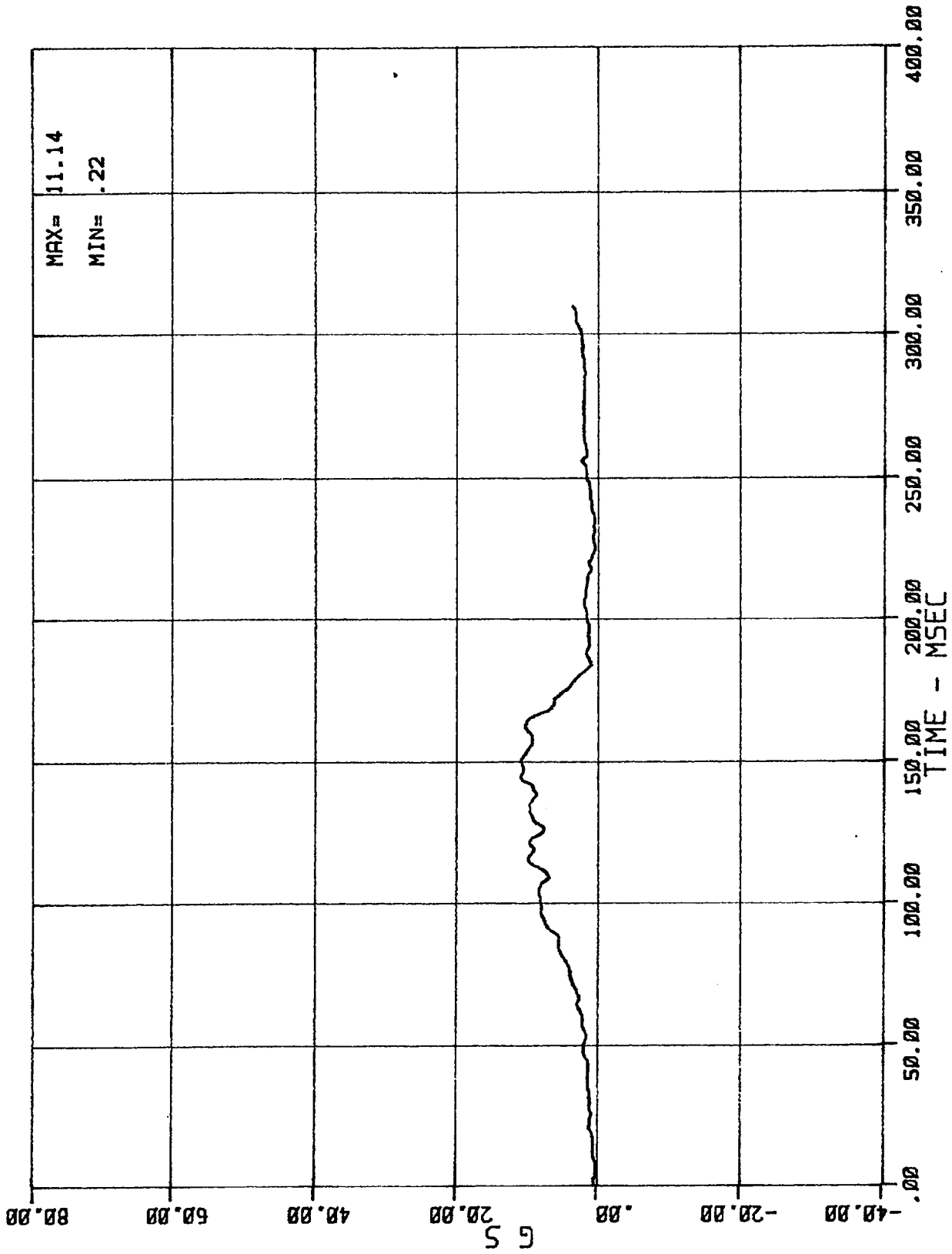
05 AC 01 1 CST Y (DRIVER CHEST ACCEL. -- Y AXIS)
MSE F08064 1981 VW RABBIT

05/29/84



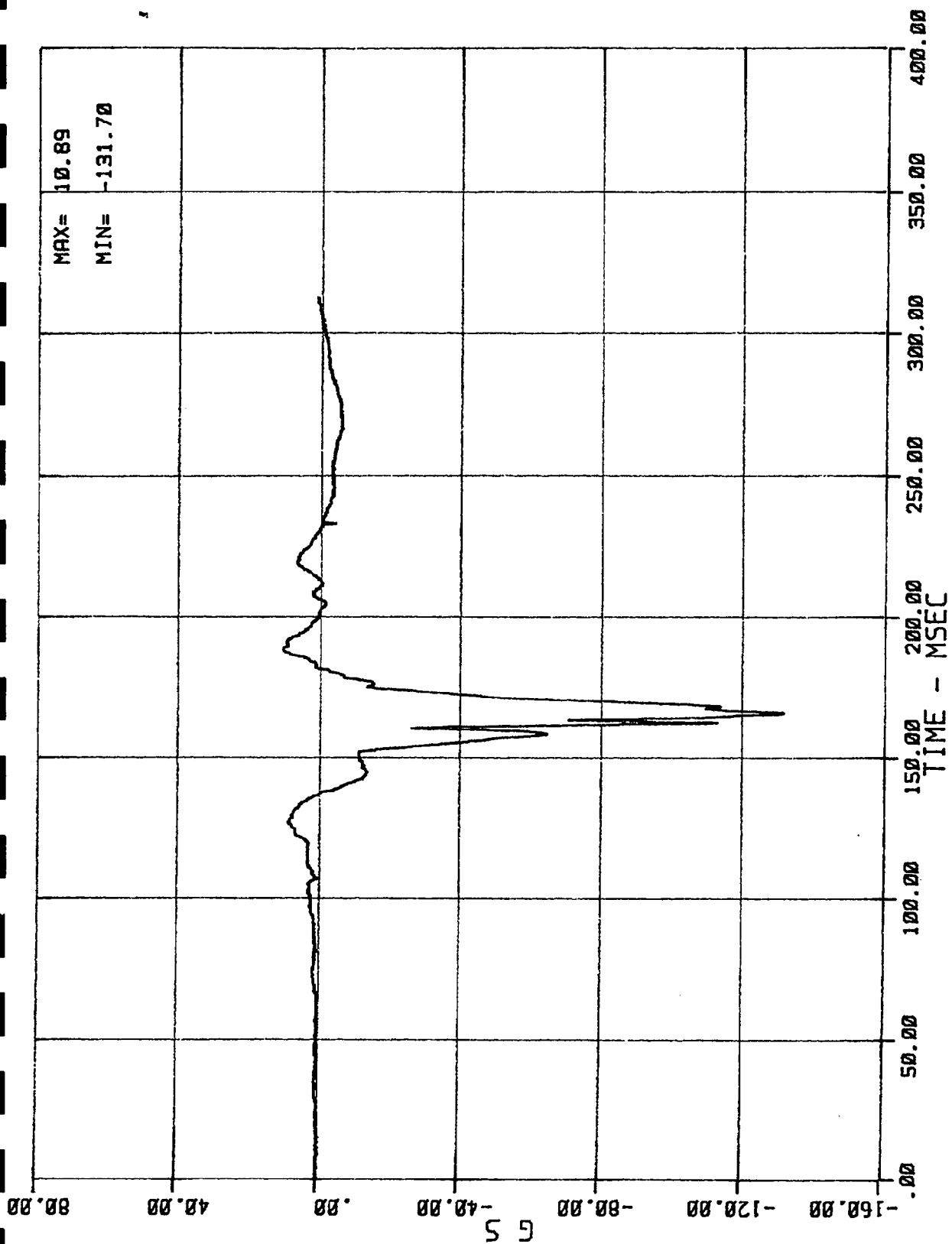
06 AC 01 1 CST Z (DRIVER CHEST ACCEL. --- Z AXIS)
MSE F08064 1981 VW RABBIT

05/29/84



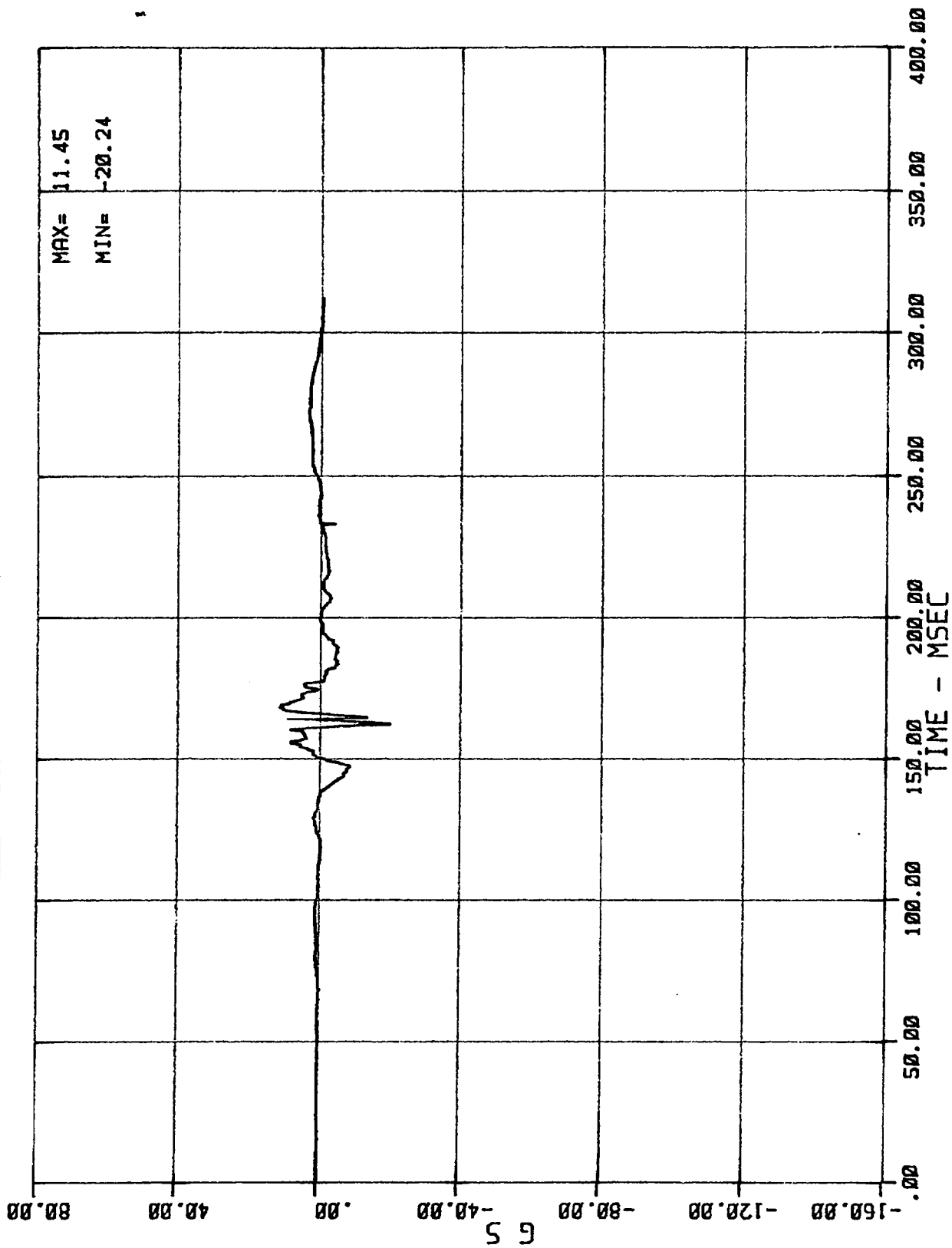
DRIVER CHEST RESULTANT ACCELERATION
MSE F08064 1981 VW RABBIT

05/29/84



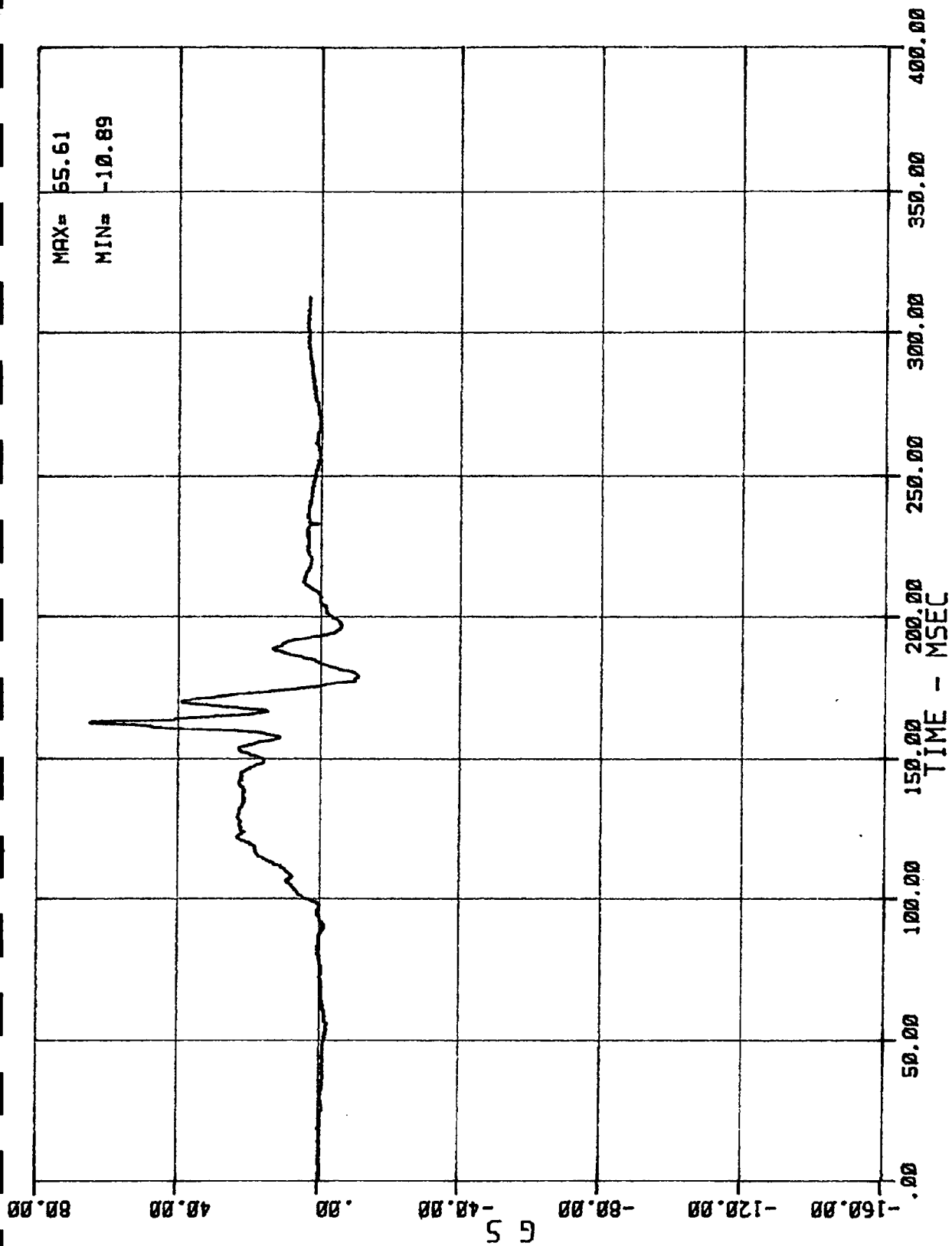
07 AC 01 2 HED X (PASSENGER HEAD ACCEL. -- X AXIS)
MSE F08064 1981 VW RABBIT

05/29/84



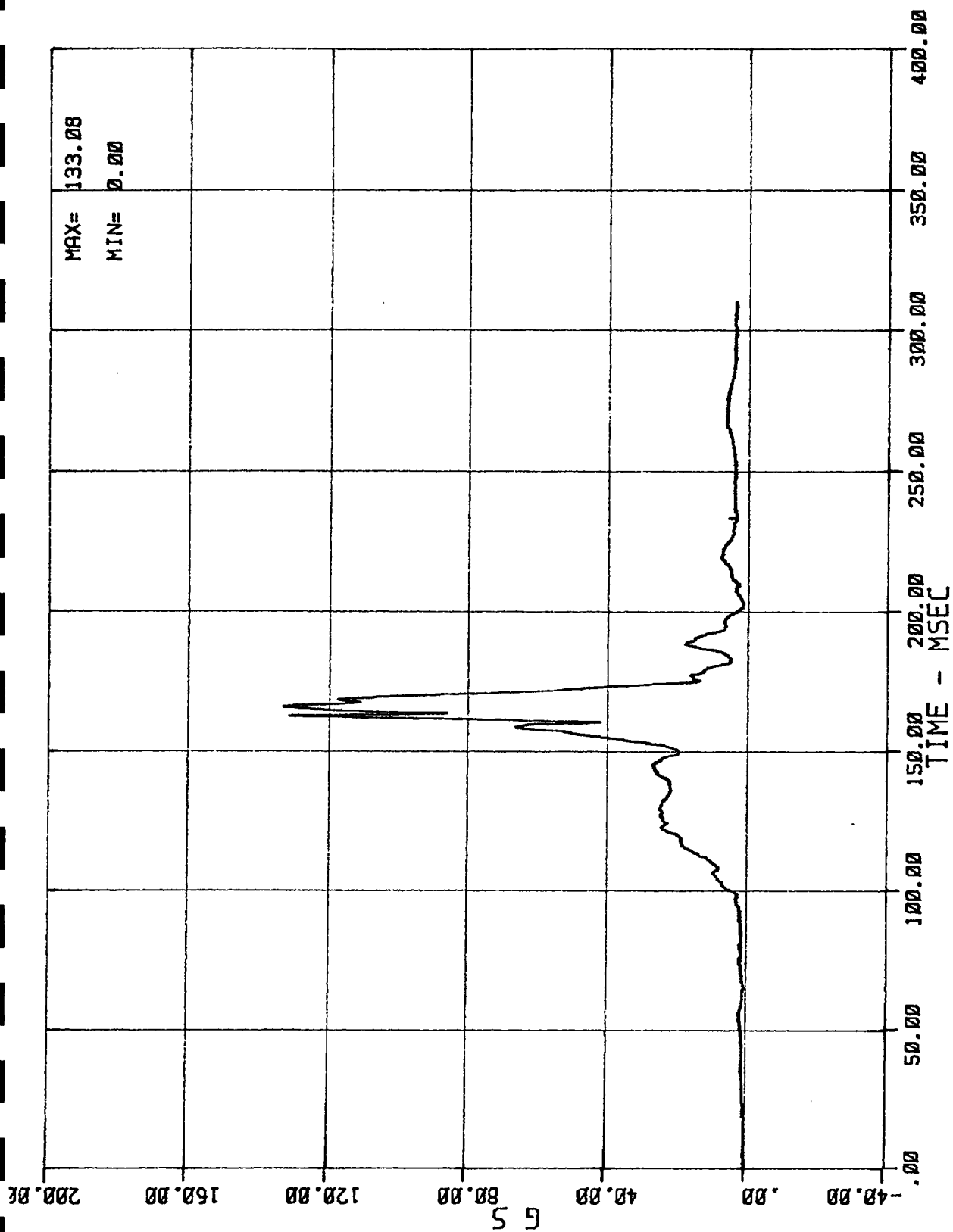
08 AC 01 2 HED Y (PASSENGER HEAD ACCEL. --- Y AXIS)
MSE F08064 1981 VW RABBIT

05/29/84



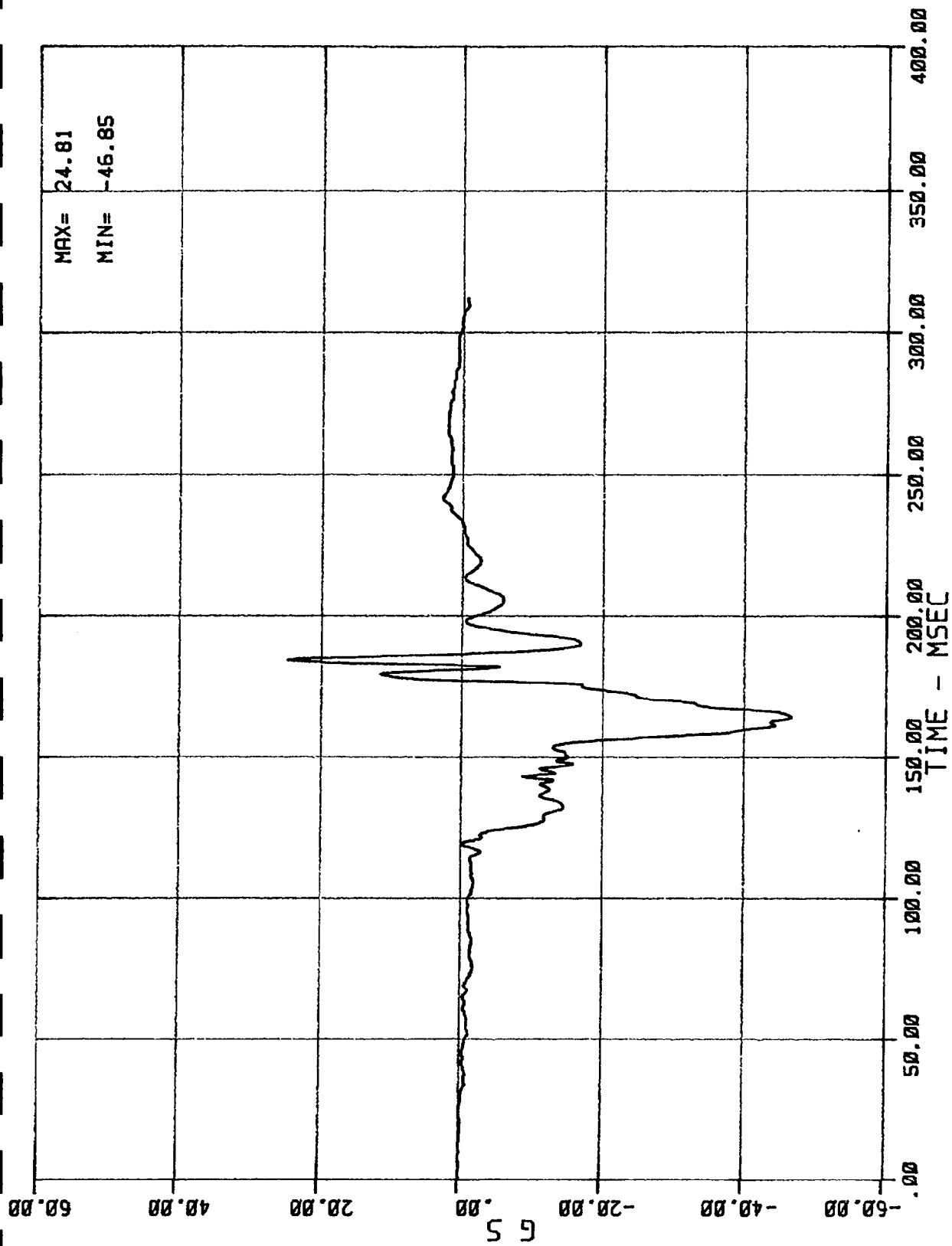
09 AC 01 2 HED Z (PASSENGER HEAD ACCEL. -- Z AXIS)
MSE F08054 1981 VW RABBIT

05/29/84



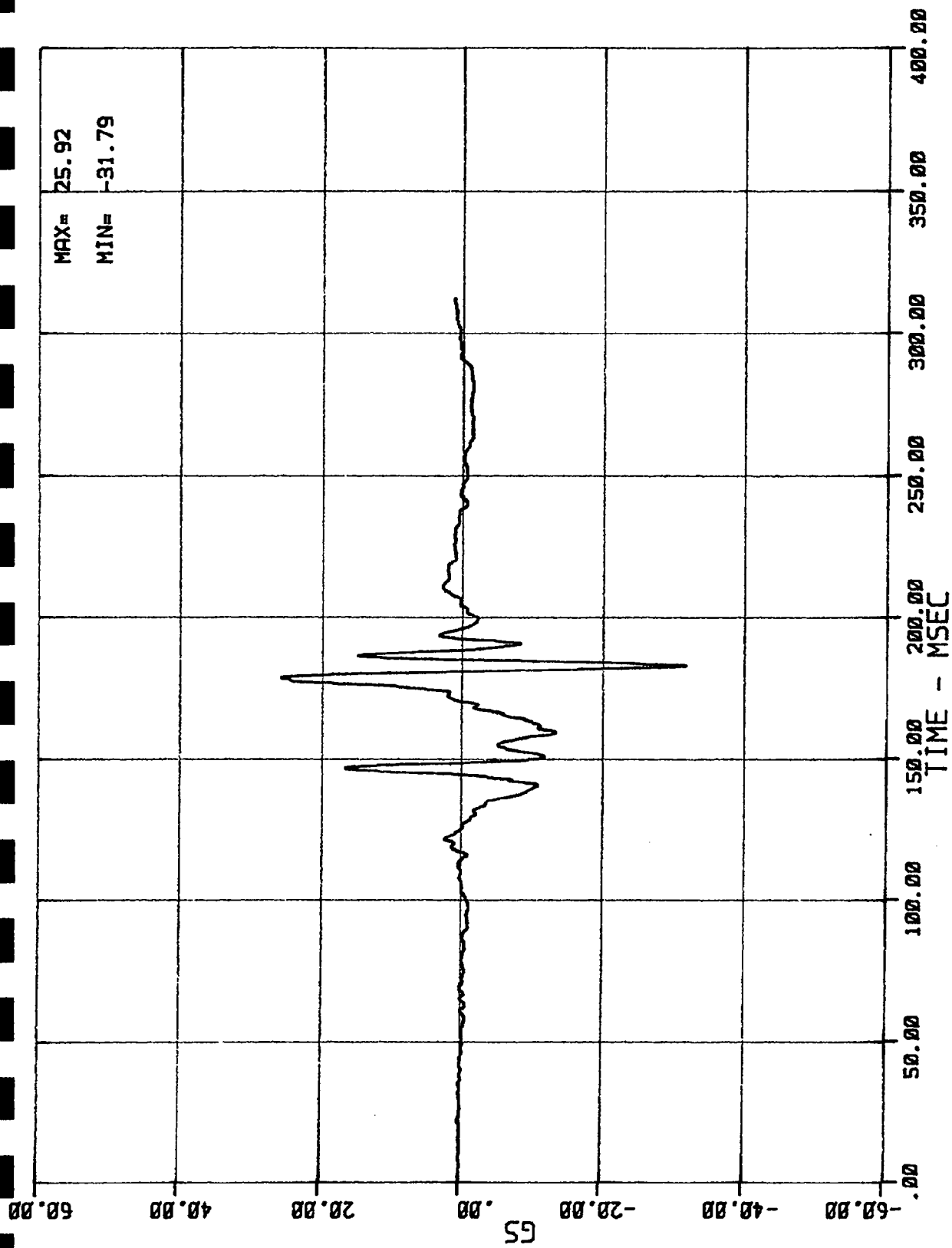
PASSENGER HEAD RESULTANT ACCELERATION
MSE F08064 1981 VW RABBIT

05/29/84



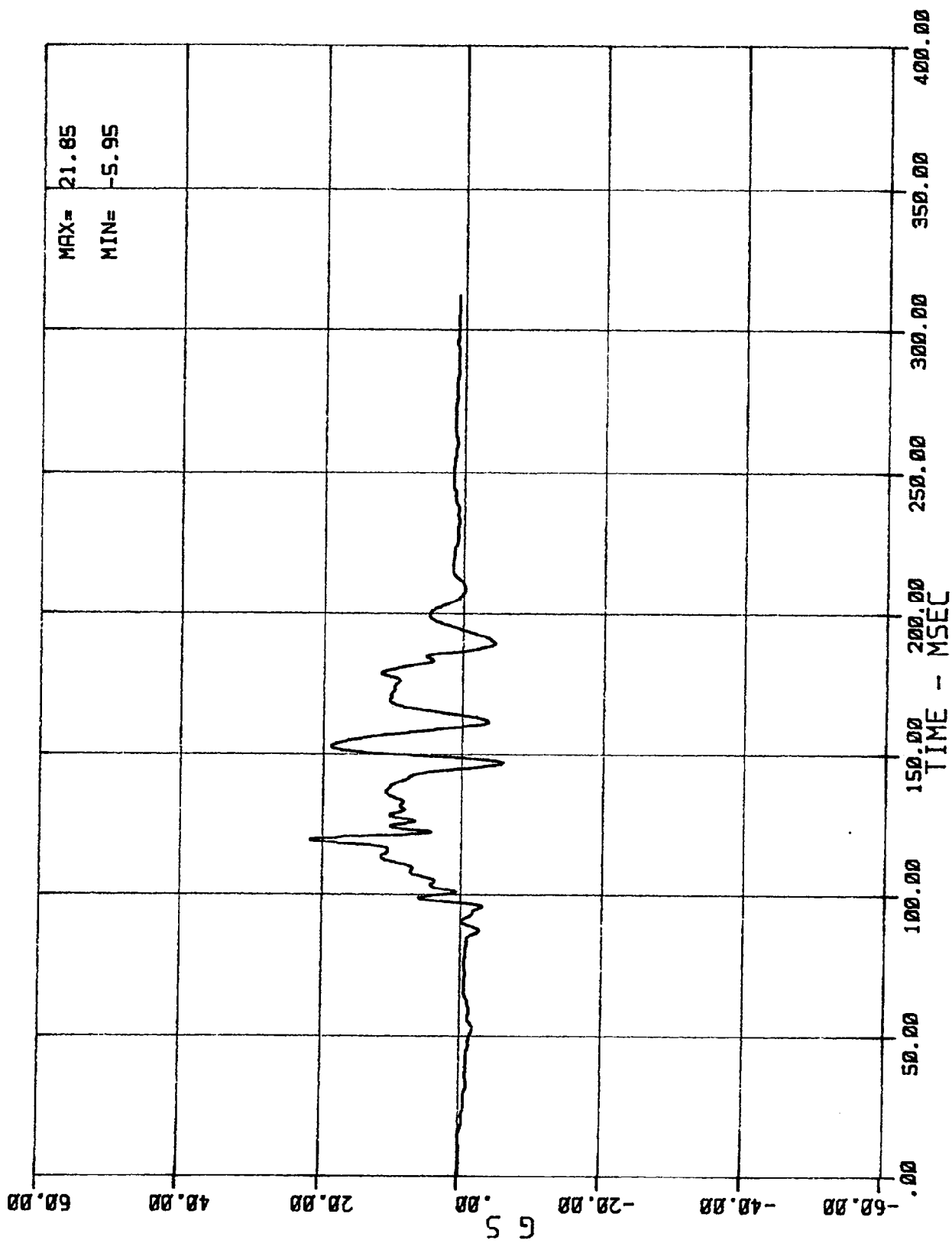
10 AC 01 2 CST X (PASSENGER CHEST ACCEL. - X AXIS)
MSE F08064 1981 VW RABBIT

05/29/84



11 AC 01 2 CST Y (PASSENGER CHEST ACCEL. -- Y AXIS)
MSE F08064 1981 VW RABBIT

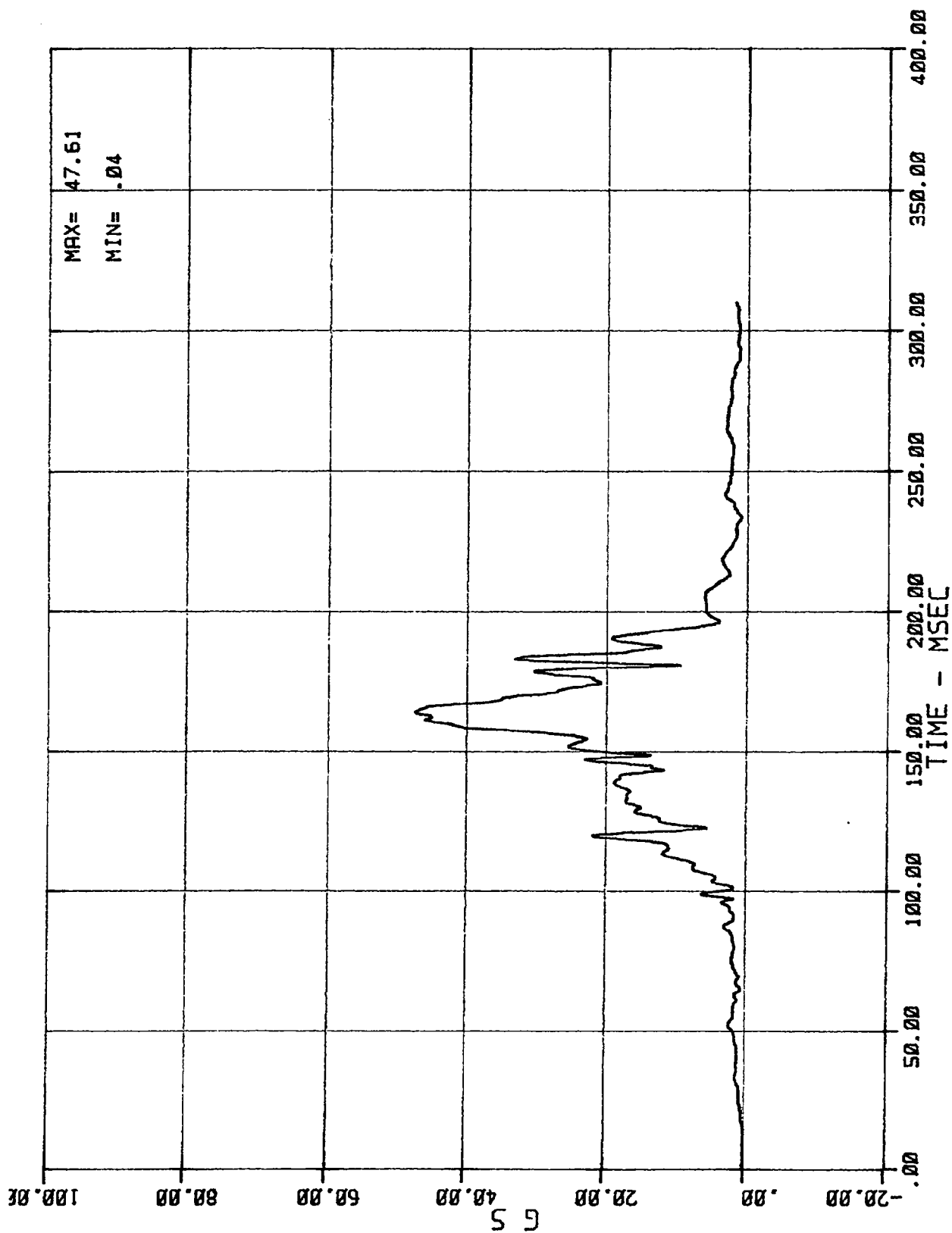
05/29/84



12 AC 01 2 CST Z (PASSENGER CHEST ACCEL. --- Z AXIS)

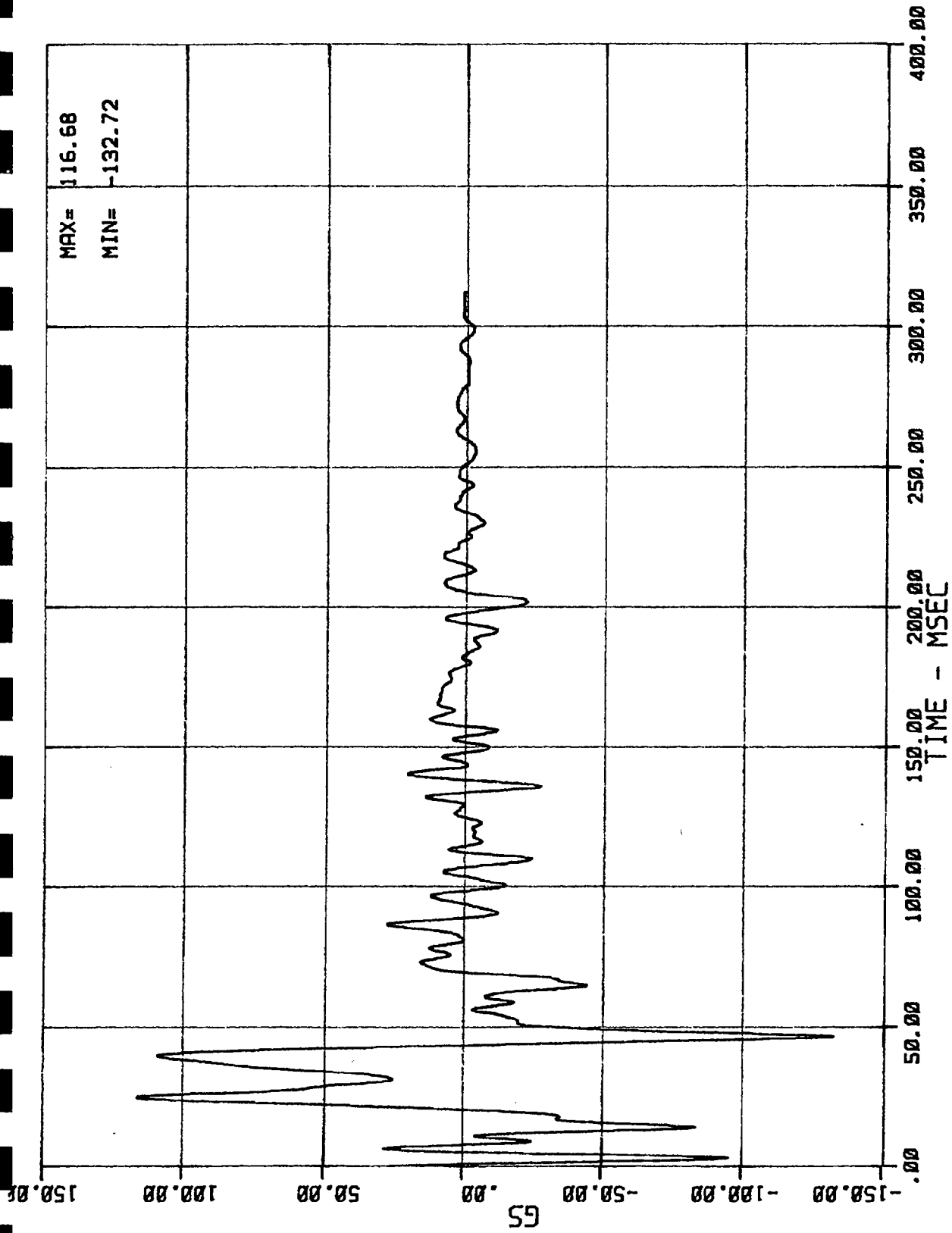
MSE F08064 1981 VW RABBIT

05/29/84



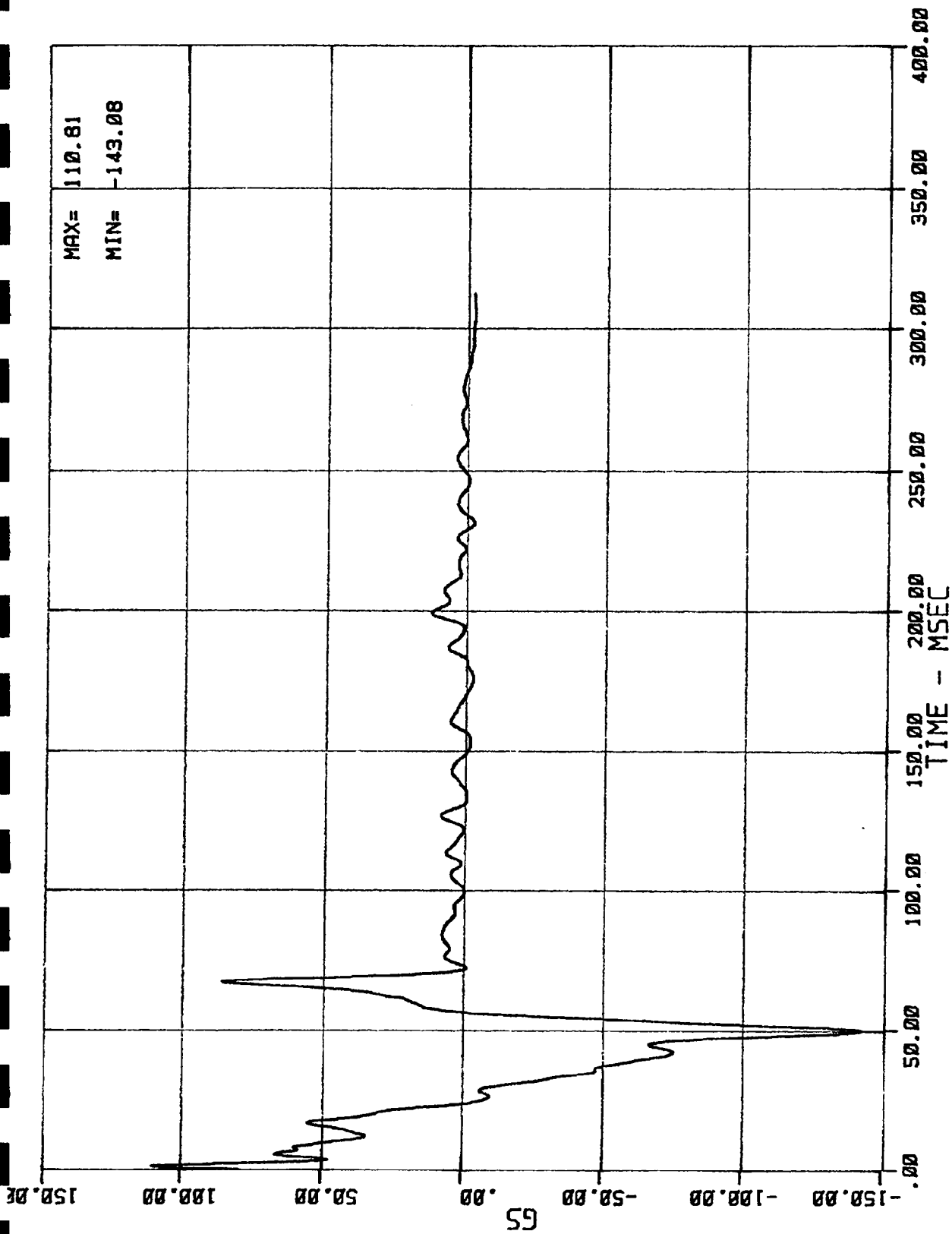
PASSENGER CHEST RESULTANT ACCELERATION
MSE F08064 1981 VW RABBIT

05/29/84



