

REPORT No. FHWA/RD-83

IMPROVED PERFORMANCE OF
SMALL SIGN SUPPORTS

~~DOT 614~~
DOT 614



OCTOBER 1983

RIGID POLE IMPACT TEST NO. 5
1981 VW RABBIT

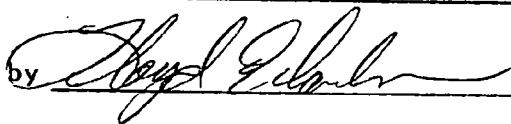
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Date 27 October 1983

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16. ABSTRACT - A 1981 VW Rabbit was impacted into a rigid instrumented pole to acquire force/deflection data to describe the vehicle front end crush characteristics. The impact velocity was 19.66 mph. The vehicle was instrumented with 11 accelerometers. Two Part 572 50 percentile male ATD's instrumented with three accelerometers in the head and chest, and a load cell in each femur were installed in the front seat. The impact force was measured with two load cells supporting the pole. All test data were digitized and a digital data tape was submitted to NHTSA. The test was photographed with four (4) high-speed cameras and one (1) documentary.			
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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) by Mobility Systems and Equipment Company (MSE) under contract DTFH61-80-C-00170. Phase I of the project involves a series of crash tests to determine the front end crush stiffness of light weight cars when impacting a rigid pole at a velocity of nominally 20 miles per hour (32 kilometers per hour). This report is for Phase I Rigid Pole Impact No. 5. The test was conducted on August 30, 1983 with a 1981 VW Rabbit as the test vehicle. Mr. Charles McDevitt of FHWA witnessed the test.

SECTION 2

SUMMARY OF TEST CONDITIONS

Rigid Pole Impact Test No. 5 was conducted on 30 August 1983. A 1981 VW Rabbit was impacted into a rigid instrumented pole. The impact location selected is considered to be the "soft spot" on the front of the vehicle. 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 dummies (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 3-point lap and shoulder belt system. The passenger ATD was unrestrained.

The test event was photographed with one real-time camera, three ground level high-speed cameras, and two overhead high-speed cameras. The higher overhead camera failed prior to impact. All other cameras functioned properly. The camera location data are presented in Table 2 and Figure 1.

Thirty-three channels of data were recorded on three FM tape recorders. 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 I Rigid Pole Impact Test No. 5 (Frontal Crush Stiffness)

Date: 08/30/83 Time: 3:50 pm

Test Article: 8 inch (0.2 m) diameter steel post - schedule 120

Rigidly mounted

Vehicle: 1981 Volkswagen Rabbit

Inertial mass: 1832 lbs. (832 kg) Test mass: 2162 lbs. (1002 kg)

Pre-Impact speed: 19.66 mph (31.46kph) Post-Impact speed: 0 (0)

Offset distance from vehicle centerline: -9 in. (-0.23 m)

Maximum crush: 17 3/8 in. (0.44 m) Rebound: 11 in. (0.28 m)

Damage TAD: FG4 CDC: 12FLEW6

Maximum deceleration (at c.g.) 17.8 g

Maximum 50 msec average deceleration (at c.g.) 12.8 g

Maximum 10 msec average deceleration (at c.g.) 16.4 g

Occupants:

Driver - Part 572 ATD, 3 point restraint

HIC: 152 Chest Acceleration (clipped): 22.5 g

Passenger - Part 572 ATD, unrestrained

HIC: 275 Chest Acceleration (clipped): 29.1 g

Number of Data Channels: 33

Number of High Speed Cameras: 4

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	16 mm	773 fps	.001 sec	HIMAC 135	77	368	55 1/2	Good
2	Left Front	28 mm	750 fps	.001 sec	HIMAC 143	3	324	33	Good
3	Right Side	20 mm	980 fps	.001 sec	HIMAC 138	12	257	54	Good
4	Documentary	Zoom	24 fps	None	ARIFLEX NR6837	-40	344	57	Good
5	Hood	13 mm	880 fps	None	PHOTO-SONICS 573	2	9	99 1/2	Good
6	Top	13 mm	--	--	PHOTO-SONICS 45	12	9	212 1/2	No Film

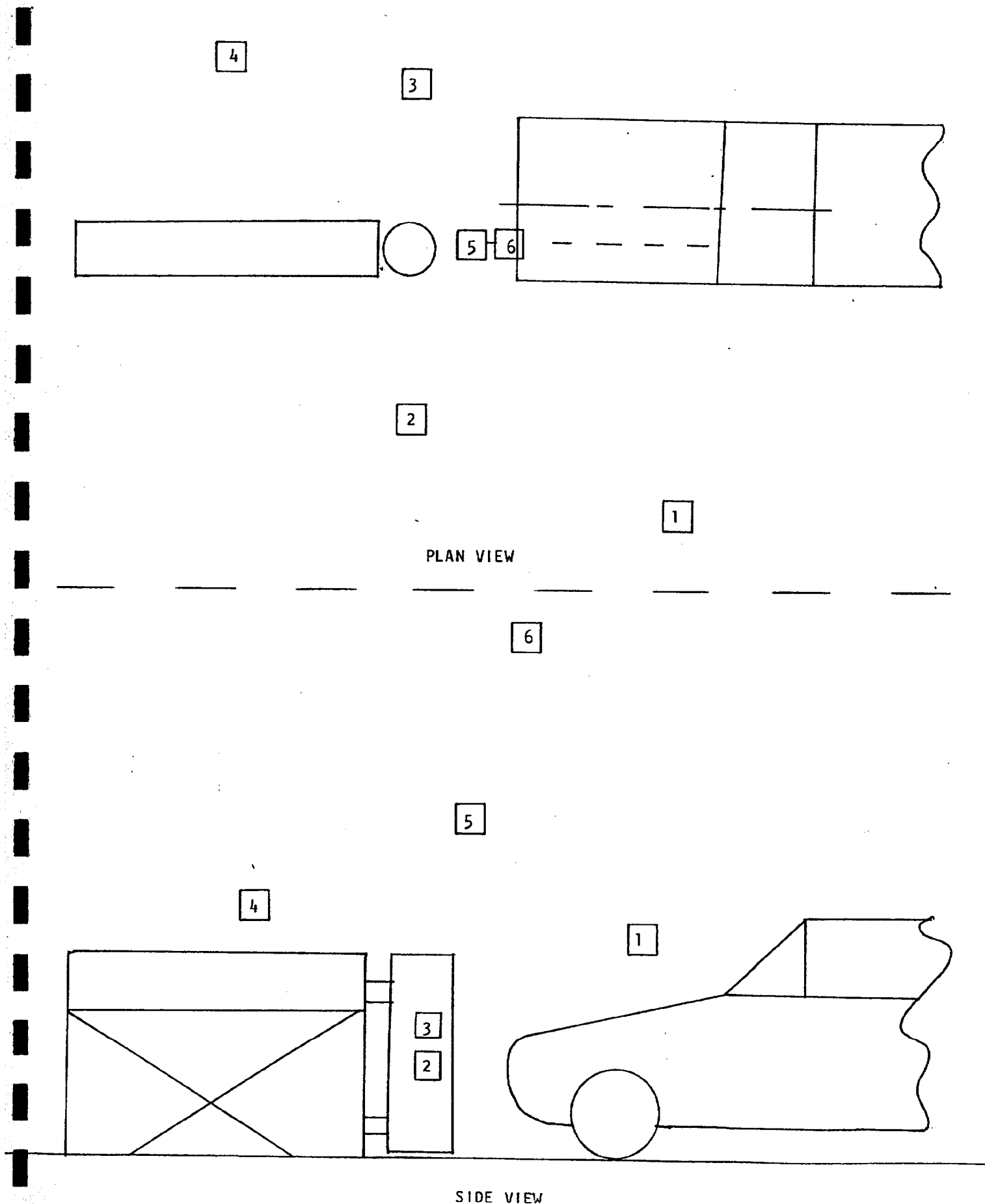


FIGURE 1 - CAMERA LOCATIONS

2.1 TEST ARTICLE

The test article is an 8 inch (.20 m) diameter, schedule 120 steel pipe filled with concrete (rigid pole). The rigid pole is attached through load cells to a load reaction frame which is welded/bolted to a large (8x8x5 ft. deep) steel reinforced concrete reaction mass that is buried flush to the asphalt surface of the test area. The pipe is supported with a flexure at the top, and the bottom is constrained by a steel channel such that it is free to move only in the direction parallel to the vehicle's direction of travel. Two 50,000 pound (223 kN) capacity load cells are mounted between the pole, and the reaction frame to measure the force applied to the pole during the impact event. Drawings of the test article are presented in Appendix C. No significant damage is done to the pole during tests of this type.

2.2 TEST VEHICLE

The test vehicle is a 1981 Volkswagen 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 reduce its weight to 1800 ± 50 pounds (818 ± 23 kg). The description of components removed to reduce weight is presented in Appendix D.

The rigid pole assembly was positioned so that the car would impact at the front end "soft spot". The "soft spot" for this VW Rabbit was determined by visual examination to be 9 inches (0.23 m) to the left (driver's side) of the vehicle centerline. This point is to the left of the engine, and the wide part of the transmission, and to the right of the battery.

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: 1981 Volkswagen Rabbit L
 Body Style: 4-Door Hatchback
 VIN: 1WFB0178BV103332 Build Date: 03/81
 Engine: 4 cylinder, 105 in³
 Transmission: 4-speed manual
 GVWR: 2,822 (1,257) lbs. (kg)
 GAWR: Front: 1,609 (717) Rear: 1,278 (569)
 Tire Size: P175/70R13 Load Range: B
 Tire Pressure: Front: 27 (186) Rear: 27 psi (Kpa) (186)
 Date Received: 08/12/83 Color: Light Blue

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

Left Front: 653 (291) Right Front: 678 (302)
 Left Rear: 341 (152) Right Rear: 357 (159)
 Total Front Mass: 1,331 (593) (65.6 % of total vehicle mass)
 Total Rear Mass: 698 (311) (34.4 % of total vehicle mass)
 Total Mass: 2,029 (904)

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

Left Front: 631 (287) Right Front: 659 (300)
 Left Rear: 265 (120) Right Rear: 277 (126)
 Total: 1,832 (833)

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

Left Front: 707 (321) Right Front: 732 (333)
 Left Rear: 364 (165) Right Rear: 359 (163)
 Total Front Mass: 1,439 (654) (66.6 % of total vehicle mass)
 Total Rear Mass: 723 (329) (33.4 % of total vehicle mass)
 Total Test Mass: 2,162 (983)

VEHICLE ATTITUDE: in. (m)

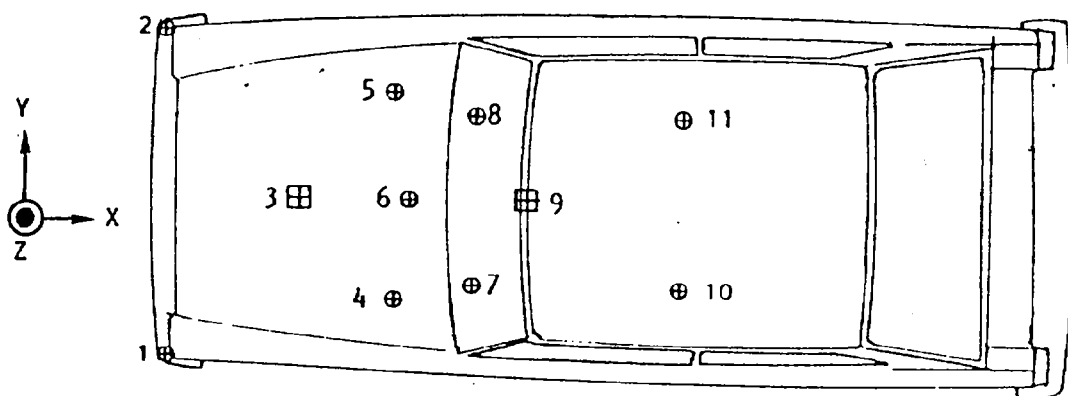
	<u>Delivered</u>	<u>Test</u>
LF	<u>24 1/2 (0.62)</u>	<u>23 11/16 (0.60)</u>
RF	<u>24 9/16 (0.62)</u>	<u>23 13/16 (0.60)</u>
LR	<u>24 1/2 (0.62)</u>	<u>24 9/16 (0.62)</u>
RR	<u>24 9/16 (0.62)</u>	<u>24 3/8 (0.62)</u>