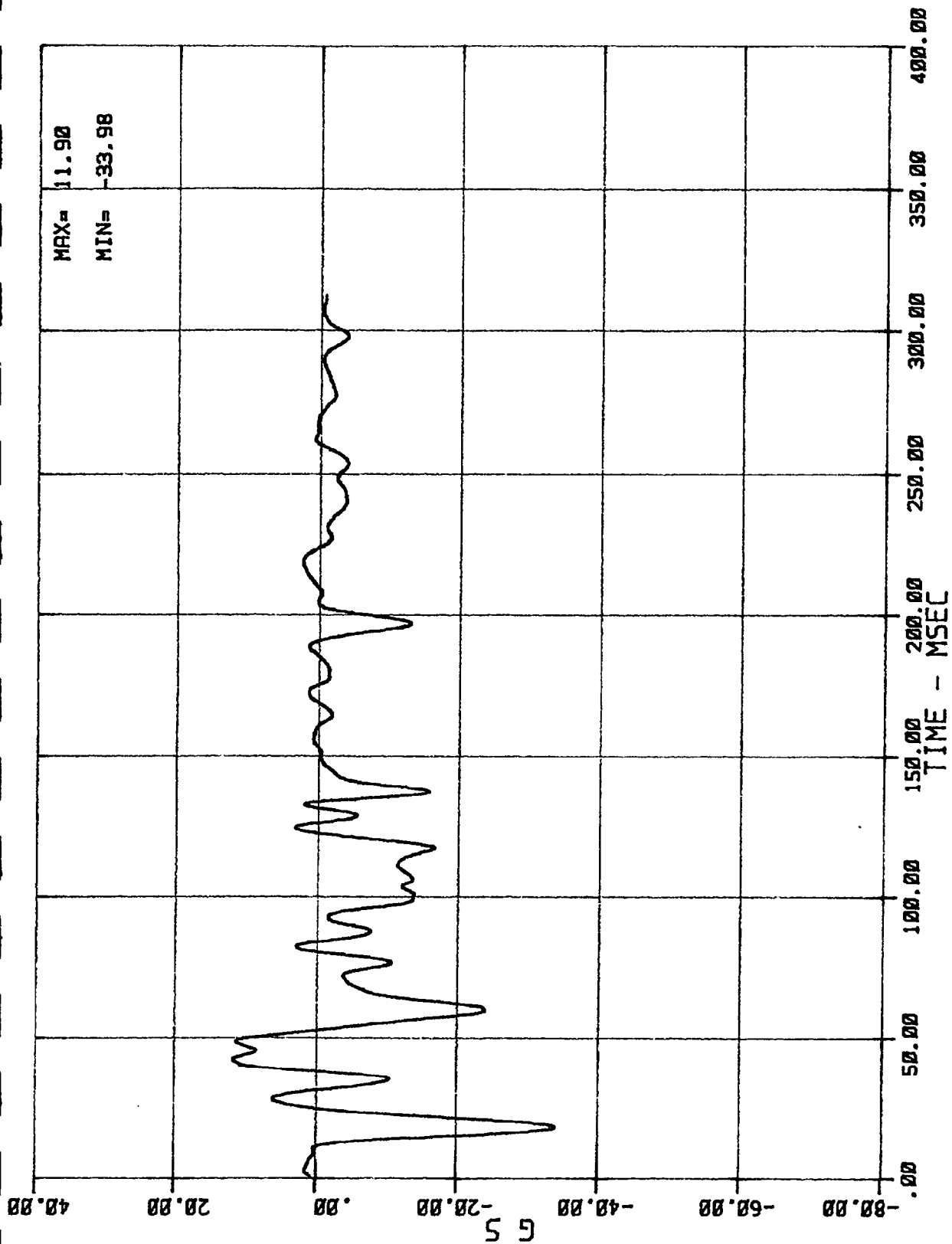
13 AC 01 N FBR X (LEFT FRONT BUMPER ACCEL. -- X AXIS)
MSE F08064 1981 VW RABBIT

05/29/84



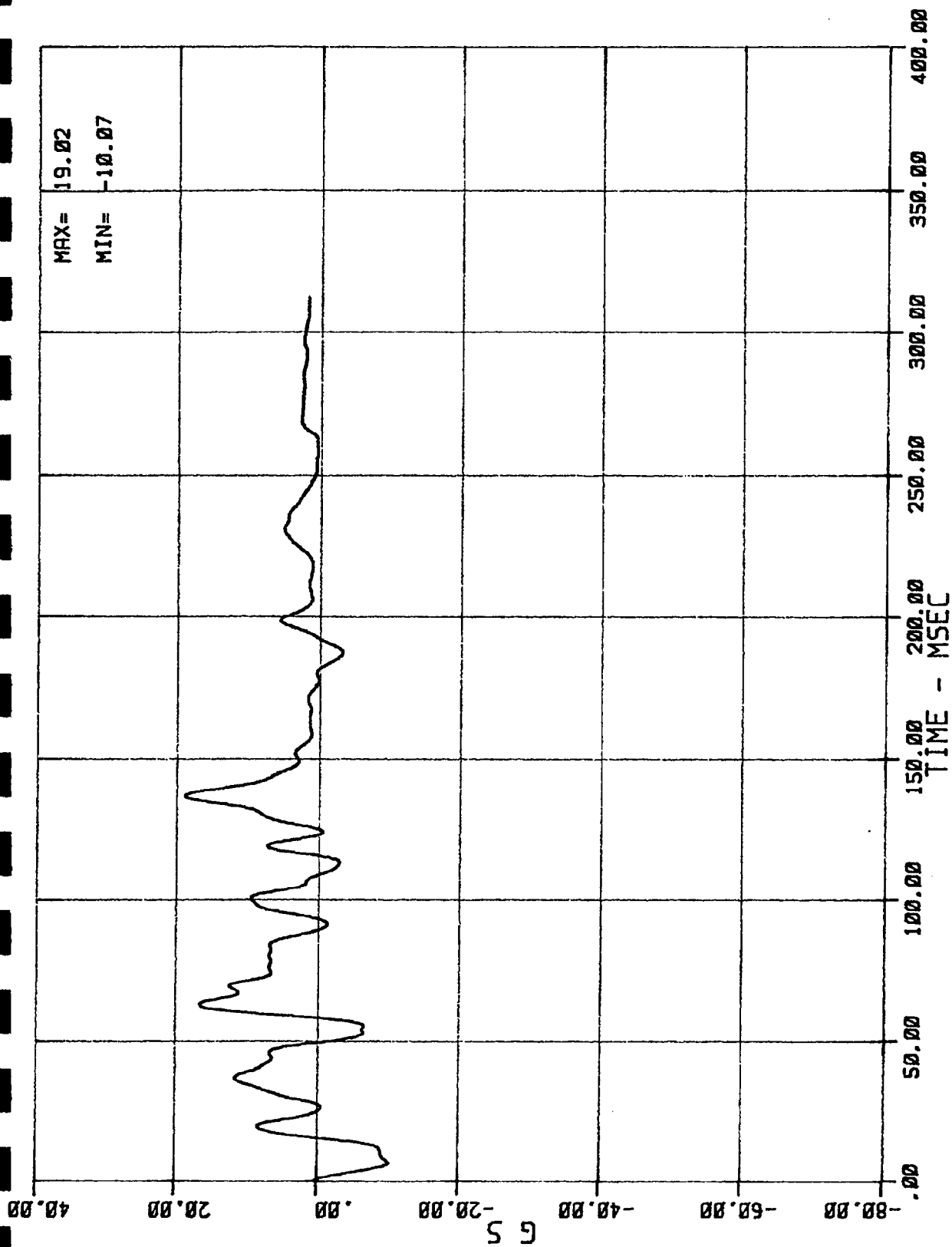
14 AC 01 N FBR X (RIGHT FRONT BUMPER ACCEL. -- X AXIS)
MSE F08064 1981 VW RABBIT

05/29/84



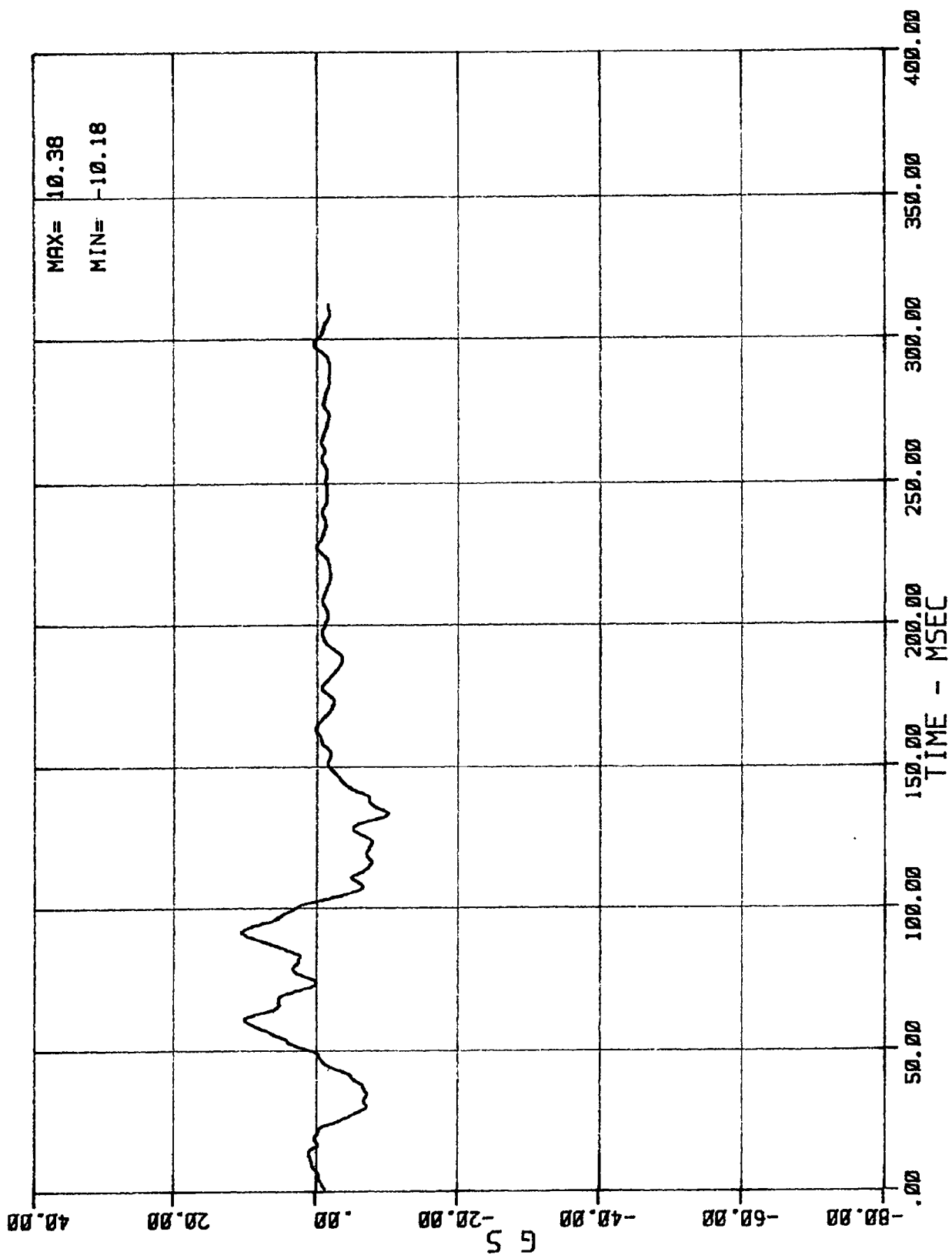
15 AC 01 N ENG X (ENGINE ACCEL. --- X AXIS)
MSE F08064 1981 VW RABBIT

05/29/84



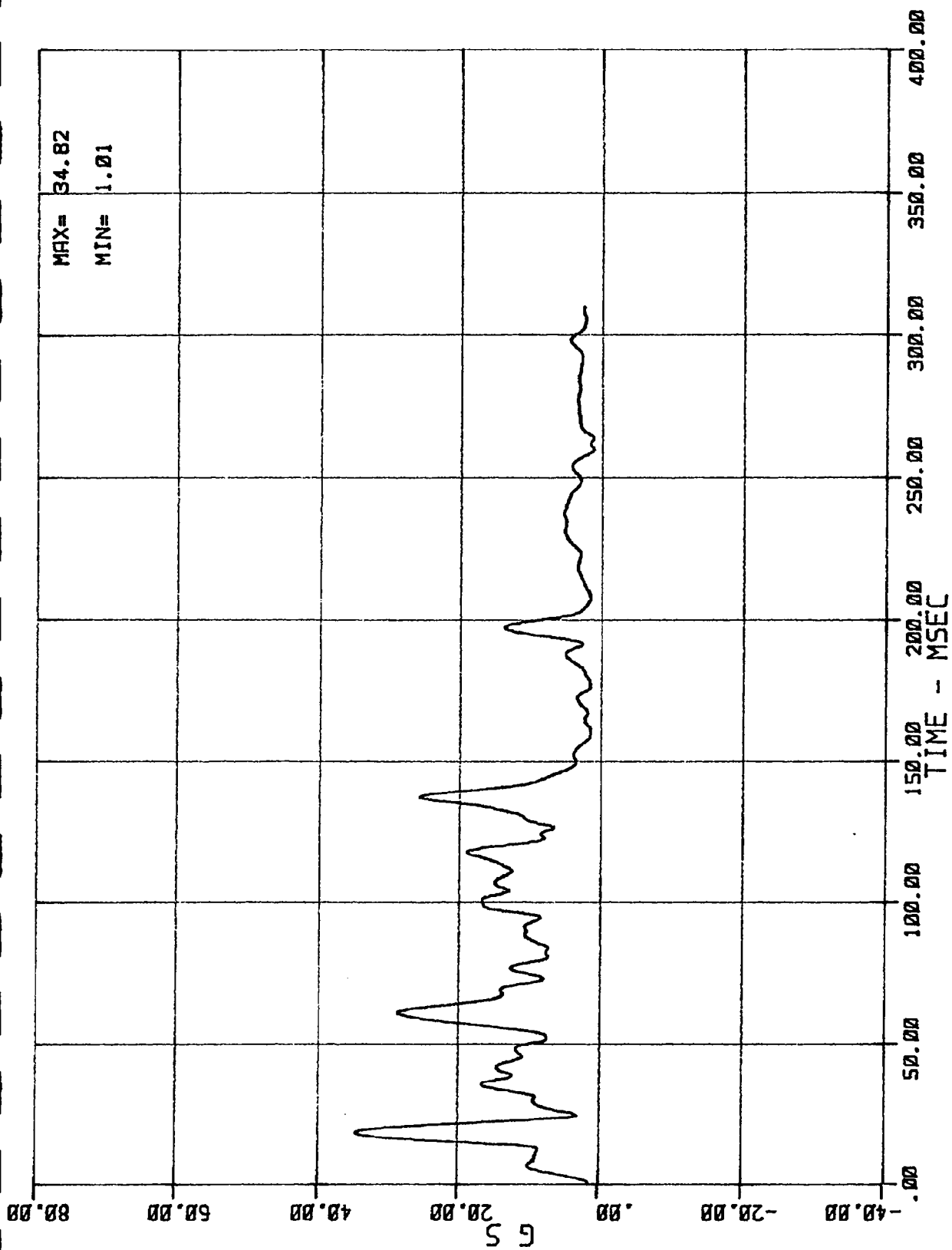
16 AC 01 N ENG Y (ENGINE ACCEL. -- Y AXIS)
MSE F08064 1981 VW RABBIT

05/29/84



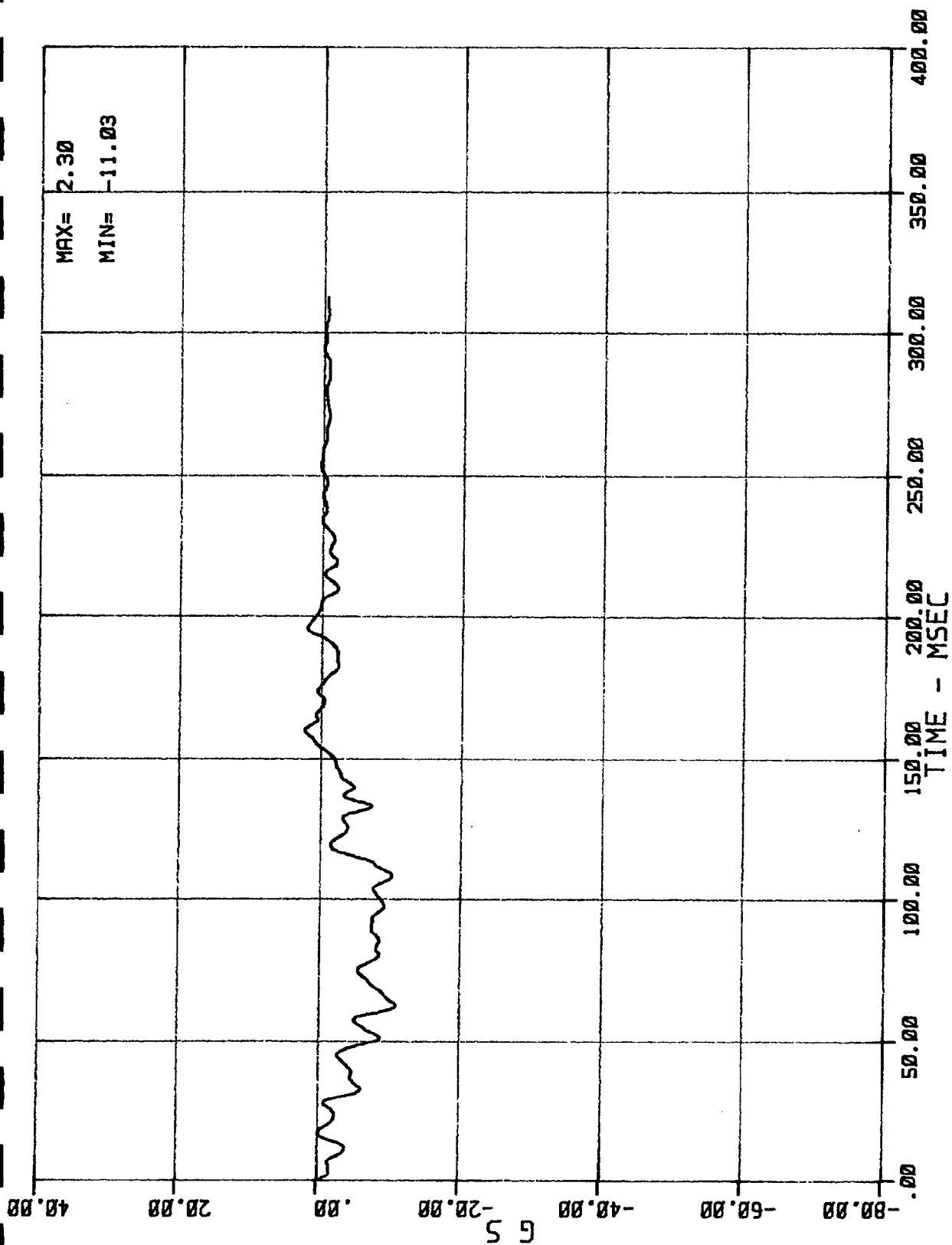
17 AC 01 N ENG Z (ENGINE ACCEL. -- Z AXIS)
MSE F08064 1981 VW RABBIT

05/29/84

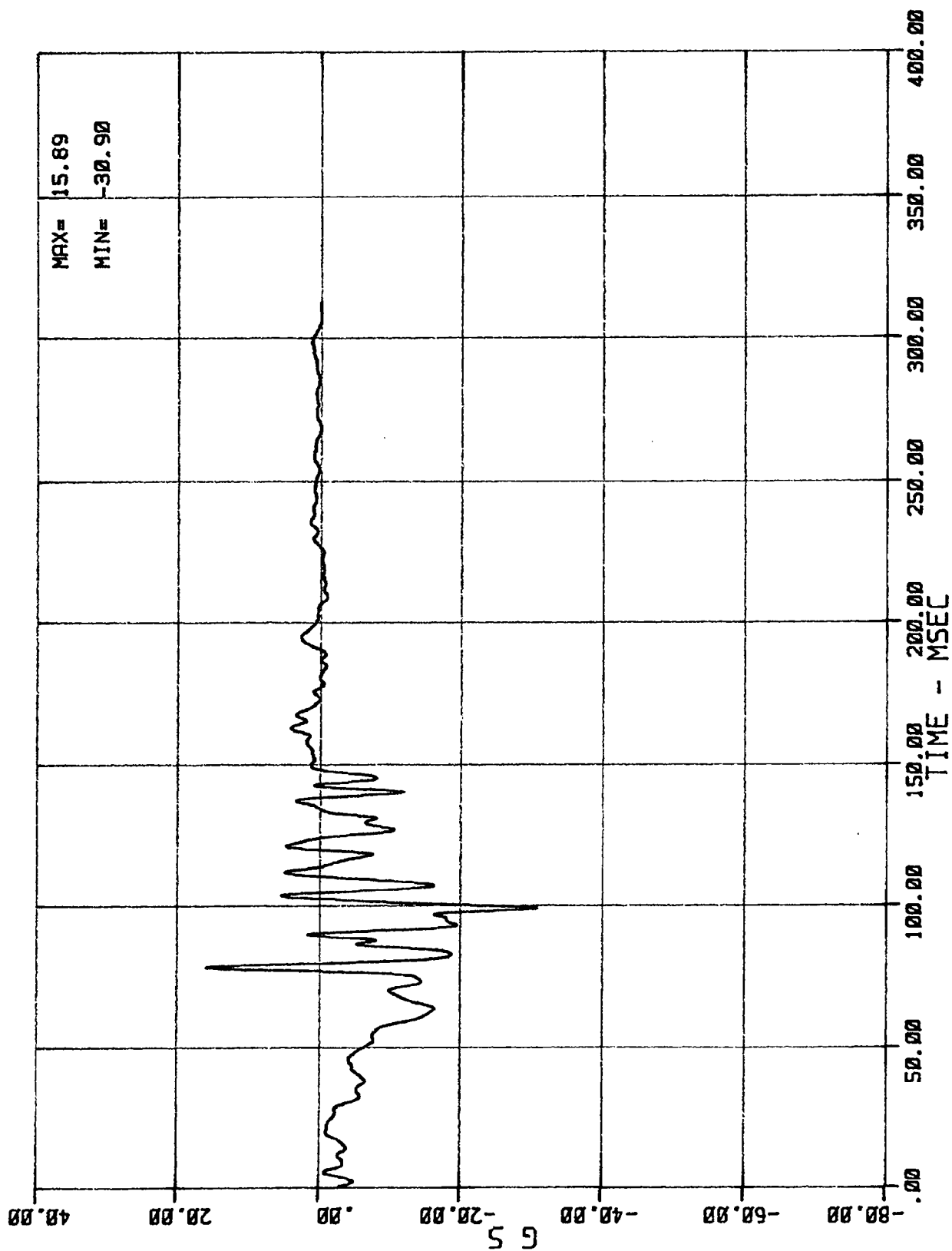


ENGINE RESULTANT ACCELERATION
MSE F08064 1981 VW RABBIT

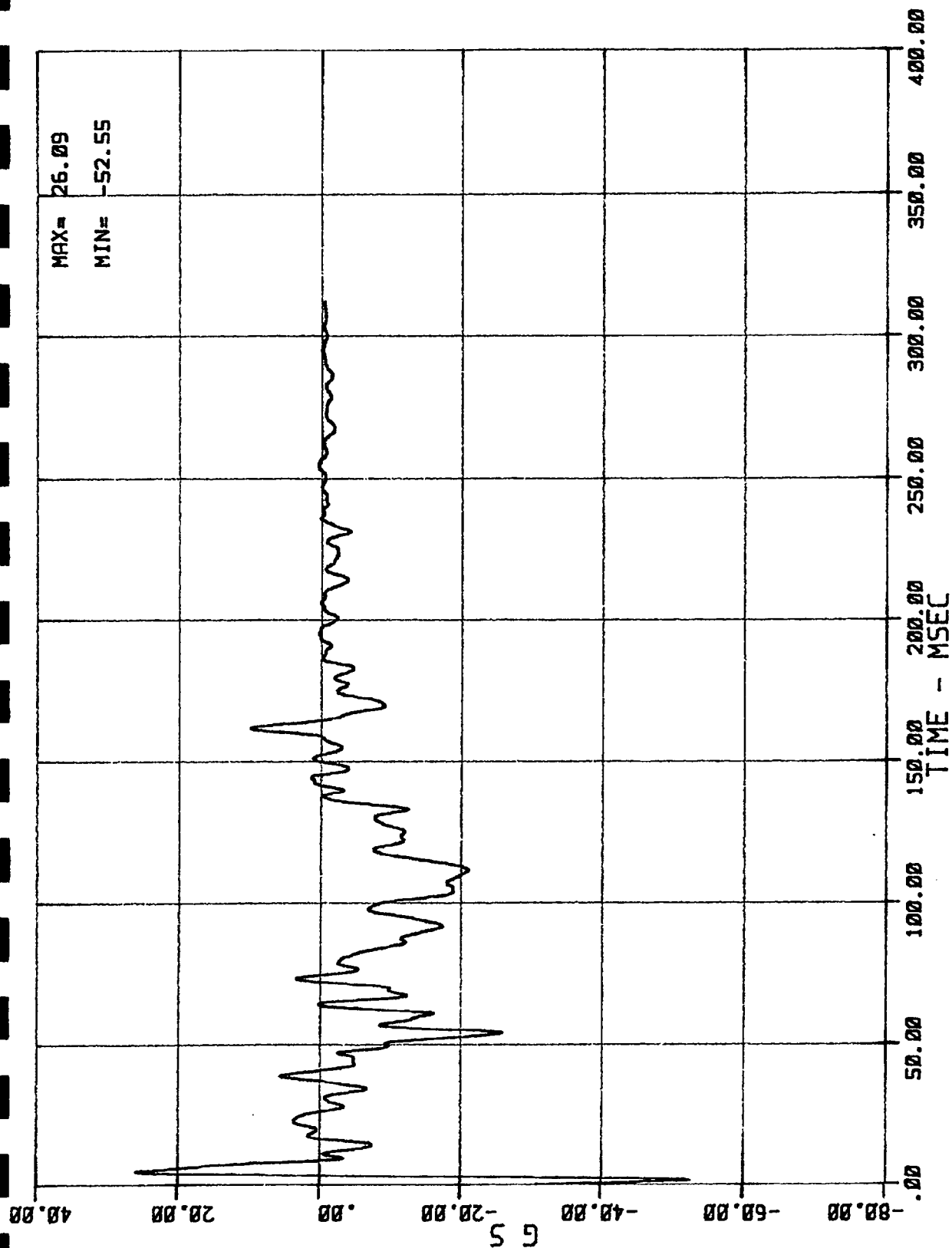
05/29/84



18 AC 01 N FFC X (FRONT CROSSMEMBER, LEFT SIDE ACCEL. --- X AXIS)
MSE F08064 1981 VW RABBIT 05/29/84

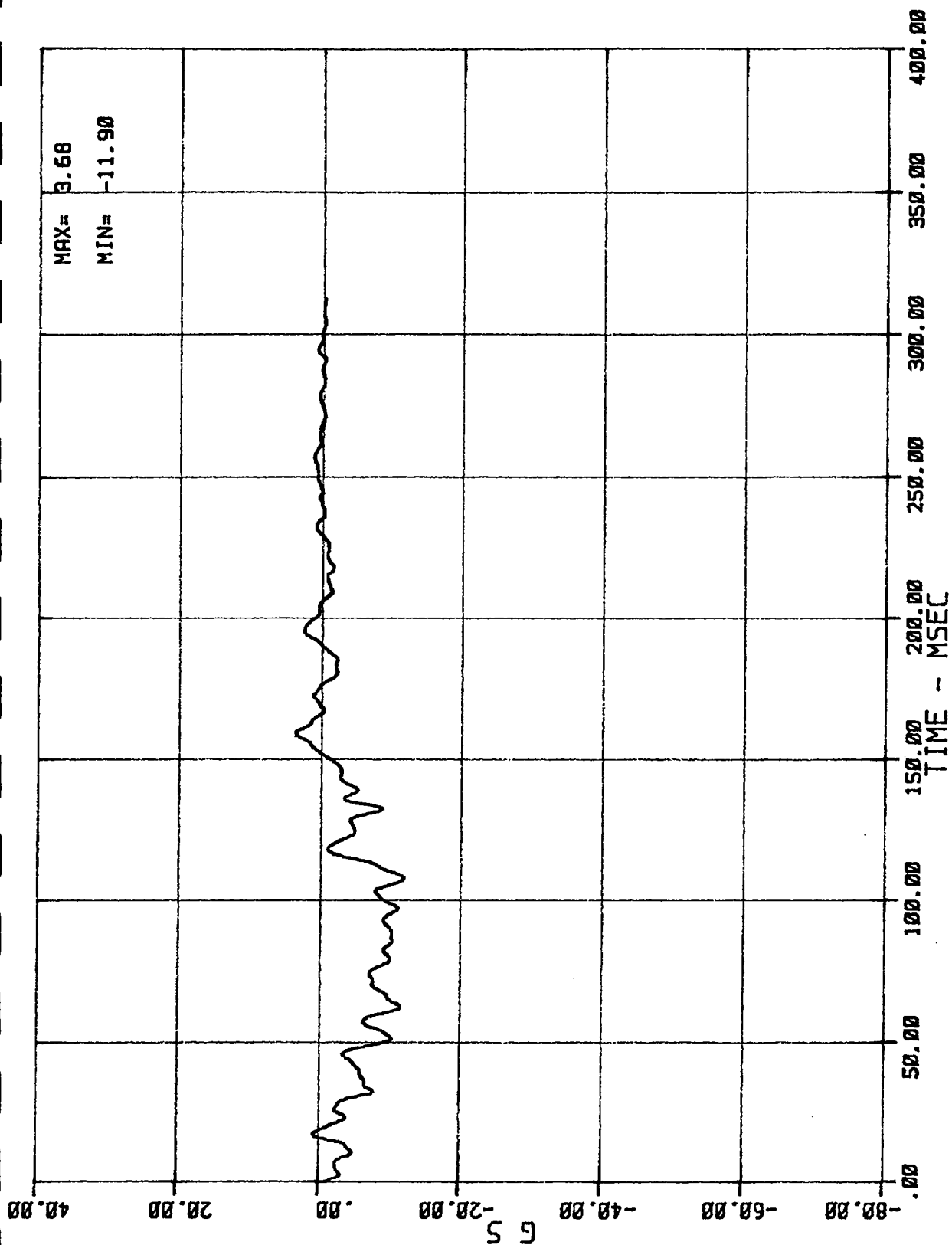


19 AC 01 N FFC X (FRONT CROSSMEMBER, RIGHT SIDE ACCEL. -- X AXIS)
MSE F08064 1981 VW RABBIT
05/29/84



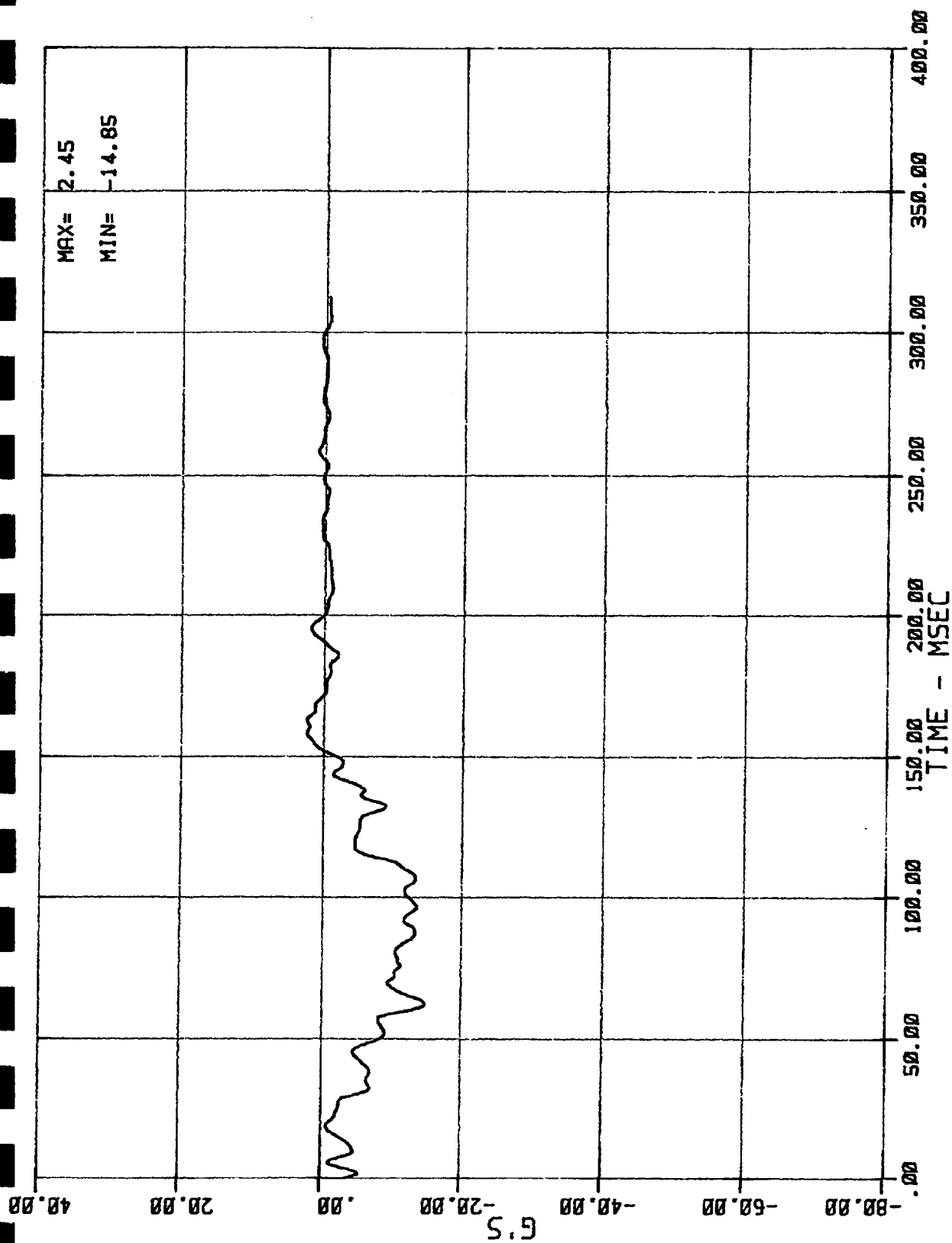
20 AC 01 N FVL X (FIREWALL ACCEL. -- X AXIS)
MSE F08064 1981 VW RABBIT

05/29/84



21 AC 01 N LFF X (LEFT FRONT FLOOR ACCEL, --- X AXIS)
MSE F08064 1981 VW RABBIT

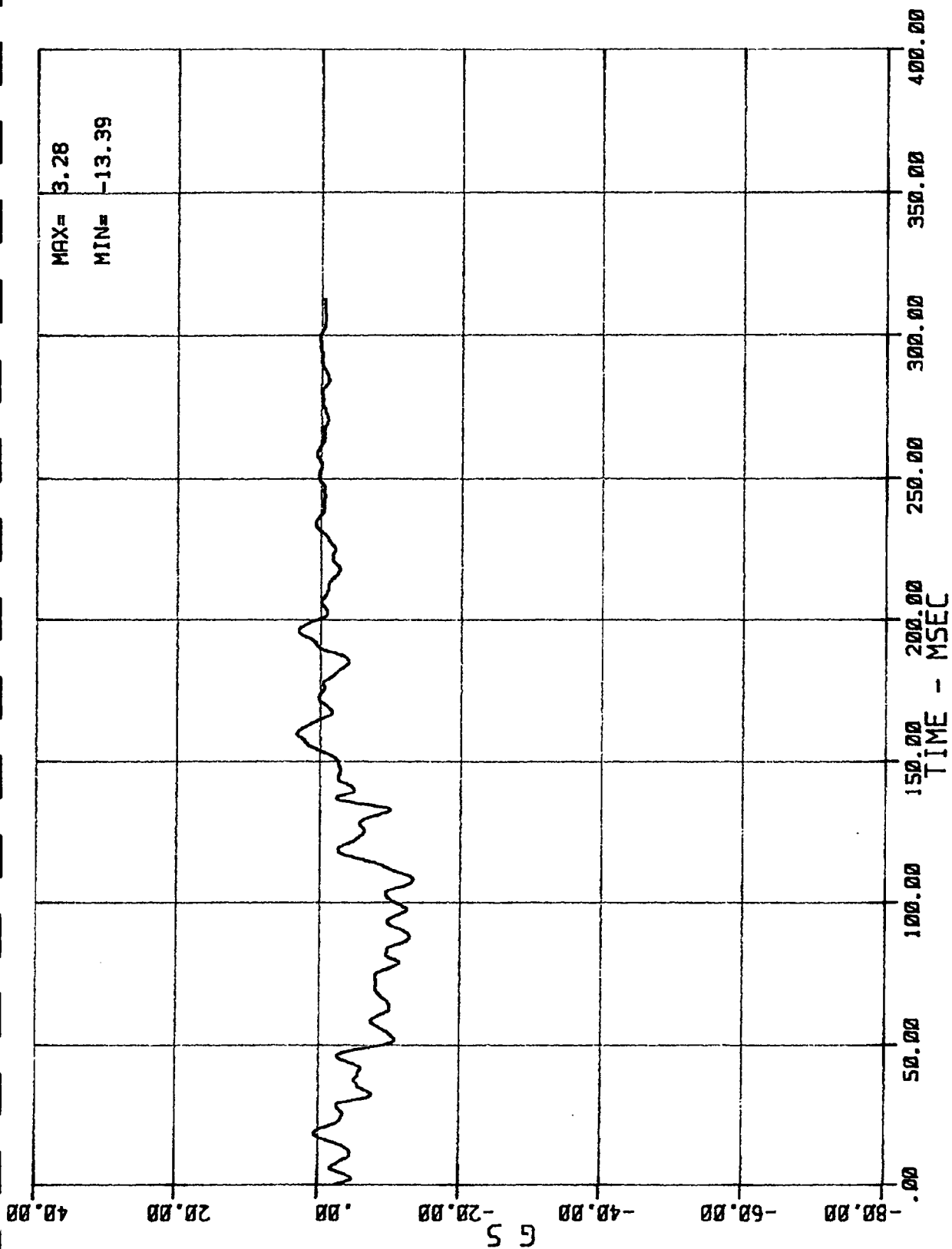
05/29/84



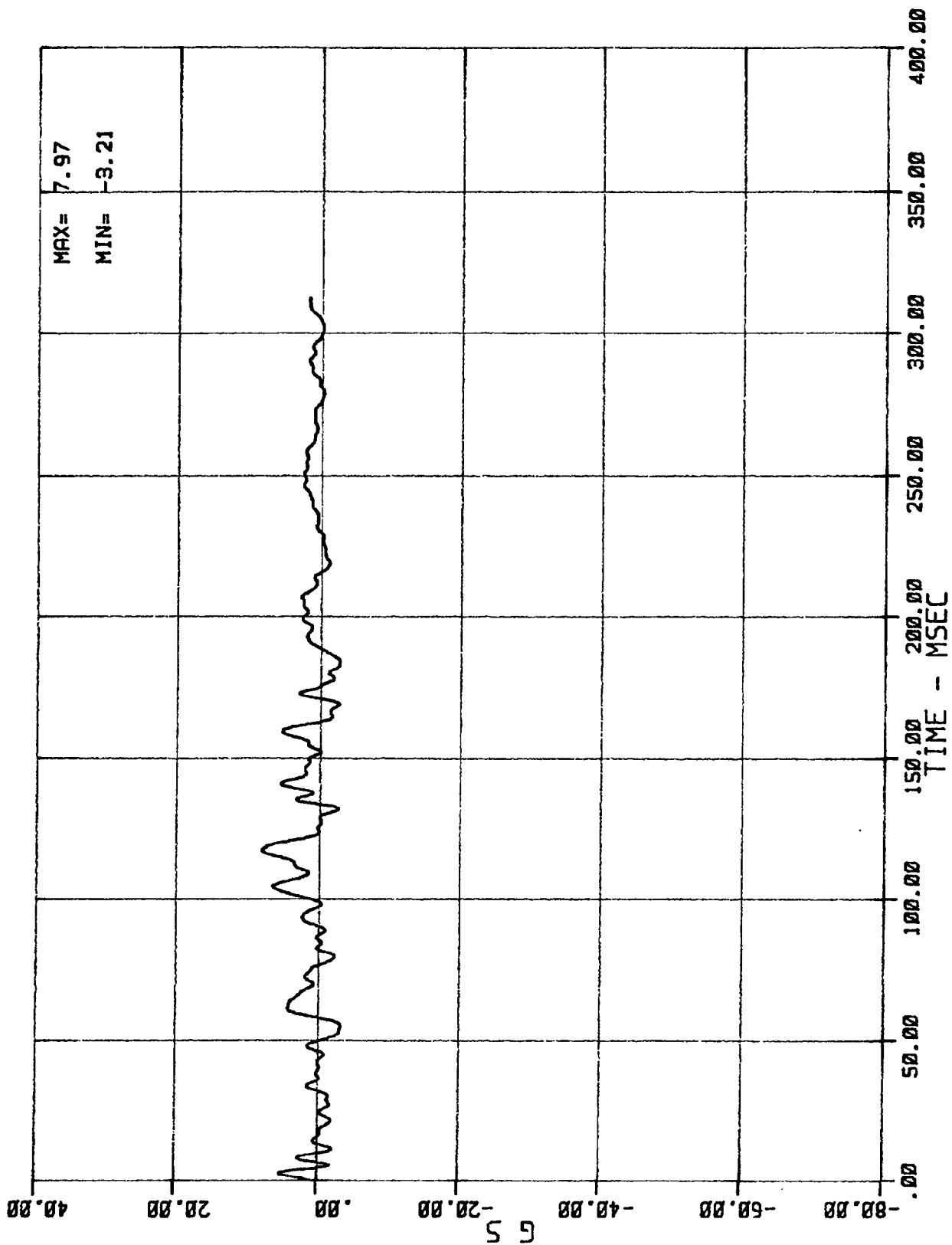
22 AC 01 N RFF X (RIGHT FRONT FLOOR ACCEL. -- X AXIS)

MSE F08064 .1981 VW RABBIT

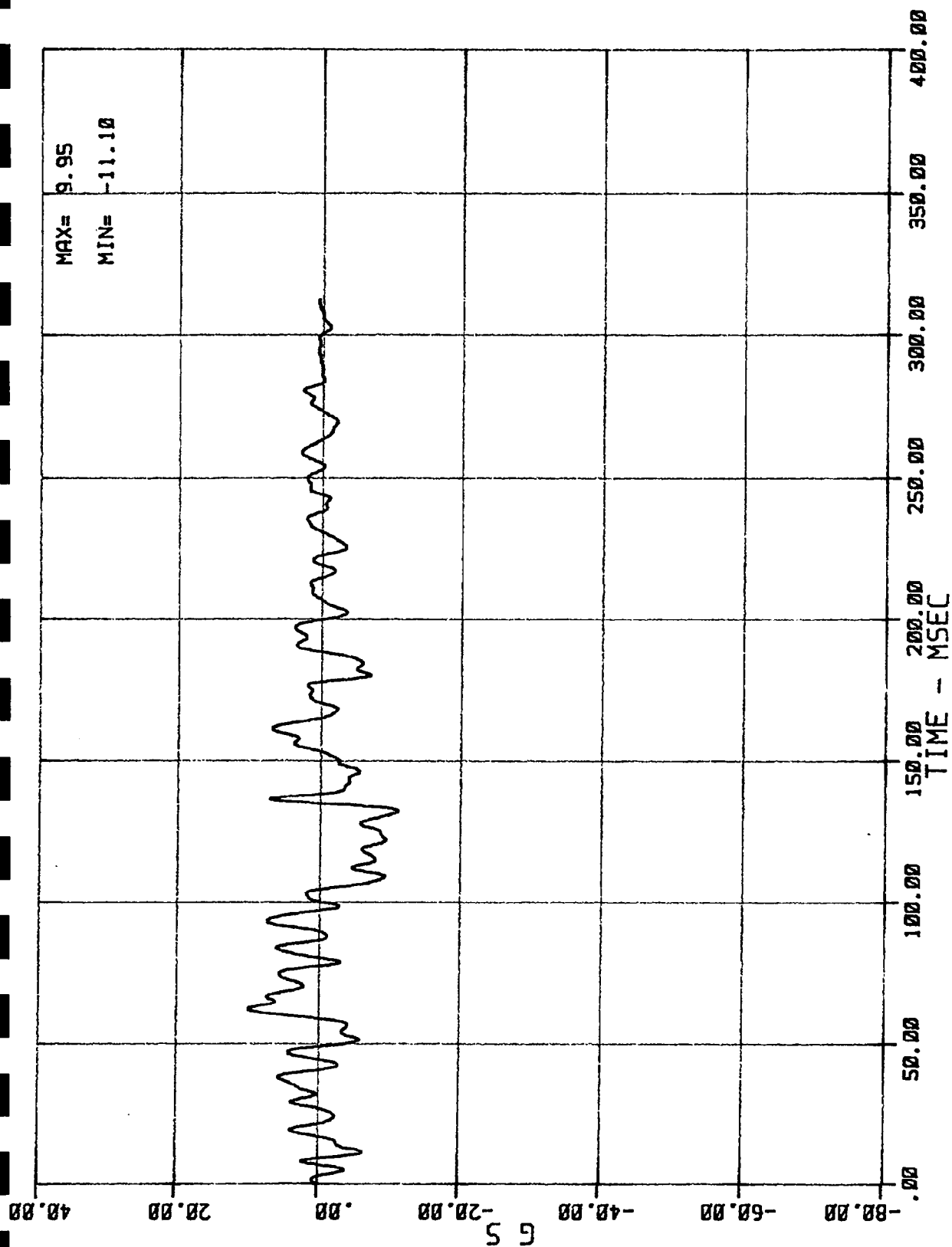
05/29/84



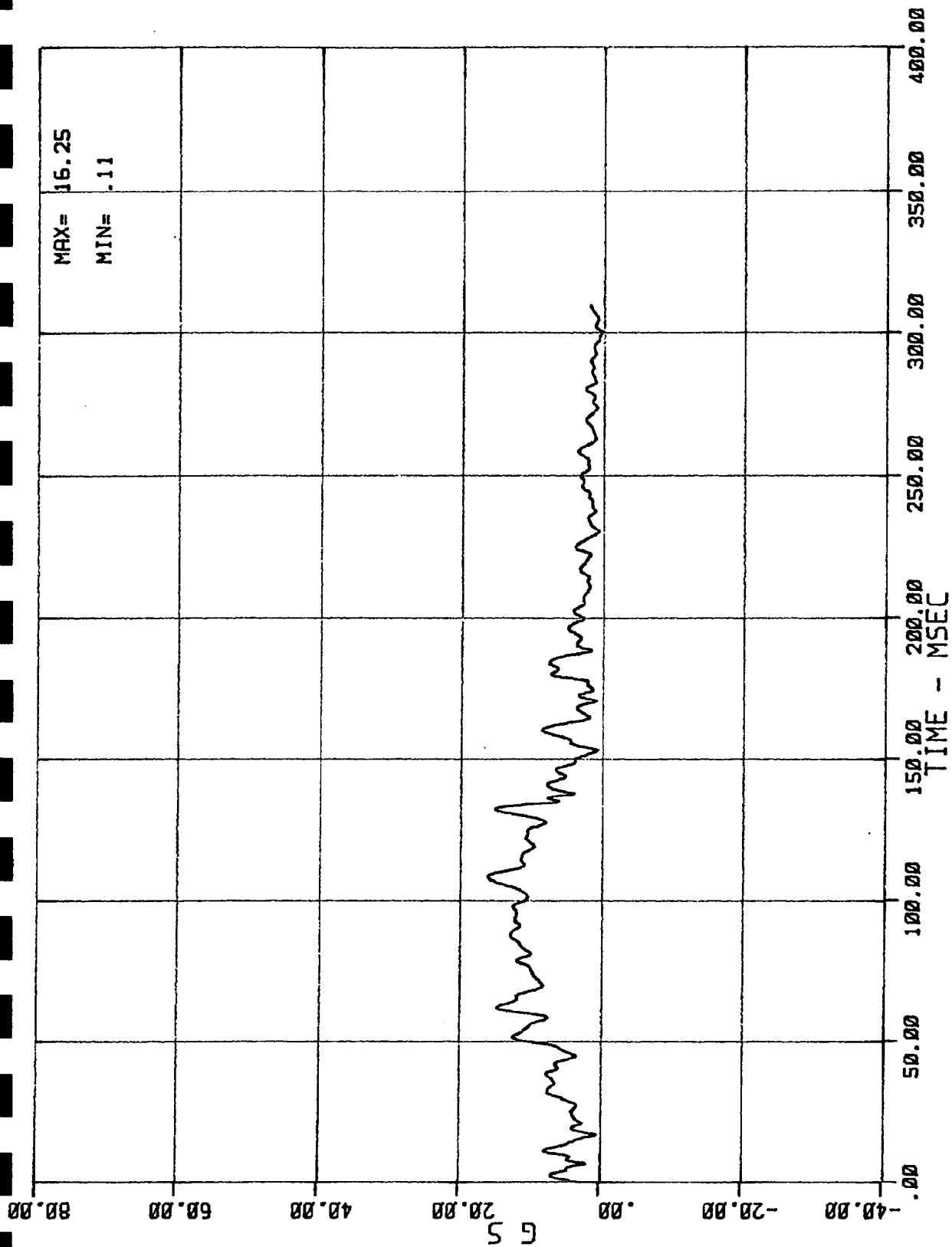
23 AC 01 N VCG X (VEHICLE CG ACCEL. -- X AXIS) CLASS 60 FILTER
MSE F08064 1981 VW RABBIT 05/29/84



24 AC 01 N VCG Y (VEHICLE CG ACCEL. -- Y AXIS) CLASS 60 FILTER
MSE F08064 1981 VW RABBIT 05/29/84

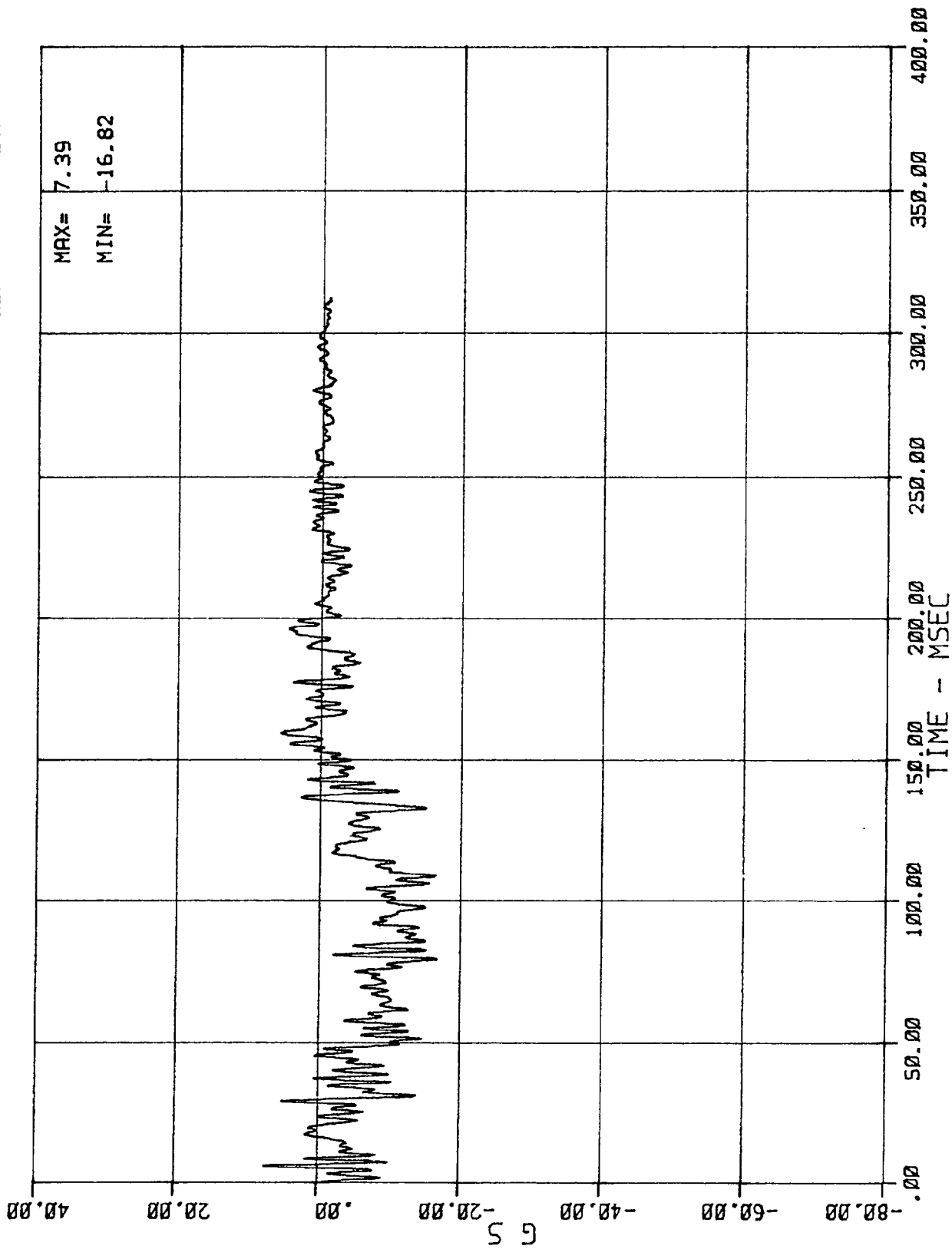


25 AC 01 N VCG Z (VEHICLE CG ACCEL. -- Z AXIS) CLASS 60 FILTER
MSE F08064 1981 VW RABBIT 05/29/84

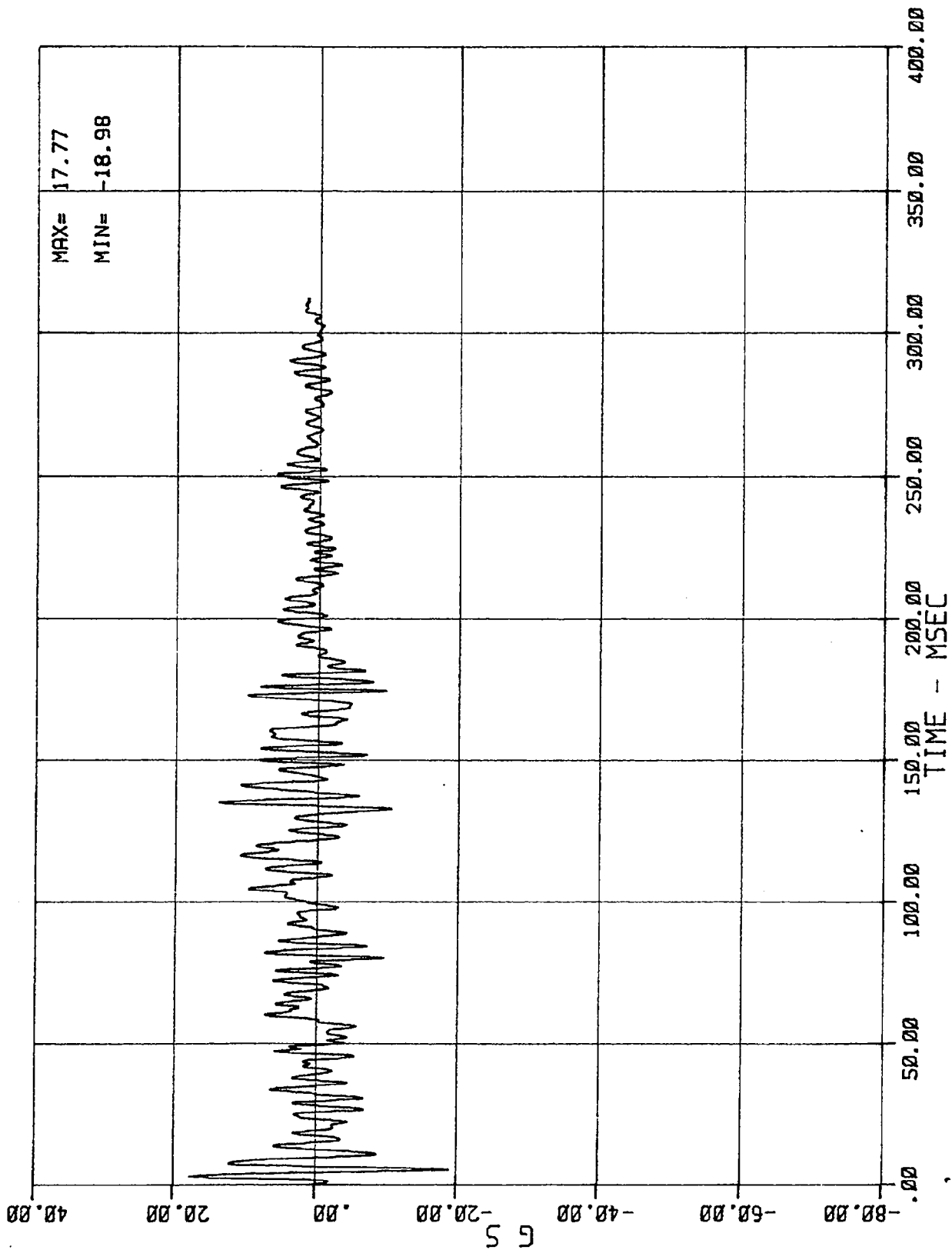


VEHICLE CG RESULTANT ACCELERATION CLASS 60 FILTER
MSE F08064 1981 VW RABBIT

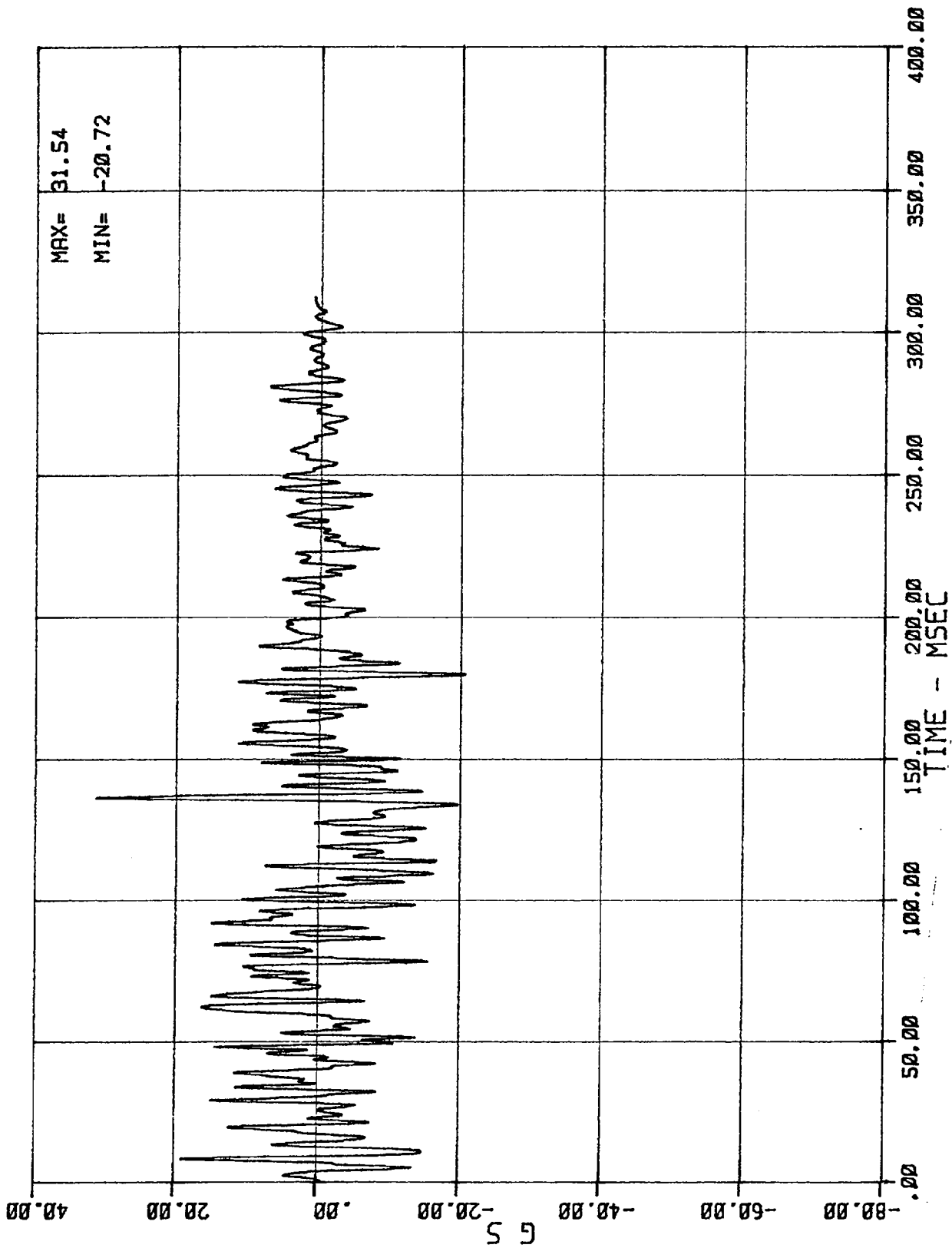
05/29/84



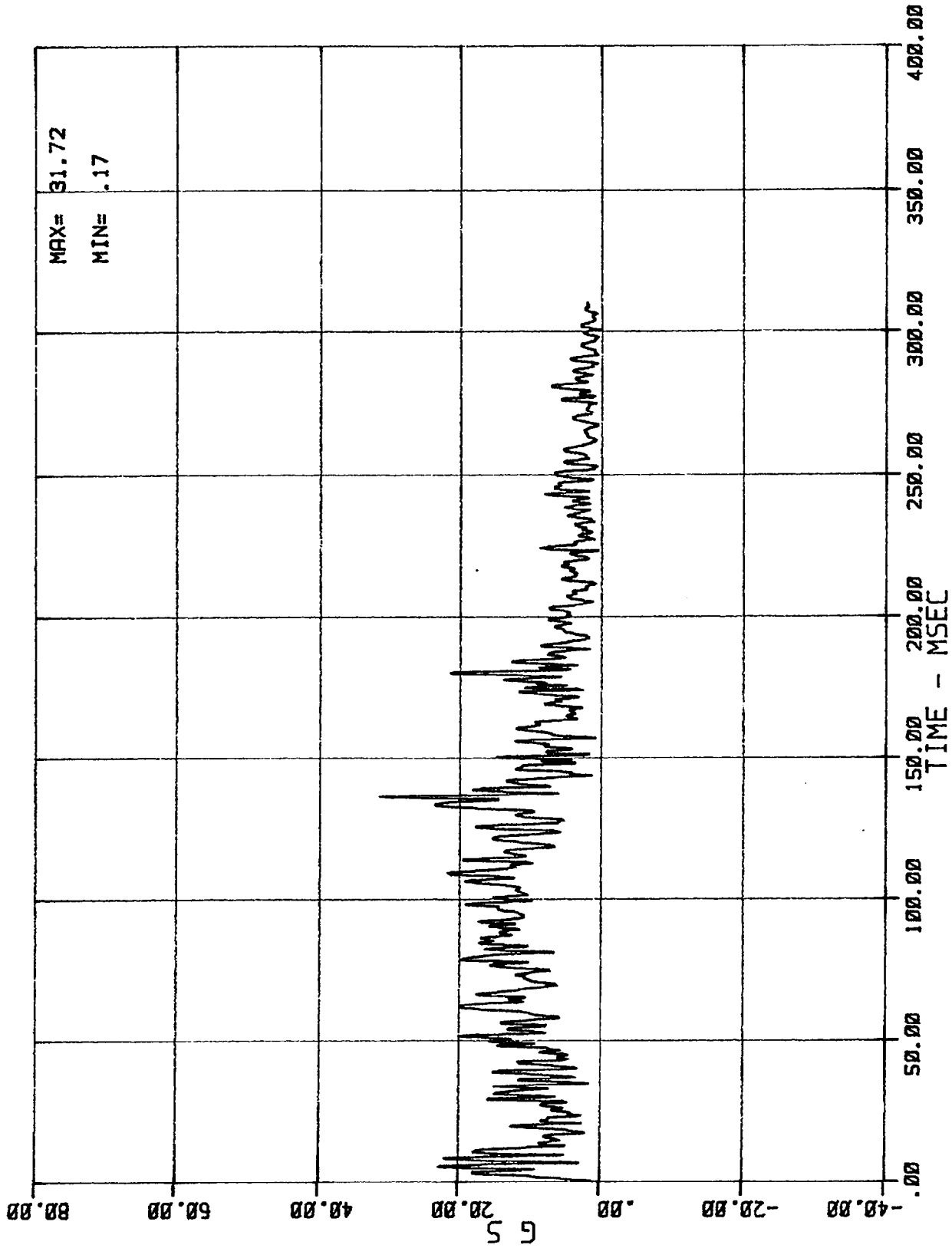
23 AC 01 N VCG X (VEHICLE CG ACCEL. -- X AXIS) CLASS 180 FILTER
MSE F08064 1981 VW RABBIT 05/29/84



24 AC 01 N VCG Y (VEHICLE CG ACCEL. --- Y AXIS) CLASS 180 FILTER
MSE F08064 1981 VW RABBIT 05/29/84



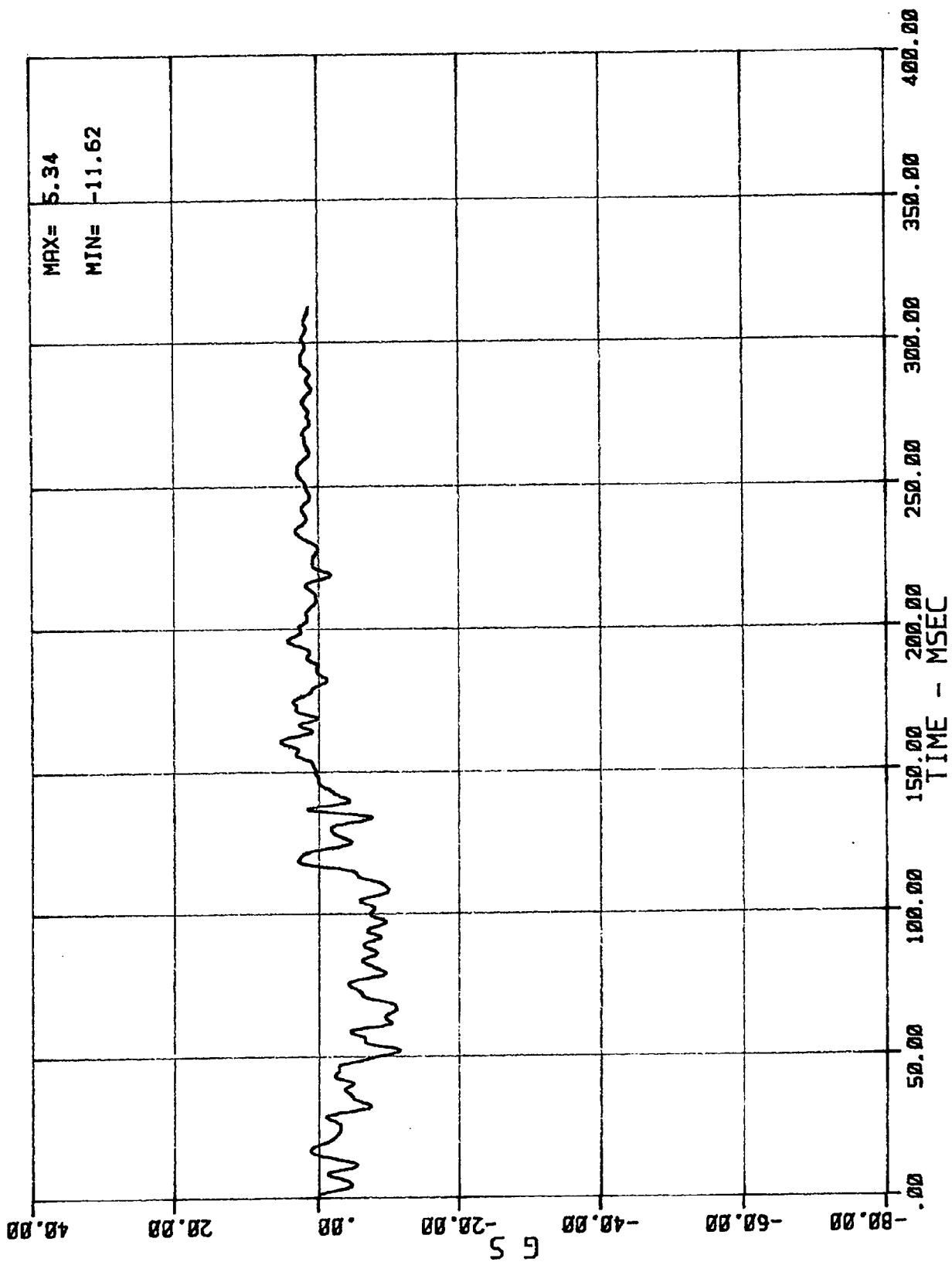
25 AC 01 N VCG Z (VEHICLE CG ACCEL. -- Z AXIS) CLASS 180 FILTER
MSE F08064 1981 VW RABBIT 05/29/84