TABLE 4

ACCELEROMETER LOCATIONS

Vehicle: 1981 VW RabbitTest Date: 08/30/83

No.	Location	X Distance From Front of Bumper		Y Distance From Centerline		Z Distance Above Ground	
		in.	(m)	in.	(m)	in.	(m)
1	Left Bumper	2 1/4	(0.06)	-24 5/8	(-0.62)	16 1/2	(0.42)
2	Right Bumper	2 1/4	(0.06)	24 1/2	(0.62)	16 3/4	(0.42)
3	Engine	20 1/2	(0.52)	12	(0.30)	24 3/4	(0.63)
4	Left Front Crossmember	43 5/8	(1.11)	-15 7/8	(-0.40)	7	(0.18)
5	Right Front Crossmember	45 3/4	(1.16)	16 1/4	(0.41)	6 7/8	(0.18)
6	Firewall	41 1/2	(1.05)	-8 3/4	(-0.22)	26 5/8	(0.68)
7	Left Front Floor	63 1/2	(1.61)	-12 3/4	(-0.32)	9 1/2	(0.24)
8	Right Front Floor	59 3/4	(1.52)	14 3/4	(0.37)	9 1/2	(0.24)
9	Vehicle c.g.	60 1/4	(1.53)	-1 1/4	(-0.03)	12 3/8	(0.31)
10	Left Rear Floor	96 1/8	(2.44)	-6 3/4	(-0.17)	8 1/2	(0.22)
11	Right Rear Floor	96 1/8	(2.44)	6 7/8	(0.17)	8 7/8	(0.23)



⊙ - Single Axis

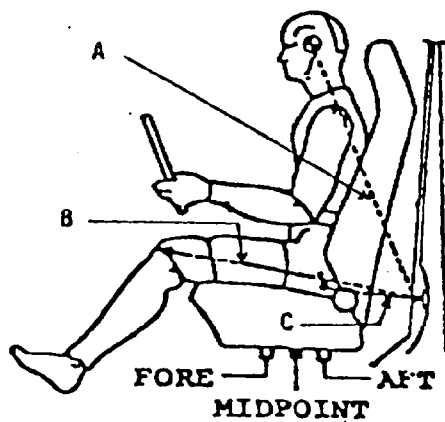
⊠ - Triaxial

2.3 ANTHROPOMORPHIC TEST DEVICES

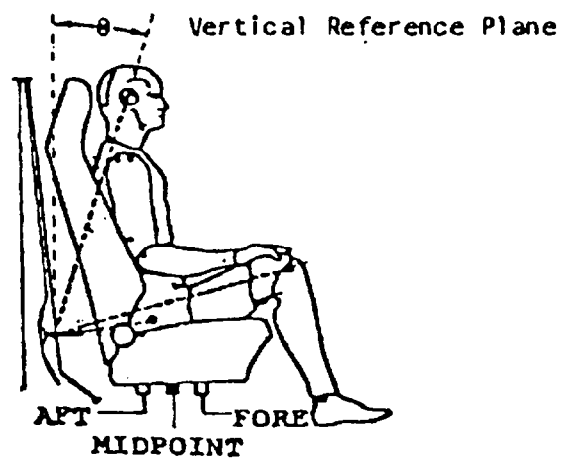
The positioning data for the two 50th percentile male ATD's in the front seats of the test vehicle is presented in Tables 5 and 6. The driver ATD was restrained with the 3-point lap and shoulder belt system. The passenger ATD was unrestrained. Each ATD had three accelerometers mounted on a triaxial block 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

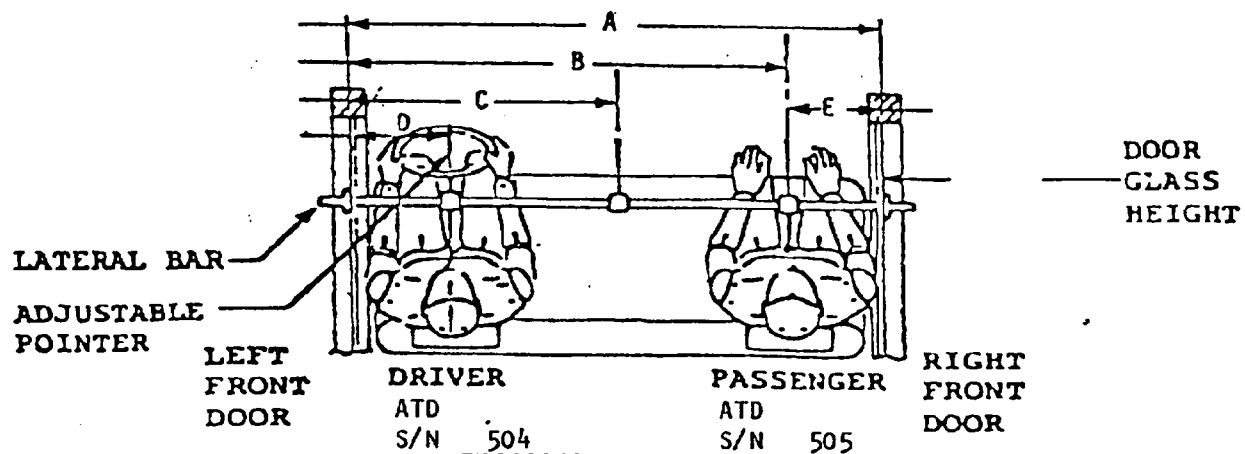
DRIVER ATD



PASSENGER ATD



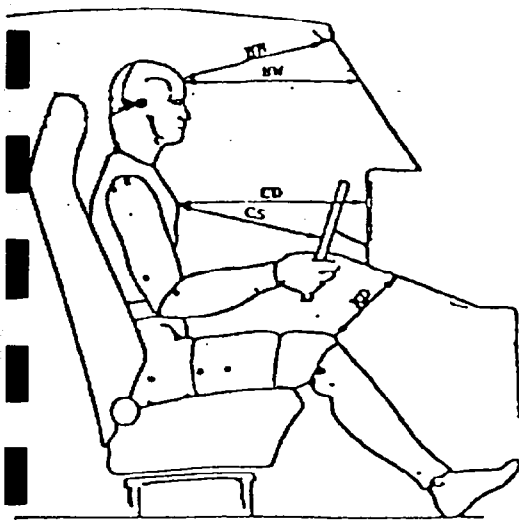
DIMENSION	IN.	(M)	θ°	DIMENSION	IN.	(M)	θ°
A	15 1/8	0.38	8	A	16 3/4	0.43	12
B	24	0.61	104	B	22 1/2	0.57	106
C	12 3/4	0.32	142	C	11 3/4	0.30	149
TORSO ANGLE = -12°				TORSO ANGLE = -14°			
SEAT BACK ANGLE = -15°				SEAT BACK ANGLE = -12°			
ALL ANGLES ARE RELATIVE TO THE VERTICAL PLANE.							



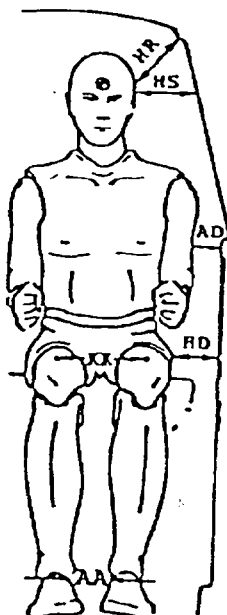
A =	48 3/8	(1.23)	in. (m)
B =	36 1/8	(0.92)	in. (m)
C =	24 1/8	(0.61)	in. (m)
D =	13 1/4	(0.34)	in. (m)
E =	12 1/4	(0.31)	in. (m)

TABLE 6

PART 572 ATD IN-VEHICLE POSITION



	DRIVER		PASSENGER	
	INCHES	(M)	INCHES	(M)
HH	15 3/8	(0.39)	15 1/8	(0.38)
HW	18 5/8	(0.47)	17 3/4	(0.45)
CD	20	(0.51)	19 1/8	(0.49)
CS	11 1/2	(0.29)	—	—
KD L	5 5/8	(0.14)	4 1/2	(0.11)
KD R	5 5/8	(0.14)	4 1/8	(0.10)



	DRIVER		PASSENGER	
	INCHES	(M)	INCHES	(M)
HR	6 1/8	(0.16)	7 3/4	(0.20)
HS	7 1/2	(0.19)	10 1/8	(0.26)
AD	3 1/4	(0.08)	4 3/8	(0.11)
HD	6 3/4	(0.17)	6 1/4	(0.16)
KK	13 3/8	(0.34)	12 1/8	(0.31)
AA	10 1/4	(0.26)	9	(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 19.66 mph (31.46 Km/hr). It impacted the pole within 1 inch (.03 m) of the selected impact point, 9 in. (0.27 m) left of the vehicle centerline. The bumper was pushed in to form a 'V' shape. The hood and the panel below the bumper sustained major deformations, with the latter contacting the starter motor. The left front quarter panel was pushed back so that it interfered with opening the left front door. Damage (crush) measurements for the vehicle are presented in Table 7. A summary of the accelerometer data is presented in Table 8.

The driver ATD did not appear to contact anything in the car. The passenger ATD continued forward after vehicle impact, hitting the windshield with his head and cracking it. A summary of data from the ATD transducers is presented in Table 9. Plots of all the ATD data are included in Appendix B. Additional occupant response data for the ATD's is presented in Table 10.

The maximum forces on the pole were 11,330 pounds (50,521 N) on the upper load cell, and 16,655 pounds (74,266 N) on the lower load cell. The sum of the forces vs time is shown in Figure 2. Maximum dynamic crush of the test vehicle as determined from film analysis was 17.8 inches (0.45 m), and occurred 85 msec after initial contact. The residual crush from film analysis was 15.6 inches (0.40 m). A plot of force vs displacement is shown in Figure 3. Plots of the pole forces and crush distances vs time are included in Appendix B. The values determined from film analysis are a measurement of the intrusion distance of the rigid pole beyond the frontmost point of the vehicle. These values are different than the crush values reported in Table 7 which are measurements of the bumper's rearward deformation.

A 10 msec. moving average was calculated for the accelerations measured at the vehicle c.g.

A fifty msec. moving average of these same data channels filtered to SAE J211 (b) class 60 were calculated. A summary of the average data is presented in Table 11. The maximum values of the averages, and the times of occurrence, are shown in Figure 4-9. Listings of these moving averages are included in Appendix E.

The predicted unrestrained occupant kinematic data is presented in Table 12. (This data is presented for reference only since the rigid pole is certainly not intended to satisfy any safety criteria, e.g. Table 6 and 8 of NCHRP Report 230.) For the VW Rabbit vehicle the distance that the unrestrained occupant (passenger ATD) was free to travel (see Table 6) was:

x direction = $19 \frac{1}{8}$ inches

y direction = $4 \frac{3}{8}$ inches

As the data shows, the A_y and V_y are noncritical since the occupant moves less than 4.1 inches. The free body displacement in the longitudinal direction (19.13 in.) is achieved at 115 msec. The corresponding velocity is 31.74 ft/sec. The maximum acceleration is 1.02 g which is well below the 20 g value published in NCHRP Report 230, page 30.

TABLE 7 VEHICLE CRUSH DATA

Maximum crush of 17 3/8 in. (0.44 m) occurred 9 in. (0.23 m)
to the Left of the centerline.

Vehicle Rebound: 11 in. (0.28 m)
(measured 420 in. (10.67 m) from impact)

Vehicle Speed:

Trap No. 1: 19.66 mph (31.46 Kph)

Trap No. 2: 19.66 mph (31.46 Kph)

DAMAGE DIMENSIONS, in. (m):

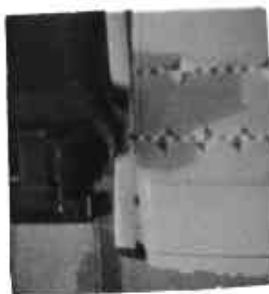
	<u>Pre-Impact</u>	<u>Post-Impact</u>	<u>Change</u>
	<u>in. (m)</u>	<u>in. (m)</u>	<u>in. (m)</u>
Left Side C ₁	<u>147 (3.73)</u>	<u>143 13/16 (3.66)</u>	<u>- 3 1/16 (0.08)</u>
C ₂	<u>147 3/4 (3.75)</u>	<u>135 12/16 (3.45)</u>	<u>-11 15/16 (0.30)</u>
C ₃	<u>148 1/4 (3.77)</u>	<u>133 3/16 (3.38)</u>	<u>-15 1/16 (0.38)</u>
C ₄	<u>148 1/4 (3.77)</u>	<u>138 7/16 (3.52)</u>	<u>- 9 3/16 (0.23)</u>
C ₅	<u>147 3/4 (3.75)</u>	<u>144 1/4 (3.66)</u>	<u>- 3 1/2 (0.09)</u>
Right Side C ₆	<u>147 (3.73)</u>	<u>149 11/16 (3.80)</u>	<u>+ 2 11/16 (0.07)</u>

Width of Contact: 56 in. (1.42 m)

TABLE 7 (Cont'd.) - SEQUENTIAL PHOTOGRAPHS OF VEHICLE CRUSH



Initial Contact
0.000 sec.