VEHICLE CG RESULTANT ACCELERATION CLASS 180 FILTER

MSE F08064 1981 VW RABBIT

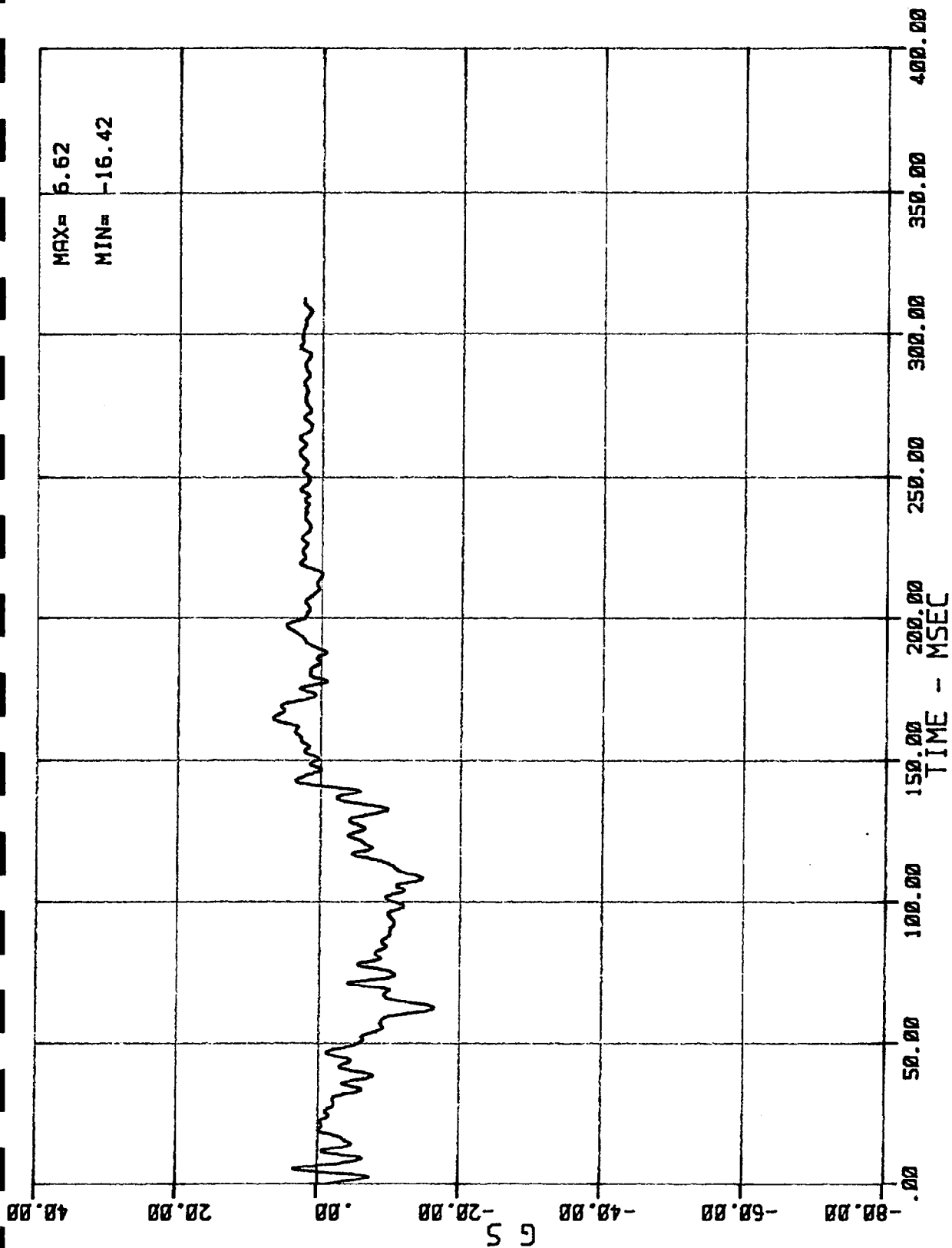
05/29/84



26 AC 01 N LRF X (LEFT REAR FLOOR ACCEL. --- X AXIS)

MSE F08064 1981 VW RABBIT

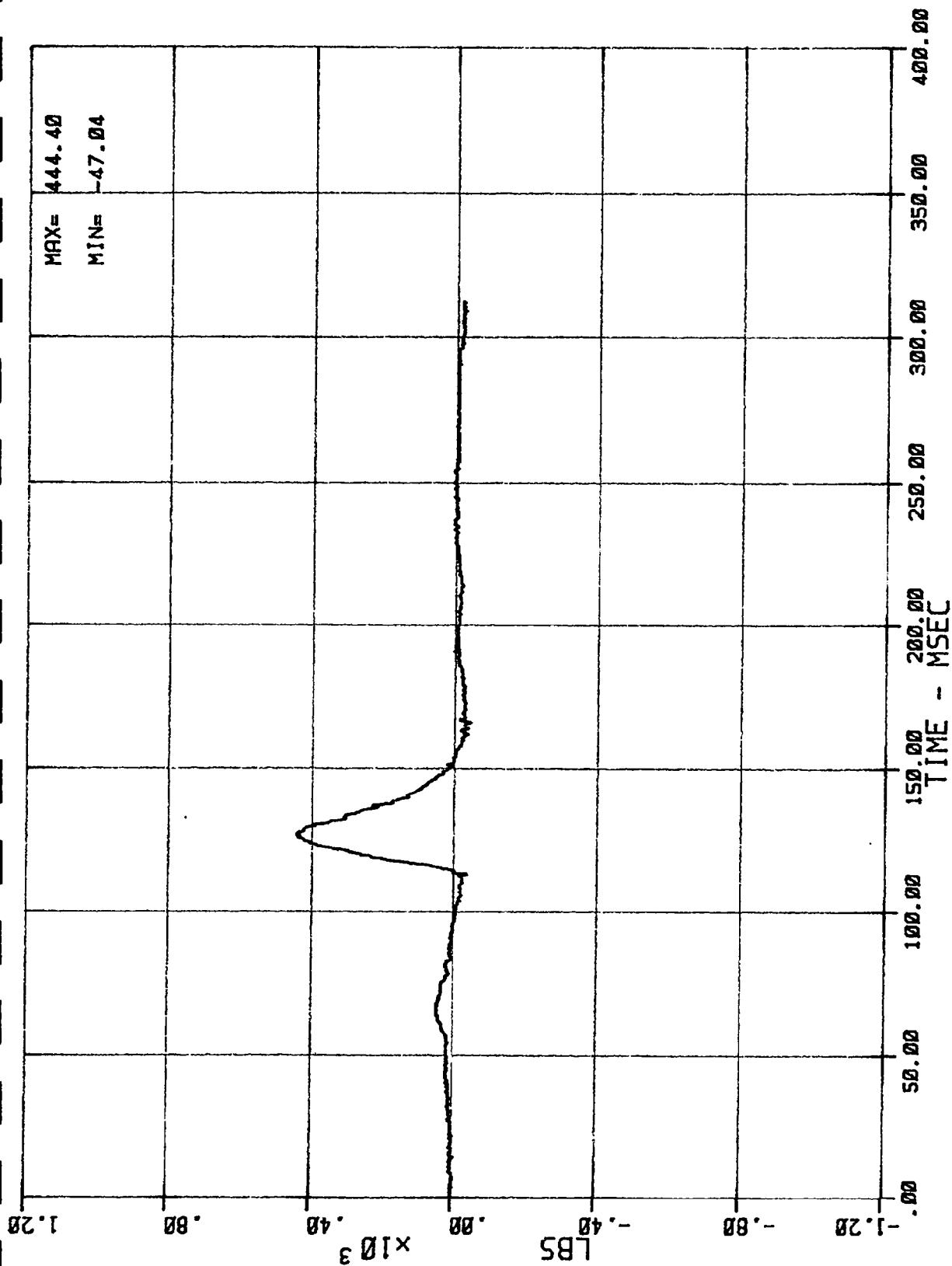
05/29/84



27 AC 01 N RRF X (RIGHT REAR FLOOR ACCEL. -- X AXIS)

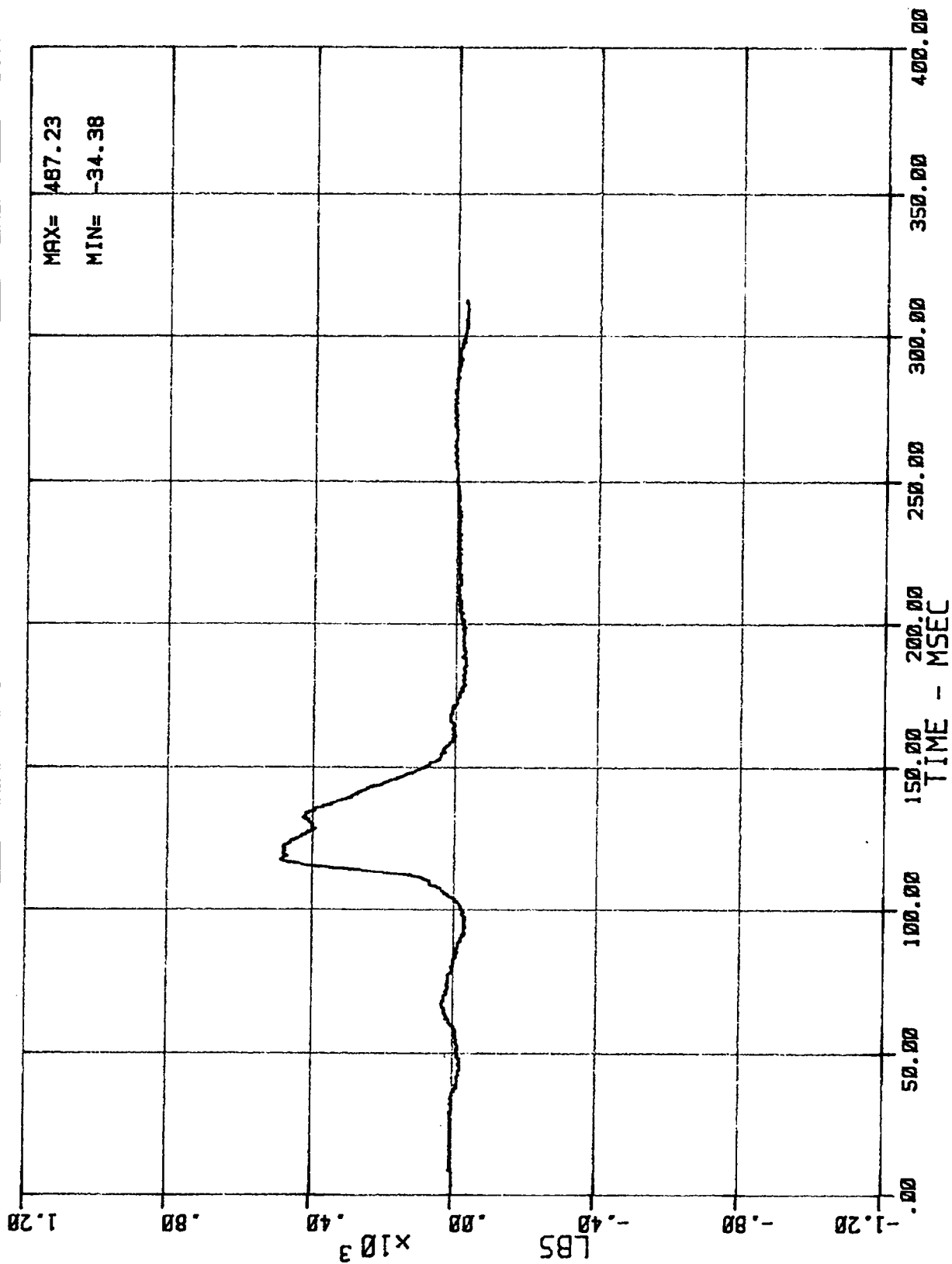
MSE F08064 1981 VW RABBIT

05/29/84



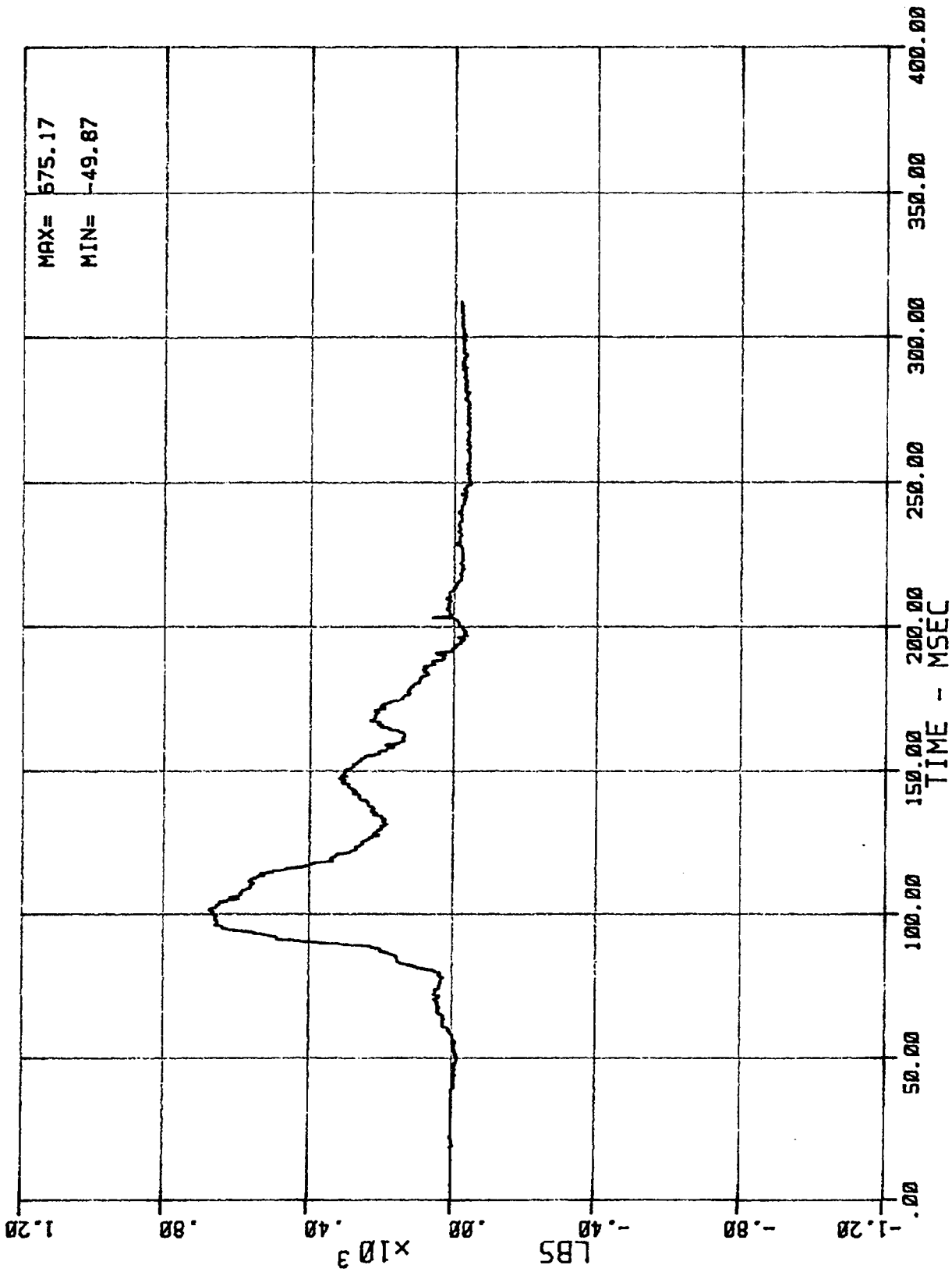
28 LC 01 1 LFM 0 (DRIVER LEFT FEMUR FORCE)
MSE F08064 1981 VW RABBIT

05/29/84



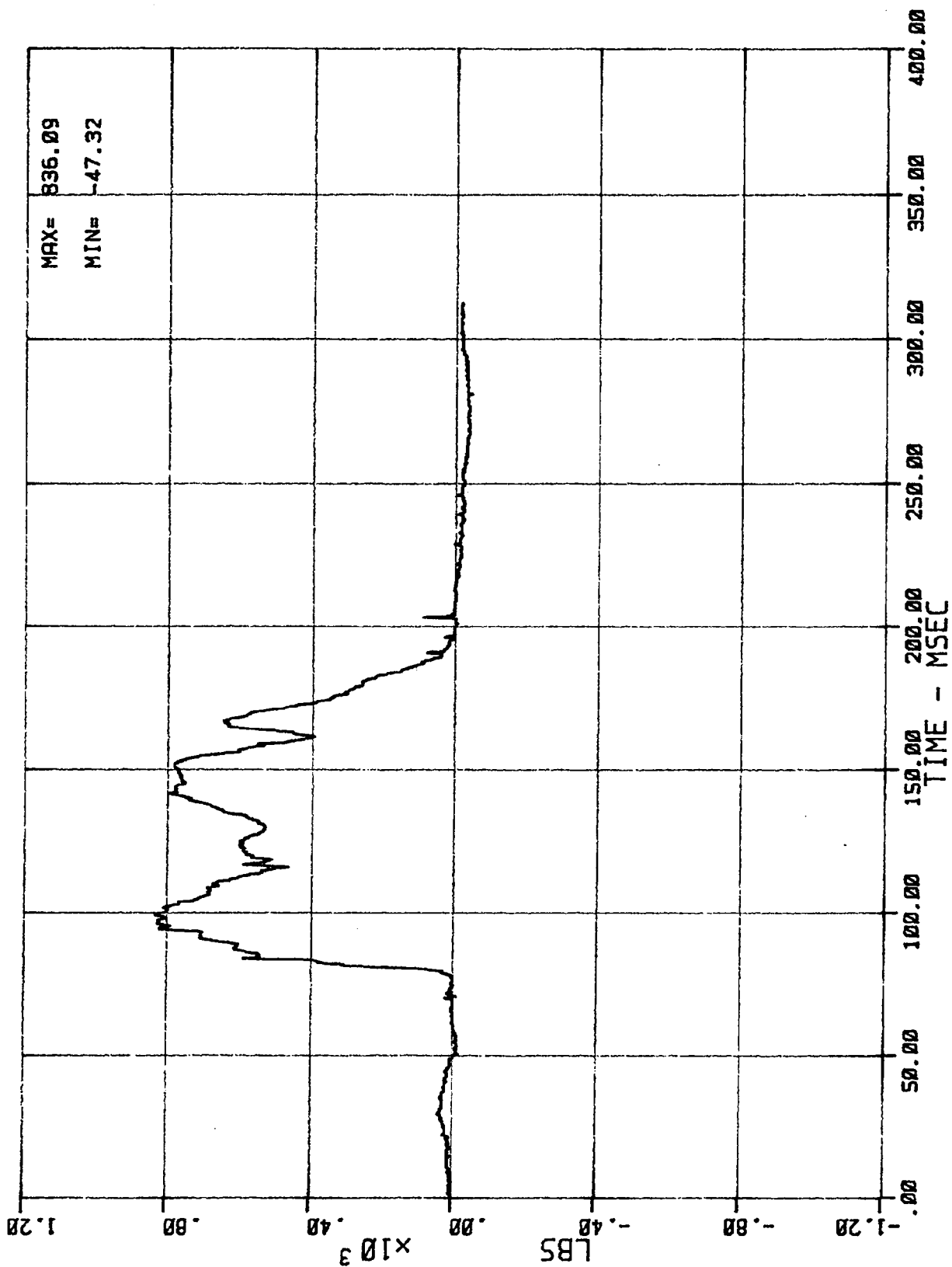
29 LC 01 1 RFM 0 (DRIVER RIGHT FEMUR FORCE)
MSE F08064 1981 VW RABBIT

05/29/84



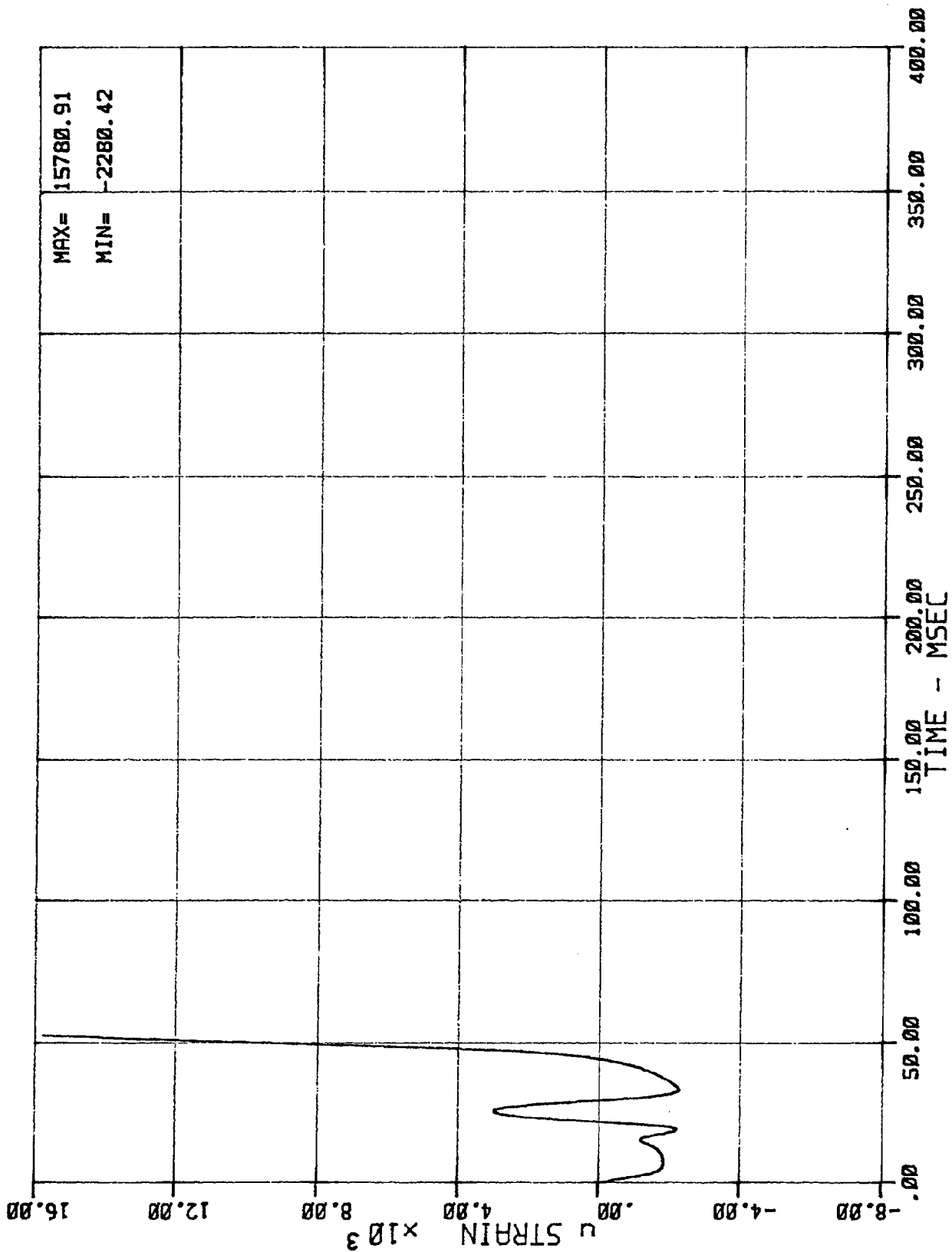
30 LC 01 2 LFM 0 (PASSENGER LEFT FEMUR FORCE)
NSE F08064 1981 VW RABBIT

05/29/84



31 LC 01 2 RFM 0 (PASSENGER RIGHT FEMUR FORCE)
MSE F08064 1981 VW RABBIT

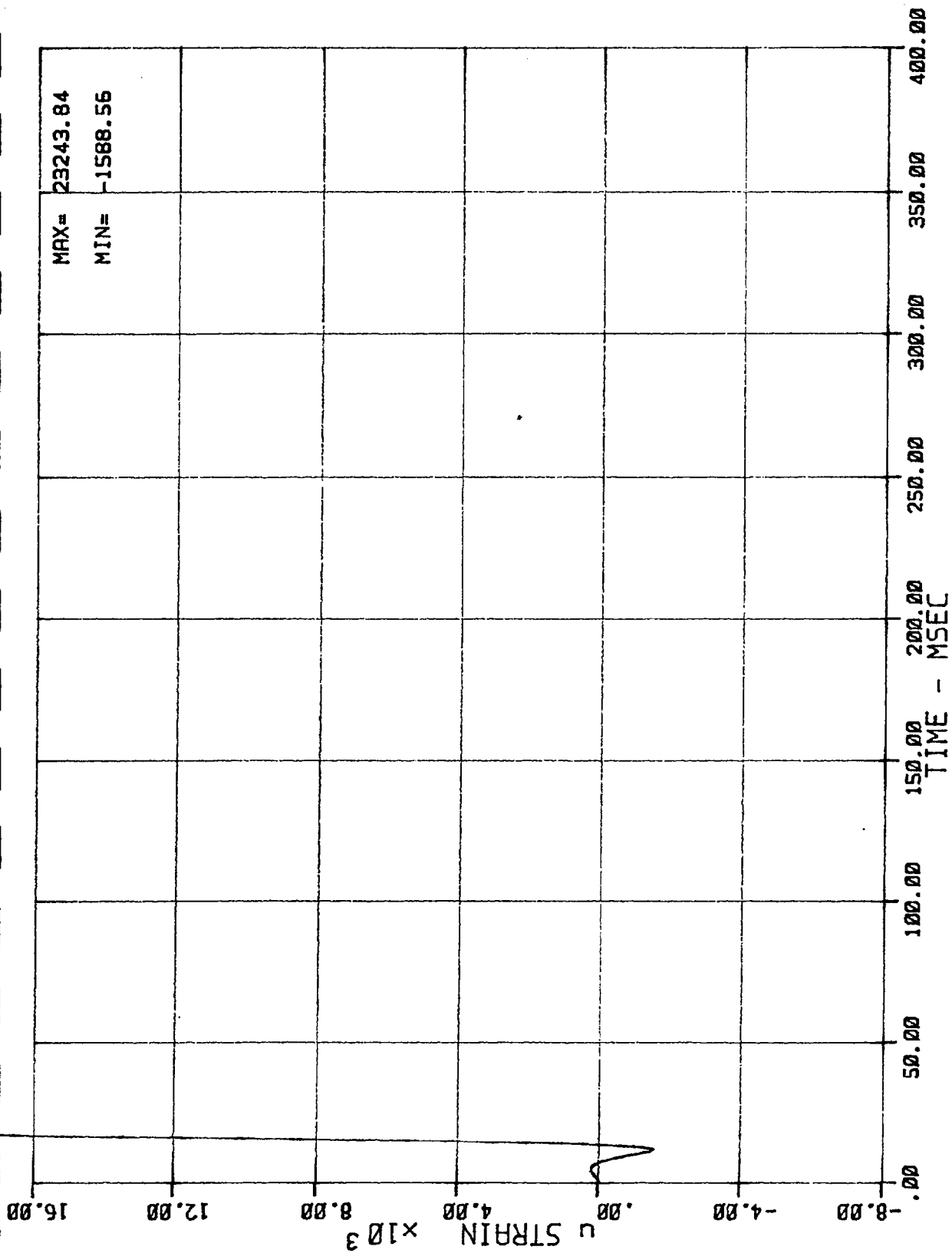
05/29/84



32 SG BA N BFC (FRONT POST RIGHT FLANGE STRAIN GAGE)

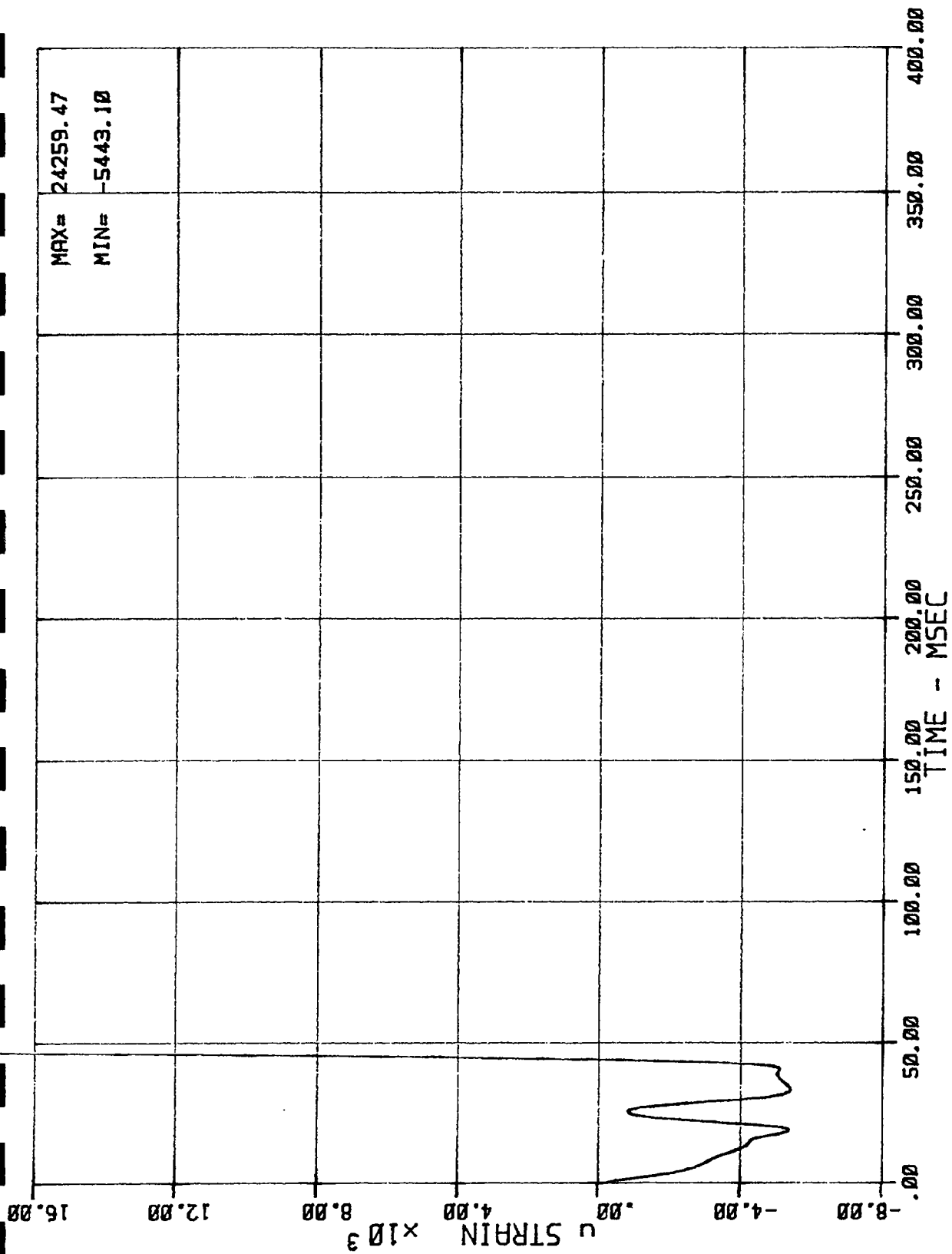
MSE F08064 1981 VW RABBIT

05/29/84



33 SG BA N BFC (FRONT POST WEB STRAIN GAGE)
MSE F08064 1981 VW RABBIT

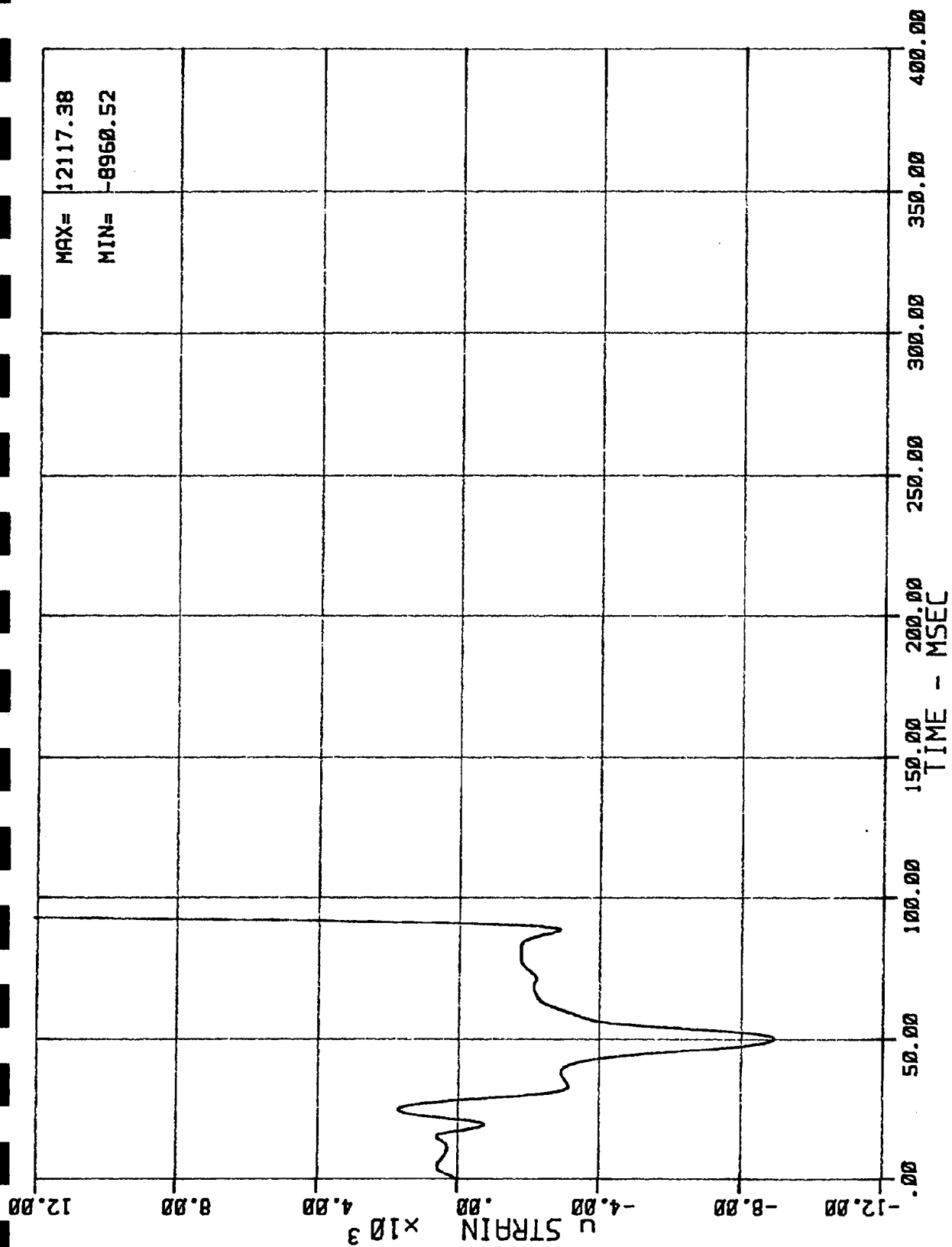
05/29/84



34 SG BA N BFC (FRONT POST LEFT FLANGE STRAIN GAGE)

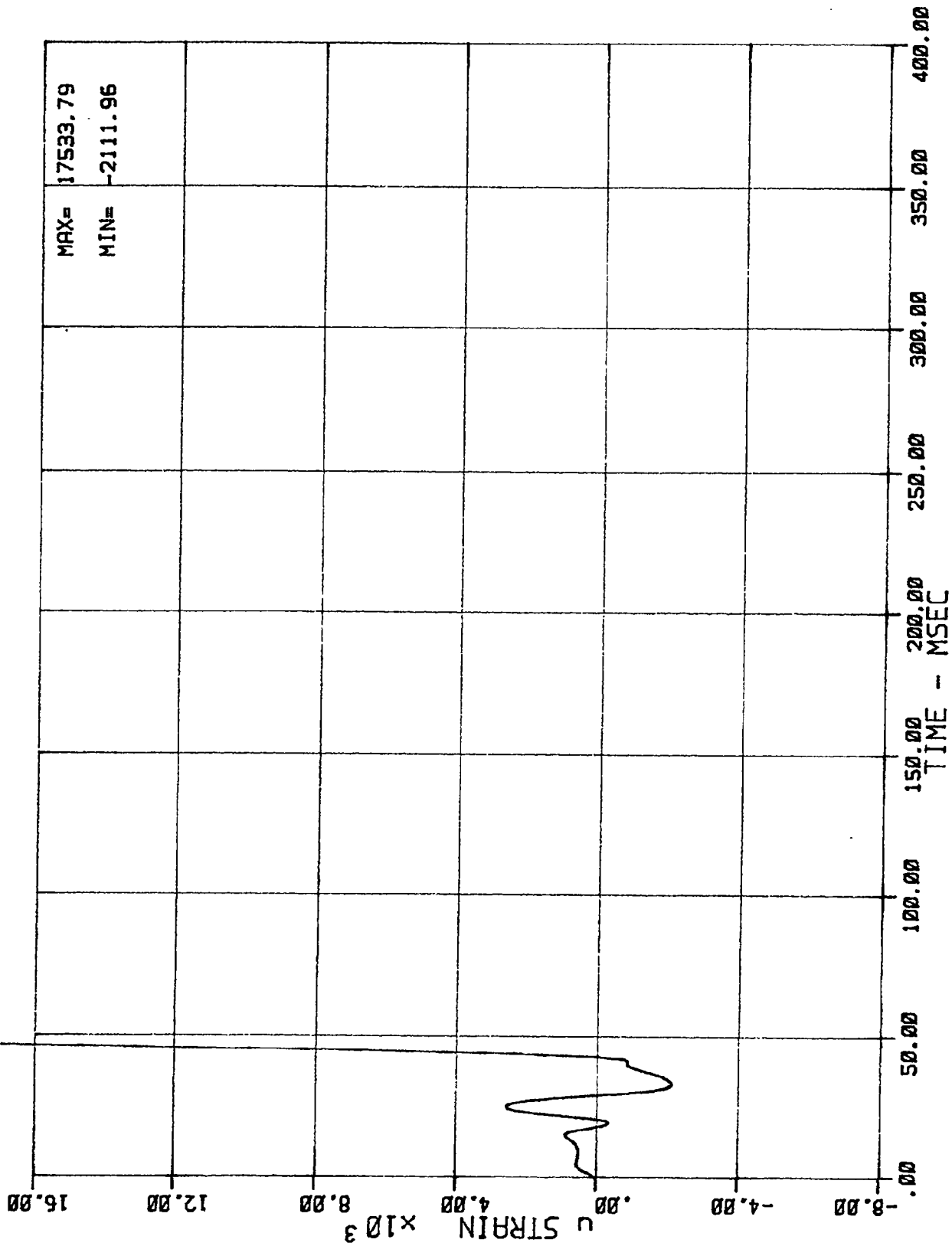
MSE F00064 1981 VW RABBIT

05/29/84



35 SG BA N BFC (REAR POST RIGHT FLANGE STRAIN GAGE)
MSE F08064 1981 VW RABBIT

05/29/84



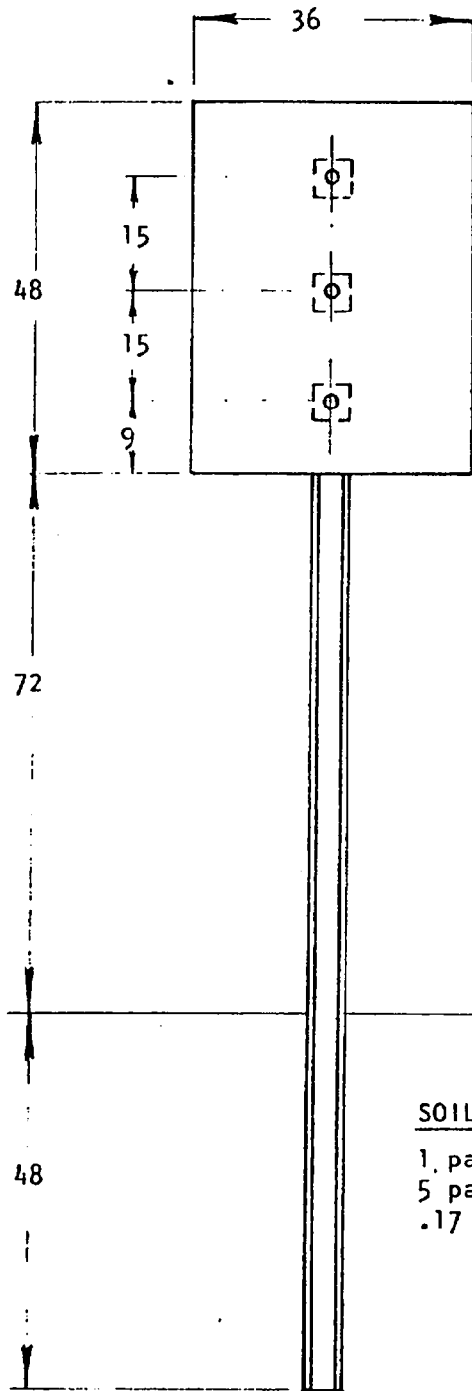
37 SG BA N BFC (REAR POST LEFT FLANGE STRAIN GAGE)

MSE F08064 1981 VW RABBIT

05/29/84

APPENDIX C
TEST ARTICLE CONSTRUCTION DETAILS

SIGN POST INSTALLATION



3: 2 in. x 4 1/2 in. x 0.125 in.
aluminum back-up plates between
sign panel and post.

2: 3 lb/ft ductile steel U posts
fabricated from ASTM A 607
sheet steel bolted together back-
to-back using 5/16 inch grade 5
bolts with lockwasher, and nut
rear post.

Ground Level

SOIL

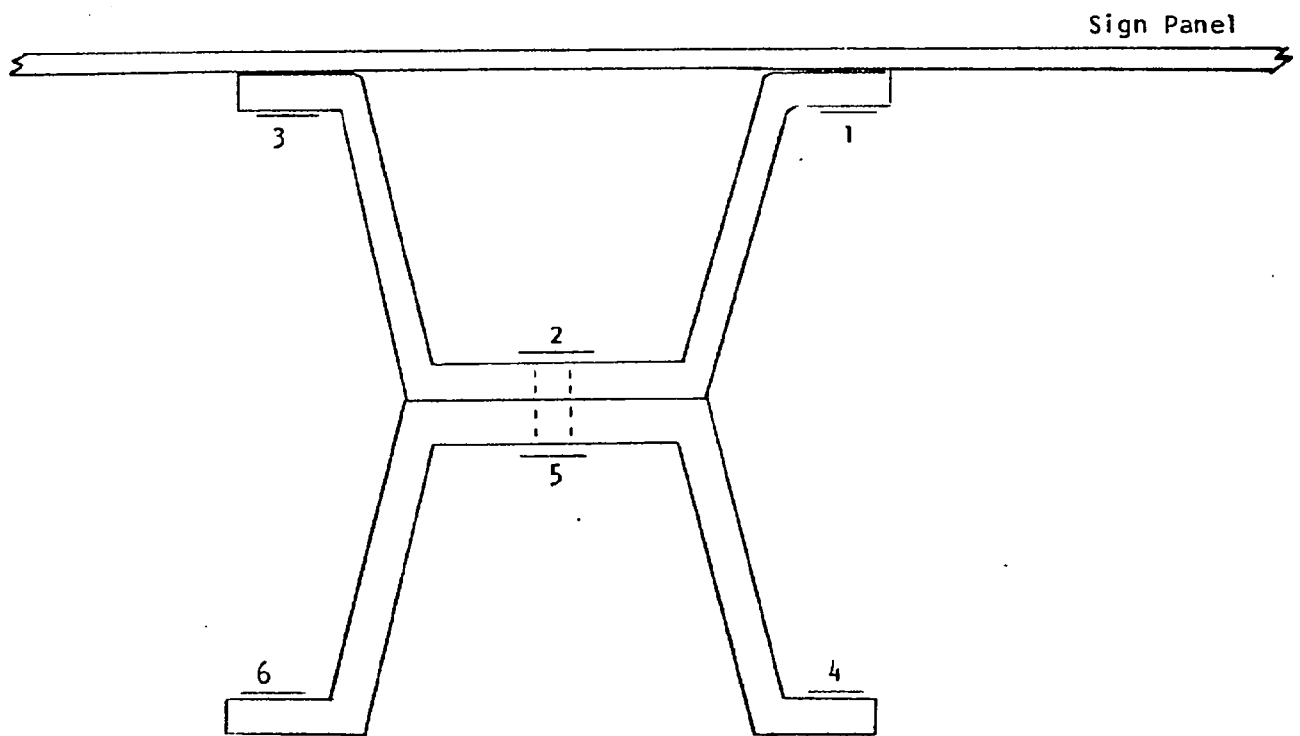
1 part clay
5 part sand
.17 part water

SIEVE ANALYSIS

Clay:	100% passes 200 mesh
Sand:	4.7% passes 200 mesh
	11.0% passes 100 mesh
	26.4% passes 50 mesh
	37.3% passes 40 mesh
	48.7% passes 30 mesh
	73.0% passes 16 mesh
	94.9% passes 8 mesh
	100 % passes 4 mesh

All dimensions are in inches.

STRAIN GAGE LOCATIONS



Top View

All Strain Gages Are Attached 8 Inches Above Ground Level.

APPENDIX D
VEHICLE WEIGHT DATA

APPENDIX D
SMALL SIGN SUPPORT TEST, PHASE I, SIGN SUPPORT TEST NO. 6

1981 VW Rabbit Vehicle Weight Adjustment Data

Weight of Vehicle as Received: 1,970 lbs.

Weight of Parts Removed:

Rear Door	33 lbs.
Rear Seat	34 lbs.
Sun Roof and Rear Windows	29 lbs.
Rear Bumper	24 lbs.
Gas Tank, Fuel	44 lbs.
Muffler	18 lbs.
Spare Tire, Jack	36 lbs.
Miscellaneous (Fluids, Interior Trim, Tail Lights)	74 lbs.

TOTAL WEIGHT REMOVED: 292 lbs.

Weight of Equipment Added:

Brake Abort System	22 lbs.
Instrument Boxes	126 lbs.
Wiring	18 lbs.

Inertial Weight of Vehicle: 1,844 lbs.

ATD's 331 lbs.

Test Weight of Vehicle: 2,175 lbs.

APPENDIX E
MOVING AVERAGE DATA

APPENDIX E

SMALL SIGN SUPPORT TEST, PHASE I, SIGN SUPPORT IMPACT TEST NO. 6

This appendix contains data calculated for 10 msec and 50 msec moving averages. Prior to performing the moving average process the analog time histories were filtered with a Class 180 filter for the 10 msec average, and a Class 60 filter for the 50 msec average.

For reference:

F0806483 - X Axis Class 180 Filter

F0806484 - Y Axis Class 180 Filter

F0806485 - Z Axis Class 180 Filter

F0806463 - X Axis Class 60 Filter

F0806464 - Y Axis Class 60 Filter

F0806465 - Z Axis Class 60 Filter

Vehicle c.g., X-Axis, 10 msec avg.

FILE NAME B:F0806483.A10

DELTA= .13 MSEC: 8000.0 S/SEC.
 N. POINTS= 2860 END TIME= 357.50 MSEC.