Bumper Hits Car
0.007 sec.



Intermediate Crush
0.028 sec.



Maximum Crush
0.085 sec.



Separation
0.167 sec.

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	143.2	6	82.8	10
Right Bumper	X	54.9	5	17.2	2
Engine	X	26.8	74	6.8	62
Engine	Y	27.3	37	14.4	42
Engine	Z	10.5	38	8.1	55
Engine	Res.	--	--	37.3	37
L.F. Crossmember	X	17.6	94	2.4	168
R.F. Crossmember	X	17.1	96	2.4	169
Firewall	X	16.6	57	5.1	19
L.F. Floor	X	18.0	94	1.5	133
R.F. Floor	X	17.1	96	2.0	168
Vehicle c.g.	X	17.3	96	1.3	136
	Y	5.4	19	4.3	95
	Z	3.9	102	3.2	12
	Res.	--	--	17.8	97
Vehicle c.g. (50 ms average)	X	12.8	101	NEVER	POSITIVE
	Y	1.5	60	NEVER	POSITIVE
L.R. Floor	X	16.0	95	2.4	170
R.R. Floor	X	19.4	96	1.8	173
(SAE CLASS 180 FILTER)					
Vehicle c.g. (10 ms average)	X	16.4	136	1.3	204
	Y	4.5	55	3.4	134

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	8.8	300	17.5	135	8.6	128	60.4	167
Lateral	2.1	234	3.6	155	34.5	128	5.6	155
Vertical	28.2	111	0.5	34	51.6	126	8.4	128
Resultant	29.1	111	—	—	61.8	167	—	—
HIC	152 BTWN 86 AND 160 MSEC				275 BTWN 126 AND 173 MSEC			
Chest Acceleration Longitudinal	5.9	295	22.1	104	4.3	193	28.1	161
Lateral	2.5	82	5.4	104	2.6	172	3.5	154
Vertical	6.6	73	2.7	119	14.0	132	1.1	200
Resultant (max)	22.9	104	—	—	29.6	161	—	—
Resultant (clip)	22.5	104	—	—	29.1	161	—	—
	Peak lb	(N)	Time (msec)		Peak lb	(N)	Time (msec)	
Femur Loads Left	161	716	61		663	2950	106	
Femur Loads Right	82	365	59		440	1958	148	
Vehicle Impact Speed mph (Kph): 19.66 (31.46)								
* Longitudinal: Forward Lateral: Rightward Vertical: Downward				**Longitudinal: Rearward Lateral: Leftward Vertical: Upward				

TABLE 10 OCCUPANT RESPONSE DATA

OCCUPANT RESPONSE COMPARISON
TO FMVSS REQUIREMENTS

08/30/83

HIC

VEHICLE	OCCUPANT	HIC	T1	T2	T2-T1	%COMP. MARG.
1981 VW RABBIT	DRIVER	151.76	86.38	159.63	73.25	.15
1981 VW RABBIT	PASSENGER	275.20	125.63	173.25	47.63	.28

* VALUES GREATER THAN 1 REPRESENT NON-COMPLIANCE

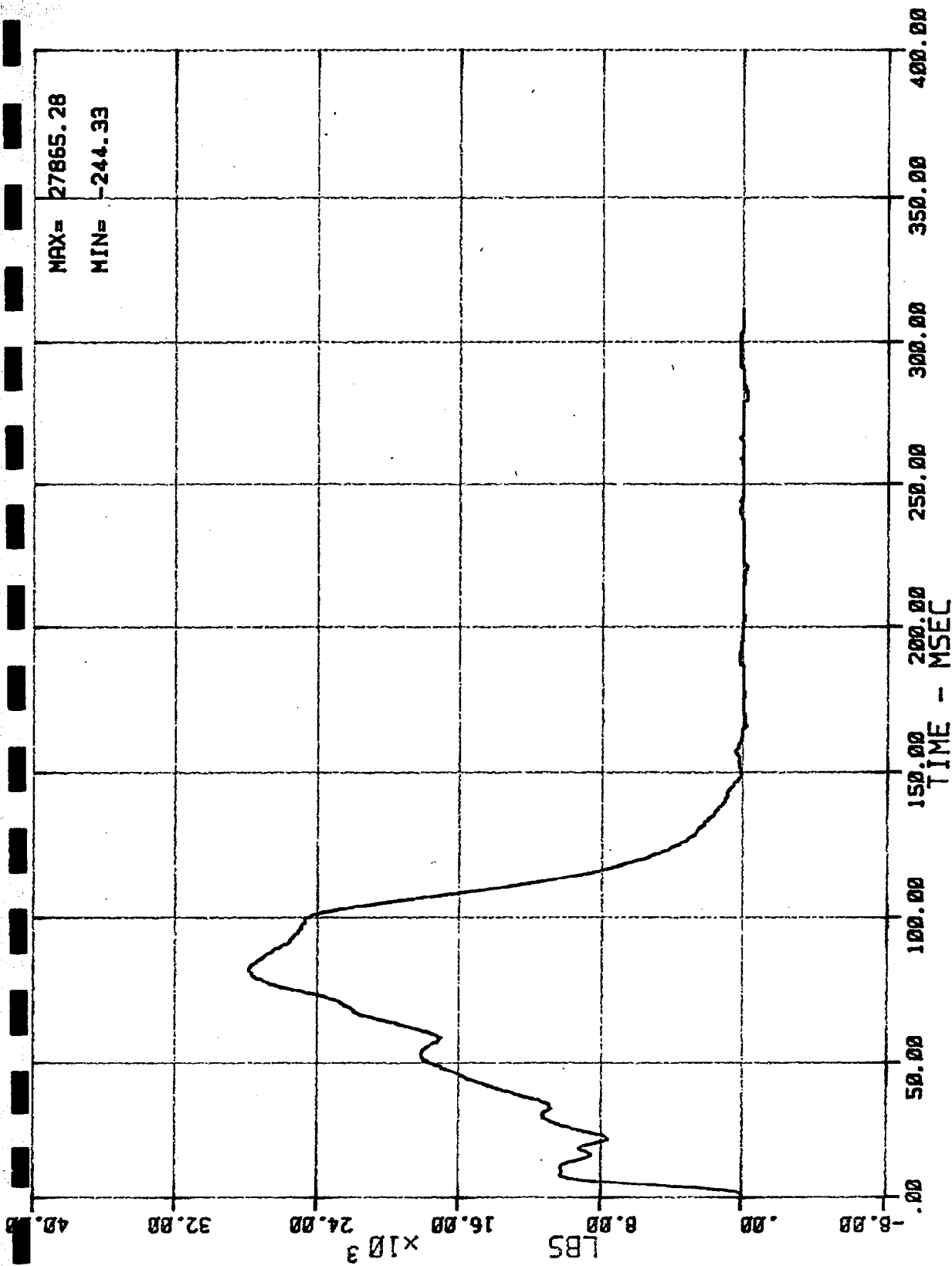
OCCUPANT RESPONSE COMPARISON
TO FMVSS REQUIREMENTS

08/30/83

CHEST 3 MSEC CLIPPED PEAK

VEHICLE		REQUIREMENT	RESPONSE	% COMP. MARG.
1981 VW RABBIT	DRIVER	60.00	22.52	.38
1981 VW RABBIT	PASSENGER	60.00	29.08	.48

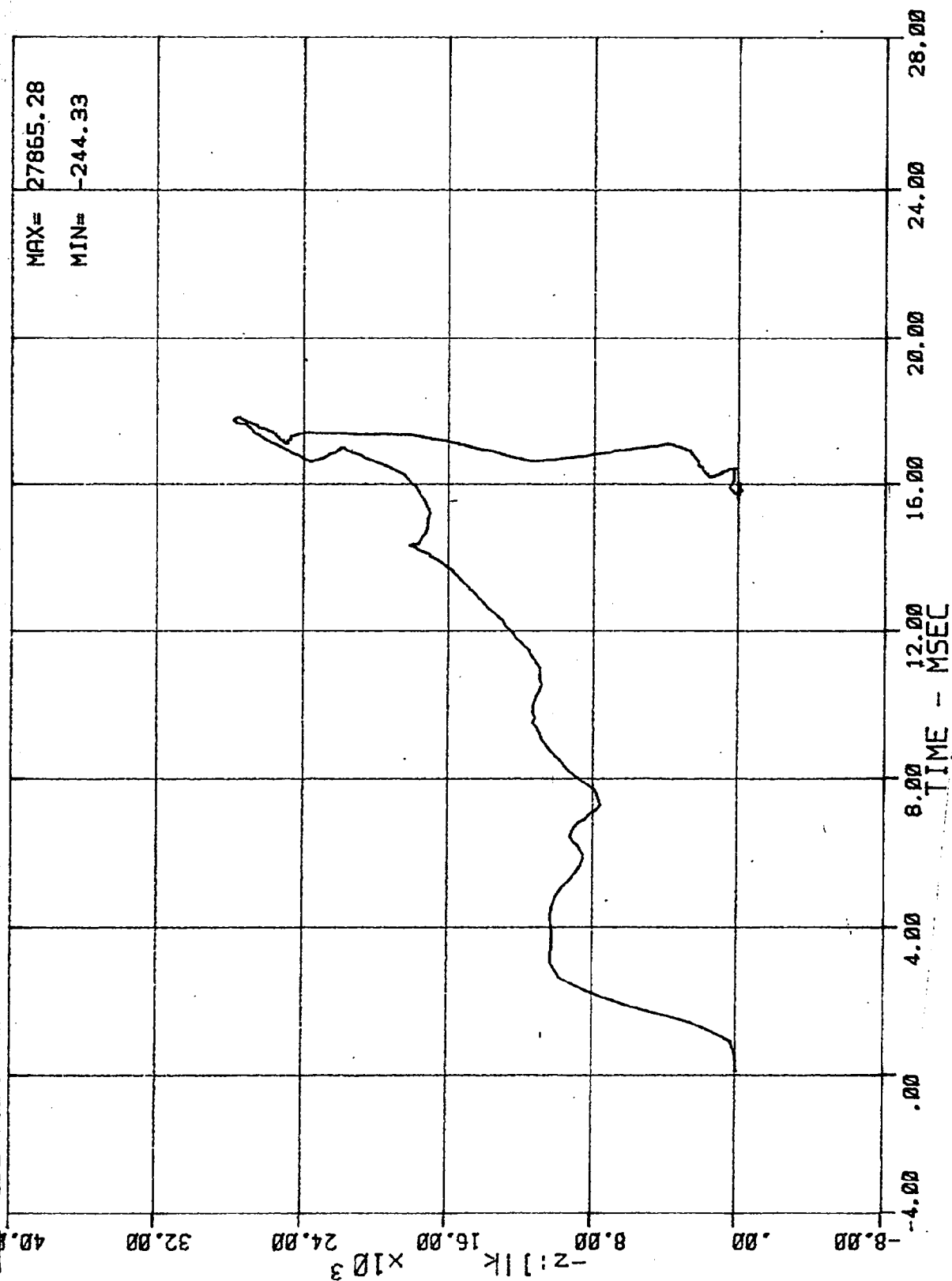
* ABS(VALUES) GREATER THAN 1 REPRESENT NON-COMPLIANCE



SUM OF THE BARRIER LOAD CELL FORCES
MSE F08013 1981 VW RABBIT

08/30/83

FIGURE 2 - POLE FORCE (SUM) VS TIME



POLE FORCE VS VEHICLE CRUSH
MSE F08013 1981 VW RABBIT

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FIGURE 3 - POLE FORCE (SUM) vs VEHICLE CRUSH

TABLE 11 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	-12.83	55.75 - 105.75
X	10	-16.44	87.50 - 97.50
Y	50	- 1.52	15.25 - 65.25
Y	10	- 4.45	10.625- 20.625
Z	50	- 1.30	68.50 - 118.50
Z	10	- 3.59	97.625- 107.625