TIME :										
.045:	-3.40	-3.49	-3.58	-3.66	-3.73	-3.78	-3.82	-3.84	-3.84	-3.83
.046:	-3.80	-3.76	-3.71	-3.66	-3.60	-3.54	-3.48	-3.43	-3.38	-3.34
.048:	-3.31	-3.29	-3.27	-3.27	-3.28	-3.29	-3.31	-3.33	-3.35	-3.37
.049:	-3.38	-3.39	-3.39	-3.38	-3.37	-3.34	-3.30	-3.26	-3.21	-3.16
.050:	-3.12	-3.08	-3.06	-3.06	-3.07	-3.11	-3.17	-3.25	-3.35	-3.45
.051:	-3.56	-3.66	-3.75	-3.81	-3.83	-3.83	-3.78	-3.71	-3.60	-3.47
.053:	-3.33	-3.18	-3.04	-2.91	-2.81	-2.73	-2.68	-2.65	-2.64	-2.66
.054:	-2.68	-2.70	-2.72	-2.72	-2.70	-2.66	-2.60	-2.52	-2.43	-2.32
.055:	-2.20	-2.08	-1.97	-1.86	-1.77	-1.69	-1.63	-1.58	-1.54	-1.52
.056:	-1.51	-1.50	-1.50	-1.50	-1.50	-1.51	-1.52	-1.53	-1.53	-1.54
.058:	-1.55	-1.56	-1.56	-1.57	-1.56	-1.56	-1.55	-1.53	-1.50	-1.47
.059:	-1.44	-1.39	-1.35	-1.31	-1.27	-1.24	-1.22	-1.21	-1.21	-1.22
.060:	-1.24	-1.28	-1.32	-1.37	-1.42	-1.46	-1.51	-1.55	-1.58	-1.61
.061:	-1.63	-1.65	-1.66	-1.68	-1.71	-1.74	-1.79	-1.85	-1.91	-1.99
.063:	-2.08	-2.17	-2.26	-2.35	-2.43	-2.49	-2.54	-2.57	-2.59	-2.58
.064:	-2.56	-2.52	-2.47	-2.41	-2.35	-2.30	-2.26	-2.23	-2.23	-2.24
.065:	-2.28	-2.34	-2.43	-2.54	-2.66	-2.80	-2.95	-3.11	-3.27	-3.42
.066:	-3.57	-3.70	-3.83	-3.93	-4.01	-4.08	-4.12	-4.15	-4.17	-4.18
.068:	-4.18	-4.20	-4.22	-4.25	-4.29	-4.35	-4.42	-4.49	-4.58	-4.66
.069:	-4.74	-4.82	-4.88	-4.93	-4.96	-4.97	-4.96	-4.94	-4.91	-4.87
.070:	-4.82	-4.78	-4.75	-4.73	-4.73	-4.75	-4.79	-4.85	-4.93	-5.01
.071:	-5.10	-5.19	-5.27	-5.33	-5.38	-5.40	-5.40	-5.37	-5.32	-5.26
.073:	-5.19	-5.11	-5.04	-5.00	-4.97	-4.98	-5.02	-5.09	-5.19	-5.32
.074:	-5.46	-5.63	-5.80	-5.98	-6.15	-6.31	-6.45	-6.56	-6.64	-6.68
.075:	-6.70	-6.68	-6.63	-6.55	-6.46	-6.35	-6.24	-6.12	-6.01	-5.90
.076:	-5.81	-5.74	-5.68	-5.64	-5.62	-5.61	-5.62	-5.65	-5.67	-5.70
.078:	-5.72	-5.72	-5.72	-5.70	-5.66	-5.61	-5.56	-5.51	-5.47	-5.43
.079:	-5.41	-5.40	-5.41	-5.43	-5.46	-5.50	-5.54	-5.58	-5.61	-5.62
.080:	-5.63	-5.61	-5.57	-5.50	-5.42	-5.32	-5.20	-5.07	-4.95	-4.83
.081:	-4.72	-4.63	-4.56	-4.52	-4.51	-4.52	-4.55	-4.59	-4.64	-4.70
.083:	-4.75	-4.79	-4.81	-4.80	-4.77	-4.72	-4.66	-4.58	-4.50	-4.43
.084:	-4.37	-4.33	-4.31	-4.31	-4.33	-4.37	-4.43	-4.50	-4.58	-4.68
.085:	-4.78	-4.88	-4.99	-5.09	-5.19	-5.29	-5.38	-5.47	-5.56	-5.65
.086:	-5.73	-5.82	-5.90	-5.98	-6.04	-6.10	-6.14	-6.17	-6.18	-6.18
.088:	-6.18	-6.17	-6.17	-6.18	-6.20	-6.23	-6.28	-6.34	-6.40	-6.48
.089:	-6.57	-6.65	-6.74	-6.83	-6.91	-6.99	-7.06	-7.13	-7.19	-7.24
.090:	-7.30	-7.36	-7.44	-7.52	-7.62	-7.73	-7.85	-7.99	-8.13	-8.26
.091:	-8.40	-8.52	-8.64	-8.73	-8.81	-8.88	-8.92	-8.96	-8.98	-8.99
.093:	-9.01	-9.02	-9.04	-9.07	-9.11	-9.15	-9.20	-9.25	-9.30	-9.34
.094:	-9.37	-9.39	-9.40	-9.39	-9.38	-9.35	-9.32	-9.28	-9.24	-9.19
.095:	-9.15	-9.10	-9.06	-9.01	-8.98	-8.94	-8.91	-8.88	-8.84	-8.81
.096:	-8.78	-8.74	-8.71	-8.68	-8.66	-8.65	-8.65	-8.66	-8.69	-8.72
.098:	-8.76	-8.81	-8.86	-8.90	-8.94	-8.96	-8.98	-8.98	-8.97	-8.94
.099:	-8.91	-8.87	-8.82	-8.78	-8.75	-8.73	-8.72	-8.72	-8.75	-8.78
.100:	-8.82	-8.87	-8.92	-8.97	-9.00	-9.02	-9.03	-9.03	-9.01	-8.98
.101:	-8.95	-8.91	-8.87	-8.84	-8.81	-8.79	-8.78	-8.78	-8.80	-8.82
.103:	-8.86	-8.91	-8.96	-9.02	-9.08	-9.14	-9.20	-9.25	-9.29	-9.32
.104:	-9.35	-9.36	-9.36	-9.36	-9.34	-9.32	-9.29	-9.26	-9.24	-9.21

Vehicle c.g., X-Axis, 10 msec avg. (Cont'd)

TIME :										
.105:	-9.19	-9.18	-9.17	-9.17	-9.17	-9.17	-9.17	-9.17	-9.16	-9.15
.106:	-9.12	-9.09	-9.06	-9.02	-8.98	-8.94	-8.90	-8.87	-8.83	-8.80
.108:	-8.78	-8.75	-8.74	-8.72	-8.71	-8.70	-8.69	-8.67	-8.66	-8.64
.109:	-8.62	-8.61	-8.59	-8.58	-8.56	-8.55	-8.53	-8.51	-8.48	-8.45
.110:	-8.40	-8.35	-8.29	-8.23	-8.17	-8.10	-8.05	-8.00	-7.97	-7.94
.111:	-7.93	-7.94	-7.96	-7.99	-8.02	-8.07	-8.12	-8.16	-8.21	-8.25
.113:	-8.28	-8.31	-8.34	-8.35	-8.37	-8.38	-8.39	-8.40	-8.41	-8.43
.114:	-8.46	-8.51	-8.56	-8.63	-8.72	-8.83	-8.95	-9.08	-9.22	-9.35
.115:	-9.48	-9.60	-9.69	-9.76	-9.80	-9.81	-9.80	-9.75	-9.69	-9.61
.116:	-9.51	-9.42	-9.34	-9.27	-9.22	-9.19	-9.18	-9.20	-9.23	-9.29
.118:	-9.36	-9.44	-9.52	-9.61	-9.69	-9.76	-9.82	-9.86	-9.89	-9.91
.119:	-9.91	-9.89	-9.86	-9.82	-9.77	-9.72	-9.67	-9.64	-9.62	-9.62
.120:	-9.65	-9.69	-9.76	-9.85	-9.96	-10.07	-10.18	-10.30	-10.40	-10.49
.121:	-10.56	-10.62	-10.66	-10.69	-10.71	-10.73	-10.74	-10.75	-10.76	-10.78
.123:	-10.81	-10.84	-10.87	-10.91	-10.96	-11.00	-11.05	-11.09	-11.12	-11.15
.124:	-11.16	-11.16	-11.15	-11.12	-11.07	-11.02	-10.95	-10.88	-10.81	-10.75
.125:	-10.70	-10.66	-10.65	-10.67	-10.71	-10.78	-10.88	-11.00	-11.13	-11.27
.126:	-11.40	-11.53	-11.63	-11.70	-11.75	-11.77	-11.76	-11.72	-11.66	-11.59
.128:	-11.51	-11.42	-11.34	-11.27	-11.21	-11.16	-11.12	-11.10	-11.09	-11.09
.129:	-11.11	-11.13	-11.17	-11.21	-11.26	-11.31	-11.36	-11.41	-11.45	-11.49
.130:	-11.51	-11.52	-11.52	-11.50	-11.47	-11.43	-11.39	-11.34	-11.29	-11.24
.131:	-11.20	-11.17	-11.14	-11.13	-11.12	-11.13	-11.14	-11.16	-11.19	-11.22
.133:	-11.25	-11.29	-11.32	-11.34	-11.36	-11.38	-11.38	-11.38	-11.37	-11.35
.134:	-11.33	-11.31	-11.29	-11.27	-11.26	-11.24	-11.22	-11.20	-11.18	-11.16
.135:	-11.13	-11.10	-11.06	-11.03	-10.98	-10.94	-10.90	-10.86	-10.82	-10.78
.136:	-10.75	-10.72	-10.71	-10.70	-10.69	-10.70	-10.71	-10.73	-10.74	-10.76
.138:	-10.79	-10.81	-10.83	-10.85	-10.86	-10.88	-10.89	-10.90	-10.91	-10.92
.139:	-10.92	-10.92	-10.91	-10.90	-10.87	-10.85	-10.81	-10.78	-10.74	-10.71
.140:	-10.68	-10.66	-10.65	-10.66	-10.67	-10.69	-10.73	-10.77	-10.82	-10.87
.141:	-10.93	-10.98	-11.02	-11.06	-11.08	-11.09	-11.09	-11.07	-11.04	-10.99
.143:	-10.94	-10.89	-10.84	-10.79	-10.75	-10.73	-10.72	-10.72	-10.75	-10.79
.144:	-10.84	-10.91	-10.98	-11.05	-11.13	-11.20	-11.27	-11.32	-11.37	-11.40
.145:	-11.42	-11.43	-11.44	-11.43	-11.42	-11.41	-11.40	-11.39	-11.38	-11.38
.146:	-11.38	-11.38	-11.39	-11.39	-11.40	-11.40	-11.39	-11.39	-11.37	-11.35
.148:	-11.33	-11.30	-11.27	-11.24	-11.22	-11.20	-11.18	-11.17	-11.18	-11.19
.149:	-11.21	-11.24	-11.27	-11.31	-11.35	-11.38	-11.41	-11.43	-11.44	-11.43
.150:	-11.41	-11.37	-11.32	-11.25	-11.17	-11.08	-10.97	-10.85	-10.72	-10.58
.151:	-10.44	-10.30	-10.15	-10.00	-9.85	-9.71	-9.57	-9.43	-9.31	-9.18
.153:	-9.07	-8.96	-8.84	-8.73	-8.61	-8.49	-8.36	-8.22	-8.07	-7.91
.154:	-7.74	-7.57	-7.39	-7.22	-7.04	-6.88	-6.72	-6.57	-6.43	-6.31
.155:	-6.19	-6.08	-5.98	-5.89	-5.80	-5.72	-5.64	-5.57	-5.49	-5.43
.156:	-5.36	-5.31	-5.26	-5.22	-5.18	-5.15	-5.12	-5.10	-5.08	-5.07
.158:	-5.05	-5.02	-5.00	-4.96	-4.92	-4.87	-4.81	-4.75	-4.68	-4.60
.159:	-4.52	-4.45	-4.37	-4.31	-4.25	-4.21	-4.17	-4.15	-4.14	-4.15
.160:	-4.15	-4.17	-4.20	-4.23	-4.26	-4.30	-4.34	-4.38	-4.42	-4.46
.161:	-4.50	-4.54	-4.57	-4.61	-4.64	-4.67	-4.71	-4.74	-4.77	-4.80
.163:	-4.83	-4.86	-4.88	-4.91	-4.94	-4.97	-4.99	-5.03	-5.06	-5.10
.164:	-5.14	-5.18	-5.23	-5.29	-5.34	-5.40	-5.46	-5.52	-5.58	-5.63
.165:	-5.69	-5.74	-5.78	-5.82	-5.85	-5.88	-5.90	-5.91	-5.92	-5.93

Vehicle c.g., X-Axis, 10 msec avg. (Cont'd)

TIME :											
.166:	-5.94	-5.95	-5.97	-6.00	-6.03	-6.08	-6.13	-6.20	-6.28	-6.37	
.168:	-6.48	-6.58	-6.70	-6.82	-6.94	-7.06	-7.18	-7.30	-7.41	-7.51	
.169:	-7.60	-7.68	-7.75	-7.81	-7.85	-7.88	-7.90	-7.90	-7.89	-7.86	
.170:	-7.82	-7.76	-7.70	-7.63	-7.55	-7.45	-7.36	-7.25	-7.14	-7.03	
.171:	-6.91	-6.80	-6.69	-6.58	-6.48	-6.39	-6.30	-6.22	-6.15	-6.09	
.173:	-6.03	-5.99	-5.96	-5.93	-5.92	-5.92	-5.93	-5.96	-5.99	-6.04	
.174:	-6.09	-6.15	-6.21	-6.27	-6.32	-6.37	-6.40	-6.41	-6.41	-6.39	
.175:	-6.36	-6.33	-6.28	-6.23	-6.18	-6.13	-6.08	-6.05	-6.01	-5.99	
.176:	-5.97	-5.96	-5.95	-5.94	-5.92	-5.89	-5.85	-5.78	-5.69	-5.58	
.178:	-5.45	-5.29	-5.11	-4.92	-4.72	-4.52	-4.31	-4.12	-3.94	-3.77	
.179:	-3.63	-3.50	-3.39	-3.30	-3.22	-3.16	-3.12	-3.09	-3.06	-3.05	
.180:	-3.05	-3.05	-3.06	-3.08	-3.10	-3.12	-3.15	-3.19	-3.23	-3.27	
.181:	-3.33	-3.39	-3.45	-3.53	-3.60	-3.68	-3.77	-3.85	-3.93	-4.00	
.183:	-4.06	-4.11	-4.14	-4.15	-4.14	-4.11	-4.05	-3.97	-3.87	-3.75	
.184:	-3.62	-3.48	-3.34	-3.20	-3.08	-2.98	-2.90	-2.84	-2.81	-2.79	
.185:	-2.80	-2.81	-2.83	-2.86	-2.88	-2.90	-2.90	-2.90	-2.89	-2.86	
.186:	-2.82	-2.77	-2.71	-2.65	-2.58	-2.52	-2.46	-2.40	-2.36	-2.33	
.188:	-2.31	-2.30	-2.30	-2.31	-2.32	-2.34	-2.35	-2.36	-2.36	-2.36	
.189:	-2.35	-2.33	-2.31	-2.29	-2.26	-2.22	-2.18	-2.13	-2.08	-2.02	
.190:	-1.95	-1.88	-1.80	-1.72	-1.63	-1.54	-1.45	-1.36	-1.28	-1.20	
.191:	-1.13	-1.06	-1.00	-.94	-.88	-.83	-.77	-.71	-.66	-.60	
.193:	-.54	-.49	-.44	-.39	-.35	-.31	-.27	-.24	-.20	-.16	
.194:	-.11	-.06	.00	.08	.16	.25	.36	.47	.58	.70	
.195:	.81	.92	1.01	1.10	1.18	1.25	1.31	1.36	1.41	1.45	
.196:	1.49	1.53	1.57	1.62	1.67	1.72	1.77	1.82	1.87	1.91	
.198:	1.94	1.97	1.99	2.00	2.00	2.00	2.00	2.00	2.00	2.01	
.199:	2.02	2.04	2.06	2.09	2.12	2.16	2.18	2.21	2.22	2.23	
.200:	2.22	2.20	2.16	2.11	2.05	1.97	1.89	1.81	1.72	1.63	
.201:	1.55	1.47	1.40	1.33	1.27	1.22	1.18	1.14	1.10	1.07	
.203:	1.04	1.02	1.00	.98	.97	.95	.94	.92	.89	.86	
.204:	.81	.75	.69	.61	.52	.43	.33	.23	.14	.04	
.205:	-.05	-.13	-.20	-.26	-.31	-.35	-.38	-.40	-.41	-.41	
.206:	-.41	-.41	-.40	-.40	-.40	-.39	-.39	-.39	-.39	-.40	
.208:	-.40	-.41	-.42	-.43	-.44	-.45	-.46	-.47	-.49	-.51	
.209:	-.53	-.55	-.58	-.60	-.62	-.64	-.66	-.67	-.68	-.69	
.210:	-.69	-.70	-.70	-.71	-.72	-.74	-.76	-.78	-.80	-.82	
.211:	-.83	-.83	-.82	-.80	-.77	-.72	-.66	-.60	-.52	-.45	
.213:	-.37	-.29	-.23	-.17	-.13	-.11	-.09	-.09	-.11	-.13	
.214:	-.16	-.19	-.23	-.26	-.29	-.32	-.34	-.35	-.37	-.37	
.215:	-.38	-.39	-.39	-.40	-.41	-.43	-.46	-.49	-.53	-.57	
.216:	-.62	-.68	-.74	-.80	-.85	-.91	-.96	-1.00	-1.04	-1.07	
.218:	-1.09	-1.11	-1.12	-1.14	-1.15	-1.17	-1.20	-1.23	-1.27	-1.31	
.219:	-1.36	-1.41	-1.48	-1.55	-1.62	-1.70	-1.77	-1.85	-1.92	-1.99	
.220:	-2.05	-2.10	-2.14	-2.16	-2.18	-2.18	-2.17	-2.16	-2.14	-2.13	
.221:	-2.12	-2.12	-2.13	-2.16	-2.20	-2.25	-2.33	-2.41	-2.51	-2.61	
.223:	-2.72	-2.82	-2.93	-3.02	-3.11	-3.18	-3.23	-3.27	-3.30	-3.30	
.224:	-3.30	-3.27	-3.24	-3.20	-3.14	-3.08	-3.02	-2.95	-2.88	-2.81	
.225:	-2.75	-2.69	-2.64	-2.59	-2.55	-2.51	-2.47	-2.43	-2.39	-2.35	

Vehicle c.g., Y-Axis, 10 msec avg.

FILE NAME B:F0806484.A10

DELTA= .13 MSEC; 8000.0 S/SEC.

D. POINTS= 2860 END TIME= 357.50 MSEC.

TIME :										
.045:	2.54	2.49	2.42	2.34	2.26	2.18	2.09	2.00	1.91	1.83
.046:	1.75	1.68	1.61	1.54	1.48	1.41	1.34	1.27	1.18	1.07
.048:	.95	.81	.65	.49	.32	.15	-.02	-.18	-.34	-.49
.049:	-.61	-.72	-.82	-.88	-.93	-.95	-.94	-.90	-.83	-.73
.050:	-.60	-.45	-.28	-.08	.12	.32	.52	.70	.87	1.01
.051:	1.12	1.21	1.25	1.27	1.25	1.20	1.11	1.01	.89	.75
.053:	.62	.48	.34	.22	.10	-.02	-.12	-.23	-.33	-.43
.054:	-.53	-.63	-.72	-.81	-.89	-.96	-1.01	-1.05	-1.07	-1.07
.055:	-1.06	-1.03	-.99	-.94	-.88	-.81	-.73	-.65	-.57	-.49
.056:	-.41	-.35	-.29	-.24	-.21	-.20	-.19	-.20	-.22	-.25
.058:	-.29	-.34	-.39	-.44	-.50	-.55	-.60	-.65	-.71	-.76
.059:	-.80	-.85	-.89	-.93	-.96	-.99	-1.00	-1.00	-1.00	-.97
.060:	-.94	-.90	-.86	-.81	-.76	-.72	-.68	-.66	-.65	-.66
.061:	-.68	-.71	-.74	-.79	-.84	-.88	-.93	-.97	-1.01	-1.05
.063:	-1.09	-1.13	-1.17	-1.21	-1.24	-1.27	-1.29	-1.31	-1.31	-1.31
.064:	-1.29	-1.27	-1.24	-1.20	-1.17	-1.13	-1.10	-1.07	-1.06	-1.06
.065:	-1.07	-1.10	-1.13	-1.18	-1.23	-1.29	-1.34	-1.39	-1.44	-1.47
.066:	-1.48	-1.49	-1.47	-1.44	-1.40	-1.35	-1.30	-1.23	-1.17	-1.10
.068:	-1.04	-.97	-.90	-.83	-.75	-.68	-.61	-.54	-.47	-.41
.069:	-.35	-.31	-.27	-.24	-.22	-.22	-.22	-.24	-.27	-.31
.070:	-.36	-.41	-.47	-.53	-.58	-.64	-.68	-.72	-.74	-.74
.071:	-.73	-.71	-.67	-.62	-.56	-.49	-.41	-.33	-.25	-.17
.073:	-.10	-.03	.03	.08	.12	.15	.17	.18	.18	.16
.074:	.14	.12	.08	.05	.01	-.02	-.05	-.07	-.08	-.07
.075:	-.06	-.03	.01	.06	.11	.17	.23	.29	.34	.38
.076:	.43	.46	.49	.52	.54	.56	.58	.60	.61	.62
.078:	.62	.62	.60	.57	.54	.49	.43	.38	.32	.26
.079:	.20	.15	.10	.06	.02	-.03	-.07	-.11	-.15	-.19
.080:	-.23	-.27	-.30	-.34	-.37	-.39	-.41	-.42	-.42	-.42
.081:	-.41	-.39	-.36	-.32	-.28	-.22	-.17	-.12	-.06	-.02
.083:	.02	.05	.07	.07	.07	.07	.06	.05	.05	.06
.084:	.08	.10	.14	.19	.23	.28	.32	.35	.36	.37
.085:	.37	.35	.33	.31	.29	.27	.26	.25	.24	.23
.086:	.22	.20	.17	.13	.07	.01	-.06	-.13	-.20	-.28
.088:	-.35	-.41	-.48	-.53	-.58	-.63	-.68	-.72	-.76	-.81
.089:	-.85	-.89	-.93	-.96	-.99	-1.00	-1.01	-1.01	-1.01	-.99
.090:	-.97	-.94	-.91	-.88	-.85	-.83	-.82	-.81	-.81	-.82
.091:	-.85	-.90	-.95	-1.02	-1.10	-1.19	-1.29	-1.39	-1.48	-1.57
.093:	-1.65	-1.73	-1.79	-1.84	-1.88	-1.92	-1.95	-1.98	-2.01	-2.04
.094:	-2.08	-2.11	-2.14	-2.16	-2.17	-2.16	-2.13	-2.08	-2.01	-1.91
.095:	-1.79	-1.66	-1.53	-1.39	-1.26	-1.14	-1.03	-.93	-.85	-.78
.096:	-.72	-.65	-.59	-.52	-.44	-.35	-.26	-.17	-.08	.02
.098:	.11	.19	.27	.35	.42	.49	.56	.64	.71	.79
.099:	.88	.97	1.06	1.15	1.24	1.32	1.41	1.49	1.56	1.63
.100:	1.69	1.76	1.82	1.87	1.93	1.99	2.06	2.12	2.20	2.27
.101:	2.36	2.44	2.54	2.63	2.73	2.82	2.91	2.99	3.07	3.14
.103:	3.21	3.27	3.33	3.38	3.44	3.48	3.53	3.57	3.60	3.62
.104:	3.63	3.63	3.61	3.57	3.53	3.46	3.39	3.30	3.20	3.10

Vehicle c.g., Y-Axis, 10 msec avg. (Cont'd)

TIME :										
.105:	2.99	2.89	2.78	2.68	2.58	2.50	2.42	2.34	2.28	2.22
.106:	2.18	2.14	2.10	2.08	2.07	2.07	2.07	2.09	2.12	2.16
.108:	2.20	2.24	2.29	2.32	2.35	2.37	2.37	2.36	2.34	2.29
.109:	2.23	2.16	2.08	1.99	1.89	1.79	1.68	1.59	1.50	1.42
.110:	1.35	1.31	1.28	1.27	1.29	1.32	1.37	1.43	1.49	1.56
.111:	1.61	1.65	1.68	1.68	1.66	1.62	1.56	1.49	1.40	1.30
.113:	1.20	1.10	1.00	.91	.82	.74	.67	.62	.58	.55
.114:	.53	.53	.54	.56	.59	.61	.63	.63	.62	.60
.115:	.55	.48	.40	.30	.19	.09	-.02	-.11	-.19	-.25
.116:	-.29	-.31	-.32	-.31	-.29	-.26	-.23	-.21	-.18	-.17
.118:	-.16	-.15	-.15	-.16	-.16	-.17	-.18	-.19	-.20	-.22
.119:	-.25	-.28	-.32	-.36	-.40	-.45	-.49	-.54	-.59	-.64
.120:	-.68	-.73	-.78	-.82	-.87	-.91	-.95	-.98	-1.00	-1.02
.121:	-1.02	-1.01	-.99	-.96	-.92	-.87	-.82	-.76	-.69	-.63
.123:	-.57	-.52	-.47	-.43	-.40	-.38	-.37	-.38	-.40	-.43
.124:	-.47	-.53	-.59	-.66	-.72	-.78	-.82	-.84	-.85	-.82
.125:	-.77	-.70	-.61	-.49	-.37	-.25	-.13	-.01	.08	.16
.126:	.22	.25	.26	.25	.22	.19	.14	.10	.05	.01
.128:	-.02	-.05	-.07	-.09	-.10	-.11	-.12	-.12	-.11	-.09
.129:	-.05	-.00	.07	.15	.24	.35	.46	.58	.69	.80
.130:	.91	1.00	1.07	1.13	1.17	1.20	1.21	1.21	1.19	1.17
.131:	1.14	1.10	1.07	1.03	1.00	.96	.93	.90	.87	.84
.133:	.80	.77	.73	.70	.67	.65	.63	.62	.62	.64
.134:	.66	.69	.73	.77	.82	.87	.92	.96	1.01	1.05
.135:	1.08	1.11	1.14	1.17	1.19	1.22	1.25	1.28	1.31	1.34
.136:	1.38	1.41	1.45	1.48	1.51	1.53	1.55	1.56	1.57	1.58
.138:	1.58	1.58	1.59	1.59	1.61	1.62	1.65	1.68	1.71	1.75
.139:	1.80	1.85	1.91	1.98	2.05	2.13	2.21	2.29	2.38	2.47
.140:	2.56	2.65	2.73	2.81	2.88	2.94	3.00	3.04	3.07	3.10
.141:	3.11	3.13	3.14	3.15	3.17	3.19	3.22	3.26	3.31	3.37
.143:	3.43	3.50	3.58	3.66	3.74	3.81	3.89	3.95	4.00	4.05
.144:	4.08	4.10	4.11	4.11	4.09	4.07	4.04	4.01	3.97	3.93
.145:	3.89	3.86	3.83	3.81	3.79	3.79	3.79	3.80	3.82	3.84
.146:	3.87	3.90	3.93	3.96	4.00	4.03	4.06	4.10	4.13	4.15
.148:	4.17	4.19	4.20	4.21	4.21	4.20	4.18	4.16	4.12	4.08
.149:	4.02	3.95	3.87	3.78	3.68	3.57	3.46	3.35	3.24	3.14
.150:	3.05	2.98	2.92	2.88	2.86	2.86	2.88	2.92	2.97	3.04
.151:	3.12	3.21	3.30	3.40	3.49	3.59	3.67	3.76	3.83	3.90
.153:	3.96	4.01	4.05	4.09	4.13	4.17	4.20	4.24	4.29	4.34
.154:	4.41	4.48	4.56	4.66	4.76	4.87	5.00	5.13	5.26	5.39
.155:	5.52	5.64	5.75	5.85	5.93	6.00	6.05	6.08	6.10	6.09
.156:	6.07	6.04	5.99	5.92	5.85	5.76	5.67	5.57	5.47	5.37
.158:	5.26	5.16	5.05	4.96	4.87	4.79	4.71	4.65	4.60	4.56
.159:	4.53	4.51	4.51	4.51	4.52	4.54	4.56	4.58	4.60	4.62
.160:	4.63	4.63	4.63	4.61	4.57	4.53	4.46	4.39	4.29	4.19
.161:	4.06	3.93	3.78	3.63	3.46	3.29	3.12	2.94	2.77	2.61
.163:	2.45	2.30	2.17	2.04	1.93	1.84	1.75	1.68	1.62	1.56
.164:	1.51	1.46	1.41	1.36	1.31	1.26	1.20	1.14	1.07	1.01
.165:	.94	.87	.80	.72	.65	.57	.50	.42	.35	.28

Vehicle c.g., Y-Axis, 10 msec avg. (Cont'd)

TIME :										
.166:	.21	.14	.08	.01	-.05	-.12	-.19	-.27	-.35	-.43
.168:	-.51	-.61	-.70	-.79	-.88	-.97	-1.05	-1.12	-1.18	-1.22
.169:	-1.25	-1.25	-1.23	-1.19	-1.13	-1.05	-.96	-.85	-.73	-.61
.170:	-.48	-.35	-.22	-.11	-.00	.10	.18	.26	.32	.37
.171:	.41	.45	.47	.49	.49	.49	.49	.48	.46	.44
.173:	.42	.39	.37	.35	.32	.30	.28	.25	.23	.21
.174:	.18	.16	.14	.12	.11	.10	.10	.11	.12	.14
.175:	.17	.21	.27	.33	.42	.51	.62	.74	.87	1.01
.176:	1.16	1.32	1.48	1.65	1.82	1.99	2.16	2.33	2.50	2.66
.178:	2.82	2.97	3.12	3.25	3.38	3.50	3.60	3.69	3.76	3.81
.179:	3.84	3.85	3.83	3.79	3.73	3.64	3.53	3.40	3.26	3.10
.180:	2.95	2.79	2.64	2.50	2.37	2.26	2.18	2.11	2.06	2.04
.181:	2.05	2.08	2.13	2.20	2.29	2.39	2.51	2.63	2.75	2.87
.183:	2.97	3.06	3.13	3.18	3.21	3.22	3.22	3.20	3.18	3.14
.184:	3.11	3.07	3.04	3.02	3.00	3.00	3.00	3.01	3.03	3.06
.185:	3.08	3.11	3.13	3.13	3.12	3.09	3.05	2.97	2.88	2.76
.186:	2.62	2.46	2.29	2.11	1.92	1.73	1.55	1.38	1.22	1.08
.188:	.96	.87	.80	.75	.73	.73	.75	.79	.84	.90
.189:	.98	1.07	1.17	1.27	1.37	1.47	1.56	1.64	1.72	1.77
.190:	1.82	1.84	1.84	1.82	1.79	1.74	1.67	1.60	1.51	1.42
.191:	1.32	1.22	1.12	1.03	.94	.87	.81	.76	.74	.73
.193:	.75	.79	.85	.93	1.02	1.14	1.26	1.39	1.52	1.64
.194:	1.76	1.87	1.97	2.06	2.12	2.18	2.21	2.23	2.23	2.22
.195:	2.20	2.18	2.16	2.14	2.13	2.14	2.15	2.18	2.23	2.29
.196:	2.36	2.44	2.54	2.64	2.74	2.84	2.94	3.02	3.10	3.17
.198:	3.22	3.26	3.28	3.29	3.28	3.26	3.22	3.17	3.10	3.01
.199:	2.91	2.79	2.66	2.52	2.37	2.22	2.07	1.93	1.80	1.69
.200:	1.60	1.52	1.48	1.45	1.45	1.46	1.50	1.55	1.61	1.68
.201:	1.75	1.82	1.88	1.94	1.98	2.01	2.02	2.02	2.00	1.96
.203:	1.90	1.82	1.73	1.63	1.51	1.39	1.25	1.12	.98	.84
.204:	.70	.57	.44	.30	.17	.04	-.09	-.23	-.36	-.50
.205:	-.64	-.78	-.92	-1.06	-1.19	-1.32	-1.44	-1.56	-1.66	-1.75
.206:	-1.82	-1.88	-1.92	-1.93	-1.93	-1.90	-1.85	-1.77	-1.68	-1.57
.208:	-1.45	-1.31	-1.17	-1.02	-.86	-.70	-.55	-.40	-.25	-.12
.209:	-.01	.07	.13	.17	.18	.16	.12	.06	-.01	-.08
.210:	-.16	-.24	-.30	-.34	-.37	-.37	-.35	-.31	-.25	-.19
.211:	-.11	-.04	.02	.07	.10	.11	.10	.07	.02	-.04
.213:	-.11	-.18	-.25	-.32	-.37	-.42	-.46	-.49	-.51	-.52
.214:	-.53	-.53	-.51	-.48	-.44	-.39	-.32	-.23	-.13	-.02
.215:	.10	.22	.34	.46	.56	.65	.72	.77	.79	.79
.216:	.76	.71	.63	.53	.41	.28	.13	-.02	-.18	-.33
.218:	-.49	-.65	-.80	-.95	-1.10	-1.24	-1.38	-1.52	-1.64	-1.75
.219:	-1.84	-1.91	-1.95	-1.97	-1.96	-1.93	-1.88	-1.82	-1.75	-1.67
.220:	-1.60	-1.55	-1.51	-1.49	-1.50	-1.53	-1.59	-1.68	-1.78	-1.89
.221:	-2.01	-2.13	-2.23	-2.31	-2.37	-2.40	-2.41	-2.38	-2.34	-2.27
.223:	-2.19	-2.10	-2.01	-1.92	-1.83	-1.75	-1.67	-1.60	-1.54	-1.48
.224:	-1.44	-1.40	-1.37	-1.35	-1.35	-1.36	-1.38	-1.41	-1.45	-1.50
.225:	-1.55	-1.60	-1.65	-1.68	-1.71	-1.72	-1.71	-1.69	-1.65	-1.59

Vehicle c.g., Z-Axis, 10 msec avg.

FILE NAME B:F0806485.A10

ELTA= .13 MSEC: 8000.0 S/SEC.

D. POINTS= 2860 END TIME= 357.50 MSEC.

TIME :											
.045:	.52	.38	.23	.06	-.11	-.29	-.47	-.65	-.83	-1.02	
.046:	-1.21	-1.40	-1.60	-1.79	-1.97	-2.15	-2.31	-2.46	-2.60	-2.72	
.048:	-2.82	-2.89	-2.95	-2.98	-2.99	-2.99	-2.96	-2.93	-2.89	-2.85	
.049:	-2.81	-2.77	-2.73	-2.69	-2.65	-2.61	-2.56	-2.50	-2.44	-2.36	
.050:	-2.28	-2.19	-2.09	-2.00	-1.91	-1.83	-1.76	-1.71	-1.68	-1.66	
.051:	-1.67	-1.68	-1.70	-1.72	-1.74	-1.75	-1.75	-1.75	-1.74	-1.74	
.053:	-1.75	-1.77	-1.83	-1.92	-2.03	-2.18	-2.35	-2.53	-2.71	-2.88	
.054:	-3.03	-3.14	-3.20	-3.21	-3.16	-3.06	-2.91	-2.72	-2.49	-2.25	
.055:	-1.99	-1.74	-1.50	-1.27	-1.07	-.90	-.75	-.62	-.51	-.42	
.056:	-.33	-.24	-.15	-.05	.05	.15	.25	.35	.44	.51	
.058:	.57	.61	.62	.61	.57	.51	.43	.34	.23	.12	
.059:	.01	-.09	-.19	-.27	-.33	-.37	-.39	-.39	-.37	-.34	
.060:	-.30	-.25	-.18	-.11	-.04	.04	.12	.21	.29	.36	
.061:	.43	.49	.54	.57	.58	.57	.54	.49	.42	.34	
.063:	.26	.17	.10	.04	-.00	-.02	-.02	.01	.06	.12	
.064:	.20	.28	.35	.42	.46	.49	.49	.47	.42	.37	
.065:	.30	.23	.18	.13	.11	.11	.13	.17	.22	.28	
.066:	.34	.38	.41	.41	.39	.35	.28	.20	.11	.01	
.068:	-.07	-.14	-.18	-.19	-.16	-.09	.01	.15	.32	.49	
.069:	.68	.87	1.04	1.19	1.32	1.42	1.50	1.55	1.59	1.61	
.070:	1.62	1.63	1.64	1.65	1.67	1.70	1.73	1.77	1.80	1.84	
.071:	1.88	1.93	1.97	2.03	2.10	2.17	2.27	2.37	2.49	2.61	
.073:	2.75	2.88	3.00	3.12	3.21	3.29	3.34	3.37	3.38	3.37	
.074:	3.35	3.32	3.28	3.24	3.19	3.15	3.11	3.07	3.03	3.00	
.075:	2.97	2.95	2.92	2.90	2.88	2.86	2.85	2.84	2.83	2.84	
.076:	2.85	2.87	2.90	2.94	2.98	3.02	3.05	3.08	3.08	3.07	
.078:	3.04	3.00	2.93	2.85	2.75	2.64	2.52	2.39	2.26	2.12	
.079:	1.98	1.85	1.72	1.60	1.50	1.42	1.35	1.30	1.27	1.25	
.080:	1.25	1.26	1.27	1.30	1.33	1.37	1.42	1.47	1.52	1.58	
.081:	1.63	1.68	1.72	1.76	1.77	1.78	1.76	1.74	1.71	1.68	
.083:	1.66	1.65	1.67	1.71	1.77	1.84	1.92	2.00	2.05	2.07	
.084:	2.05	1.98	1.87	1.71	1.52	1.30	1.08	.86	.65	.46	
.085:	.30	.17	.07	-.01	-.07	-.12	-.17	-.22	-.29	-.38	
.086:	-.49	-.61	-.74	-.88	-1.00	-1.11	-1.19	-1.23	-1.24	-1.20	
.088:	-1.13	-1.03	-.91	-.79	-.67	-.56	-.47	-.40	-.35	-.32	
.089:	-.31	-.32	-.33	-.35	-.39	-.42	-.46	-.50	-.54	-.58	
.090:	-.63	-.68	-.74	-.81	-.89	-.98	-1.09	-1.20	-1.32	-1.44	
.091:	-1.56	-1.68	-1.79	-1.90	-2.01	-2.11	-2.21	-2.31	-2.42	-2.53	
.093:	-2.67	-2.82	-3.00	-3.19	-3.40	-3.61	-3.83	-4.04	-4.24	-4.41	
.094:	-4.54	-4.64	-4.69	-4.70	-4.67	-4.60	-4.50	-4.38	-4.24	-4.09	
.095:	-3.94	-3.77	-3.61	-3.43	-3.25	-3.06	-2.85	-2.62	-2.37	-2.10	
.096:	-1.80	-1.49	-1.15	-.81	-.46	-.12	.22	.54	.83	1.09	
.098:	1.33	1.53	1.71	1.86	1.99	2.10	2.19	2.26	2.32	2.36	
.099:	2.38	2.39	2.39	2.37	2.35	2.33	2.30	2.28	2.26	2.26	
.100:	2.27	2.30	2.35	2.43	2.53	2.66	2.82	2.99	3.19	3.40	
.101:	3.62	3.85	4.09	4.32	4.56	4.80	5.04	5.27	5.50	5.72	
.103:	5.93	6.13	6.31	6.48	6.62	6.75	6.85	6.93	7.00	7.06	
.104:	7.10	7.14	7.16	7.19	7.21	7.22	7.23	7.24	7.23	7.21	

Vehicle c.g., Z-Axis, 10 msec avg. (Cont'd)

TIME :										
.105:	7.17	7.13	7.06	6.99	6.90	6.80	6.69	6.57	6.46	6.34
.106:	6.21	6.09	5.96	5.82	5.68	5.52	5.35	5.18	5.00	4.81
.108:	4.63	4.45	4.29	4.14	4.02	3.93	3.88	3.84	3.87	3.92
.109:	3.99	4.08	4.18	4.29	4.41	4.52	4.62	4.72	4.81	4.89
.110:	4.96	5.01	5.06	5.09	5.10	5.10	5.07	5.04	4.99	4.92
.111:	4.85	4.78	4.71	4.65	4.60	4.56	4.54	4.52	4.50	4.48
.113:	4.45	4.39	4.31	4.20	4.07	3.90	3.71	3.50	3.28	3.06
.114:	2.84	2.64	2.45	2.28	2.13	1.99	1.89	1.80	1.73	1.69
.115:	1.67	1.68	1.70	1.75	1.81	1.88	1.97	2.05	2.14	2.21
.116:	2.27	2.32	2.36	2.38	2.39	2.40	2.39	2.39	2.38	2.38
.118:	2.37	2.36	2.34	2.30	2.26	2.21	2.15	2.08	2.02	1.98
.119:	1.95	1.95	1.98	2.04	2.14	2.26	2.41	2.58	2.74	2.90
.120:	3.04	3.15	3.23	3.27	3.27	3.23	3.16	3.05	2.92	2.76
.121:	2.58	2.38	2.16	1.93	1.69	1.44	1.20	.98	.77	.61
.123:	.48	.40	.37	.40	.47	.59	.76	.95	1.17	1.40
.124:	1.64	1.88	2.11	2.32	2.51	2.67	2.79	2.88	2.93	2.94
.125:	2.91	2.85	2.74	2.61	2.45	2.27	2.08	1.90	1.73	1.59
.126:	1.49	1.43	1.42	1.45	1.54	1.66	1.82	1.99	2.17	2.34
.128:	2.51	2.66	2.79	2.90	2.99	3.06	3.12	3.16	3.18	3.19
.129:	3.18	3.17	3.13	3.08	3.02	2.94	2.84	2.73	2.61	2.49
.130:	2.37	2.26	2.17	2.10	2.06	2.06	2.09	2.16	2.26	2.40
.131:	2.56	2.75	2.95	3.16	3.37	3.56	3.72	3.86	3.96	4.01
.133:	4.02	3.99	3.91	3.79	3.64	3.46	3.27	3.06	2.85	2.64
.134:	2.43	2.23	2.05	1.90	1.77	1.68	1.64	1.64	1.69	1.78
.135:	1.92	2.09	2.29	2.51	2.73	2.95	3.15	3.32	3.46	3.56
.136:	3.60	3.60	3.54	3.43	3.27	3.08	2.86	2.63	2.39	2.16
.138:	1.95	1.76	1.59	1.46	1.36	1.28	1.23	1.20	1.18	1.17
.139:	1.17	1.16	1.15	1.14	1.12	1.10	1.07	1.05	1.02	.99
.140:	.96	.93	.89	.84	.78	.69	.59	.46	.31	.13
.141:	-.07	-.29	-.52	-.76	-1.00	-1.23	-1.43	-1.61	-1.75	-1.85
.143:	-1.90	-1.91	-1.88	-1.82	-1.72	-1.61	-1.49	-1.37	-1.26	-1.17
.144:	-1.10	-1.07	-1.07	-1.12	-1.20	-1.33	-1.50	-1.70	-1.93	-2.19
.145:	-2.47	-2.76	-3.06	-3.35	-3.64	-3.91	-4.15	-4.37	-4.56	-4.71
.146:	-4.82	-4.89	-4.92	-4.90	-4.85	-4.76	-4.65	-4.52	-4.38	-4.24
.148:	-4.12	-4.01	-3.93	-3.89	-3.88	-3.93	-4.01	-4.15	-4.32	-4.53
.149:	-4.77	-5.03	-5.31	-5.58	-5.86	-6.12	-6.36	-6.59	-6.79	-6.96
.150:	-7.11	-7.23	-7.33	-7.41	-7.47	-7.51	-7.53	-7.54	-7.53	-7.51
.151:	-7.47	-7.43	-7.38	-7.33	-7.27	-7.22	-7.18	-7.16	-7.15	-7.16
.153:	-7.19	-7.23	-7.29	-7.35	-7.42	-7.47	-7.51	-7.53	-7.52	-7.48
.154:	-7.40	-7.29	-7.15	-6.99	-6.81	-6.62	-6.43	-6.24	-6.07	-5.91
.155:	-5.77	-5.66	-5.57	-5.51	-5.47	-5.46	-5.47	-5.50	-5.56	-5.63
.156:	-5.73	-5.86	-6.01	-6.18	-6.38	-6.60	-6.83	-7.08	-7.32	-7.56
.158:	-7.79	-8.00	-8.18	-8.33	-8.44	-8.51	-8.53	-8.51	-8.46	-8.36
.159:	-8.23	-8.09	-7.93	-7.76	-7.61	-7.46	-7.34	-7.25	-7.19	-7.17
.160:	-7.18	-7.22	-7.30	-7.39	-7.50	-7.62	-7.75	-7.87	-7.99	-8.08
.161:	-8.16	-8.22	-8.24	-8.24	-8.22	-8.17	-8.09	-8.00	-7.89	-7.77
.163:	-7.65	-7.53	-7.41	-7.30	-7.21	-7.14	-7.10	-7.08	-7.08	-7.11
.164:	-7.17	-7.25	-7.34	-7.44	-7.56	-7.67	-7.78	-7.88	-7.97	-8.05
.165:	-8.11	-8.15	-8.17	-8.18	-8.17	-8.15	-8.11	-8.06	-8.01	-7.94

Vehicle c.g., Z-Axis, 10 msec avg. (Cont'd)

TIME :											
.166:	-7.87	-7.80	-7.73	-7.66	-7.59	-7.53	-7.47	-7.43	-7.40	-7.37	
.168:	-7.37	-7.39	-7.42	-7.48	-7.56	-7.67	-7.80	-7.95	-8.12	-8.31	
.169:	-8.51	-8.72	-8.92	-9.12	-9.30	-9.46	-9.59	-9.68	-9.72	-9.70	
.170:	-9.63	-9.49	-9.29	-9.02	-8.69	-8.31	-7.88	-7.40	-6.90	-6.37	
.171:	-5.83	-5.31	-4.81	-4.35	-3.94	-3.60	-3.33	-3.13	-2.99	-2.92	
.173:	-2.90	-2.93	-3.00	-3.09	-3.20	-3.33	-3.45	-3.58	-3.70	-3.81	
.174:	-3.92	-4.01	-4.09	-4.16	-4.21	-4.24	-4.24	-4.22	-4.17	-4.10	
.175:	-4.00	-3.88	-3.75	-3.59	-3.43	-3.27	-3.10	-2.94	-2.79	-2.66	
.176:	-2.55	-2.45	-2.37	-2.31	-2.27	-2.24	-2.23	-2.21	-2.20	-2.19	
.178:	-2.17	-2.14	-2.10	-2.03	-1.95	-1.84	-1.71	-1.55	-1.36	-1.15	
.179:	-.92	-.68	-.42	-.15	.11	.37	.61	.82	.98	1.10	
.180:	1.16	1.14	1.05	.89	.65	.35	-.03	-.46	-.93	-1.43	
.181:	-1.95	-2.47	-2.98	-3.47	-3.92	-4.32	-4.67	-4.97	-5.21	-5.40	
.183:	-5.53	-5.60	-5.63	-5.60	-5.53	-5.41	-5.25	-5.04	-4.81	-4.55	
.184:	-4.27	-3.98	-3.71	-3.45	-3.23	-3.06	-2.93	-2.87	-2.86	-2.92	
.185:	-3.02	-3.16	-3.33	-3.52	-3.71	-3.88	-4.04	-4.16	-4.25	-4.30	
.186:	-4.31	-4.28	-4.22	-4.13	-4.02	-3.89	-3.76	-3.63	-3.51	-3.39	
.188:	-3.29	-3.20	-3.12	-3.06	-3.01	-2.98	-2.96	-2.95	-2.96	-2.98	
.189:	-3.01	-3.05	-3.10	-3.14	-3.19	-3.23	-3.25	-3.25	-3.23	-3.17	
.190:	-3.08	-2.95	-2.79	-2.59	-2.36	-2.10	-1.83	-1.55	-1.28	-1.02	
.191:	-.78	-.56	-.37	-.20	-.05	.08	.20	.31	.41	.50	
.193:	.58	.66	.71	.75	.77	.77	.74	.68	.61	.53	
.194:	.44	.36	.29	.24	.23	.27	.34	.47	.63	.84	
.195:	1.07	1.32	1.58	1.84	2.08	2.31	2.50	2.66	2.79	2.89	
.196:	2.97	3.03	3.08	3.12	3.18	3.24	3.32	3.41	3.51	3.63	
.198:	3.75	3.88	4.02	4.15	4.27	4.38	4.49	4.58	4.66	4.72	
.199:	4.77	4.81	4.84	4.85	4.85	4.84	4.80	4.75	4.67	4.58	
.200:	4.46	4.33	4.18	4.01	3.84	3.66	3.48	3.31	3.16	3.02	
.201:	2.91	2.82	2.76	2.72	2.70	2.70	2.71	2.73	2.75	2.77	
.203:	2.79	2.79	2.80	2.79	2.77	2.74	2.70	2.65	2.59	2.51	
.204:	2.42	2.32	2.21	2.09	1.96	1.84	1.72	1.60	1.49	1.39	
.205:	1.30	1.22	1.15	1.09	1.04	1.00	.97	.94	.91	.88	
.206:	.83	.78	.71	.63	.53	.41	.28	.14	-.00	-.15	
.208:	-.28	-.40	-.50	-.57	-.62	-.63	-.61	-.56	-.50	-.42	
.209:	-.35	-.28	-.22	-.18	-.16	-.15	-.16	-.18	-.21	-.24	
.210:	-.27	-.30	-.32	-.34	-.35	-.36	-.36	-.36	-.35	-.35	
.211:	-.33	-.31	-.28	-.24	-.18	-.11	-.01	.09	.22	.36	
.213:	.51	.67	.83	.98	1.13	1.28	1.41	1.53	1.64	1.72	
.214:	1.79	1.82	1.82	1.79	1.72	1.61	1.45	1.26	1.04	.78	
.215:	.50	.20	-.09	-.39	-.67	-.93	-1.16	-1.36	-1.51	-1.63	
.216:	-1.70	-1.74	-1.74	-1.71	-1.65	-1.58	-1.49	-1.40	-1.32	-1.24	
.218:	-1.19	-1.16	-1.16	-1.20	-1.27	-1.39	-1.53	-1.71	-1.92	-2.13	
.219:	-2.35	-2.56	-2.75	-2.92	-3.07	-3.18	-3.27	-3.33	-3.37	-3.39	
.220:	-3.39	-3.38	-3.36	-3.35	-3.33	-3.32	-3.31	-3.32	-3.34	-3.38	
.221:	-3.44	-3.53	-3.64	-3.77	-3.92	-4.09	-4.28	-4.47	-4.68	-4.88	
.223:	-5.09	-5.28	-5.47	-5.64	-5.80	-5.93	-6.04	-6.13	-6.18	-6.21	
.224:	-6.19	-6.13	-6.03	-5.88	-5.68	-5.45	-5.17	-4.86	-4.52	-4.16	
.225:	-3.80	-3.44	-3.09	-2.77	-2.47	-2.21	-1.99	-1.81	-1.67	-1.57	

Vehicle c.g., X-Axis, 50 msec avg.

FILE NAME B:F0806463.A50

DELTA= .13 MSEC: 8000.0 S/SEC.

NO. POINTS= 2860 END TIME= 357.50 MSEC.

TIME :											
.045:	-3.86	-3.88	-3.89	-3.91	-3.93	-3.94	-3.96	-3.98	-4.00	-4.01	
.046:	-4.03	-4.04	-4.06	-4.08	-4.09	-4.11	-4.12	-4.14	-4.15	-4.17	
.048:	-4.18	-4.19	-4.21	-4.22	-4.24	-4.25	-4.27	-4.28	-4.30	-4.31	
.049:	-4.33	-4.34	-4.36	-4.37	-4.39	-4.40	-4.42	-4.43	-4.45	-4.47	
.050:	-4.48	-4.50	-4.52	-4.53	-4.55	-4.57	-4.58	-4.60	-4.62	-4.64	
.051:	-4.65	-4.67	-4.69	-4.70	-4.72	-4.74	-4.75	-4.76	-4.78	-4.79	
.053:	-4.80	-4.82	-4.83	-4.84	-4.85	-4.86	-4.87	-4.88	-4.89	-4.90	
.054:	-4.91	-4.92	-4.93	-4.94	-4.95	-4.96	-4.97	-4.98	-4.99	-5.00	
.055:	-5.01	-5.02	-5.03	-5.04	-5.05	-5.06	-5.08	-5.09	-5.10	-5.11	
.056:	-5.12	-5.13	-5.15	-5.16	-5.17	-5.19	-5.20	-5.21	-5.23	-5.24	
.058:	-5.26	-5.27	-5.29	-5.30	-5.31	-5.33	-5.34	-5.36	-5.38	-5.39	
.059:	-5.41	-5.42	-5.44	-5.46	-5.47	-5.49	-5.51	-5.52	-5.54	-5.56	
.060:	-5.58	-5.60	-5.61	-5.63	-5.65	-5.67	-5.69	-5.71	-5.73	-5.75	
.061:	-5.77	-5.79	-5.81	-5.83	-5.86	-5.88	-5.90	-5.92	-5.94	-5.96	
.063:	-5.99	-6.01	-6.03	-6.05	-6.08	-6.10	-6.12	-6.14	-6.16	-6.19	
.064:	-6.21	-6.23	-6.25	-6.27	-6.29	-6.31	-6.33	-6.35	-6.37	-6.39	
.065:	-6.41	-6.43	-6.45	-6.47	-6.48	-6.50	-6.52	-6.54	-6.55	-6.57	
.066:	-6.58	-6.60	-6.61	-6.63	-6.64	-6.66	-6.67	-6.69	-6.70	-6.71	
.068:	-6.73	-6.74	-6.75	-6.76	-6.78	-6.79	-6.80	-6.81	-6.82	-6.83	
.069:	-6.85	-6.86	-6.87	-6.88	-6.89	-6.90	-6.91	-6.93	-6.94	-6.95	
.070:	-6.96	-6.97	-6.98	-6.99	-7.01	-7.02	-7.03	-7.04	-7.06	-7.07	
.071:	-7.09	-7.10	-7.12	-7.13	-7.15	-7.17	-7.18	-7.20	-7.22	-7.24	
.073:	-7.26	-7.28	-7.30	-7.32	-7.34	-7.36	-7.38	-7.41	-7.43	-7.45	
.074:	-7.47	-7.49	-7.52	-7.54	-7.56	-7.58	-7.60	-7.62	-7.64	-7.65	
.075:	-7.67	-7.69	-7.70	-7.71	-7.72	-7.73	-7.74	-7.75	-7.76	-7.77	
.076:	-7.77	-7.78	-7.79	-7.79	-7.79	-7.80	-7.80	-7.81	-7.81	-7.82	
.078:	-7.82	-7.83	-7.83	-7.84	-7.85	-7.85	-7.86	-7.87	-7.87	-7.88	
.079:	-7.89	-7.90	-7.90	-7.91	-7.92	-7.93	-7.94	-7.95	-7.96	-7.98	
.080:	-7.99	-8.00	-8.02	-8.03	-8.04	-8.06	-8.07	-8.09	-8.11	-8.12	
.081:	-8.14	-8.16	-8.17	-8.19	-8.21	-8.23	-8.25	-8.27	-8.29	-8.31	
.083:	-8.33	-8.35	-8.37	-8.38	-8.40	-8.42	-8.44	-8.46	-8.48	-8.50	
.084:	-8.52	-8.53	-8.55	-8.57	-8.59	-8.60	-8.62	-8.64	-8.65	-8.67	
.085:	-8.68	-8.70	-8.72	-8.73	-8.75	-8.76	-8.77	-8.79	-8.80	-8.81	
.086:	-8.83	-8.84	-8.85	-8.86	-8.87	-8.88	-8.89	-8.90	-8.91	-8.92	
.088:	-8.93	-8.94	-8.95	-8.97	-8.98	-8.99	-9.00	-9.01	-9.02	-9.03	
.089:	-9.05	-9.06	-9.07	-9.09	-9.10	-9.12	-9.14	-9.15	-9.17	-9.19	
.090:	-9.21	-9.23	-9.25	-9.27	-9.29	-9.31	-9.33	-9.35	-9.38	-9.40	
.091:	-9.42	-9.44	-9.47	-9.49	-9.51	-9.54	-9.56	-9.58	-9.60	-9.63	
.093:	-9.65	-9.67	-9.69	-9.71	-9.73	-9.75	-9.77	-9.78	-9.80	-9.81	
.094:	-9.83	-9.84	-9.85	-9.86	-9.87	-9.88	-9.89	-9.90	-9.90	-9.91	
.095:	-9.91	-9.91	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.91	
.096:	-9.91	-9.91	-9.91	-9.90	-9.90	-9.90	-9.89	-9.89	-9.89	-9.88	
.098:	-9.88	-9.88	-9.87	-9.87	-9.87	-9.87	-9.87	-9.86	-9.86	-9.86	
.099:	-9.86	-9.86	-9.86	-9.86	-9.86	-9.86	-9.86	-9.86	-9.86	-9.86	
.100:	-9.87	-9.87	-9.88	-9.88	-9.89	-9.89	-9.90	-9.91	-9.92	-9.93	
.101:	-9.94	-9.95	-9.96	-9.97	-9.98	-9.99	-10.01	-10.02	-10.03	-10.05	
.103:	-10.06	-10.08	-10.09	-10.11	-10.12	-10.14	-10.15	-10.17	-10.18	-10.20	
.104:	-10.21	-10.23	-10.24	-10.25	-10.27	-10.28	-10.29	-10.30	-10.31	-10.33	

Vehicle c.g., X-Axis, 50 msec avg. (Cont'd)

TIME :											
.105:	-10.34	-10.34	-10.35	-10.36	-10.37	-10.37	-10.38	-10.39	-10.39	-10.39	-10.39
.106:	-10.40	-10.40	-10.40	-10.40	-10.40	-10.40	-10.40	-10.40	-10.40	-10.40	-10.40
.108:	-10.40	-10.40	-10.39	-10.39	-10.39	-10.38	-10.38	-10.38	-10.37	-10.37	-10.37
.109:	-10.37	-10.36	-10.36	-10.35	-10.35	-10.34	-10.33	-10.33	-10.32	-10.31	-10.31
.110:	-10.30	-10.30	-10.29	-10.28	-10.27	-10.26	-10.25	-10.24	-10.22	-10.21	-10.21
.111:	-10.20	-10.19	-10.18	-10.16	-10.15	-10.14	-10.12	-10.11	-10.10	-10.08	-10.08
.113:	-10.07	-10.05	-10.04	-10.02	-10.01	-10.00	-9.98	-9.97	-9.95	-9.94	-9.94
.114:	-9.92	-9.91	-9.90	-9.88	-9.87	-9.86	-9.84	-9.83	-9.82	-9.81	-9.81
.115:	-9.79	-9.78	-9.77	-9.76	-9.75	-9.74	-9.73	-9.72	-9.71	-9.70	-9.70
.116:	-9.69	-9.68	-9.67	-9.66	-9.65	-9.65	-9.64	-9.63	-9.62	-9.62	-9.62
.118:	-9.61	-9.60	-9.60	-9.59	-9.58	-9.58	-9.57	-9.57	-9.56	-9.56	-9.56
.119:	-9.55	-9.55	-9.54	-9.54	-9.53	-9.53	-9.52	-9.52	-9.52	-9.51	-9.51
.120:	-9.51	-9.50	-9.50	-9.49	-9.49	-9.48	-9.48	-9.47	-9.47	-9.46	-9.46
.121:	-9.45	-9.45	-9.44	-9.43	-9.42	-9.41	-9.40	-9.39	-9.38	-9.37	-9.37
.123:	-9.35	-9.34	-9.33	-9.32	-9.30	-9.29	-9.28	-9.26	-9.25	-9.23	-9.23
.124:	-9.22	-9.21	-9.19	-9.18	-9.17	-9.15	-9.14	-9.13	-9.12	-9.11	-9.11
.125:	-9.10	-9.09	-9.08	-9.07	-9.06	-9.06	-9.05	-9.05	-9.05	-9.04	-9.04
.126:	-9.04	-9.04	-9.04	-9.04	-9.04	-9.04	-9.04	-9.04	-9.04	-9.04	-9.04
.128:	-9.04	-9.04	-9.05	-9.05	-9.05	-9.05	-9.05	-9.05	-9.05	-9.05	-9.05
.129:	-9.05	-9.04	-9.04	-9.03	-9.03	-9.02	-9.01	-9.00	-8.99	-8.98	-8.98
.130:	-8.97	-8.95	-8.94	-8.92	-8.90	-8.88	-8.86	-8.84	-8.82	-8.80	-8.80
.131:	-8.77	-8.75	-8.72	-8.70	-8.67	-8.65	-8.62	-8.60	-8.57	-8.54	-8.54
.133:	-8.52	-8.49	-8.47	-8.45	-8.42	-8.40	-8.38	-8.35	-8.33	-8.31	-8.31
.134:	-8.29	-8.27	-8.25	-8.23	-8.21	-8.19	-8.17	-8.16	-8.14	-8.12	-8.12
.135:	-8.10	-8.08	-8.07	-8.05	-8.03	-8.01	-8.00	-7.98	-7.96	-7.95	-7.95
.136:	-7.93	-7.91	-7.90	-7.88	-7.87	-7.85	-7.83	-7.82	-7.80	-7.79	-7.79
.138:	-7.77	-7.75	-7.74	-7.72	-7.70	-7.69	-7.67	-7.65	-7.63	-7.62	-7.62
.139:	-7.60	-7.58	-7.56	-7.54	-7.53	-7.51	-7.49	-7.47	-7.45	-7.43	-7.43
.140:	-7.41	-7.39	-7.37	-7.35	-7.33	-7.31	-7.29	-7.27	-7.25	-7.22	-7.22
.141:	-7.20	-7.18	-7.16	-7.13	-7.11	-7.09	-7.06	-7.04	-7.02	-6.99	-6.99
.143:	-6.97	-6.94	-6.92	-6.90	-6.87	-6.85	-6.82	-6.80	-6.77	-6.75	-6.75
.144:	-6.73	-6.70	-6.68	-6.66	-6.64	-6.61	-6.59	-6.57	-6.55	-6.53	-6.53
.145:	-6.51	-6.49	-6.47	-6.45	-6.43	-6.41	-6.39	-6.37	-6.35	-6.33	-6.33
.146:	-6.31	-6.29	-6.27	-6.25	-6.23	-6.21	-6.19	-6.17	-6.15	-6.13	-6.13
.148:	-6.11	-6.08	-6.06	-6.04	-6.02	-6.00	-5.97	-5.95	-5.93	-5.90	-5.90
.149:	-5.88	-5.86	-5.83	-5.81	-5.78	-5.75	-5.73	-5.70	-5.67	-5.64	-5.64
.150:	-5.61	-5.58	-5.55	-5.52	-5.49	-5.45	-5.42	-5.38	-5.35	-5.31	-5.31
.151:	-5.28	-5.24	-5.21	-5.17	-5.13	-5.09	-5.06	-5.02	-4.98	-4.94	-4.94
.153:	-4.90	-4.86	-4.82	-4.78	-4.74	-4.70	-4.66	-4.62	-4.58	-4.54	-4.54
.154:	-4.50	-4.46	-4.42	-4.38	-4.34	-4.30	-4.26	-4.22	-4.18	-4.14	-4.14
.155:	-4.10	-4.06	-4.02	-3.99	-3.95	-3.91	-3.88	-3.84	-3.81	-3.78	-3.78
.156:	-3.74	-3.71	-3.68	-3.65	-3.62	-3.59	-3.56	-3.53	-3.50	-3.47	-3.47
.158:	-3.44	-3.42	-3.39	-3.36	-3.34	-3.31	-3.29	-3.26	-3.24	-3.22	-3.22
.159:	-3.19	-3.17	-3.15	-3.13	-3.11	-3.09	-3.07	-3.05	-3.04	-3.02	-3.02
.160:	-3.01	-2.99	-2.98	-2.97	-2.95	-2.94	-2.93	-2.92	-2.92	-2.91	-2.91
.161:	-2.90	-2.89	-2.89	-2.88	-2.88	-2.87	-2.87	-2.87	-2.86	-2.86	-2.86
.163:	-2.86	-2.85	-2.85	-2.85	-2.85	-2.84	-2.84	-2.84	-2.84	-2.83	-2.83
.164:	-2.83	-2.83	-2.82	-2.82	-2.82	-2.81	-2.81	-2.80	-2.80	-2.79	-2.79
.165:	-2.78	-2.78	-2.77	-2.76	-2.75	-2.75	-2.74	-2.73	-2.72	-2.71	-2.71

Vehicle c.g., X-Axis, 50 msec avg. (Cont'd)

TIME :											
.166:	-2.70	-2.68	-2.67	-2.66	-2.65	-2.63	-2.62	-2.61	-2.59	-2.58	
.168:	-2.56	-2.55	-2.54	-2.52	-2.51	-2.49	-2.48	-2.46	-2.45	-2.43	
.169:	-2.42	-2.40	-2.39	-2.37	-2.36	-2.34	-2.33	-2.31	-2.30	-2.29	
.170:	-2.27	-2.26	-2.24	-2.23	-2.21	-2.20	-2.18	-2.17	-2.16	-2.14	
.171:	-2.13	-2.11	-2.10	-2.09	-2.07	-2.06	-2.05	-2.03	-2.02	-2.01	
.173:	-1.99	-1.98	-1.97	-1.95	-1.94	-1.93	-1.92	-1.90	-1.89	-1.88	
.174:	-1.87	-1.85	-1.84	-1.83	-1.82	-1.80	-1.79	-1.78	-1.77	-1.75	
.175:	-1.74	-1.73	-1.71	-1.70	-1.69	-1.67	-1.66	-1.64	-1.63	-1.61	
.176:	-1.60	-1.58	-1.56	-1.55	-1.53	-1.51	-1.49	-1.48	-1.46	-1.44	
.178:	-1.42	-1.40	-1.39	-1.37	-1.35	-1.33	-1.32	-1.30	-1.29	-1.27	
.179:	-1.26	-1.25	-1.24	-1.23	-1.22	-1.21	-1.20	-1.20	-1.19	-1.19	
.180:	-1.19	-1.18	-1.18	-1.18	-1.18	-1.18	-1.19	-1.19	-1.19	-1.19	
.181:	-1.20	-1.20	-1.21	-1.21	-1.21	-1.22	-1.22	-1.22	-1.22	-1.23	
.183:	-1.23	-1.23	-1.23	-1.23	-1.22	-1.22	-1.22	-1.21	-1.21	-1.20	
.184:	-1.19	-1.18	-1.17	-1.16	-1.15	-1.14	-1.13	-1.12	-1.11	-1.09	
.185:	-1.08	-1.07	-1.06	-1.04	-1.03	-1.02	-1.01	-.99	-.98	-.97	
.186:	-.95	-.94	-.93	-.92	-.91	-.89	-.88	-.87	-.86	-.85	
.188:	-.84	-.83	-.82	-.81	-.80	-.79	-.78	-.77	-.76	-.75	
.189:	-.74	-.73	-.72	-.70	-.69	-.68	-.67	-.66	-.64	-.63	
.190:	-.62	-.60	-.59	-.57	-.56	-.54	-.53	-.51	-.50	-.48	
.191:	-.47	-.45	-.44	-.42	-.41	-.39	-.38	-.37	-.35	-.34	
.193:	-.32	-.31	-.30	-.28	-.27	-.26	-.25	-.24	-.23	-.22	
.194:	-.21	-.20	-.19	-.18	-.17	-.16	-.15	-.14	-.13	-.13	
.195:	-.12	-.11	-.11	-.10	-.09	-.09	-.09	-.08	-.08	-.07	
.196:	-.07	-.07	-.07	-.06	-.06	-.06	-.06	-.06	-.06	-.06	
.198:	-.06	-.06	-.06	-.06	-.06	-.06	-.06	-.06	-.07	-.07	
.199:	-.07	-.07	-.07	-.08	-.08	-.08	-.09	-.09	-.09	-.10	
.200:	-.10	-.10	-.11	-.11	-.12	-.12	-.13	-.13	-.14	-.14	
.201:	-.15	-.15	-.16	-.16	-.17	-.17	-.18	-.19	-.19	-.20	
.203:	-.20	-.21	-.22	-.23	-.23	-.24	-.25	-.26	-.27	-.28	
.204:	-.29	-.30	-.31	-.32	-.33	-.34	-.35	-.36	-.37	-.38	
.205:	-.39	-.40	-.41	-.42	-.43	-.44	-.45	-.46	-.47	-.48	
.206:	-.49	-.50	-.51	-.52	-.53	-.54	-.54	-.55	-.56	-.57	
.208:	-.57	-.58	-.59	-.59	-.60	-.61	-.61	-.62	-.62	-.63	
.209:	-.63	-.64	-.64	-.65	-.65	-.66	-.66	-.67	-.67	-.67	
.210:	-.68	-.68	-.68	-.69	-.69	-.69	-.69	-.70	-.70	-.70	
.211:	-.70	-.71	-.71	-.71	-.71	-.71	-.72	-.72	-.72	-.72	
.213:	-.73	-.73	-.73	-.73	-.74	-.74	-.74	-.75	-.75	-.75	
.214:	-.76	-.76	-.77	-.77	-.77	-.78	-.78	-.78	-.79	-.79	
.215:	-.80	-.80	-.80	-.81	-.81	-.82	-.82	-.82	-.83	-.83	
.216:	-.84	-.84	-.85	-.85	-.86	-.86	-.87	-.87	-.88	-.88	
.218:	-.89	-.89	-.90	-.90	-.91	-.91	-.92	-.92	-.92	-.93	
.219:	-.93	-.94	-.94	-.95	-.95	-.96	-.96	-.96	-.97	-.97	
.220:	-.98	-.98	-.98	-.99	-.99	-1.00	-1.00	-1.00	-1.00	-1.01	
.221:	-1.01	-1.01	-1.02	-1.02	-1.02	-1.02	-1.03	-1.03	-1.03	-1.03	
.223:	-1.04	-1.04	-1.04	-1.04	-1.04	-1.05	-1.05	-1.05	-1.05	-1.05	
.224:	-1.05	-1.05	-1.05	-1.05	-1.05	-1.04	-1.04	-1.04	-1.04	-1.04	
.225:	-1.03	-1.03	-1.03	-1.02	-1.02	-1.01	-1.01	-1.00	-1.00	-.99	

Vehicle c.g., Y-Axis, 50 msec avg.

FILE NAME B:F0806464.A50

DELTA= .13 MSEC: 8000.0 S/SEC.

NO. POINTS= 2860 END TIME= 357.50 MSEC.

TIME :										
.045:	.11	.10	.10	.09	.09	.08	.07	.06	.05	.04
.046:	.03	.02	.01	-.01	-.02	-.04	-.06	-.07	-.09	-.11
.048:	-.13	-.15	-.17	-.19	-.21	-.23	-.25	-.27	-.29	-.31
.049:	-.33	-.35	-.36	-.38	-.39	-.41	-.42	-.43	-.44	-.45
.050:	-.45	-.46	-.47	-.47	-.47	-.48	-.48	-.48	-.49	-.49
.051:	-.49	-.50	-.50	-.51	-.51	-.52	-.52	-.53	-.54	-.55
.053:	-.55	-.56	-.57	-.57	-.58	-.59	-.60	-.60	-.61	-.61
.054:	-.61	-.62	-.62	-.62	-.62	-.61	-.61	-.61	-.60	-.59
.055:	-.58	-.57	-.56	-.55	-.54	-.52	-.51	-.49	-.48	-.46
.056:	-.45	-.43	-.41	-.40	-.38	-.37	-.35	-.34	-.32	-.31
.058:	-.30	-.28	-.27	-.26	-.25	-.24	-.23	-.22	-.21	-.20
.059:	-.19	-.18	-.17	-.17	-.16	-.15	-.14	-.14	-.13	-.12
.060:	-.12	-.11	-.10	-.09	-.09	-.08	-.07	-.06	-.06	-.05
.061:	-.04	-.03	-.03	-.02	-.01	-.00	.00	.01	.02	.02
.063:	.03	.03	.04	.05	.05	.06	.06	.07	.07	.07
.064:	.08	.08	.09	.09	.09	.10	.10	.11	.11	.12
.065:	.12	.13	.13	.14	.14	.15	.16	.16	.17	.18
.066:	.19	.19	.20	.21	.22	.23	.24	.25	.25	.26
.068:	.27	.28	.29	.30	.30	.31	.32	.33	.33	.34
.069:	.34	.35	.35	.36	.36	.36	.37	.37	.37	.38
.070:	.38	.38	.39	.39	.40	.40	.40	.41	.41	.42
.071:	.42	.43	.43	.44	.44	.45	.45	.45	.46	.46
.073:	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46
.074:	.46	.46	.45	.45	.45	.45	.45	.44	.44	.44
.075:	.44	.43	.43	.43	.43	.43	.43	.42	.42	.42
.076:	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42
.078:	.42	.41	.41	.41	.41	.41	.40	.40	.40	.39
.079:	.39	.38	.38	.37	.37	.37	.36	.36	.35	.35
.080:	.35	.35	.34	.34	.34	.34	.34	.34	.34	.34
.081:	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35
.083:	.35	.35	.35	.35	.35	.35	.34	.34	.34	.34
.084:	.33	.33	.33	.33	.32	.32	.32	.32	.32	.31
.085:	.31	.31	.31	.31	.31	.31	.31	.32	.32	.32
.086:	.32	.32	.33	.33	.33	.34	.34	.34	.35	.35
.088:	.36	.36	.37	.37	.38	.39	.39	.40	.41	.41
.089:	.42	.43	.43	.44	.45	.45	.46	.47	.48	.48
.090:	.49	.50	.51	.51	.52	.52	.53	.53	.54	.54
.091:	.55	.55	.55	.55	.55	.55	.55	.55	.54	.54
.093:	.54	.53	.53	.52	.52	.51	.51	.50	.50	.50
.094:	.49	.49	.48	.48	.48	.48	.48	.48	.48	.48
.095:	.49	.49	.50	.50	.51	.52	.53	.54	.55	.56
.096:	.57	.58	.60	.61	.63	.64	.66	.68	.69	.71
.098:	.73	.75	.77	.79	.81	.83	.86	.88	.90	.92
.099:	.95	.97	.99	1.02	1.04	1.06	1.09	1.11	1.14	1.16
.100:	1.19	1.21	1.23	1.26	1.28	1.30	1.33	1.35	1.37	1.39
.101:	1.41	1.43	1.45	1.47	1.48	1.50	1.51	1.53	1.54	1.55
.103:	1.56	1.57	1.58	1.59	1.60	1.60	1.61	1.61	1.61	1.62
.104:	1.62	1.62	1.62	1.61	1.61	1.61	1.61	1.60	1.60	1.59

Vehicle c.g., Y-Axis, 50 msec avg. (Cont'd)

TIME :										
.105:	1.59	1.58	1.58	1.57	1.57	1.56	1.56	1.55	1.55	1.54
.106:	1.54	1.54	1.53	1.53	1.53	1.53	1.52	1.52	1.52	1.52
.108:	1.52	1.52	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51
.109:	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.52
.110:	1.52	1.53	1.53	1.54	1.55	1.56	1.56	1.57	1.58	1.59
.111:	1.61	1.62	1.63	1.64	1.65	1.67	1.68	1.70	1.71	1.72
.113:	1.74	1.75	1.77	1.78	1.80	1.81	1.83	1.84	1.86	1.88
.114:	1.89	1.91	1.92	1.94	1.95	1.97	1.98	2.00	2.01	2.03
.115:	2.04	2.05	2.07	2.08	2.09	2.10	2.11	2.12	2.13	2.13
.116:	2.14	2.14	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
.118:	2.15	2.14	2.14	2.13	2.13	2.13	2.12	2.12	2.11	2.11
.119:	2.10	2.10	2.10	2.09	2.09	2.09	2.08	2.08	2.08	2.08
.120:	2.08	2.07	2.07	2.07	2.07	2.07	2.06	2.06	2.06	2.06
.121:	2.06	2.06	2.06	2.05	2.05	2.05	2.05	2.05	2.05	2.05
.123:	2.06	2.06	2.06	2.06	2.06	2.07	2.07	2.07	2.08	2.08
.124:	2.09	2.09	2.10	2.10	2.11	2.11	2.12	2.12	2.13	2.13
.125:	2.14	2.14	2.15	2.15	2.15	2.15	2.16	2.16	2.16	2.16
.126:	2.15	2.15	2.15	2.14	2.14	2.13	2.12	2.12	2.11	2.10
.128:	2.10	2.09	2.08	2.08	2.07	2.07	2.06	2.06	2.06	2.05
.129:	2.05	2.06	2.06	2.06	2.07	2.07	2.08	2.09	2.09	2.10
.130:	2.11	2.12	2.13	2.14	2.15	2.16	2.16	2.17	2.18	2.19
.131:	2.19	2.20	2.20	2.21	2.21	2.21	2.22	2.22	2.22	2.23
.133:	2.23	2.23	2.23	2.24	2.24	2.24	2.25	2.25	2.26	2.26
.134:	2.27	2.28	2.28	2.29	2.30	2.31	2.32	2.33	2.34	2.35
.135:	2.37	2.38	2.39	2.40	2.42	2.43	2.44	2.45	2.47	2.48
.136:	2.49	2.50	2.51	2.52	2.53	2.54	2.55	2.55	2.56	2.57
.138:	2.57	2.58	2.58	2.58	2.59	2.59	2.59	2.59	2.59	2.59
.139:	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59
.140:	2.58	2.58	2.58	2.58	2.59	2.59	2.59	2.59	2.59	2.59
.141:	2.60	2.60	2.60	2.60	2.61	2.61	2.62	2.62	2.63	2.63
.143:	2.63	2.64	2.64	2.65	2.65	2.66	2.66	2.67	2.67	2.68
.144:	2.68	2.68	2.69	2.69	2.70	2.70	2.70	2.70	2.71	2.71
.145:	2.71	2.71	2.71	2.71	2.71	2.71	2.70	2.70	2.69	2.69
.146:	2.68	2.67	2.67	2.66	2.65	2.64	2.63	2.62	2.61	2.59
.148:	2.58	2.57	2.56	2.54	2.53	2.52	2.50	2.49	2.48	2.47
.149:	2.45	2.44	2.43	2.42	2.40	2.39	2.38	2.37	2.36	2.34
.150:	2.33	2.32	2.31	2.30	2.29	2.27	2.26	2.25	2.25	2.24
.151:	2.23	2.22	2.21	2.21	2.20	2.20	2.20	2.19	2.19	2.19
.153:	2.19	2.19	2.20	2.20	2.20	2.21	2.21	2.22	2.23	2.24
.154:	2.24	2.25	2.26	2.27	2.28	2.29	2.30	2.31	2.32	2.33
.155:	2.34	2.35	2.35	2.36	2.37	2.37	2.38	2.38	2.39	2.39
.156:	2.39	2.39	2.39	2.39	2.39	2.38	2.38	2.37	2.37	2.36
.158:	2.35	2.34	2.33	2.33	2.32	2.30	2.29	2.28	2.27	2.26
.159:	2.24	2.23	2.22	2.20	2.19	2.17	2.16	2.14	2.13	2.11
.160:	2.09	2.08	2.06	2.04	2.02	2.00	1.98	1.96	1.94	1.92
.161:	1.90	1.88	1.86	1.83	1.81	1.79	1.76	1.74	1.72	1.69
.163:	1.67	1.64	1.62	1.59	1.57	1.54	1.52	1.49	1.46	1.44
.164:	1.41	1.39	1.36	1.34	1.32	1.29	1.27	1.25	1.23	1.20
.165:	1.18	1.17	1.15	1.13	1.12	1.10	1.09	1.08	1.07	1.06

Vehicle c.g., Y-Axis, 50 msec avg.. (Cont'd)

TIME :											
.166:	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.05	1.05
.168:	1.06	1.06	1.07	1.07	1.08	1.09	1.10	1.10	1.10	1.11	1.12
.169:	1.12	1.13	1.13	1.14	1.14	1.14	1.14	1.14	1.14	1.15	1.15
.170:	1.15	1.15	1.15	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
.171:	1.14	1.14	1.13	1.13	1.13	1.13	1.13	1.13	1.12	1.12	1.12
.173:	1.11	1.11	1.11	1.10	1.10	1.09	1.09	1.08	1.08	1.08	1.07
.174:	1.07	1.06	1.06	1.06	1.05	1.05	1.05	1.04	1.04	1.04	1.04
.175:	1.04	1.04	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
.176:	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
.178:	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.03	1.03	1.02	1.02
.179:	1.01	1.00	.99	.98	.97	.96	.95	.94	.92	.91	
.180:	.89	.88	.87	.85	.84	.82	.81	.80	.78	.77	
.181:	.76	.75	.74	.73	.72	.72	.71	.70	.70	.69	
.183:	.69	.68	.68	.68	.67	.67	.66	.66	.66	.65	
.184:	.65	.64	.64	.63	.63	.62	.61	.61	.60	.59	
.185:	.58	.57	.56	.56	.55	.54	.53	.52	.51	.50	
.186:	.49	.48	.47	.46	.45	.44	.43	.42	.42	.42	
.188:	.41	.41	.40	.40	.40	.39	.39	.39	.39	.39	
.189:	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	
.190:	.38	.38	.38	.38	.37	.37	.37	.37	.37	.36	
.191:	.36	.36	.36	.35	.35	.35	.35	.35	.35	.35	
.193:	.35	.35	.35	.35	.35	.35	.35	.36	.36	.36	
.194:	.36	.37	.37	.37	.38	.38	.38	.39	.39	.39	
.195:	.39	.40	.40	.40	.40	.41	.41	.41	.41	.42	
.196:	.42	.42	.43	.43	.44	.44	.45	.45	.46	.46	
.198:	.47	.47	.48	.48	.49	.49	.50	.50	.51	.51	
.199:	.51	.52	.52	.52	.53	.53	.53	.53	.53	.54	
.200:	.54	.54	.54	.54	.55	.55	.55	.55	.55	.56	
.201:	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	
.203:	.56	.56	.56	.55	.55	.54	.54	.53	.53	.52	
.204:	.51	.50	.50	.49	.48	.47	.46	.45	.44	.43	
.205:	.42	.41	.40	.39	.38	.37	.36	.35	.35	.34	
.206:	.33	.33	.32	.32	.31	.31	.30	.30	.30	.30	
.208:	.30	.30	.30	.31	.31	.31	.32	.32	.33	.33	
.209:	.34	.34	.35	.36	.36	.37	.38	.38	.39	.40	
.210:	.40	.41	.41	.42	.42	.43	.43	.44	.44	.44	
.211:	.45	.45	.45	.45	.46	.46	.46	.46	.47	.47	
.213:	.47	.48	.48	.48	.48	.49	.49	.50	.50	.50	
.214:	.51	.51	.51	.52	.52	.52	.53	.53	.53	.53	
.215:	.54	.54	.54	.54	.54	.54	.54	.54	.53	.53	
.216:	.53	.52	.52	.51	.51	.50	.49	.49	.48	.47	
.218:	.46	.45	.44	.44	.43	.42	.41	.40	.39	.39	
.219:	.38	.37	.37	.36	.36	.35	.35	.35	.34	.34	
.220:	.34	.34	.34	.34	.34	.34	.33	.33	.33	.34	
.221:	.34	.34	.34	.34	.34	.34	.35	.35	.35	.36	
.223:	.36	.37	.37	.37	.38	.38	.39	.39	.40	.40	
.224:	.41	.41	.41	.42	.42	.42	.43	.43	.43	.44	
.225:	.44	.44	.45	.45	.45	.46	.46	.47	.47	.48	

Vehicle c.g., Z-Axis, 50 msec avg.