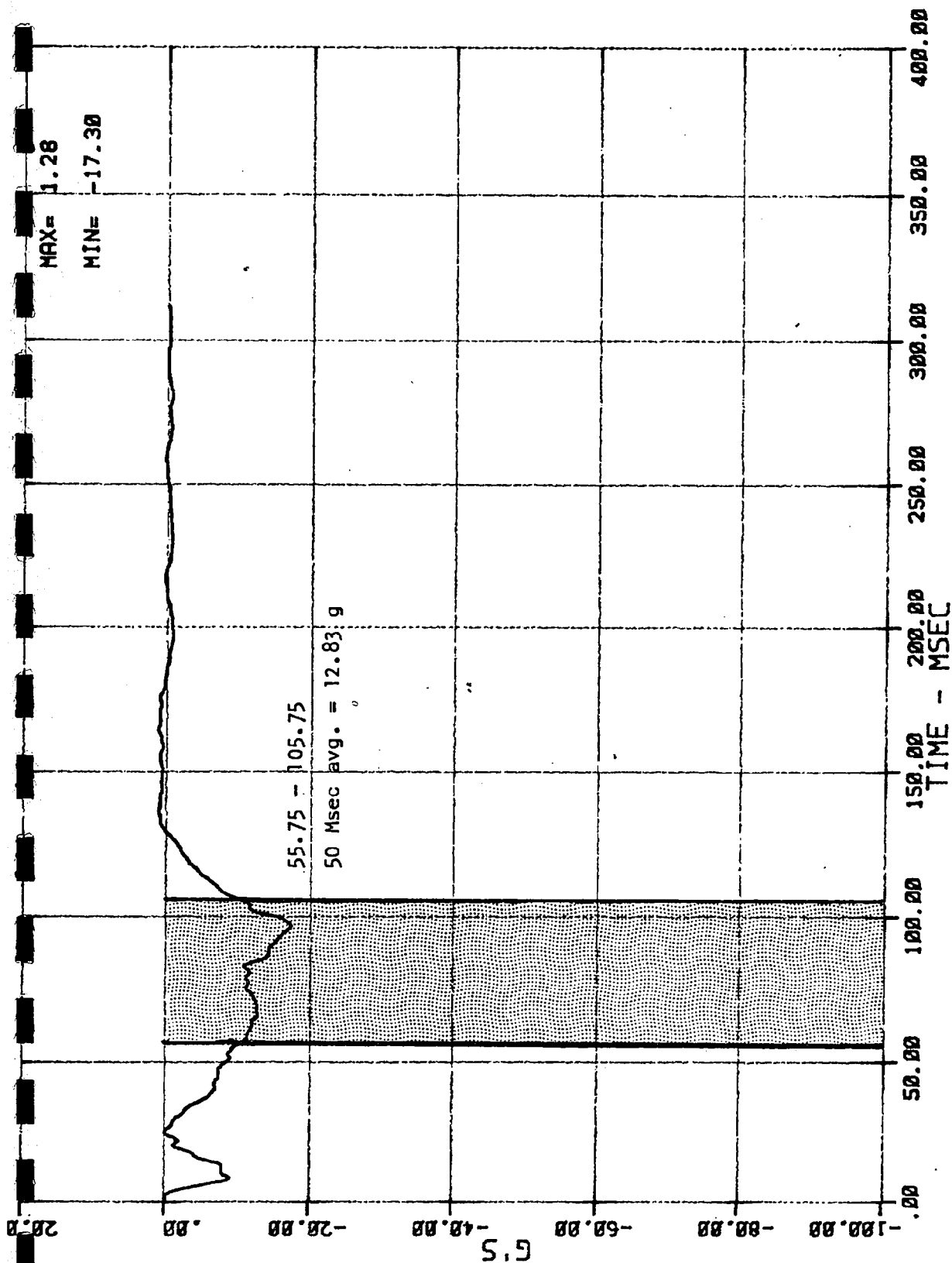
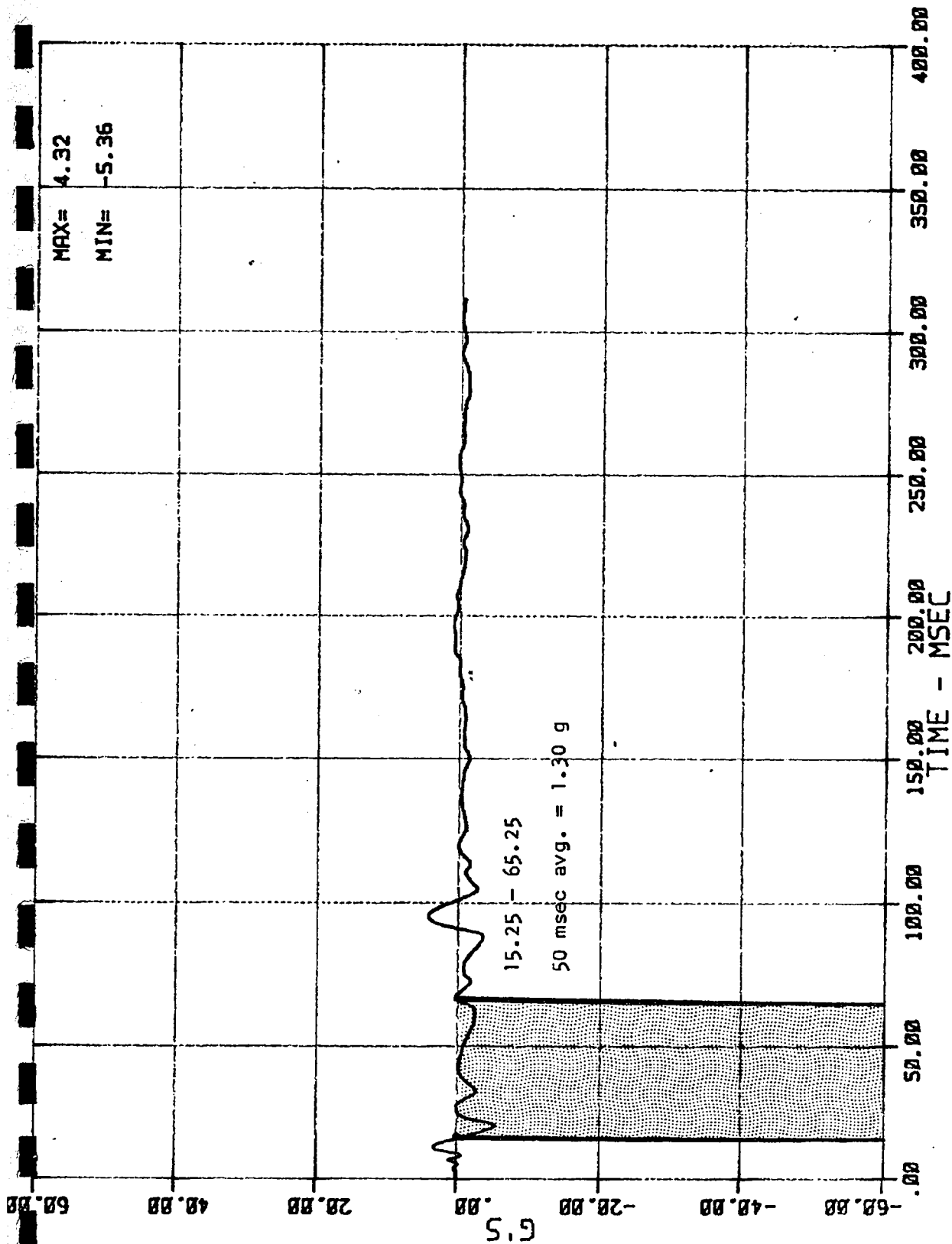
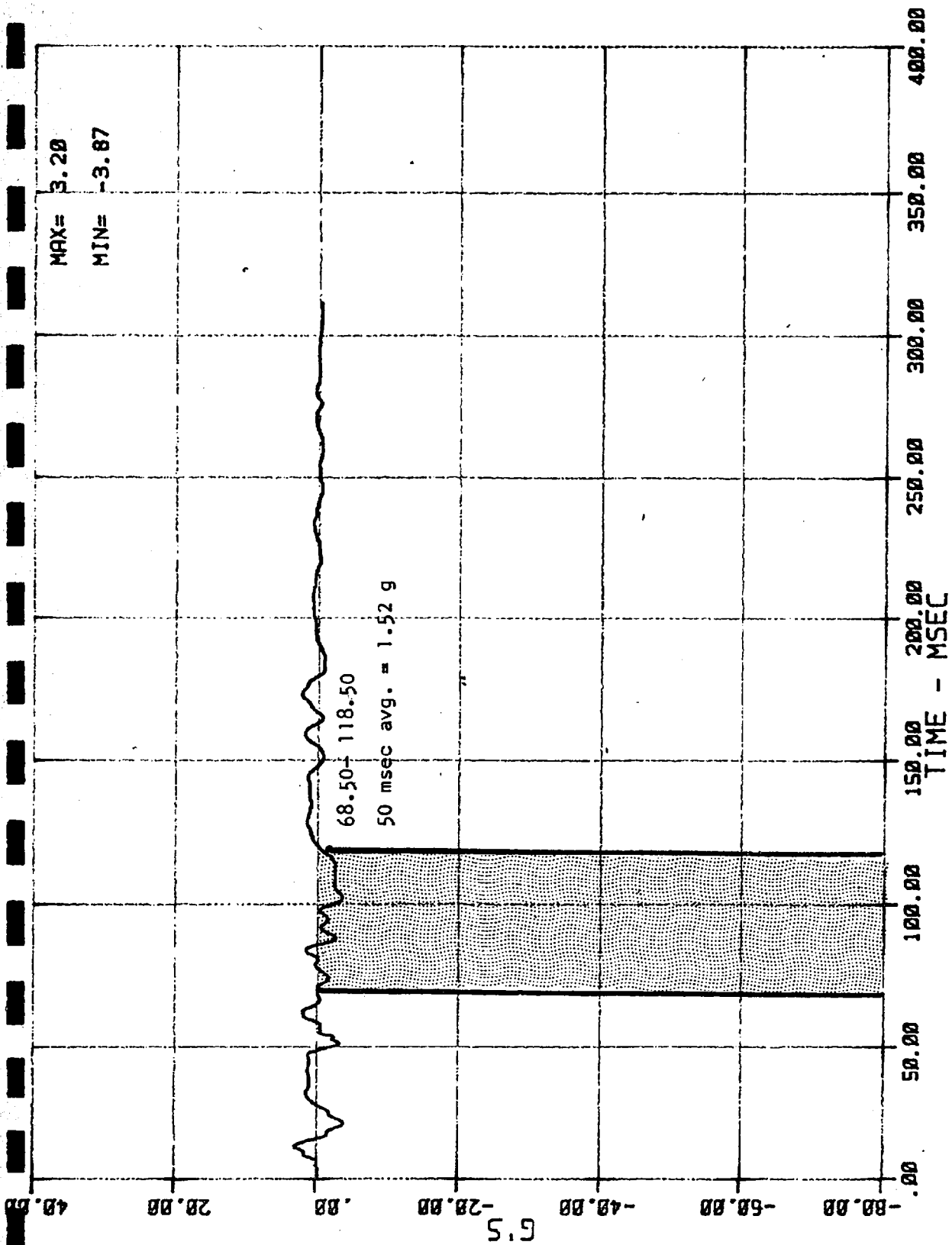