FILE NAME B:F0806465.A50

DELTA= .13 MSEC; 8000.0 S/SEC.

NO. POINTS= 2860 END TIME= 357.50 MSEC.

TIME :										
.045:	.35	.34	.33	.32	.30	.29	.27	.26	.24	.23
.046:	.21	.19	.18	.16	.14	.13	.11	.10	.08	.07
.048:	.06	.04	.03	.02	.01	.00	-.00	-.01	-.01	-.02
.049:	-.02	-.03	-.03	-.03	-.03	-.03	-.03	-.03	-.03	-.03
.050:	-.03	-.03	-.03	-.03	-.03	-.03	-.03	-.03	-.03	-.04
.051:	-.04	-.05	-.05	-.06	-.07	-.08	-.09	-.10	-.11	-.12
.053:	-.13	-.14	-.16	-.17	-.18	-.19	-.20	-.21	-.22	-.23
.054:	-.24	-.24	-.24	-.24	-.24	-.24	-.23	-.22	-.21	-.19
.055:	-.17	-.15	-.13	-.10	-.08	-.05	-.01	.02	.05	.09
.056:	.13	.17	.21	.25	.29	.32	.36	.40	.44	.48
.058:	.52	.55	.59	.62	.65	.68	.71	.74	.77	.80
.059:	.82	.85	.87	.89	.91	.94	.96	.98	1.00	1.02
.060:	1.04	1.06	1.08	1.10	1.13	1.15	1.17	1.19	1.21	1.24
.061:	1.26	1.28	1.30	1.32	1.34	1.36	1.38	1.39	1.41	1.42
.063:	1.44	1.45	1.46	1.47	1.48	1.49	1.49	1.50	1.50	1.50
.064:	1.50	1.50	1.50	1.50	1.50	1.49	1.49	1.49	1.48	1.48
.065:	1.48	1.48	1.47	1.47	1.47	1.47	1.48	1.48	1.48	1.48
.066:	1.49	1.50	1.50	1.51	1.52	1.53	1.54	1.55	1.56	1.57
.068:	1.58	1.60	1.61	1.63	1.64	1.66	1.67	1.69	1.71	1.73
.069:	1.75	1.76	1.78	1.80	1.82	1.84	1.86	1.88	1.90	1.92
.070:	1.94	1.95	1.97	1.99	2.01	2.03	2.04	2.06	2.07	2.09
.071:	2.10	2.12	2.13	2.14	2.15	2.15	2.16	2.17	2.17	2.17
.073:	2.17	2.17	2.16	2.16	2.15	2.14	2.13	2.11	2.10	2.09
.074:	2.07	2.05	2.04	2.02	2.00	1.99	1.97	1.95	1.94	1.93
.075:	1.92	1.91	1.90	1.89	1.89	1.88	1.88	1.88	1.88	1.88
.076:	1.88	1.89	1.89	1.90	1.91	1.91	1.92	1.93	1.94	1.95
.078:	1.96	1.97	1.98	1.99	2.00	2.01	2.02	2.03	2.04	2.04
.079:	2.05	2.06	2.07	2.08	2.09	2.09	2.10	2.11	2.11	2.12
.080:	2.12	2.12	2.13	2.13	2.13	2.13	2.12	2.12	2.11	2.11
.081:	2.10	2.09	2.08	2.07	2.06	2.05	2.03	2.02	2.00	1.99
.083:	1.97	1.95	1.94	1.92	1.90	1.89	1.87	1.85	1.84	1.82
.084:	1.81	1.79	1.78	1.76	1.75	1.74	1.73	1.72	1.71	1.70
.085:	1.70	1.69	1.69	1.69	1.69	1.69	1.69	1.70	1.71	1.72
.086:	1.73	1.74	1.76	1.77	1.79	1.81	1.83	1.85	1.88	1.90
.088:	1.92	1.95	1.97	2.00	2.02	2.05	2.07	2.09	2.12	2.14
.089:	2.16	2.18	2.20	2.22	2.24	2.26	2.27	2.29	2.30	2.31
.090:	2.33	2.33	2.34	2.35	2.35	2.36	2.36	2.36	2.36	2.36
.091:	2.36	2.35	2.35	2.34	2.33	2.32	2.31	2.30	2.29	2.28
.093:	2.26	2.25	2.24	2.22	2.21	2.19	2.18	2.16	2.15	2.14
.094:	2.13	2.12	2.11	2.11	2.11	2.10	2.10	2.11	2.11	2.12
.095:	2.13	2.14	2.15	2.16	2.17	2.19	2.20	2.22	2.24	2.26
.096:	2.27	2.29	2.31	2.33	2.35	2.37	2.39	2.40	2.42	2.44
.098:	2.45	2.47	2.49	2.50	2.51	2.53	2.54	2.56	2.57	2.58
.099:	2.59	2.60	2.62	2.63	2.64	2.65	2.66	2.66	2.67	2.68
.100:	2.69	2.69	2.70	2.70	2.70	2.71	2.71	2.71	2.71	2.71
.101:	2.70	2.70	2.70	2.69	2.69	2.68	2.68	2.67	2.66	2.65
.103:	2.64	2.63	2.62	2.60	2.59	2.57	2.56	2.54	2.52	2.50
.104:	2.48	2.46	2.43	2.41	2.38	2.35	2.33	2.30	2.26	2.23

Vehicle c.g., Z-Axis, 50 msec avg. (Cont'd)

TIME :										
.105:	2.20	2.17	2.13	2.10	2.06	2.03	1.99	1.95	1.92	1.88
.106:	1.84	1.81	1.77	1.73	1.70	1.66	1.62	1.59	1.55	1.52
.108:	1.48	1.45	1.41	1.38	1.34	1.30	1.27	1.24	1.20	1.17
.109:	1.13	1.10	1.06	1.03	.99	.96	.92	.89	.86	.82
.110:	.79	.75	.72	.68	.64	.61	.57	.54	.50	.46
.111:	.43	.39	.35	.32	.28	.24	.21	.17	.14	.11
.113:	.07	.04	.01	-.02	-.05	-.08	-.11	-.14	-.16	-.19
.114:	-.21	-.24	-.26	-.28	-.31	-.33	-.35	-.37	-.39	-.42
.115:	-.44	-.46	-.49	-.51	-.54	-.56	-.59	-.61	-.64	-.67
.116:	-.69	-.72	-.75	-.78	-.81	-.84	-.87	-.91	-.94	-.97
.118:	-1.00	-1.03	-1.07	-1.10	-1.13	-1.17	-1.20	-1.24	-1.27	-1.30
.119:	-1.34	-1.37	-1.41	-1.44	-1.48	-1.51	-1.55	-1.58	-1.62	-1.65
.120:	-1.69	-1.72	-1.76	-1.79	-1.83	-1.86	-1.89	-1.93	-1.96	-1.99
.121:	-2.02	-2.05	-2.07	-2.10	-2.13	-2.15	-2.17	-2.19	-2.21	-2.23
.123:	-2.24	-2.26	-2.27	-2.29	-2.30	-2.31	-2.32	-2.33	-2.34	-2.34
.124:	-2.35	-2.36	-2.37	-2.38	-2.39	-2.40	-2.41	-2.43	-2.44	-2.46
.125:	-2.47	-2.49	-2.51	-2.53	-2.55	-2.58	-2.60	-2.63	-2.66	-2.69
.126:	-2.72	-2.75	-2.78	-2.82	-2.85	-2.89	-2.92	-2.96	-3.00	-3.03
.128:	-3.07	-3.11	-3.15	-3.19	-3.23	-3.27	-3.31	-3.35	-3.38	-3.42
.129:	-3.45	-3.49	-3.52	-3.55	-3.58	-3.61	-3.63	-3.65	-3.67	-3.69
.130:	-3.70	-3.71	-3.72	-3.72	-3.72	-3.72	-3.71	-3.70	-3.69	-3.68
.131:	-3.67	-3.65	-3.63	-3.62	-3.60	-3.58	-3.56	-3.55	-3.53	-3.52
.133:	-3.51	-3.49	-3.48	-3.48	-3.47	-3.46	-3.46	-3.46	-3.46	-3.46
.134:	-3.46	-3.46	-3.46	-3.47	-3.47	-3.48	-3.49	-3.50	-3.50	-3.51
.135:	-3.52	-3.53	-3.54	-3.55	-3.56	-3.58	-3.59	-3.60	-3.62	-3.63
.136:	-3.65	-3.67	-3.69	-3.71	-3.73	-3.76	-3.78	-3.81	-3.83	-3.86
.138:	-3.89	-3.92	-3.94	-3.97	-4.00	-4.03	-4.06	-4.09	-4.12	-4.14
.139:	-4.17	-4.20	-4.23	-4.26	-4.28	-4.31	-4.34	-4.36	-4.39	-4.41
.140:	-4.44	-4.47	-4.49	-4.52	-4.54	-4.56	-4.59	-4.61	-4.63	-4.65
.141:	-4.67	-4.69	-4.71	-4.73	-4.75	-4.76	-4.78	-4.79	-4.80	-4.81
.143:	-4.82	-4.83	-4.83	-4.84	-4.84	-4.84	-4.84	-4.85	-4.85	-4.85
.144:	-4.85	-4.85	-4.85	-4.85	-4.85	-4.85	-4.85	-4.85	-4.86	-4.86
.145:	-4.87	-4.87	-4.88	-4.89	-4.90	-4.91	-4.91	-4.92	-4.93	-4.94
.146:	-4.95	-4.96	-4.96	-4.97	-4.98	-4.99	-5.00	-5.00	-5.01	-5.02
.148:	-5.02	-5.03	-5.04	-5.04	-5.05	-5.05	-5.06	-5.06	-5.07	-5.07
.149:	-5.07	-5.07	-5.08	-5.07	-5.07	-5.07	-5.07	-5.06	-5.05	-5.05
.150:	-5.04	-5.02	-5.01	-5.00	-4.98	-4.97	-4.95	-4.93	-4.91	-4.89
.151:	-4.87	-4.85	-4.82	-4.80	-4.78	-4.75	-4.73	-4.70	-4.68	-4.65
.153:	-4.62	-4.60	-4.57	-4.54	-4.51	-4.48	-4.45	-4.42	-4.39	-4.36
.154:	-4.33	-4.30	-4.26	-4.23	-4.19	-4.16	-4.12	-4.09	-4.05	-4.01
.155:	-3.98	-3.94	-3.90	-3.87	-3.83	-3.80	-3.76	-3.73	-3.69	-3.66
.156:	-3.63	-3.60	-3.57	-3.54	-3.51	-3.48	-3.45	-3.43	-3.40	-3.38
.158:	-3.35	-3.33	-3.30	-3.28	-3.26	-3.23	-3.21	-3.19	-3.16	-3.14
.159:	-3.12	-3.09	-3.07	-3.05	-3.03	-3.01	-2.99	-2.97	-2.95	-2.93
.160:	-2.91	-2.89	-2.87	-2.85	-2.84	-2.82	-2.80	-2.79	-2.77	-2.76
.161:	-2.74	-2.73	-2.71	-2.70	-2.69	-2.68	-2.66	-2.65	-2.64	-2.63
.163:	-2.62	-2.61	-2.60	-2.59	-2.58	-2.57	-2.56	-2.55	-2.54	-2.53
.164:	-2.52	-2.51	-2.50	-2.49	-2.48	-2.47	-2.46	-2.44	-2.43	-2.41
.165:	-2.40	-2.38	-2.36	-2.34	-2.32	-2.30	-2.28	-2.26	-2.23	-2.21

Vehicle c.g., Z-Axis, 50 msec avg. (Cont'd)

TIME :											
.166:	-2.18	-2.16	-2.13	-2.11	-2.08	-2.05	-2.03	-2.00	-1.97	-1.95	
.168:	-1.92	-1.89	-1.86	-1.84	-1.81	-1.78	-1.76	-1.73	-1.71	-1.68	
.169:	-1.65	-1.63	-1.60	-1.58	-1.55	-1.53	-1.50	-1.48	-1.46	-1.43	
.170:	-1.41	-1.38	-1.36	-1.34	-1.31	-1.29	-1.26	-1.24	-1.22	-1.19	
.171:	-1.17	-1.15	-1.12	-1.10	-1.08	-1.06	-1.04	-1.02	-1.00	-.98	
.173:	-.97	-.95	-.93	-.92	-.90	-.89	-.88	-.87	-.86	-.85	
.174:	-.84	-.83	-.83	-.82	-.82	-.81	-.81	-.81	-.80	-.80	
.175:	-.80	-.79	-.79	-.78	-.78	-.77	-.77	-.76	-.75	-.74	
.176:	-.73	-.72	-.71	-.70	-.68	-.67	-.66	-.64	-.62	-.61	
.178:	-.59	-.58	-.57	-.55	-.54	-.52	-.51	-.50	-.49	-.49	
.179:	-.48	-.48	-.47	-.47	-.47	-.48	-.48	-.49	-.50	-.51	
.180:	-.52	-.54	-.56	-.58	-.60	-.63	-.65	-.68	-.71	-.73	
.181:	-.76	-.79	-.82	-.85	-.88	-.90	-.93	-.95	-.97	-.99	
.183:	-1.01	-1.02	-1.04	-1.05	-1.05	-1.06	-1.06	-1.06	-1.06	-1.06	
.184:	-1.05	-1.05	-1.04	-1.03	-1.02	-1.00	-.99	-.98	-.96	-.94	
.185:	-.93	-.91	-.89	-.88	-.86	-.84	-.83	-.81	-.79	-.77	
.186:	-.76	-.74	-.72	-.70	-.69	-.67	-.65	-.64	-.62	-.60	
.188:	-.59	-.57	-.55	-.54	-.52	-.51	-.49	-.48	-.46	-.45	
.189:	-.43	-.42	-.40	-.39	-.37	-.36	-.34	-.32	-.31	-.29	
.190:	-.27	-.25	-.23	-.21	-.19	-.17	-.15	-.12	-.10	-.08	
.191:	-.06	-.03	-.01	.01	.04	.06	.08	.11	.13	.15	
.193:	.17	.19	.21	.23	.24	.26	.28	.29	.31	.32	
.194:	.33	.34	.35	.36	.37	.38	.39	.39	.40	.41	
.195:	.41	.41	.42	.42	.42	.42	.42	.42	.42	.42	
.196:	.42	.41	.41	.41	.40	.40	.39	.38	.38	.37	
.198:	.36	.36	.35	.34	.33	.32	.32	.31	.30	.29	
.199:	.28	.28	.27	.26	.25	.24	.23	.22	.21	.20	
.200:	.19	.18	.17	.16	.15	.14	.13	.12	.10	.09	
.201:	.08	.07	.06	.05	.05	.04	.03	.02	.01	.01	
.203:	-.00	-.01	-.01	-.02	-.03	-.03	-.04	-.04	-.05	-.06	
.204:	-.06	-.07	-.08	-.08	-.09	-.10	-.11	-.12	-.13	-.14	
.205:	-.15	-.16	-.18	-.19	-.20	-.21	-.23	-.24	-.26	-.27	
.206:	-.28	-.30	-.31	-.32	-.34	-.35	-.36	-.37	-.38	-.40	
.208:	-.41	-.41	-.42	-.43	-.44	-.45	-.45	-.46	-.46	-.46	
.209:	-.47	-.47	-.47	-.47	-.48	-.48	-.48	-.48	-.48	-.48	
.210:	-.48	-.48	-.48	-.48	-.48	-.47	-.47	-.47	-.47	-.47	
.211:	-.47	-.47	-.47	-.47	-.47	-.47	-.47	-.47	-.47	-.47	
.213:	-.47	-.47	-.46	-.46	-.46	-.46	-.46	-.45	-.45	-.45	
.214:	-.45	-.44	-.44	-.43	-.43	-.43	-.42	-.42	-.42	-.41	
.215:	-.41	-.41	-.41	-.40	-.40	-.40	-.40	-.40	-.40	-.40	
.216:	-.40	-.40	-.40	-.40	-.40	-.40	-.40	-.40	-.40	-.40	
.218:	-.41	-.41	-.41	-.42	-.42	-.43	-.43	-.44	-.45	-.46	
.219:	-.47	-.47	-.48	-.49	-.50	-.51	-.53	-.54	-.55	-.56	
.220:	-.57	-.58	-.59	-.61	-.62	-.63	-.64	-.66	-.67	-.68	
.221:	-.70	-.71	-.72	-.73	-.75	-.76	-.77	-.78	-.79	-.80	
.223:	-.81	-.82	-.83	-.84	-.84	-.85	-.85	-.85	-.85	-.85	
.224:	-.85	-.84	-.83	-.83	-.82	-.81	-.80	-.78	-.77	-.76	
.225:	-.74	-.72	-.71	-.69	-.67	-.66	-.64	-.62	-.61	-.59	

APPENDIX F
INTEGRAL DATA

APPENDIX F

SMALL SIGN SUPPORT TEST, PHASE I, SIGN SUPPORT IMPACT TEST NO.6

This appendix contains time printouts of the first and second integrals of the X and Y axes accelerometers located at the vehicle c.g. The acceleration time histories from which the integrals were made were filtered with a Class 180 filter prior to digitizing. These data are summarized in Table 12.

For Reference:

F0806483 - X Axis

F0806484 - Y Axis

Impact Time - 45 msec

Time Step - 0.125 msec

Velocity (IN1) Units - ft/sec.

Displacement (IN2) Units - in.

Velocity, X-Axis

FILE NAME B:F0806483.IN1

DELTA= .13 MSEC: 8000.0 S/SEC.
 NO. POINTS= 2860 END TIME= 357.50 MSEC.

TIME :											
.045:	-.00	-.01	-.01	-.02	-.03	-.04	-.05	-.07	-.08	-.11	
.046:	-.13	-.16	-.19	-.22	-.26	-.29	-.33	-.37	-.40	-.43	
.048:	-.45	-.48	-.50	-.51	-.52	-.53	-.54	-.54	-.55	-.56	
.049:	-.57	-.58	-.60	-.62	-.65	-.68	-.71	-.74	-.77	-.80	
.050:	-.82	-.84	-.85	-.86	-.85	-.84	-.82	-.80	-.77	-.74	
.051:	-.71	-.69	-.67	-.66	-.66	-.67	-.69	-.72	-.76	-.79	
.053:	-.83	-.87	-.91	-.94	-.96	-.97	-.98	-.98	-.97	-.97	
.054:	-.96	-.95	-.95	-.96	-.97	-.98	-1.00	-1.03	-1.06	-1.09	
.055:	-1.13	-1.16	-1.19	-1.22	-1.24	-1.27	-1.29	-1.30	-1.32	-1.33	
.056:	-1.34	-1.35	-1.37	-1.38	-1.40	-1.41	-1.43	-1.45	-1.47	-1.49	
.058:	-1.51	-1.53	-1.55	-1.57	-1.58	-1.59	-1.61	-1.62	-1.63	-1.65	
.059:	-1.66	-1.67	-1.69	-1.70	-1.72	-1.74	-1.75	-1.77	-1.79	-1.80	
.060:	-1.81	-1.82	-1.84	-1.85	-1.85	-1.86	-1.87	-1.88	-1.88	-1.89	
.061:	-1.89	-1.89	-1.89	-1.89	-1.89	-1.89	-1.88	-1.88	-1.87	-1.86	
.063:	-1.86	-1.85	-1.84	-1.84	-1.84	-1.83	-1.83	-1.83	-1.83	-1.83	
.064:	-1.83	-1.83	-1.83	-1.83	-1.82	-1.82	-1.82	-1.81	-1.81	-1.80	
.065:	-1.80	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.80	-1.80	-1.81	
.066:	-1.82	-1.83	-1.85	-1.86	-1.88	-1.90	-1.92	-1.95	-1.97	-1.99	
.068:	-2.01	-2.03	-2.05	-2.07	-2.08	-2.09	-2.10	-2.10	-2.11	-2.11	
.069:	-2.11	-2.11	-2.11	-2.11	-2.12	-2.13	-2.14	-2.16	-2.18	-2.20	
.070:	-2.22	-2.25	-2.27	-2.30	-2.32	-2.35	-2.37	-2.38	-2.40	-2.41	
.071:	-2.42	-2.43	-2.44	-2.44	-2.45	-2.46	-2.48	-2.49	-2.51	-2.53	
.073:	-2.56	-2.58	-2.60	-2.62	-2.64	-2.65	-2.66	-2.66	-2.66	-2.65	
.074:	-2.64	-2.62	-2.60	-2.58	-2.56	-2.55	-2.53	-2.53	-2.53	-2.53	
.075:	-2.55	-2.57	-2.61	-2.64	-2.69	-2.74	-2.79	-2.85	-2.90	-2.96	
.076:	-3.01	-3.06	-3.11	-3.15	-3.19	-3.23	-3.26	-3.29	-3.31	-3.34	
.078:	-3.36	-3.39	-3.42	-3.45	-3.48	-3.51	-3.54	-3.58	-3.61	-3.63	
.079:	-3.66	-3.68	-3.70	-3.71	-3.72	-3.73	-3.73	-3.74	-3.74	-3.75	
.080:	-3.76	-3.78	-3.80	-3.82	-3.85	-3.89	-3.93	-3.97	-4.01	-4.05	
.081:	-4.09	-4.12	-4.15	-4.17	-4.19	-4.20	-4.21	-4.21	-4.20	-4.20	
.083:	-4.20	-4.20	-4.21	-4.22	-4.24	-4.27	-4.30	-4.33	-4.37	-4.41	
.084:	-4.45	-4.49	-4.53	-4.56	-4.59	-4.62	-4.64	-4.66	-4.68	-4.69	
.085:	-4.70	-4.71	-4.71	-4.72	-4.73	-4.75	-4.76	-4.78	-4.80	-4.83	
.086:	-4.86	-4.89	-4.93	-4.96	-5.00	-5.04	-5.07	-5.11	-5.14	-5.18	
.088:	-5.20	-5.23	-5.25	-5.27	-5.29	-5.30	-5.32	-5.33	-5.35	-5.37	
.089:	-5.40	-5.42	-5.44	-5.46	-5.49	-5.51	-5.52	-5.54	-5.55	-5.56	
.090:	-5.57	-5.57	-5.57	-5.57	-5.56	-5.56	-5.56	-5.56	-5.56	-5.57	
.091:	-5.58	-5.59	-5.61	-5.62	-5.64	-5.66	-5.68	-5.70	-5.72	-5.73	
.093:	-5.74	-5.75	-5.75	-5.76	-5.76	-5.76	-5.77	-5.78	-5.79	-5.82	
.094:	-5.84	-5.88	-5.91	-5.95	-6.00	-6.04	-6.09	-6.14	-6.18	-6.23	
.095:	-6.27	-6.31	-6.35	-6.39	-6.43	-6.48	-6.52	-6.57	-6.62	-6.67	
.096:	-6.73	-6.79	-6.85	-6.91	-6.96	-7.01	-7.06	-7.10	-7.13	-7.16	
.098:	-7.19	-7.21	-7.24	-7.26	-7.29	-7.32	-7.36	-7.40	-7.44	-7.49	
.099:	-7.54	-7.59	-7.64	-7.69	-7.74	-7.78	-7.82	-7.85	-7.88	-7.91	
.100:	-7.93	-7.96	-7.99	-8.02	-8.05	-8.09	-8.13	-8.17	-8.22	-8.27	
.101:	-8.32	-8.37	-8.42	-8.46	-8.50	-8.53	-8.56	-8.59	-8.61	-8.63	
.103:	-8.64	-8.66	-8.67	-8.69	-8.70	-8.72	-8.74	-8.77	-8.80	-8.83	
.104:	-8.86	-8.90	-8.93	-8.97	-9.01	-9.04	-9.07	-9.11	-9.14	-9.17	

Velocity, X-Axis (Cont'd)

TIME :											
.105:	-9.20	-9.22	-9.25	-9.28	-9.31	-9.34	-9.38	-9.41	-9.45	-9.50	
.106:	-9.54	-9.59	-9.64	-9.69	-9.74	-9.79	-9.84	-9.89	-9.94	-9.98	
.108:	-10.02	-10.06	-10.10	-10.14	-10.17	-10.21	-10.24	-10.28	-10.31	-10.35	
.109:	-10.39	-10.43	-10.46	-10.50	-10.54	-10.58	-10.62	-10.66	-10.71	-10.75	
.110:	-10.79	-10.83	-10.87	-10.91	-10.95	-10.99	-11.03	-11.07	-11.11	-11.15	
.111:	-11.19	-11.22	-11.26	-11.29	-11.33	-11.36	-11.39	-11.42	-11.45	-11.48	
.113:	-11.51	-11.54	-11.57	-11.61	-11.64	-11.68	-11.72	-11.76	-11.80	-11.84	
.114:	-11.87	-11.91	-11.94	-11.97	-12.00	-12.03	-12.05	-12.08	-12.10	-12.13	
.115:	-12.15	-12.17	-12.20	-12.23	-12.26	-12.29	-12.32	-12.36	-12.39	-12.43	
.116:	-12.47	-12.51	-12.54	-12.58	-12.62	-12.66	-12.70	-12.73	-12.77	-12.80	
.118:	-12.84	-12.87	-12.91	-12.94	-12.97	-13.00	-13.03	-13.06	-13.09	-13.12	
.119:	-13.16	-13.19	-13.22	-13.26	-13.29	-13.33	-13.36	-13.39	-13.42	-13.45	
.120:	-13.47	-13.50	-13.52	-13.54	-13.56	-13.58	-13.61	-13.63	-13.67	-13.70	
.121:	-13.74	-13.78	-13.83	-13.87	-13.92	-13.97	-14.01	-14.06	-14.10	-14.14	
.123:	-14.18	-14.22	-14.26	-14.30	-14.34	-14.38	-14.42	-14.46	-14.51	-14.56	
.124:	-14.61	-14.66	-14.72	-14.78	-14.84	-14.91	-14.98	-15.04	-15.11	-15.17	
.125:	-15.24	-15.29	-15.34	-15.38	-15.42	-15.44	-15.46	-15.47	-15.48	-15.49	
.126:	-15.50	-15.51	-15.53	-15.55	-15.58	-15.61	-15.65	-15.70	-15.76	-15.82	
.128:	-15.88	-15.94	-16.00	-16.06	-16.11	-16.16	-16.21	-16.25	-16.28	-16.31	
.129:	-16.34	-16.36	-16.38	-16.40	-16.42	-16.44	-16.46	-16.49	-16.52	-16.55	
.130:	-16.59	-16.64	-16.69	-16.74	-16.80	-16.86	-16.92	-16.98	-17.04	-17.10	
.131:	-17.16	-17.21	-17.27	-17.32	-17.37	-17.42	-17.47	-17.52	-17.57	-17.62	
.133:	-17.67	-17.72	-17.77	-17.82	-17.88	-17.93	-17.99	-18.04	-18.10	-18.15	
.134:	-18.20	-18.25	-18.30	-18.34	-18.39	-18.43	-18.48	-18.52	-18.57	-18.62	
.135:	-18.67	-18.72	-18.77	-18.83	-18.89	-18.94	-19.00	-19.05	-19.11	-19.16	
.136:	-19.21	-19.25	-19.29	-19.33	-19.36	-19.39	-19.42	-19.45	-19.49	-19.52	
.138:	-19.55	-19.59	-19.62	-19.66	-19.70	-19.74	-19.77	-19.81	-19.85	-19.88	
.139:	-19.92	-19.95	-19.99	-20.02	-20.06	-20.09	-20.13	-20.17	-20.21	-20.25	
.140:	-20.30	-20.34	-20.39	-20.43	-20.48	-20.52	-20.57	-20.61	-20.66	-20.70	
.141:	-20.75	-20.80	-20.85	-20.90	-20.95	-21.00	-21.06	-21.12	-21.18	-21.24	
.143:	-21.30	-21.36	-21.42	-21.48	-21.54	-21.59	-21.65	-21.70	-21.75	-21.79	
.144:	-21.84	-21.88	-21.92	-21.96	-22.00	-22.04	-22.08	-22.12	-22.16	-22.20	
.145:	-22.24	-22.28	-22.32	-22.36	-22.40	-22.45	-22.49	-22.53	-22.58	-22.62	
.146:	-22.66	-22.69	-22.73	-22.77	-22.80	-22.84	-22.87	-22.91	-22.95	-22.99	
.148:	-23.03	-23.07	-23.11	-23.15	-23.20	-23.24	-23.28	-23.32	-23.36	-23.40	
.149:	-23.43	-23.46	-23.49	-23.52	-23.55	-23.57	-23.60	-23.63	-23.66	-23.69	
.150:	-23.73	-23.77	-23.81	-23.86	-23.92	-23.97	-24.03	-24.09	-24.15	-24.22	
.151:	-24.28	-24.34	-24.40	-24.46	-24.52	-24.57	-24.62	-24.67	-24.71	-24.76	
.153:	-24.80	-24.85	-24.89	-24.94	-24.99	-25.04	-25.10	-25.15	-25.22	-25.28	
.154:	-25.35	-25.41	-25.48	-25.54	-25.61	-25.67	-25.72	-25.77	-25.82	-25.87	
.155:	-25.91	-25.96	-26.00	-26.04	-26.07	-26.11	-26.15	-26.19	-26.24	-26.28	
.156:	-26.32	-26.36	-26.40	-26.43	-26.47	-26.50	-26.54	-26.57	-26.60	-26.63	
.158:	-26.66	-26.70	-26.73	-26.76	-26.80	-26.84	-26.88	-26.92	-26.96	-27.00	
.159:	-27.05	-27.09	-27.13	-27.17	-27.21	-27.24	-27.28	-27.31	-27.33	-27.36	
.160:	-27.39	-27.41	-27.43	-27.46	-27.48	-27.50	-27.52	-27.54	-27.56	-27.58	
.161:	-27.59	-27.61	-27.62	-27.63	-27.64	-27.65	-27.65	-27.66	-27.67	-27.68	
.163:	-27.68	-27.69	-27.70	-27.71	-27.72	-27.73	-27.74	-27.75	-27.76	-27.77	
.164:	-27.78	-27.79	-27.80	-27.81	-27.82	-27.83	-27.83	-27.84	-27.85	-27.86	
.165:	-27.87	-27.88	-27.89	-27.90	-27.91	-27.93	-27.94	-27.96	-27.98	-28.00	

Velocity, X-Axis (Cont'd)

TIME :	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
.166:	-28.02	-28.05	-28.07	-28.10	-28.12	-28.15	-28.18	-28.20	-28.23	-28.25
.168:	-28.28	-28.30	-28.33	-28.35	-28.37	-28.39	-28.40	-28.42	-28.44	-28.46
.169:	-28.48	-28.50	-28.52	-28.54	-28.56	-28.59	-28.61	-28.64	-28.67	-28.70
.170:	-28.73	-28.76	-28.79	-28.83	-28.86	-28.90	-28.93	-28.96	-28.99	-29.02
.171:	-29.05	-29.08	-29.10	-29.12	-29.14	-29.16	-29.18	-29.20	-29.21	-29.23
.173:	-29.24	-29.26	-29.28	-29.30	-29.32	-29.34	-29.36	-29.38	-29.40	-29.42
.174:	-29.45	-29.47	-29.50	-29.53	-29.55	-29.58	-29.61	-29.64	-29.66	-29.69
.175:	-29.72	-29.74	-29.76	-29.78	-29.81	-29.83	-29.85	-29.87	-29.89	-29.91
.176:	-29.94	-29.97	-30.00	-30.04	-30.08	-30.12	-30.17	-30.22	-30.28	-30.34
.178:	-30.40	-30.46	-30.52	-30.58	-30.64	-30.70	-30.75	-30.80	-30.86	-30.90
.179:	-30.95	-30.99	-31.03	-31.06	-31.10	-31.13	-31.15	-31.18	-31.20	-31.21
.180:	-31.23	-31.24	-31.25	-31.25	-31.26	-31.26	-31.26	-31.26	-31.25	-31.25
.181:	-31.24	-31.23	-31.22	-31.21	-31.20	-31.19	-31.18	-31.17	-31.17	-31.17
.183:	-31.17	-31.18	-31.19	-31.20	-31.22	-31.24	-31.27	-31.31	-31.34	-31.38
.184:	-31.43	-31.47	-31.52	-31.56	-31.60	-31.64	-31.67	-31.70	-31.72	-31.74
.185:	-31.75	-31.76	-31.77	-31.77	-31.78	-31.78	-31.79	-31.80	-31.82	-31.83
.186:	-31.86	-31.88	-31.91	-31.94	-31.97	-32.00	-32.03	-32.06	-32.08	-32.09
.188:	-32.10	-32.10	-32.10	-32.10	-32.09	-32.08	-32.08	-32.07	-32.07	-32.07
.189:	-32.07	-32.08	-32.09	-32.10	-32.12	-32.13	-32.15	-32.16	-32.18	-32.19
.190:	-32.21	-32.22	-32.24	-32.25	-32.26	-32.28	-32.29	-32.30	-32.31	-32.32
.191:	-32.33	-32.34	-32.35	-32.37	-32.38	-32.40	-32.42	-32.44	-32.46	-32.48
.193:	-32.49	-32.51	-32.52	-32.53	-32.54	-32.55	-32.55	-32.55	-32.55	-32.55
.194:	-32.55	-32.55	-32.55	-32.55	-32.56	-32.57	-32.59	-32.60	-32.62	-32.64
.195:	-32.65	-32.67	-32.68	-32.70	-32.71	-32.72	-32.72	-32.73	-32.74	-32.74
.196:	-32.75	-32.75	-32.76	-32.77	-32.78	-32.79	-32.81	-32.82	-32.83	-32.83
.198:	-32.84	-32.84	-32.84	-32.84	-32.84	-32.84	-32.83	-32.83	-32.83	-32.83
.199:	-32.82	-32.82	-32.83	-32.83	-32.83	-32.83	-32.83	-32.83	-32.83	-32.82
.200:	-32.81	-32.80	-32.79	-32.78	-32.76	-32.74	-32.73	-32.71	-32.69	-32.68
.201:	-32.67	-32.66	-32.65	-32.65	-32.65	-32.65	-32.65	-32.65	-32.65	-32.65
.203:	-32.65	-32.65	-32.65	-32.65	-32.64	-32.63	-32.63	-32.61	-32.60	-32.58
.204:	-32.56	-32.54	-32.52	-32.50	-32.48	-32.46	-32.44	-32.41	-32.40	-32.38
.205:	-32.36	-32.34	-32.33	-32.32	-32.31	-32.30	-32.29	-32.28	-32.27	-32.26
.206:	-32.26	-32.25	-32.24	-32.24	-32.23	-32.22	-32.22	-32.21	-32.21	-32.21
.208:	-32.21	-32.20	-32.20	-32.20	-32.20	-32.20	-32.19	-32.19	-32.18	-32.18
.209:	-32.17	-32.16	-32.15	-32.14	-32.14	-32.13	-32.12	-32.11	-32.11	-32.11
.210:	-32.11	-32.11	-32.11	-32.12	-32.13	-32.13	-32.14	-32.16	-32.17	-32.18
.211:	-32.20	-32.21	-32.23	-32.24	-32.25	-32.27	-32.28	-32.29	-32.31	-32.32
.213:	-32.32	-32.33	-32.33	-32.33	-32.33	-32.33	-32.33	-32.33	-32.32	-32.32
.214:	-32.32	-32.32	-32.33	-32.33	-32.34	-32.35	-32.36	-32.37	-32.38	-32.39
.215:	-32.40	-32.41	-32.41	-32.42	-32.42	-32.42	-32.41	-32.41	-32.40	-32.39
.216:	-32.39	-32.38	-32.37	-32.36	-32.36	-32.35	-32.34	-32.34	-32.34	-32.34
.218:	-32.34	-32.34	-32.34	-32.34	-32.34	-32.34	-32.34	-32.35	-32.35	-32.35
.219:	-32.35	-32.35	-32.35	-32.35	-32.34	-32.34	-32.34	-32.33	-32.33	-32.33
.220:	-32.33	-32.34	-32.34	-32.35	-32.36	-32.38	-32.40	-32.41	-32.43	-32.45
.221:	-32.46	-32.48	-32.48	-32.49	-32.49	-32.48	-32.47	-32.46	-32.45	-32.43
.223:	-32.42	-32.40	-32.39	-32.38	-32.37	-32.36	-32.36	-32.36	-32.37	-32.37
.224:	-32.38	-32.40	-32.41	-32.43	-32.44	-32.46	-32.47	-32.49	-32.50	-32.51
.225:	-32.52	-32.53	-32.54	-32.55	-32.56	-32.56	-32.57	-32.58	-32.59	-32.60

Displacement, x-Axis

FILE NAME B:F0806483.IN2

DELTA= .13 MSEC: 8000.0 S/SEC.
 NO. POINTS= 2860 END TIME= 357.50 MSEC.