FIGURE 4 - TIME OF MAXIMUM 50 MSEC AVERAGE — X AXIS



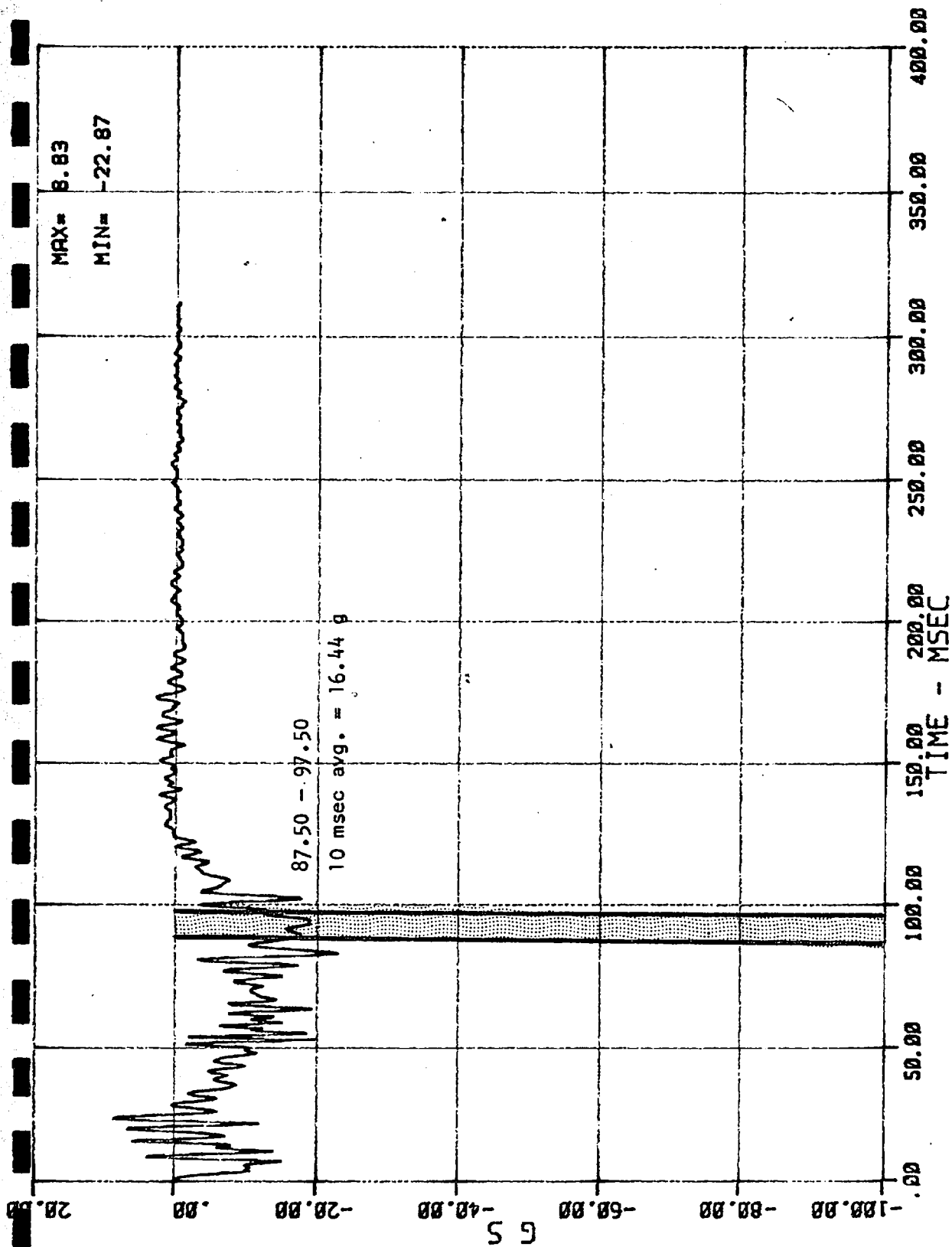
24 AC 01 N VCG Y (VEHICLE CG ACCEL. -- Y AXIS) CLASS 60 FILTER
MSE F08013 1981 VW RABBIT 08/30/83

FIGURE 5 - TIME OF MAXIMUM 50 MSEC AVERAGE -- Y AXIS



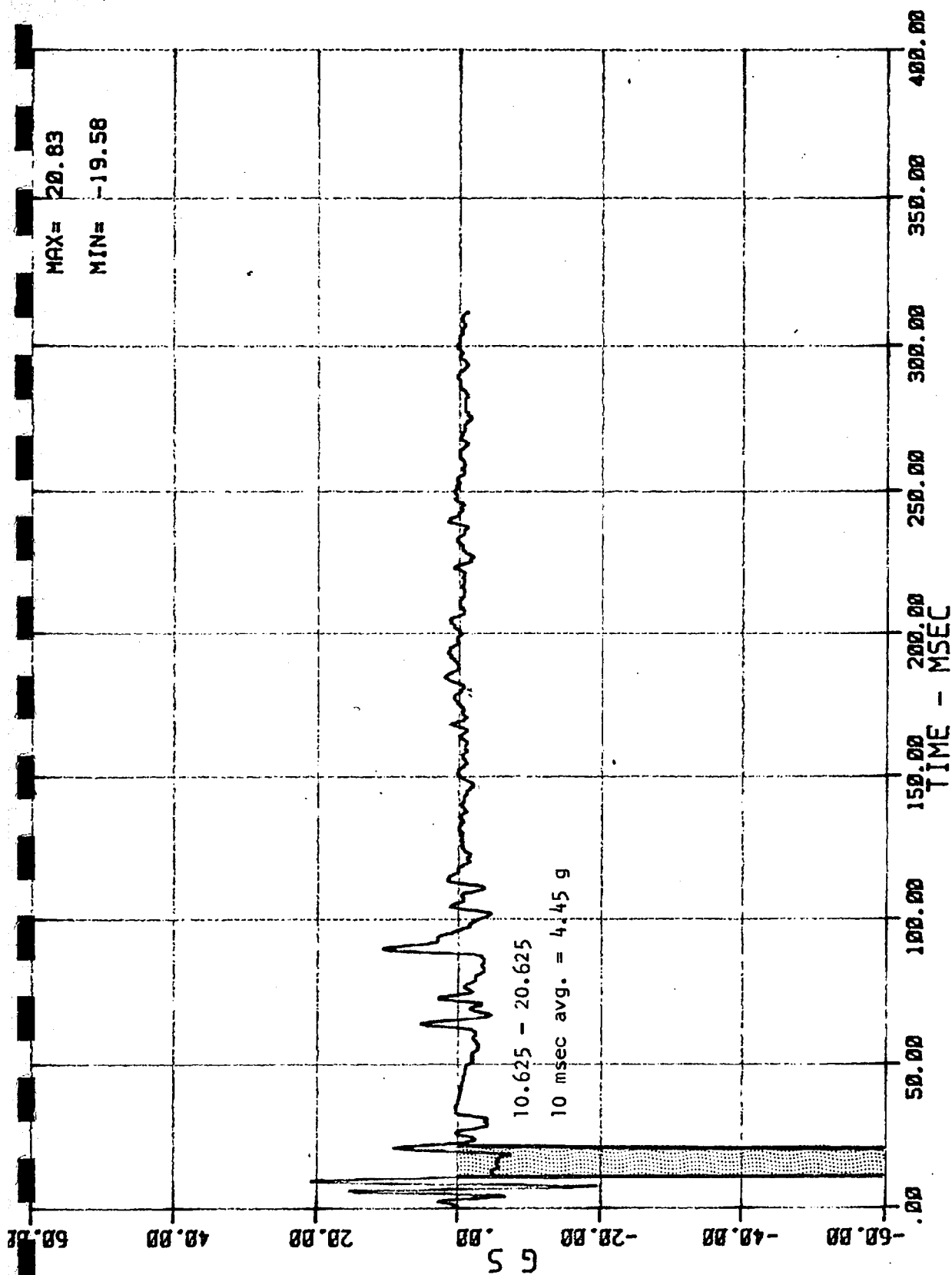
25 AC 01 N VCG Z (VEHICLE CG ACCEL. -- Z AXIS) CLASS 60 FILTER
MSE F00013 1981 VW RABBIT 08/30/83

FIGURE 6 - TIME OF MAXIMUM 50 MSEC AVERAGE -- Z AXIS



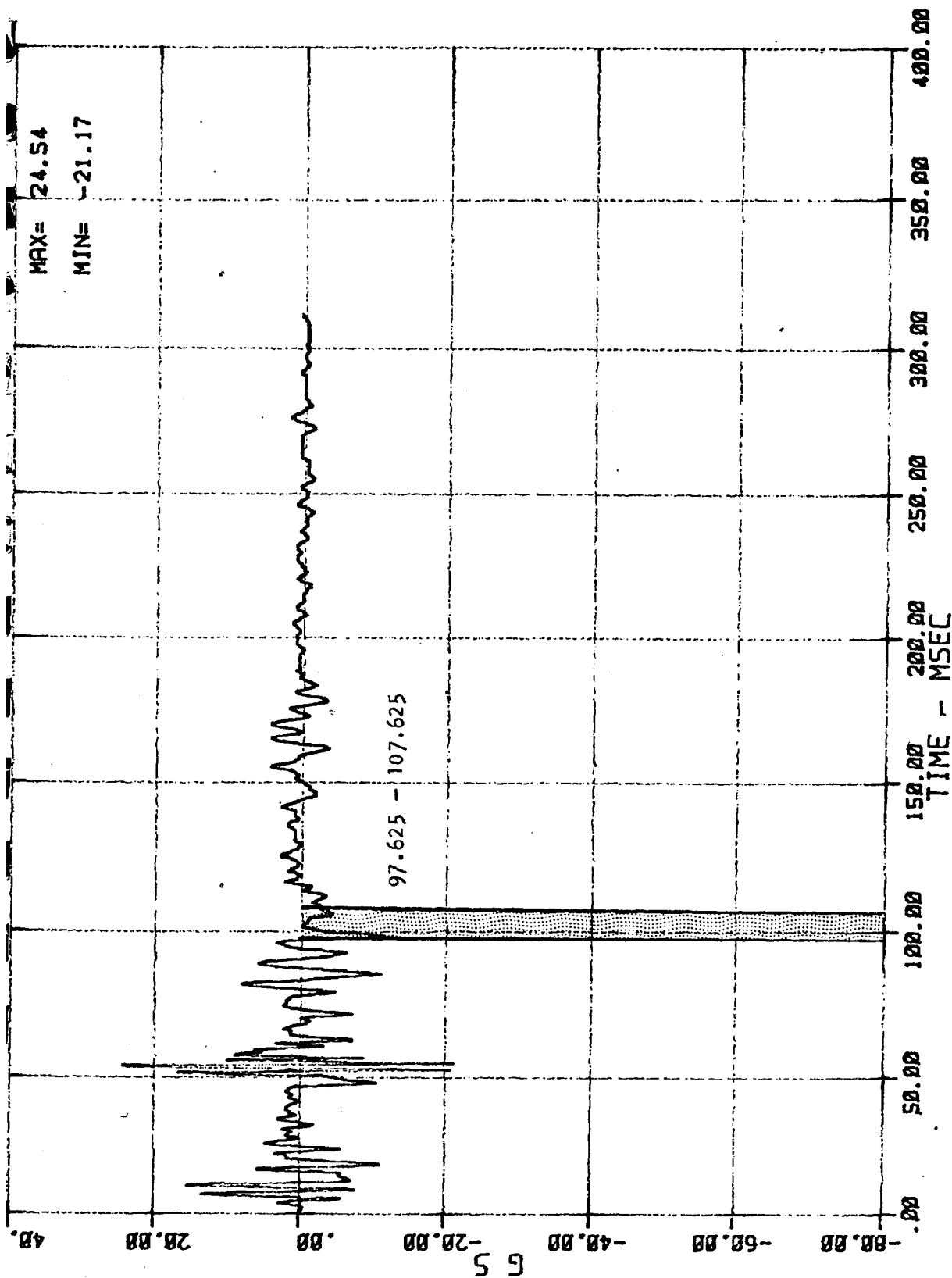
23 AC 01 N VCG X (VEHICLE CG ACCEL. --- X AXIS) CLASS 180 FILTER
MSE F08013 1981 VV RABBIT 08/30/83

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



24 AC 01 N VCG Y (VEHICLE CG ACCEL.-- Y AXIS) CLASS 180 FILTER
MSE F08013 1981 VW RABBIT 08/30/83

FIGURE 8 - TIME OF MAXIMUM 10 MSEC AVERAGE — Y AXIS



25 AC 01 N VCG Z (VEHICLE CG ACCEL. --Z AXIS) CLASS 180 FILTER

MSE F08013 1981 VW RABBIT

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FIGURE 9 - TIME OF MAXIMUM 10 MSEC AVERAGE -- Z AXIS

TABLE 12 PREDICTED UNRESTRAINED OCCUPANT KINEMATICS

Time (msec)	Accel. (g's)		Vel. (fps)		Disp. (in.)	
	Long.	Lat.	Long.	Lat.	Long.	Lat.
0	- 6.08	1.39	0.00	0.00	0.00	0.00
5	- 7.12	0.98	0.70	-0.12	0.01	0.00
10	- 3.32	-3.69	1.95	-0.49	0.10	0.01
15	- 0.42	-1.77	2.95	0.19	0.26	0.04
20	- 1.59	0.21	3.01	-0.74	0.44	0.02
25	- 3.65	-1.78	3.10	-0.37	0.64	0.00
30	- 5.95	-0.82	3.54	-0.68	0.84	-0.03
35	- 7.29	-0.26	4.29	-0.94	1.08	-0.08
40	- 7.94	-0.79	5.46	-0.94	1.37	-0.14
45	- 8.66	-1.53	6.63	-1.03	1.73	-0.20
50	-10.73	-2.32	8.02	-1.19	2.17	-0.26
55	-12.85	-1.11	9.43	-1.52	2.69	-0.35
60	-12.37	-0.93	11.48	-1.94	3.32	-0.45
65	-11.15	-1.31	13.57	-1.87	4.07	-0.57
70	-11.36	-1.05	15.45	-2.24	4.94	-0.69
75	-12.90	-2.47	17.15	-2.30	5.92	-0.83
80	-13.83	-2.08	19.12	-2.57	7.01	-0.98
85	-15.66	2.17	21.31	-3.10	8.21	-1.15
90	-15.45	2.31	23.57	-3.22	9.56	-1.35
95	-11.70	-1.60	26.35	-2.39	11.06	-1.51
100	- 8.07	-1.49	28.52	-2.50	12.71	-1.65
105	- 5.13	-0.84	30.08	-2.90	14.47	-1.82
110	- 3.25	-0.62	31.11	-2.98	16.30	-1.99
115	- 1.79	-0.68	31.74	-3.18	18.19	-2.18
120	- 0.01	-0.91	32.15	-3.18	20.11	-2.37
125	0.98	-0.37	32.30	-3.40	22.04	-2.57
130	1.01	-0.42	32.15	-3.47	23.98	-2.78
135	0.76	-0.70	31.94	-3.52	25.90	-2.99
140	0.52	-1.18	31.82	-3.60	27.52	-3.20
145	0.88	-0.90	31.74	-3.74	29.73	-3.42
150	→1.02	-0.54	31.66	-3.98	31.63	-3.65

-1 ft/sec = 0.30 m/sec

-1 in = 0.025 m

APPENDIX A

PHOTOGRAPHIC COVERAGE

APPENDIX A

Small Sign Support Test, Phase I, Rigid Pole Impact Test No. 5

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

For Reference:

- Figure A1 - Full Left Side View - Pretest
- Figure A2 - Left Front 3/4 View - Pretest
- Figure A3 - Impact Location Overhead View - Pretest
- Figure A4 - Driver ATD Position - Posttest
- Figure A5 - Passenger ATD Position - Posttest
- Figure A6 - Left Front 3/4 View - Posttest
- Figure A7 - Full Left Side View - Posttest
- Figure A8 - Impact Location Overhead View - Posttest
- Figure A9 - Front View - Posttest

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

Pretest:

- Full Left Side View
- Full Front View
- Left Rear 3/4 View
- Bumper and Pole, Side View
- Bumper and Pole, Top View
- Driver ATD
- Passenger ATD

Posttest:

- Full Left Side View
- Half Left Side View
- Front Left 3/4 View
- Rear View
- Front End, Top View
- Front View
- Driver ATD
- Passenger ATD

Two movie film prints of the high-speed and documentary films have been submitted to FHWA under separate cover as part of this report.