TIME :										
.045:	-.00	-.0%	-.0%	-.0%	-.0%	-.0%	-.0%	-.0%	-.0%	-.0%
.046:	-.00	-.00	-.00	-.00	-.00	-.00	-.00	-.00	-.00	-.00
.048:	-.01	-.01	-.01	-.01	-.01	-.01	-.01	-.01	-.01	-.01
.049:	-.01	-.01	-.02	-.02	-.02	-.02	-.02	-.02	-.02	-.02
.050:	-.02	-.03	-.03	-.03	-.03	-.03	-.03	-.03	-.03	-.03
.051:	-.04	-.04	-.04	-.04	-.04	-.04	-.04	-.04	-.04	-.05
.053:	-.05	-.05	-.05	-.05	-.05	-.05	-.06	-.06	-.06	-.06
.054:	-.06	-.06	-.06	-.07	-.07	-.07	-.07	-.07	-.07	-.07
.055:	-.08	-.08	-.08	-.08	-.08	-.09	-.09	-.09	-.09	-.09
.056:	-.10	-.10	-.10	-.10	-.10	-.11	-.11	-.11	-.11	-.11
.058:	-.12	-.12	-.12	-.12	-.13	-.13	-.13	-.13	-.14	-.14
.059:	-.14	-.14	-.15	-.15	-.15	-.15	-.16	-.16	-.16	-.16
.060:	-.17	-.17	-.17	-.17	-.18	-.18	-.18	-.19	-.19	-.19
.061:	-.19	-.20	-.20	-.20	-.21	-.21	-.21	-.21	-.22	-.22
.063:	-.22	-.23	-.23	-.23	-.23	-.24	-.24	-.24	-.24	-.25
.064:	-.25	-.25	-.26	-.26	-.26	-.26	-.27	-.27	-.27	-.27
.065:	-.28	-.28	-.28	-.29	-.29	-.29	-.29	-.30	-.30	-.30
.066:	-.30	-.31	-.31	-.31	-.32	-.32	-.32	-.32	-.33	-.33
.068:	-.33	-.34	-.34	-.34	-.35	-.35	-.35	-.36	-.36	-.36
.069:	-.36	-.37	-.37	-.37	-.38	-.38	-.38	-.39	-.39	-.39
.070:	-.40	-.40	-.40	-.41	-.41	-.41	-.42	-.42	-.42	-.43
.071:	-.43	-.44	-.44	-.44	-.45	-.45	-.45	-.46	-.46	-.47
.073:	-.47	-.47	-.48	-.48	-.48	-.49	-.49	-.50	-.50	-.50
.074:	-.51	-.51	-.52	-.52	-.52	-.53	-.53	-.54	-.54	-.54
.075:	-.55	-.55	-.55	-.56	-.56	-.57	-.57	-.58	-.58	-.58
.076:	-.59	-.59	-.60	-.60	-.61	-.61	-.62	-.62	-.63	-.63
.078:	-.64	-.64	-.65	-.65	-.66	-.66	-.67	-.67	-.68	-.68
.079:	-.69	-.70	-.70	-.71	-.71	-.72	-.72	-.73	-.73	-.74
.080:	-.75	-.75	-.76	-.76	-.77	-.77	-.78	-.79	-.79	-.80
.081:	-.80	-.81	-.82	-.82	-.83	-.84	-.84	-.85	-.86	-.86
.083:	-.87	-.87	-.88	-.89	-.89	-.90	-.91	-.91	-.92	-.93
.084:	-.93	-.94	-.95	-.95	-.96	-.97	-.97	-.98	-.99	-.99
.085:	-1.00	-1.01	-1.02	-1.02	-1.03	-1.04	-1.04	-1.05	-1.06	-1.07
.086:	-1.07	-1.08	-1.09	-1.09	-1.10	-1.11	-1.12	-1.13	-1.13	-1.14
.088:	-1.15	-1.16	-1.16	-1.17	-1.18	-1.19	-1.20	-1.20	-1.21	-1.22
.089:	-1.23	-1.24	-1.24	-1.25	-1.26	-1.27	-1.28	-1.29	-1.29	-1.30
.090:	-1.31	-1.32	-1.33	-1.34	-1.34	-1.35	-1.36	-1.37	-1.38	-1.39
.091:	-1.39	-1.40	-1.41	-1.42	-1.43	-1.44	-1.45	-1.45	-1.46	-1.47
.093:	-1.48	-1.49	-1.50	-1.51	-1.51	-1.52	-1.53	-1.54	-1.55	-1.56
.094:	-1.57	-1.57	-1.58	-1.59	-1.60	-1.61	-1.62	-1.63	-1.64	-1.65
.095:	-1.66	-1.67	-1.68	-1.69	-1.70	-1.71	-1.71	-1.72	-1.73	-1.74
.096:	-1.75	-1.76	-1.78	-1.79	-1.80	-1.81	-1.82	-1.83	-1.84	-1.85
.098:	-1.86	-1.87	-1.88	-1.89	-1.90	-1.91	-1.93	-1.94	-1.95	-1.96
.099:	-1.97	-1.98	-1.99	-2.00	-2.02	-2.03	-2.04	-2.05	-2.06	-2.08
.100:	-2.09	-2.10	-2.11	-2.12	-2.14	-2.15	-2.16	-2.17	-2.18	-2.20
.101:	-2.21	-2.22	-2.23	-2.25	-2.26	-2.27	-2.29	-2.30	-2.31	-2.32
.103:	-2.34	-2.35	-2.36	-2.38	-2.39	-2.40	-2.42	-2.43	-2.44	-2.45
.104:	-2.47	-2.48	-2.49	-2.51	-2.52	-2.54	-2.55	-2.56	-2.58	-2.59

Displacement, X-Axis (Cont'd)

TIME :											
.166:	-16.54	-16.59	-16.63	-16.67	-16.71	-16.75	-16.80	-16.84	-16.88	-16.92	
.168:	-16.97	-17.01	-17.05	-17.09	-17.14	-17.18	-17.22	-17.26	-17.31	-17.35	
.169:	-17.39	-17.43	-17.48	-17.52	-17.56	-17.61	-17.65	-17.69	-17.74	-17.78	
.170:	-17.82	-17.86	-17.91	-17.95	-17.99	-18.04	-18.08	-18.12	-18.17	-18.21	
.171:	-18.25	-18.30	-18.34	-18.39	-18.43	-18.47	-18.52	-18.56	-18.60	-18.65	
.173:	-18.69	-18.74	-18.78	-18.82	-18.87	-18.91	-18.96	-19.00	-19.04	-19.09	
.174:	-19.13	-19.18	-19.22	-19.27	-19.31	-19.35	-19.40	-19.44	-19.49	-19.53	
.175:	-19.58	-19.62	-19.67	-19.71	-19.76	-19.80	-19.84	-19.89	-19.93	-19.98	
.176:	-20.02	-20.07	-20.11	-20.16	-20.20	-20.25	-20.29	-20.34	-20.39	-20.43	
.178:	-20.48	-20.52	-20.57	-20.61	-20.66	-20.71	-20.75	-20.80	-20.84	-20.89	
.179:	-20.94	-20.98	-21.03	-21.08	-21.12	-21.17	-21.22	-21.26	-21.31	-21.36	
.180:	-21.40	-21.45	-21.50	-21.54	-21.59	-21.64	-21.69	-21.73	-21.78	-21.83	
.181:	-21.87	-21.92	-21.97	-22.01	-22.06	-22.11	-22.15	-22.20	-22.25	-22.29	
.183:	-22.34	-22.39	-22.43	-22.48	-22.53	-22.57	-22.62	-22.67	-22.72	-22.76	
.184:	-22.81	-22.86	-22.90	-22.95	-23.00	-23.05	-23.09	-23.14	-23.19	-23.24	
.185:	-23.28	-23.33	-23.38	-23.43	-23.48	-23.52	-23.57	-23.62	-23.67	-23.71	
.186:	-23.76	-23.81	-23.86	-23.91	-23.95	-24.00	-24.05	-24.10	-24.15	-24.19	
.188:	-24.24	-24.29	-24.34	-24.39	-24.43	-24.48	-24.53	-24.58	-24.63	-24.67	
.189:	-24.72	-24.77	-24.82	-24.87	-24.92	-24.96	-25.01	-25.06	-25.11	-25.16	
.190:	-25.20	-25.25	-25.30	-25.35	-25.40	-25.45	-25.50	-25.54	-25.59	-25.64	
.191:	-25.69	-25.74	-25.79	-25.83	-25.88	-25.93	-25.98	-26.03	-26.08	-26.13	
.193:	-26.18	-26.22	-26.27	-26.32	-26.37	-26.42	-26.47	-26.52	-26.57	-26.61	
.194:	-26.66	-26.71	-26.76	-26.81	-26.86	-26.91	-26.96	-27.01	-27.05	-27.10	
.195:	-27.15	-27.20	-27.25	-27.30	-27.35	-27.40	-27.45	-27.50	-27.54	-27.59	
.196:	-27.64	-27.69	-27.74	-27.79	-27.84	-27.89	-27.94	-27.99	-28.04	-28.09	
.198:	-28.13	-28.18	-28.23	-28.28	-28.33	-28.38	-28.43	-28.48	-28.53	-28.58	
.199:	-28.63	-28.68	-28.73	-28.78	-28.82	-28.87	-28.92	-28.97	-29.02	-29.07	
.200:	-29.12	-29.17	-29.22	-29.27	-29.32	-29.37	-29.41	-29.46	-29.51	-29.56	
.201:	-29.61	-29.66	-29.71	-29.76	-29.81	-29.86	-29.90	-29.95	-30.00	-30.05	
.203:	-30.10	-30.15	-30.20	-30.25	-30.30	-30.35	-30.39	-30.44	-30.49	-30.54	
.204:	-30.59	-30.64	-30.69	-30.74	-30.78	-30.83	-30.88	-30.93	-30.98	-31.03	
.205:	-31.08	-31.13	-31.17	-31.22	-31.27	-31.32	-31.37	-31.42	-31.46	-31.51	
.206:	-31.56	-31.61	-31.66	-31.71	-31.75	-31.80	-31.85	-31.90	-31.95	-32.00	
.208:	-32.04	-32.09	-32.14	-32.19	-32.24	-32.29	-32.33	-32.38	-32.43	-32.48	
.209:	-32.53	-32.58	-32.62	-32.67	-32.72	-32.77	-32.82	-32.86	-32.91	-32.96	
.210:	-33.01	-33.06	-33.11	-33.15	-33.20	-33.25	-33.30	-33.35	-33.39	-33.44	
.211:	-33.49	-33.54	-33.59	-33.64	-33.68	-33.73	-33.78	-33.83	-33.88	-33.93	
.213:	-33.98	-34.02	-34.07	-34.12	-34.17	-34.22	-34.27	-34.31	-34.36	-34.41	
.214:	-34.46	-34.51	-34.56	-34.61	-34.65	-34.70	-34.75	-34.80	-34.85	-34.90	
.215:	-34.95	-34.99	-35.04	-35.09	-35.14	-35.19	-35.24	-35.29	-35.33	-35.38	
.216:	-35.43	-35.48	-35.53	-35.58	-35.63	-35.67	-35.72	-35.77	-35.82	-35.87	
.218:	-35.92	-35.97	-36.01	-36.06	-36.11	-36.16	-36.21	-36.26	-36.31	-36.35	
.219:	-36.40	-36.45	-36.50	-36.55	-36.60	-36.64	-36.69	-36.74	-36.79	-36.84	
.220:	-36.89	-36.94	-36.98	-37.03	-37.08	-37.13	-37.18	-37.23	-37.28	-37.32	
.221:	-37.37	-37.42	-37.47	-37.52	-37.57	-37.62	-37.67	-37.71	-37.76	-37.81	
.223:	-37.86	-37.91	-37.96	-38.01	-38.05	-38.10	-38.15	-38.20	-38.25	-38.30	
.224:	-38.35	-38.39	-38.44	-38.49	-38.54	-38.59	-38.64	-38.69	-38.74	-38.78	
.225:	-38.83	-38.88	-38.93	-38.98	-39.03	-39.08	-39.13	-39.17	-39.22	-39.27	

Displacement, X-Axis (Cont'd)

TIME :										
.105:	-2.60	-2.62	-2.63	-2.65	-2.66	-2.67	-2.69	-2.70	-2.72	-2.73
.106:	-2.74	-2.76	-2.77	-2.79	-2.80	-2.82	-2.83	-2.85	-2.86	-2.88
.108:	-2.89	-2.91	-2.92	-2.94	-2.95	-2.97	-2.98	-3.00	-3.01	-3.03
.109:	-3.04	-3.06	-3.08	-3.09	-3.11	-3.12	-3.14	-3.16	-3.17	-3.19
.110:	-3.20	-3.22	-3.24	-3.25	-3.27	-3.29	-3.30	-3.32	-3.34	-3.35
.111:	-3.37	-3.39	-3.40	-3.42	-3.44	-3.45	-3.47	-3.49	-3.51	-3.52
.113:	-3.54	-3.56	-3.57	-3.59	-3.61	-3.63	-3.64	-3.66	-3.68	-3.70
.114:	-3.72	-3.73	-3.75	-3.77	-3.79	-3.80	-3.82	-3.84	-3.86	-3.88
.115:	-3.90	-3.91	-3.93	-3.95	-3.97	-3.99	-4.01	-4.02	-4.04	-4.06
.116:	-4.08	-4.10	-4.12	-4.14	-4.16	-4.17	-4.19	-4.21	-4.23	-4.25
.118:	-4.27	-4.29	-4.31	-4.33	-4.35	-4.37	-4.39	-4.41	-4.43	-4.45
.119:	-4.47	-4.49	-4.51	-4.53	-4.55	-4.57	-4.59	-4.61	-4.63	-4.65
.120:	-4.67	-4.69	-4.71	-4.73	-4.75	-4.77	-4.79	-4.81	-4.83	-4.85
.121:	-4.87	-4.89	-4.91	-4.93	-4.95	-4.97	-5.00	-5.02	-5.04	-5.06
.123:	-5.08	-5.10	-5.12	-5.14	-5.17	-5.19	-5.21	-5.23	-5.25	-5.27
.124:	-5.30	-5.32	-5.34	-5.36	-5.38	-5.41	-5.43	-5.45	-5.47	-5.50
.125:	-5.52	-5.54	-5.57	-5.59	-5.61	-5.64	-5.66	-5.68	-5.70	-5.73
.126:	-5.75	-5.77	-5.80	-5.82	-5.84	-5.87	-5.89	-5.92	-5.94	-5.96
.128:	-5.99	-6.01	-6.03	-6.06	-6.08	-6.11	-6.13	-6.16	-6.18	-6.20
.129:	-6.23	-6.25	-6.28	-6.30	-6.33	-6.35	-6.38	-6.40	-6.43	-6.45
.130:	-6.48	-6.50	-6.53	-6.55	-6.58	-6.60	-6.63	-6.65	-6.68	-6.70
.131:	-6.73	-6.75	-6.78	-6.81	-6.83	-6.86	-6.89	-6.91	-6.94	-6.96
.133:	-6.99	-7.02	-7.04	-7.07	-7.10	-7.12	-7.15	-7.18	-7.21	-7.23
.134:	-7.26	-7.29	-7.31	-7.34	-7.37	-7.40	-7.43	-7.45	-7.48	-7.51
.135:	-7.54	-7.57	-7.59	-7.62	-7.65	-7.68	-7.71	-7.74	-7.76	-7.79
.136:	-7.82	-7.85	-7.88	-7.91	-7.94	-7.97	-8.00	-8.02	-8.05	-8.08
.138:	-8.11	-8.14	-8.17	-8.20	-8.23	-8.26	-8.29	-8.32	-8.35	-8.38
.139:	-8.41	-8.44	-8.47	-8.50	-8.53	-8.56	-8.59	-8.62	-8.65	-8.68
.140:	-8.71	-8.74	-8.77	-8.80	-8.83	-8.86	-8.89	-8.93	-8.96	-8.99
.141:	-9.02	-9.05	-9.08	-9.11	-9.14	-9.18	-9.21	-9.24	-9.27	-9.30
.143:	-9.33	-9.37	-9.40	-9.43	-9.46	-9.50	-9.53	-9.56	-9.59	-9.63
.144:	-9.66	-9.69	-9.72	-9.76	-9.79	-9.82	-9.86	-9.89	-9.92	-9.96
.145:	-9.99	-10.02	-10.06	-10.09	-10.12	-10.16	-10.19	-10.22	-10.26	-10.29
.146:	-10.33	-10.36	-10.39	-10.43	-10.46	-10.50	-10.53	-10.57	-10.60	-10.63
.148:	-10.67	-10.70	-10.74	-10.77	-10.81	-10.84	-10.88	-10.91	-10.95	-10.98
.149:	-11.02	-11.05	-11.09	-11.12	-11.16	-11.19	-11.23	-11.27	-11.30	-11.34
.150:	-11.37	-11.41	-11.44	-11.48	-11.52	-11.55	-11.59	-11.62	-11.66	-11.70
.151:	-11.73	-11.77	-11.81	-11.84	-11.88	-11.92	-11.95	-11.99	-12.03	-12.06
.153:	-12.10	-12.14	-12.18	-12.21	-12.25	-12.29	-12.33	-12.36	-12.40	-12.44
.154:	-12.48	-12.52	-12.55	-12.59	-12.63	-12.67	-12.71	-12.75	-12.78	-12.82
.155:	-12.86	-12.90	-12.94	-12.98	-13.02	-13.06	-13.10	-13.14	-13.18	-13.21
.156:	-13.25	-13.29	-13.33	-13.37	-13.41	-13.45	-13.49	-13.53	-13.57	-13.61
.158:	-13.65	-13.69	-13.73	-13.77	-13.81	-13.85	-13.89	-13.93	-13.97	-14.01
.159:	-14.06	-14.10	-14.14	-14.18	-14.22	-14.26	-14.30	-14.34	-14.38	-14.42
.160:	-14.46	-14.50	-14.55	-14.59	-14.63	-14.67	-14.71	-14.75	-14.79	-14.84
.161:	-14.88	-14.92	-14.96	-15.00	-15.04	-15.08	-15.13	-15.17	-15.21	-15.25
.163:	-15.29	-15.33	-15.37	-15.42	-15.46	-15.50	-15.54	-15.58	-15.62	-15.67
.164:	-15.71	-15.75	-15.79	-15.83	-15.87	-15.92	-15.96	-16.00	-16.04	-16.08
.165:	-16.12	-16.17	-16.21	-16.25	-16.29	-16.33	-16.38	-16.42	-16.46	-16.50

Velocity, Y-Axis

FILE NAME B:F0806484.IN1

DELTA= .13 MSEC: 8000.0 S/SEC.

0. POINTS= 2860 END TIME= 357.50 MSEC.

TIME :										
.045:	-.00	-.00	-.00	-.01	-.01	-.02	-.03	-.03	-.04	-.05
.046:	-.06	-.06	-.07	-.07	-.07	-.07	-.06	-.04	-.02	.02
.048:	.06	.11	.17	.24	.30	.37	.44	.52	.58	.65
.049:	.71	.76	.81	.84	.86	.88	.88	.86	.84	.80
.050:	.75	.69	.62	.55	.47	.40	.32	.26	.20	.14
.051:	.10	.07	.06	.05	.06	.07	.10	.13	.17	.21
.053:	.26	.31	.36	.41	.46	.50	.55	.59	.64	.68
.054:	.71	.75	.78	.80	.82	.83	.84	.84	.83	.82
.055:	.80	.78	.75	.72	.69	.65	.62	.58	.55	.51
.056:	.48	.45	.43	.40	.38	.36	.35	.34	.33	.32
.058:	.32	.32	.33	.34	.35	.37	.39	.41	.43	.45
.059:	.48	.50	.52	.54	.56	.58	.59	.60	.60	.61
.060:	.61	.60	.59	.59	.57	.56	.55	.53	.52	.51
.061:	.49	.48	.46	.45	.44	.43	.42	.42	.41	.41
.063:	.41	.42	.43	.44	.45	.46	.48	.49	.50	.51
.064:	.51	.52	.52	.52	.51	.51	.50	.50	.49	.48
.065:	.47	.46	.45	.44	.43	.42	.41	.40	.39	.38
.066:	.37	.36	.35	.33	.32	.30	.28	.26	.25	.23
.068:	.21	.20	.19	.18	.17	.17	.17	.18	.19	.19
.069:	.20	.21	.22	.23	.24	.25	.27	.28	.29	.30
.070:	.31	.33	.33	.34	.34	.34	.34	.32	.31	.29
.071:	.26	.24	.21	.18	.16	.13	.11	.09	.07	.06
.073:	.05	.04	.04	.04	.04	.05	.06	.07	.08	.09
.074:	.10	.12	.13	.14	.15	.16	.16	.15	.15	.13
.075:	.11	.09	.07	.04	.01	-.01	-.04	-.06	-.08	-.09
.076:	-.11	-.11	-.12	-.12	-.12	-.12	-.11	-.11	-.11	-.11
.078:	-.10	-.09	-.08	-.06	-.04	-.02	.00	.03	.05	.08
.079:	.10	.12	.14	.16	.17	.18	.19	.19	.19	.19
.080:	.18	.18	.17	.15	.14	.12	.11	.09	.07	.05
.081:	.04	.02	.01	.00	.00	-.00	.00	.01	.02	.03
.083:	.04	.05	.07	.08	.09	.10	.11	.12	.13	.14
.084:	.14	.15	.15	.15	.14	.14	.14	.13	.12	.11
.085:	.11	.10	.09	.08	.07	.06	.05	.05	.04	.04
.086:	.04	.05	.05	.06	.06	.07	.08	.08	.09	.10
.088:	.10	.10	.11	.11	.11	.12	.12	.13	.14	.14
.089:	.15	.16	.16	.16	.16	.16	.15	.14	.13	.11
.090:	.10	.08	.06	.04	.01	-.01	-.03	-.05	-.07	-.08
.091:	-.09	-.09	-.09	-.08	-.07	-.06	-.03	-.01	.01	.04
.093:	.06	.08	.09	.11	.12	.12	.13	.14	.15	.16
.094:	.18	.19	.21	.22	.23	.24	.25	.25	.24	.23
.095:	.22	.20	.19	.17	.16	.14	.13	.13	.12	.11
.096:	.11	.10	.09	.08	.07	.05	.04	.02	.00	-.02
.098:	-.03	-.05	-.07	-.08	-.09	-.10	-.11	-.12	-.12	-.13
.099:	-.13	-.14	-.15	-.15	-.16	-.17	-.17	-.18	-.19	-.20
.100:	-.20	-.21	-.23	-.24	-.25	-.27	-.29	-.31	-.33	-.35
.101:	-.38	-.40	-.42	-.44	-.46	-.47	-.48	-.49	-.49	-.50
.103:	-.50	-.50	-.50	-.50	-.50	-.50	-.51	-.51	-.51	-.51
.104:	-.50	-.50	-.49	-.48	-.46	-.44	-.42	-.40	-.37	-.34

Velocity, Y-Axis (Cont'd)

TIME :										
.105:	-.32	-.29	-.26	-.23	-.21	-.19	-.17	-.15	-.13	-.12
.106:	-.10	-.09	-.08	-.06	-.05	-.03	-.02	-.01	.01	.02
.108:	.03	.04	.05	.06	.07	.08	.10	.11	.13	.15
.109:	.18	.20	.22	.25	.27	.29	.30	.32	.34	.35
.110:	.36	.37	.38	.38	.39	.39	.39	.40	.40	.40
.111:	.41	.42	.43	.44	.45	.47	.48	.50	.52	.54
.113:	.55	.57	.59	.60	.62	.63	.64	.65	.66	.66
.114:	.66	.66	.66	.66	.65	.65	.64	.63	.62	.62
.115:	.61	.61	.60	.60	.59	.59	.59	.58	.58	.58
.116:	.58	.59	.59	.60	.62	.64	.66	.68	.70	.73
.118:	.75	.77	.79	.81	.83	.85	.86	.87	.87	.87
.119:	.87	.87	.86	.85	.84	.83	.82	.80	.79	.78
.120:	.78	.78	.79	.80	.81	.83	.85	.88	.90	.92
.121:	.94	.96	.97	.97	.97	.97	.96	.95	.94	.92
.123:	.91	.89	.88	.87	.86	.85	.84	.84	.83	.83
.124:	.84	.84	.84	.85	.85	.85	.84	.83	.82	.79
.125:	.77	.74	.70	.66	.62	.59	.55	.52	.50	.49
.126:	.48	.48	.49	.51	.53	.56	.59	.62	.65	.67
.128:	.70	.72	.74	.76	.78	.79	.80	.80	.80	.79
.129:	.78	.77	.75	.72	.70	.67	.64	.61	.59	.56
.130:	.54	.53	.52	.52	.52	.53	.54	.55	.57	.59
.131:	.61	.64	.66	.67	.69	.71	.72	.73	.73	.74
.133:	.74	.74	.74	.74	.74	.73	.72	.71	.70	.68
.134:	.67	.65	.63	.61	.60	.58	.57	.56	.55	.55
.135:	.54	.54	.54	.54	.54	.55	.55	.55	.55	.56
.136:	.56	.57	.57	.58	.59	.61	.62	.64	.65	.67
.138:	.69	.70	.72	.73	.74	.75	.76	.77	.77	.78
.139:	.78	.79	.79	.80	.81	.82	.83	.84	.85	.86
.140:	.87	.87	.88	.89	.91	.92	.93	.94	.95	.96
.141:	.97	.98	.99	1.00	1.00	1.00	1.01	1.01	1.00	1.00
.143:	.99	.98	.97	.96	.94	.93	.92	.91	.90	.89
.144:	.89	.88	.88	.88	.88	.88	.88	.88	.89	.89
.145:	.90	.91	.92	.93	.94	.95	.96	.97	.99	1.00
.146:	1.02	1.03	1.05	1.07	1.09	1.10	1.12	1.14	1.16	1.18
.148:	1.19	1.21	1.23	1.25	1.26	1.28	1.30	1.32	1.33	1.36
.149:	1.38	1.40	1.43	1.46	1.49	1.53	1.56	1.60	1.64	1.68
.150:	1.72	1.75	1.79	1.82	1.85	1.88	1.90	1.93	1.94	1.96
.151:	1.98	1.99	2.00	2.02	2.03	2.04	2.06	2.07	2.09	2.10
.153:	2.12	2.13	2.15	2.16	2.17	2.18	2.19	2.20	2.20	2.20
.154:	2.20	2.20	2.20	2.19	2.19	2.18	2.17	2.16	2.15	2.15
.155:	2.14	2.14	2.14	2.15	2.15	2.17	2.18	2.20	2.22	2.24
.156:	2.27	2.30	2.32	2.35	2.38	2.41	2.44	2.47	2.49	2.52
.158:	2.54	2.56	2.58	2.60	2.61	2.63	2.63	2.64	2.65	2.65
.159:	2.65	2.65	2.65	2.64	2.64	2.64	2.64	2.65	2.65	2.66
.160:	2.68	2.69	2.72	2.74	2.77	2.81	2.84	2.88	2.92	2.96
.161:	3.01	3.05	3.10	3.14	3.18	3.22	3.26	3.30	3.34	3.37
.163:	3.40	3.43	3.46	3.49	3.51	3.53	3.56	3.58	3.60	3.62
.164:	3.65	3.67	3.70	3.72	3.75	3.79	3.82	3.85	3.89	3.92
.165:	3.96	3.99	4.02	4.05	4.08	4.11	4.14	4.16	4.18	4.20

Velocity, Y-Axis (Cont'd)

TIME :										
.166:	4.21	4.22	4.23	4.24	4.24	4.24	4.23	4.23	4.22	4.21
.168:	4.20	4.19	4.18	4.16	4.15	4.14	4.13	4.12	4.11	4.11
.169:	4.10	4.10	4.10	4.10	4.10	4.11	4.12	4.13	4.14	4.15
.170:	4.17	4.18	4.20	4.21	4.23	4.24	4.25	4.26	4.27	4.27
.171:	4.27	4.27	4.26	4.25	4.24	4.23	4.21	4.19	4.18	4.16
.173:	4.15	4.13	4.12	4.11	4.10	4.10	4.10	4.10	4.10	4.11
.174:	4.12	4.12	4.13	4.15	4.16	4.17	4.19	4.20	4.21	4.22
.175:	4.24	4.25	4.26	4.26	4.27	4.27	4.27	4.27	4.27	4.26
.176:	4.26	4.25	4.23	4.22	4.20	4.18	4.15	4.12	4.08	4.05
.178:	4.01	3.96	3.92	3.88	3.84	3.80	3.77	3.74	3.72	3.70
.179:	3.70	3.70	3.71	3.73	3.76	3.80	3.84	3.89	3.94	4.00
.180:	4.06	4.11	4.16	4.21	4.26	4.30	4.34	4.37	4.39	4.40
.181:	4.42	4.42	4.42	4.41	4.40	4.38	4.36	4.34	4.32	4.29
.183:	4.27	4.25	4.23	4.21	4.20	4.19	4.18	4.17	4.17	4.17
.184:	4.17	4.17	4.17	4.18	4.19	4.20	4.22	4.24	4.26	4.28
.185:	4.30	4.33	4.36	4.40	4.43	4.47	4.51	4.55	4.59	4.64
.186:	4.68	4.72	4.77	4.80	4.84	4.87	4.90	4.92	4.94	4.95
.188:	4.96	4.97	4.97	4.97	4.96	4.96	4.95	4.95	4.94	4.94
.189:	4.94	4.93	4.93	4.93	4.93	4.93	4.94	4.94	4.94	4.95
.190:	4.95	4.96	4.97	4.98	4.99	5.00	5.01	5.03	5.05	5.06
.191:	5.08	5.10	5.13	5.15	5.17	5.19	5.21	5.23	5.24	5.25
.193:	5.26	5.26	5.25	5.25	5.24	5.22	5.21	5.19	5.18	5.17
.194:	5.16	5.15	5.15	5.15	5.16	5.17	5.19	5.21	5.24	5.27
.195:	5.30	5.34	5.37	5.40	5.43	5.45	5.47	5.48	5.48	5.48
.196:	5.47	5.46	5.44	5.42	5.40	5.37	5.34	5.31	5.29	5.26
.198:	5.24	5.22	5.21	5.20	5.20	5.20	5.21	5.22	5.23	5.26
.199:	5.28	5.31	5.34	5.37	5.40	5.44	5.47	5.49	5.51	5.53
.200:	5.54	5.55	5.55	5.55	5.55	5.54	5.53	5.52	5.50	5.49
.201:	5.48	5.46	5.46	5.45	5.45	5.45	5.45	5.46	5.48	5.49
.203:	5.51	5.53	5.55	5.58	5.60	5.63	5.66	5.68	5.71	5.73
.204:	5.76	5.78	5.81	5.83	5.86	5.88	5.90	5.93	5.95	5.98
.205:	6.01	6.03	6.06	6.09	6.11	6.14	6.17	6.19	6.22	6.24
.206:	6.26	6.28	6.29	6.30	6.31	6.31	6.31	6.31	6.31	6.30
.208:	6.29	6.28	6.27	6.26	6.25	6.24	6.23	6.22	6.20	6.19
.209:	6.18	6.16	6.15	6.13	6.12	6.10	6.09	6.07	6.06	6.04
.210:	6.03	6.03	6.02	6.02	6.02	6.02	6.03	6.03	6.04	6.05
.211:	6.06	6.07	6.08	6.09	6.10	6.10	6.10	6.11	6.10	6.10
.213:	6.09	6.09	6.08	6.06	6.05	6.03	6.01	6.00	5.98	5.96
.214:	5.94	5.92	5.91	5.89	5.87	5.85	5.83	5.81	5.79	5.77
.215:	5.76	5.74	5.72	5.70	5.69	5.68	5.67	5.66	5.66	5.65
.216:	5.66	5.66	5.67	5.68	5.70	5.72	5.74	5.77	5.80	5.83
.218:	5.87	5.90	5.94	5.98	6.02	6.06	6.10	6.13	6.16	6.19
.219:	6.20	6.21	6.20	6.19	6.17	6.14	6.11	6.07	6.03	5.99
.220:	5.96	5.93	5.91	5.90	5.90	5.91	5.93	5.95	5.98	6.01
.221:	6.05	6.08	6.10	6.12	6.13	6.13	6.13	6.11	6.09	6.06
.223:	6.04	6.00	5.97	5.94	5.91	5.88	5.86	5.83	5.81	5.79
.224:	5.77	5.76	5.75	5.74	5.74	5.75	5.76	5.77	5.79	5.81
.225:	5.83	5.85	5.87	5.89	5.90	5.91	5.92	5.92	5.91	5.90

Displacement, Y-Axis

FILE NAME B:F0806484.IN2

DELTA= .13 MSEC: 8000.0 S/SEC.

0. POINTS= 2860 END TIME= 357.50 MSEC.

TIME :										
.045:	-.00	-.0%	-.0%	-.0%	-.0%	-.0%	-.0%	-.0%	-.0%	-.0%
.046:	-.00	-.0%	-.0%	-.0%	-.0%	-.0%	-.0%	-.00	-.00	-.00
.048:	-.00	-.0%	-.0%	-.0%	.0%	.0%	.00	.00	.00	.00
.049:	.01	.01	.01	.01	.01	.01	.01	.01	.02	.02
.050:	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02
.051:	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02
.053:	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03
.054:	.03	.03	.04	.04	.04	.04	.04	.04	.04	.04
.055:	.04	.05	.05	.05	.05	.05	.05	.05	.05	.05
.056:	.05	.06	.06	.06	.06	.06	.06	.06	.06	.06
.058:	.06	.06	.06	.06	.06	.06	.06	.06	.06	.07
.059:	.07	.07	.07	.07	.07	.07	.07	.07	.07	.07
.060:	.07	.08	.08	.08	.08	.08	.08	.08	.08	.08
.061:	.08	.08	.08	.08	.09	.09	.09	.09	.09	.09
.063:	.09	.09	.09	.09	.09	.09	.09	.09	.09	.10
.064:	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10
.065:	.10	.10	.11	.11	.11	.11	.11	.11	.11	.11
.066:	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11
.068:	.11	.11	.11	.12	.12	.12	.12	.12	.12	.12
.069:	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12
.070:	.12	.12	.12	.12	.12	.12	.12	.12	.12	.13
.071:	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13
.073:	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13
.074:	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13
.075:	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13
.076:	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13
.078:	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13
.079:	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13
.080:	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13
.081:	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13
.083:	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13
.084:	.13	.13	.14	.14	.14	.14	.14	.14	.14	.14
.085:	.14	.14	.14	.14	.14	.14	.14	.14	.14	.14
.086:	.14	.14	.14	.14	.14	.14	.14	.14	.14	.14
.088:	.14	.14	.14	.14	.14	.14	.14	.14	.14	.14
.089:	.14	.14	.14	.14	.14	.14	.14	.14	.14	.14
.090:	.14	.14	.14	.14	.14	.14	.14	.14	.14	.14
.091:	.14	.14	.14	.14	.14	.14	.14	.14	.14	.14
.093:	.14	.14	.14	.14	.14	.14	.14	.14	.14	.14
.094:	.14	.14	.14	.14	.15	.15	.15	.15	.15	.15
.095:	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15
.096:	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15
.098:	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15
.099:	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15
.100:	.15	.15	.15	.15	.14	.14	.14	.14	.14	.14
.101:	.14	.14	.14	.14	.14	.14	.14	.14	.14	.14
.103:	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13
.104:	.13	.13	.13	.13	.12	.12	.12	.12	.12	.12

Displacement, Y-Axis (Cont'd)

TIME :										
.105:	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12
.106:	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12
.108:	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12
.109:	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12
.110:	.12	.12	.12	.13	.13	.13	.13	.13	.13	.13
.111:	.13	.13	.13	.13	.13	.13	.13	.13	.14	.14
.113:	.14	.14	.14	.14	.14	.14	.14	.14	.14	.15
.114:	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15
.115:	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16
.116:	.16	.17	.17	.17	.17	.17	.17	.17	.17	.17
.118:	.17	.18	.18	.18	.18	.18	.18	.18	.18	.19
.119:	.19	.19	.19	.19	.19	.19	.19	.20	.20	.20
.120:	.20	.20	.20	.20	.20	.21	.21	.21	.21	.21
.121:	.21	.21	.21	.22	.22	.22	.22	.22	.22	.23
.123:	.23	.23	.23	.23	.23	.23	.23	.24	.24	.24
.124:	.24	.24	.24	.24	.24	.25	.25	.25	.25	.25
.125:	.25	.25	.25	.25	.26	.26	.26	.26	.26	.26
.126:	.26	.26	.26	.26	.26	.26	.27	.27	.27	.27
.128:	.27	.27	.27	.27	.27	.27	.28	.28	.28	.28
.129:	.28	.28	.28	.28	.29	.29	.29	.29	.29	.29
.130:	.29	.29	.29	.29	.29	.29	.30	.30	.30	.30
.131:	.30	.30	.30	.30	.30	.30	.30	.31	.31	.31
.133:	.31	.31	.31	.31	.31	.31	.32	.32	.32	.32
.134:	.32	.32	.32	.32	.32	.32	.33	.33	.33	.33
.135:	.33	.33	.33	.33	.33	.33	.33	.33	.34	.34
.136:	.34	.34	.34	.34	.34	.34	.34	.34	.34	.35
.138:	.35	.35	.35	.35	.35	.35	.35	.35	.36	.36
.139:	.36	.36	.36	.36	.36	.36	.36	.37	.37	.37
.140:	.37	.37	.37	.37	.38	.38	.38	.38	.38	.38
.141:	.38	.39	.39	.39	.39	.39	.39	.39	.40	.40
.143:	.40	.40	.40	.40	.40	.41	.41	.41	.41	.41
.144:	.41	.41	.42	.42	.42	.42	.42	.42	.42	.42
.145:	.43	.43	.43	.43	.43	.43	.43	.44	.44	.44
.146:	.44	.44	.44	.45	.45	.45	.45	.45	.45	.46
.148:	.46	.46	.46	.46	.46	.47	.47	.47	.47	.47
.149:	.48	.48	.48	.48	.49	.49	.49	.49	.49	.50
.150:	.50	.50	.50	.51	.51	.51	.52	.52	.52	.52
.151:	.53	.53	.53	.54	.54	.54	.55	.55	.55	.56
.153:	.56	.56	.57	.57	.57	.57	.58	.58	.58	.59
.154:	.59	.59	.60	.60	.60	.61	.61	.61	.62	.62
.155:	.62	.63	.63	.63	.64	.64	.64	.65	.65	.65
.156:	.66	.66	.66	.67	.67	.67	.68	.68	.69	.69
.158:	.69	.70	.70	.70	.71	.71	.72	.72	.72	.73
.159:	.73	.74	.74	.74	.75	.75	.76	.76	.76	.77
.160:	.77	.78	.78	.78	.79	.79	.80	.80	.81	.81
.161:	.81	.82	.82	.83	.83	.84	.84	.85	.85	.86
.163:	.86	.87	.87	.88	.88	.89	.89	.90	.91	.91
.164:	.92	.92	.93	.93	.94	.94	.95	.96	.96	.97
.165:	.97	.98	.99	.99	1.00	1.00	1.01	1.02	1.02	1.03

Displacement, Y-Axis (Cont'd)

TIME :										
.166:	1.04	1.04	1.05	1.05	1.06	1.07	1.07	1.08	1.09	1.09
.168:	1.10	1.10	1.11	1.12	1.12	1.13	1.14	1.14	1.15	1.15
.169:	1.16	1.17	1.17	1.18	1.19	1.19	1.20	1.20	1.21	1.22
.170:	1.22	1.23	1.24	1.24	1.25	1.25	1.26	1.27	1.27	1.28
.171:	1.29	1.29	1.30	1.31	1.31	1.32	1.32	1.33	1.34	1.34
.173:	1.35	1.36	1.36	1.37	1.37	1.38	1.39	1.39	1.40	1.40
.174:	1.41	1.42	1.42	1.43	1.44	1.44	1.45	1.45	1.46	1.47
.175:	1.47	1.48	1.49	1.49	1.50	1.51	1.51	1.52	1.52	1.53
.176:	1.54	1.54	1.55	1.56	1.56	1.57	1.58	1.58	1.59	1.59
.178:	1.60	1.61	1.61	1.62	1.62	1.63	1.63	1.64	1.65	1.65
.179:	1.66	1.66	1.67	1.67	1.68	1.68	1.69	1.70	1.70	1.71
.180:	1.71	1.72	1.73	1.73	1.74	1.75	1.75	1.76	1.77	1.77
.181:	1.78	1.79	1.79	1.80	1.81	1.81	1.82	1.82	1.83	1.84
.183:	1.84	1.85	1.86	1.86	1.87	1.88	1.88	1.89	1.89	1.90
.184:	1.91	1.91	1.92	1.93	1.93	1.94	1.94	1.95	1.96	1.96
.185:	1.97	1.98	1.98	1.99	2.00	2.00	2.01	2.02	2.02	2.03
.186:	2.04	2.05	2.05	2.06	2.07	2.07	2.08	2.09	2.10	2.10
.188:	2.11	2.12	2.13	2.13	2.14	2.15	2.16	2.16	2.17	2.18
.189:	2.19	2.19	2.20	2.21	2.21	2.22	2.23	2.24	2.24	2.25
.190:	2.26	2.27	2.27	2.28	2.29	2.30	2.30	2.31	2.32	2.33
.191:	2.33	2.34	2.35	2.36	2.37	2.37	2.38	2.39	2.40	2.40
.193:	2.41	2.42	2.43	2.44	2.44	2.45	2.46	2.47	2.48	2.48
.194:	2.49	2.50	2.51	2.51	2.52	2.53	2.54	2.54	2.55	2.56
.195:	2.57	2.58	2.58	2.59	2.60	2.61	2.62	2.63	2.63	2.64
.196:	2.65	2.66	2.67	2.67	2.68	2.69	2.70	2.71	2.71	2.72
.198:	2.73	2.74	2.75	2.75	2.76	2.77	2.78	2.79	2.79	2.80
.199:	2.81	2.82	2.82	2.83	2.84	2.85	2.86	2.87	2.87	2.88
.200:	2.89	2.90	2.91	2.92	2.92	2.93	2.94	2.95	2.96	2.97
.201:	2.97	2.98	2.99	3.00	3.01	3.01	3.02	3.03	3.04	3.05
.203:	3.06	3.06	3.07	3.08	3.09	3.10	3.11	3.11	3.12	3.13
.204:	3.14	3.15	3.16	3.17	3.17	3.18	3.19	3.20	3.21	3.22
.205:	3.23	3.24	3.25	3.26	3.26	3.27	3.28	3.29	3.30	3.31
.206:	3.32	3.33	3.34	3.35	3.36	3.37	3.38	3.39	3.40	3.41
.208:	3.42	3.42	3.43	3.44	3.45	3.46	3.47	3.48	3.49	3.50
.209:	3.51	3.52	3.53	3.54	3.55	3.55	3.56	3.57	3.58	3.59
.210:	3.60	3.61	3.62	3.63	3.64	3.65	3.65	3.66	3.67	3.68
.211:	3.69	3.70	3.71	3.72	3.73	3.74	3.75	3.75	3.76	3.77
.213:	3.78	3.79	3.80	3.81	3.82	3.83	3.84	3.85	3.85	3.86
.214:	3.87	3.88	3.89	3.90	3.91	3.92	3.93	3.93	3.94	3.95
.215:	3.96	3.97	3.98	3.99	3.99	4.00	4.01	4.02	4.03	4.04
.216:	4.05	4.05	4.06	4.07	4.08	4.09	4.10	4.11	4.11	4.12
.218:	4.13	4.14	4.15	4.16	4.17	4.18	4.19	4.19	4.20	4.21
.219:	4.22	4.23	4.24	4.25	4.26	4.27	4.28	4.29	4.30	4.30
.220:	4.31	4.32	4.33	4.34	4.35	4.36	4.37	4.38	4.39	4.39
.221:	4.40	4.41	4.42	4.43	4.44	4.45	4.46	4.47	4.48	4.49
.223:	4.49	4.50	4.51	4.52	4.53	4.54	4.55	4.56	4.57	4.57
.224:	4.58	4.59	4.60	4.61	4.62	4.63	4.63	4.64	4.65	4.66
.225:	4.67	4.68	4.69	4.70	4.70	4.71	4.72	4.73	4.74	4.75