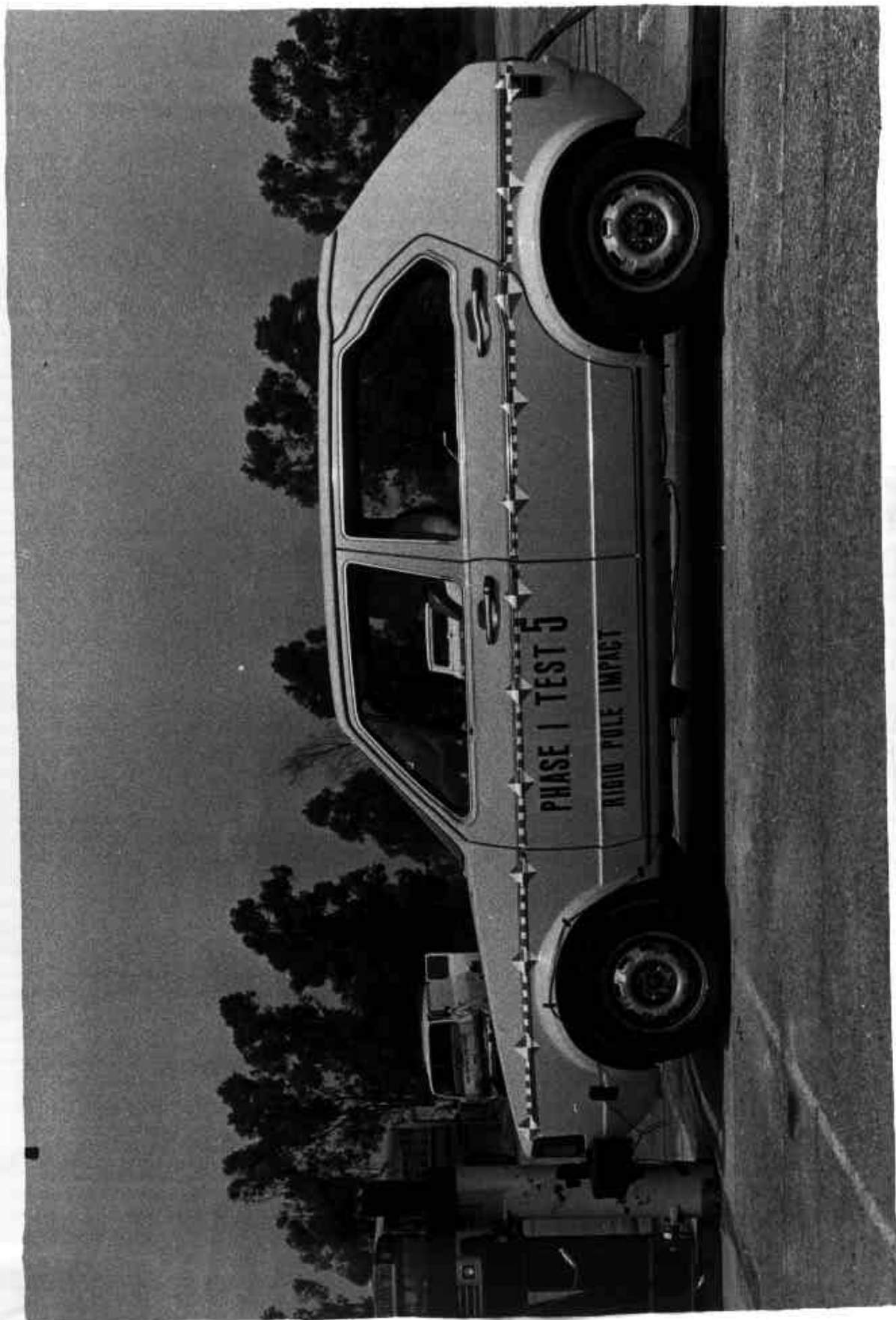


FIGURE A-1 FULL LEFT SIDE VIEW - PRETEST

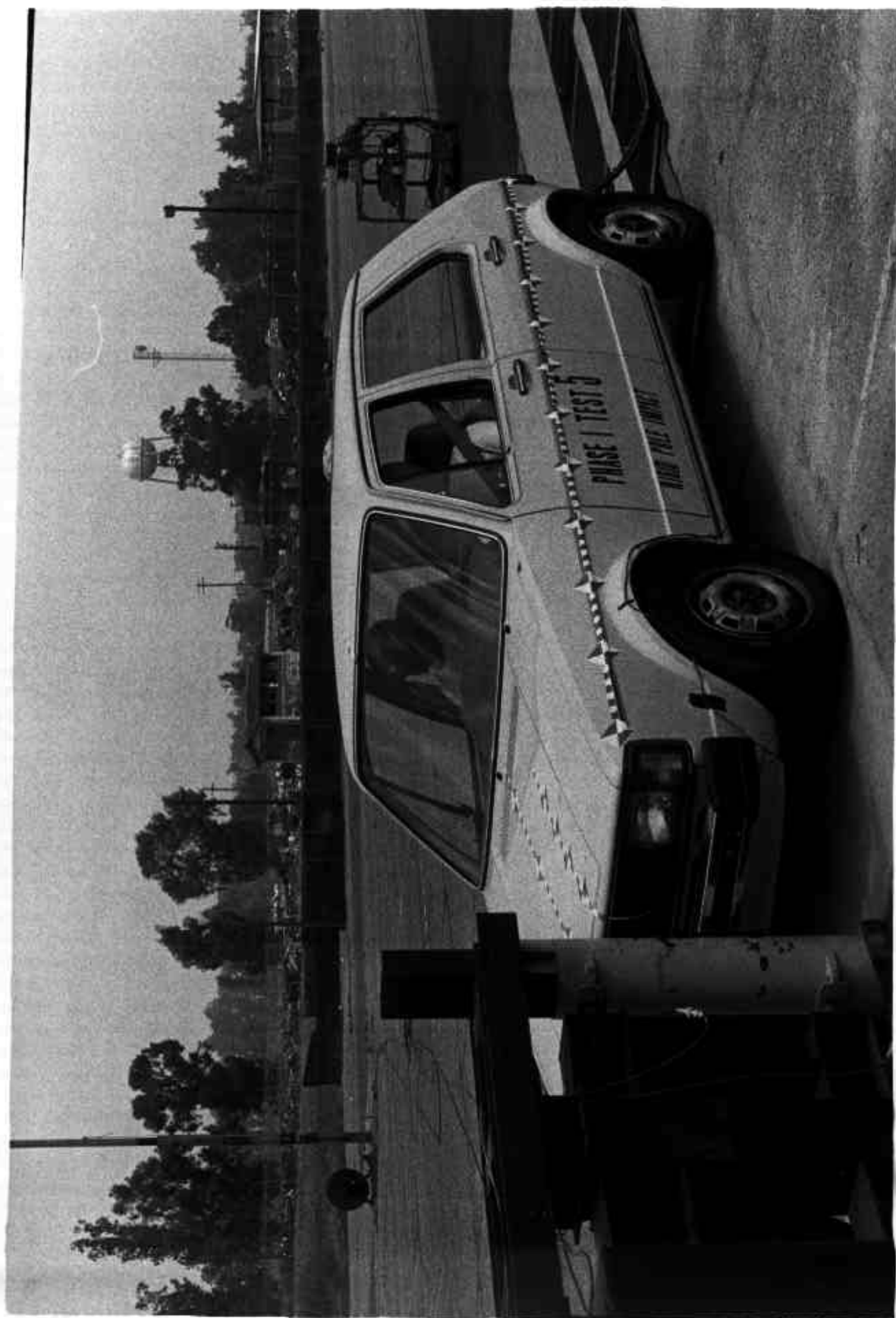


FIGURE A-2 LEFT FRONT 3/4 VIEW - PRETEST

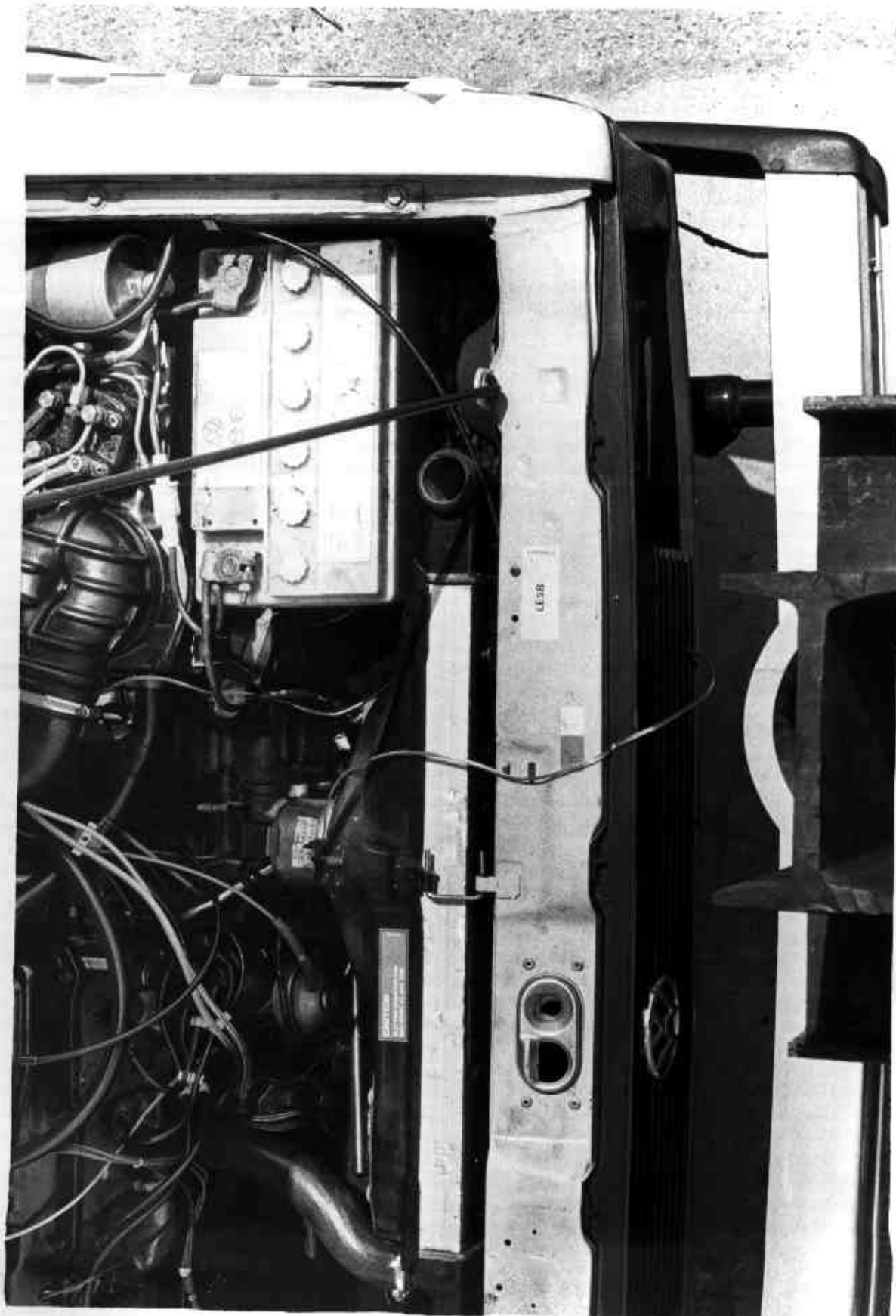


FIGURE A-3 IMPACT LOCATION OVERHEAD VIEW - PRETEST



FIGURE A-4 DRIVER ATD POSITION - POSTTEST



FIGURE A-5 PASSENGER ATD POSITION - POSTTEST

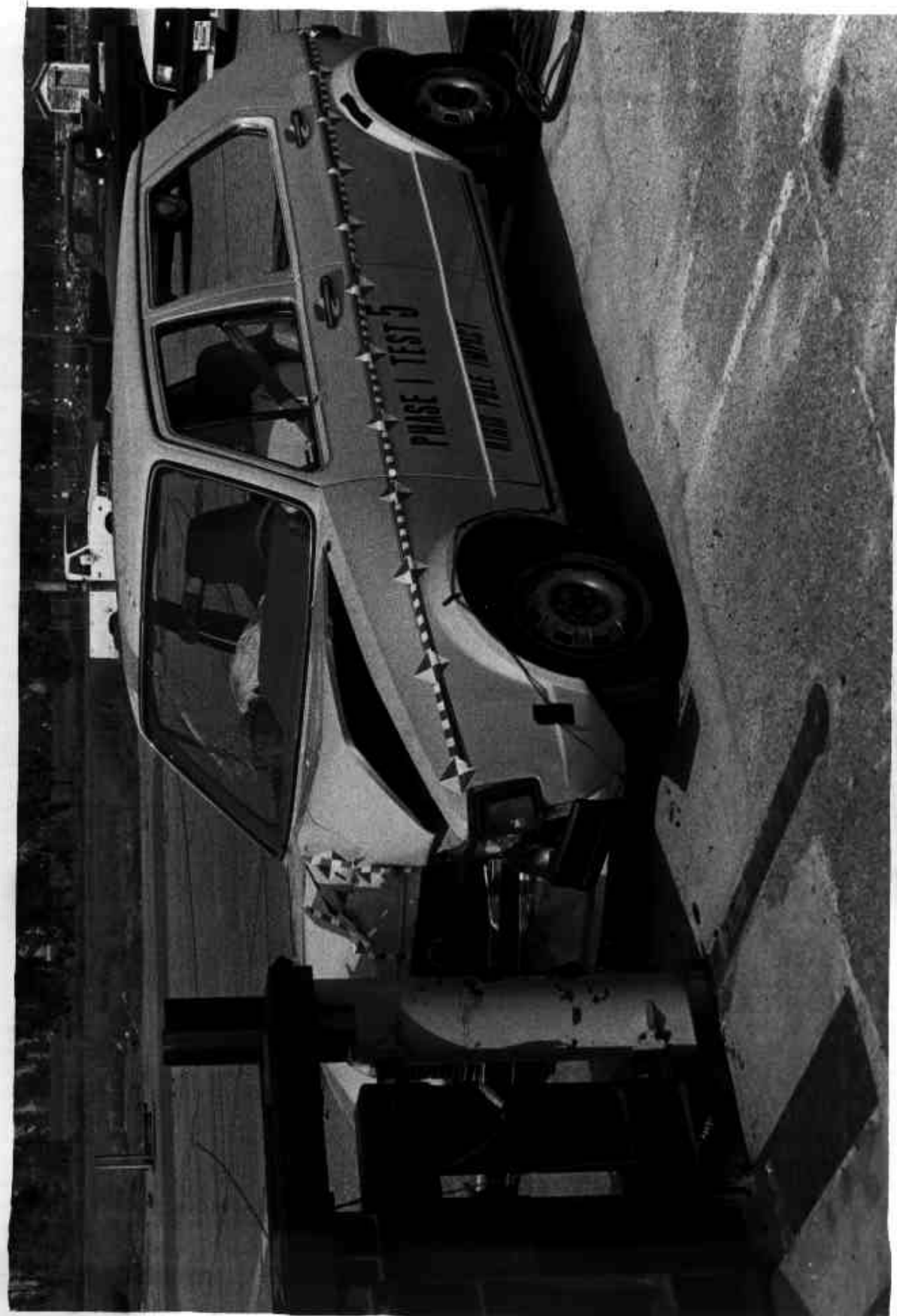


FIGURE A-6 LEFT FRONT 3/4 VIEW - POSTTEST

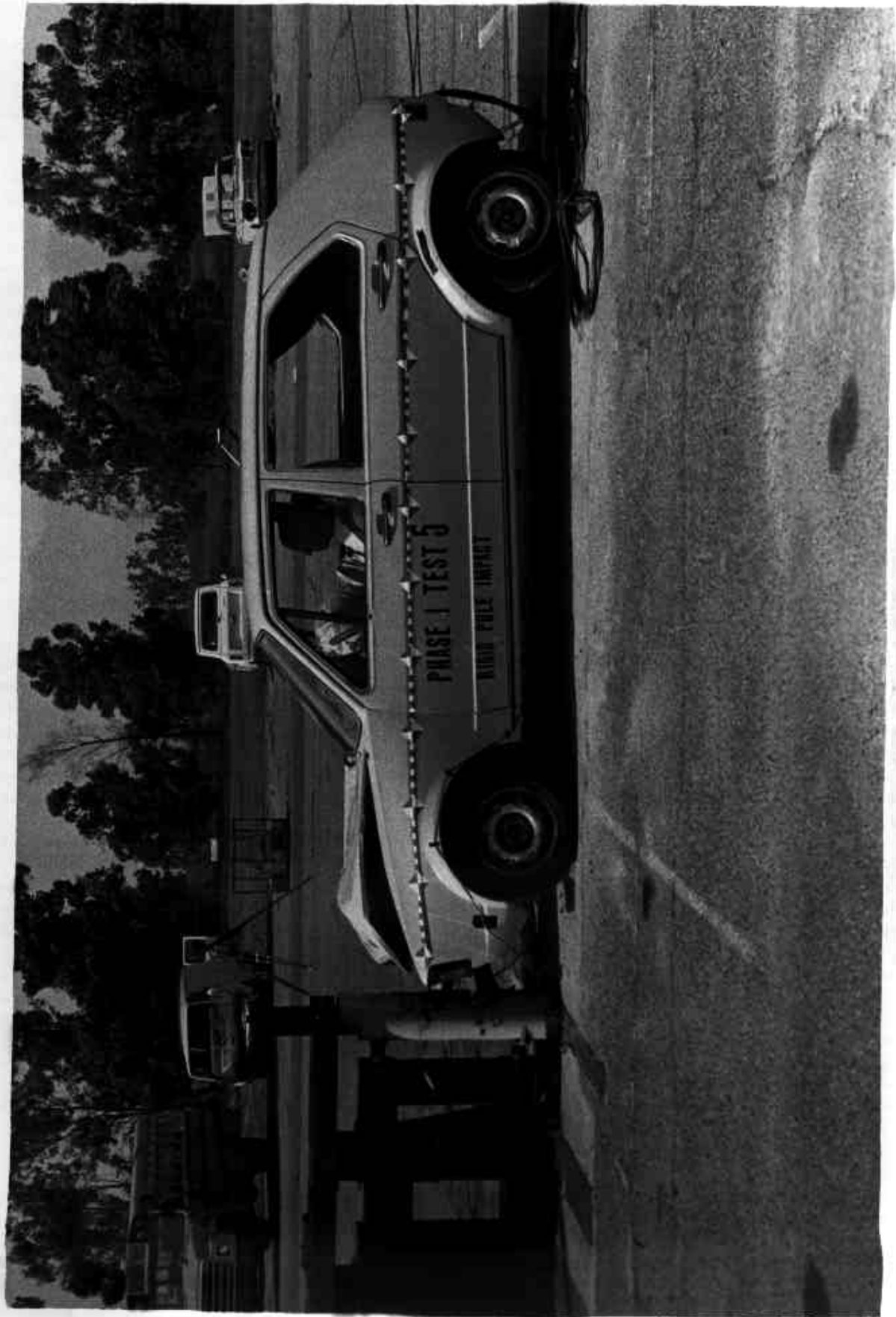


FIGURE A-7 FULL LEFT SIDE VIEW - POSTTEST

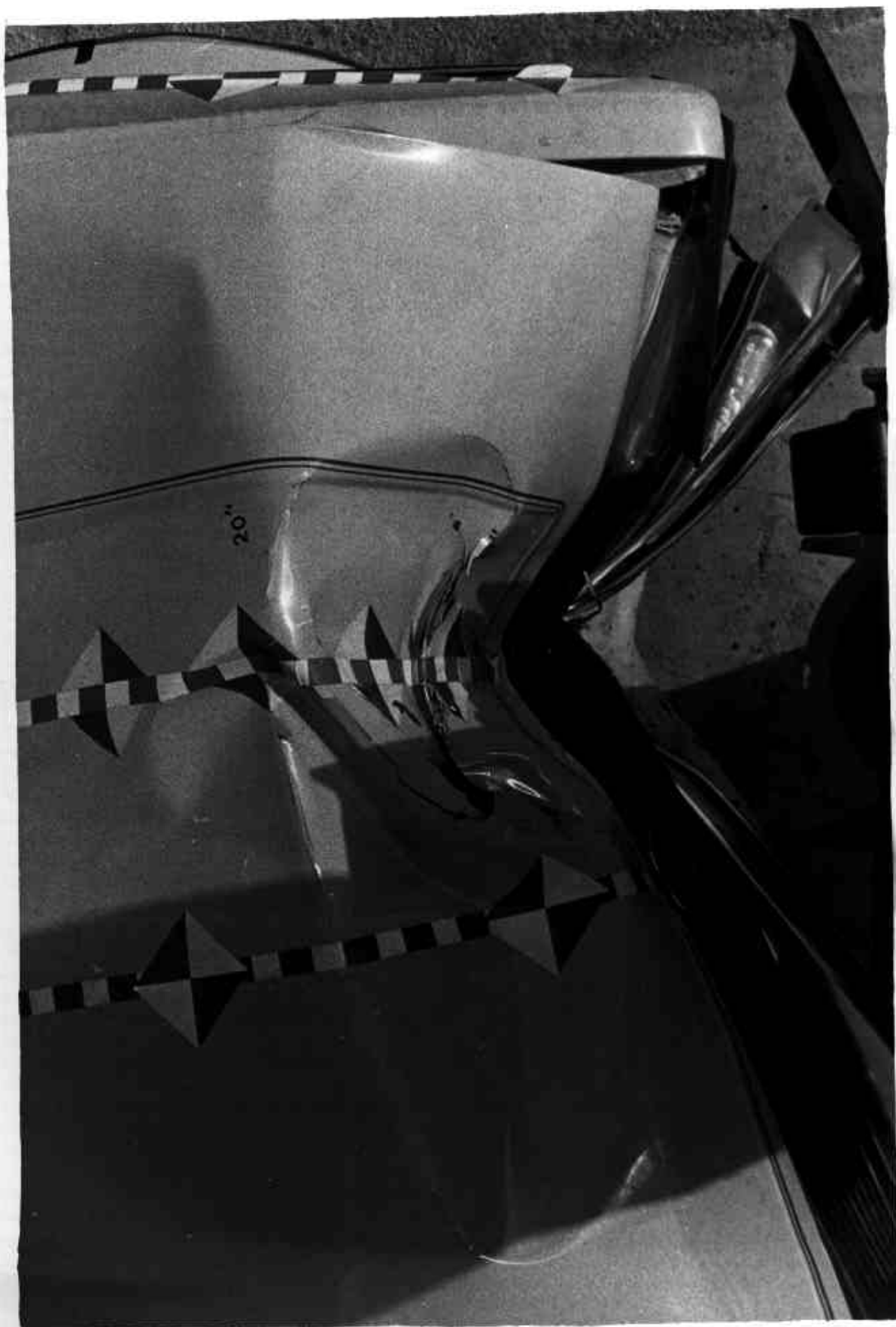


FIGURE A-8 IMPACT LOCATION OVERHEAD VIEW - POSTTEST

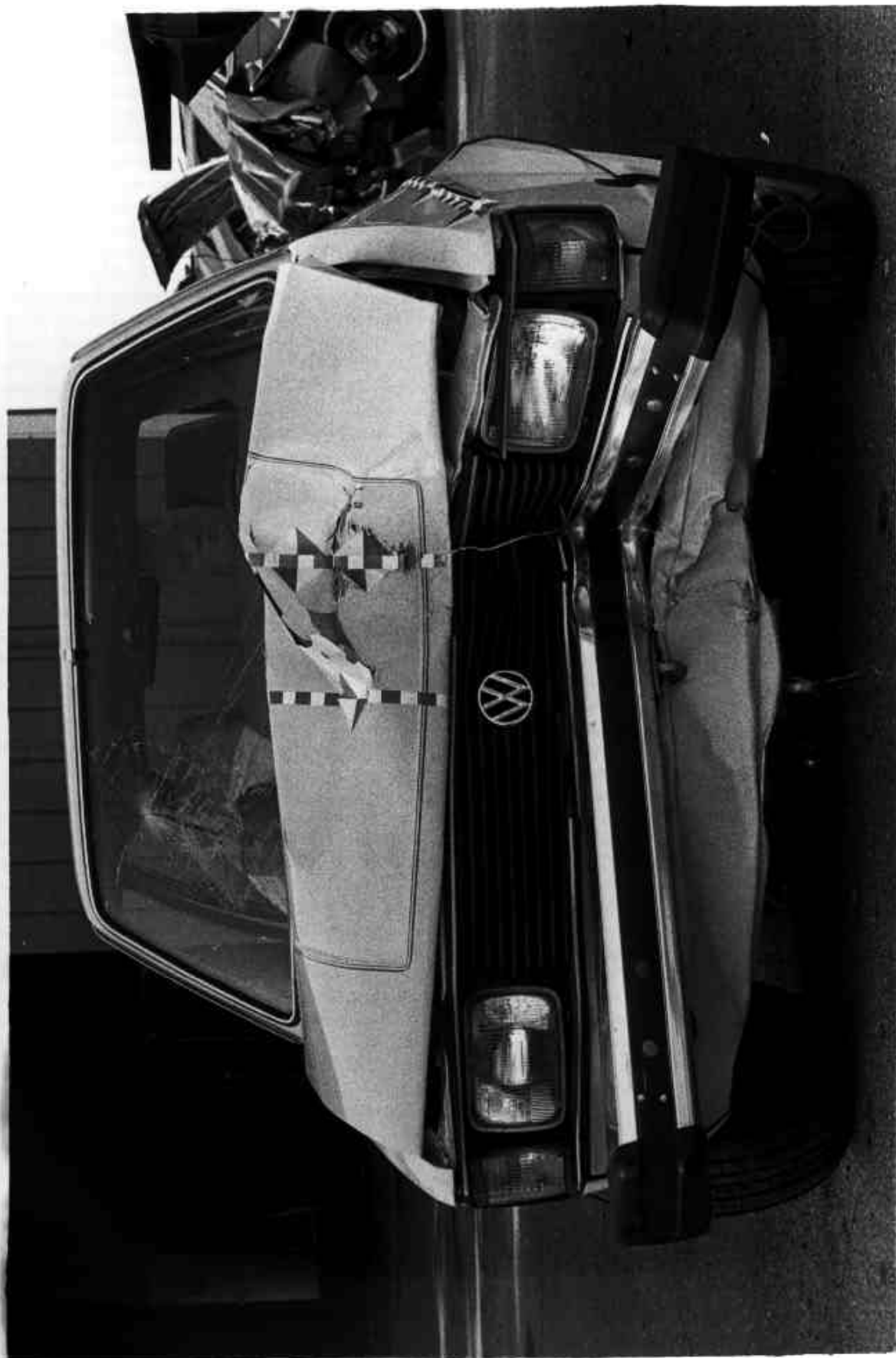


FIGURE A-9 FRONT VIEW - POSTTEST

APPENDIX B

TIME HISTORY DATA

APPENDIX B

Small Sign Support Test, Phase I, Rigid Pole Impact Test No. 5

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 as follows:

ATD Head Accels	- Class 1,000
ATD Chest Accels	- Class 180
ATD Femur Load Cells	- Class 600
Vehicle Accels (except as noted where Class 180 was also used)	- Class 60
Impact Pole Load Cells	- Class 60

DIGITAL TAPE HEADER INFORMATION

10MSNP1 TEST 4 81 VW RABBIT08/30/83MSDTH6180C00170TEST 5 MEASUREMENT OF CRUSH STIFFNESS OF 1981 VW RABBIT

OTH/SE 19.7 0 -9.0999.9ASHDRY103FMTUMBENG

21 8 9314-TVF105 CU. IN. MF5D2165 95.0154.662.131.5NOTHPARTS WERE REMOVED TO REDUCE VEHICLE WEIGHT TO 1900 +/- 50 LB

19.7 0 012FLEW6999 56.0 3.111.915.109.803.5-2.7-9.018.4

OL 8.0 0 0.0 0R9 0.0 0 0

11CD 0 0 050M 0HUMANOID SYSTEMS S85

15.418.6 6.1 7.520.011.5 3.3 6.8 5.63PTSDNANONONO

412CD 0 0 050M 0HUMANOID SYSTEMS S84

15.117.9 7.810.119.199.9 4.8 6.3 4.2NONSTDNANWSDPNO

1AC011HED 6000 1600 .72860 360 125G'SX19.76000

2AC011HED 2860 1600 .72860 360 125G'SY 0.06000

5 3AC011HED 6000 1600 .72860 360 125G'SZ 0.06000

5 4AC011CST 6000 300 .72860 360 125G'SX19.76000

5AC011CST 2860 300 .72860 360 125G'SY 0.06000

5 6AC011CST 6000 300 .72860 360 125G'SZ 0.06000

5 7AC012HED 6000 1600 .72860 360 125G'SX19.76000

8AC012HED 6000 1600 .72860 360 125G'SY 0.06000

9AC012HED 6000 1600 .72860 360 125G'SZ 0.06000

510AC012CST 6000 300 .72860 360 125G'SX19.76000

1AC012CST 2860 300 .72860 360 125G'SY 0.06000

2AC012CST 6000 300 .72860 360 125G'SZ 0.06000

513AC01NFBR 2860 100 .72860 360 125G'SX19.76000

514AC01NFBR 2860 100 .72860 360 125G'SX19.76000

5AC01NENG 2860 100 .72860 360 125G'SX19.76000

516AC01NENG 2860 100 .72860 360 125G'SY 0.06000

517AC01NENG 2860 100 .72860 360 125G'SZ 0.06000

3AC01NFFC 2860 100 .72860 360 125G'SX19.76000

9AC01NFFC 2860 100 .72860 360 125G'SX19.76000

520AC01NFWL 2860 100 .72860 360 125G'SX19.76000

521AC01NLFF 2860 100 .72860 360 125G'SX19.76000

2AC01NRFF 2860 100 .72860 360 125G'SX19.76000

523AC01NVCG 2860 300 .72860 360 125G'SX19.76000

524AC01NVCG 2860 300 .72860 360 125G'SY 0.06000

5AC01NVCG 2860 300 .72860 360 125G'SZ 0.06000

526AC01NLRF 2860 100 .72860 360 125G'SX19.76000

527AC01NRRF 2860 100 .72860 360 125G'SX19.76000

3LC011LFM 9999 1000999.92860 360 125LBSN 0.06000

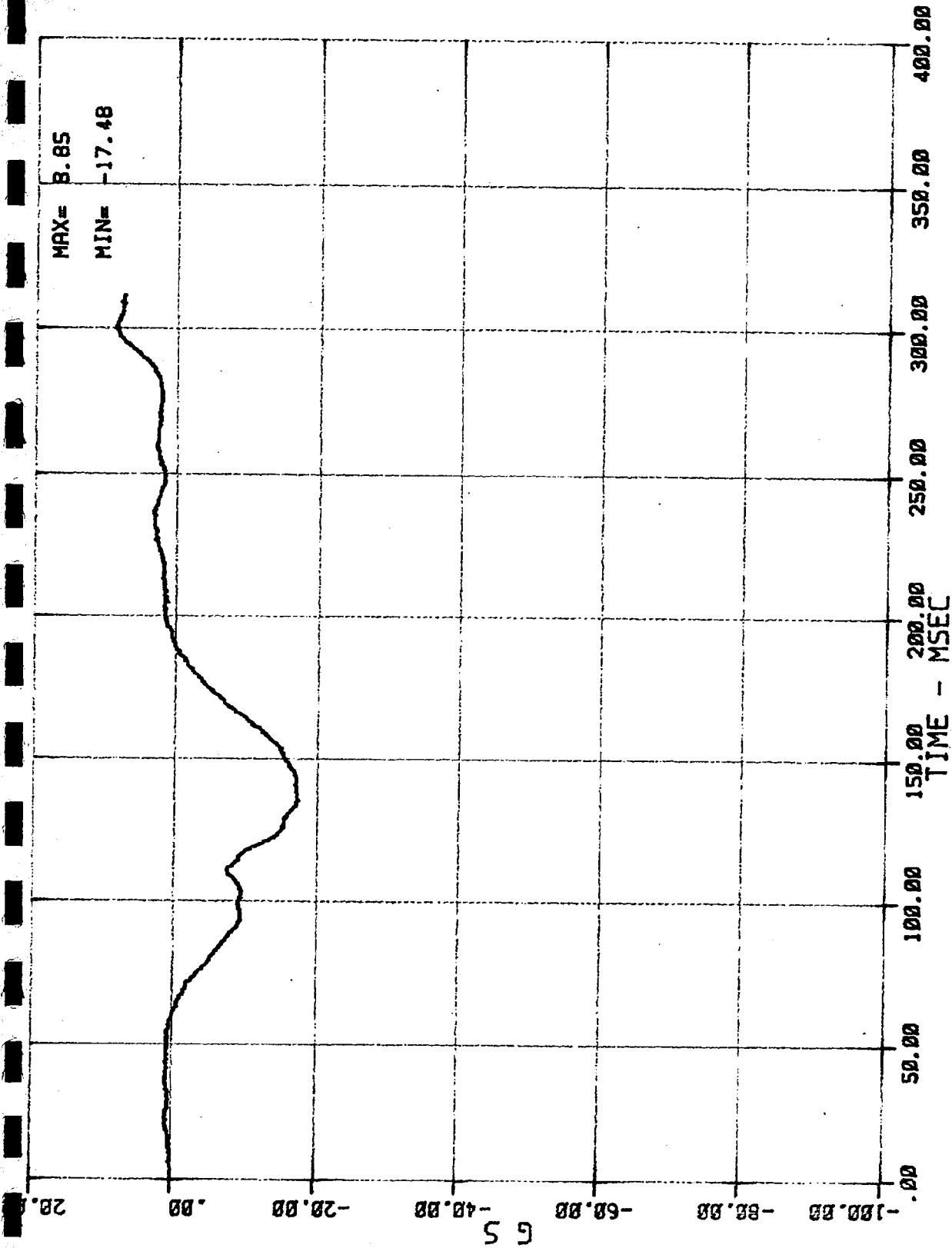
3LC011RFM 9999 1000999.92860 360 125LBSN 0.06000

530LC012LFM 9999 1000999.92860 360 125LBSN 0.06000

521LC012RFM 9999 1000999.92860 360 125LBSN 0.06000

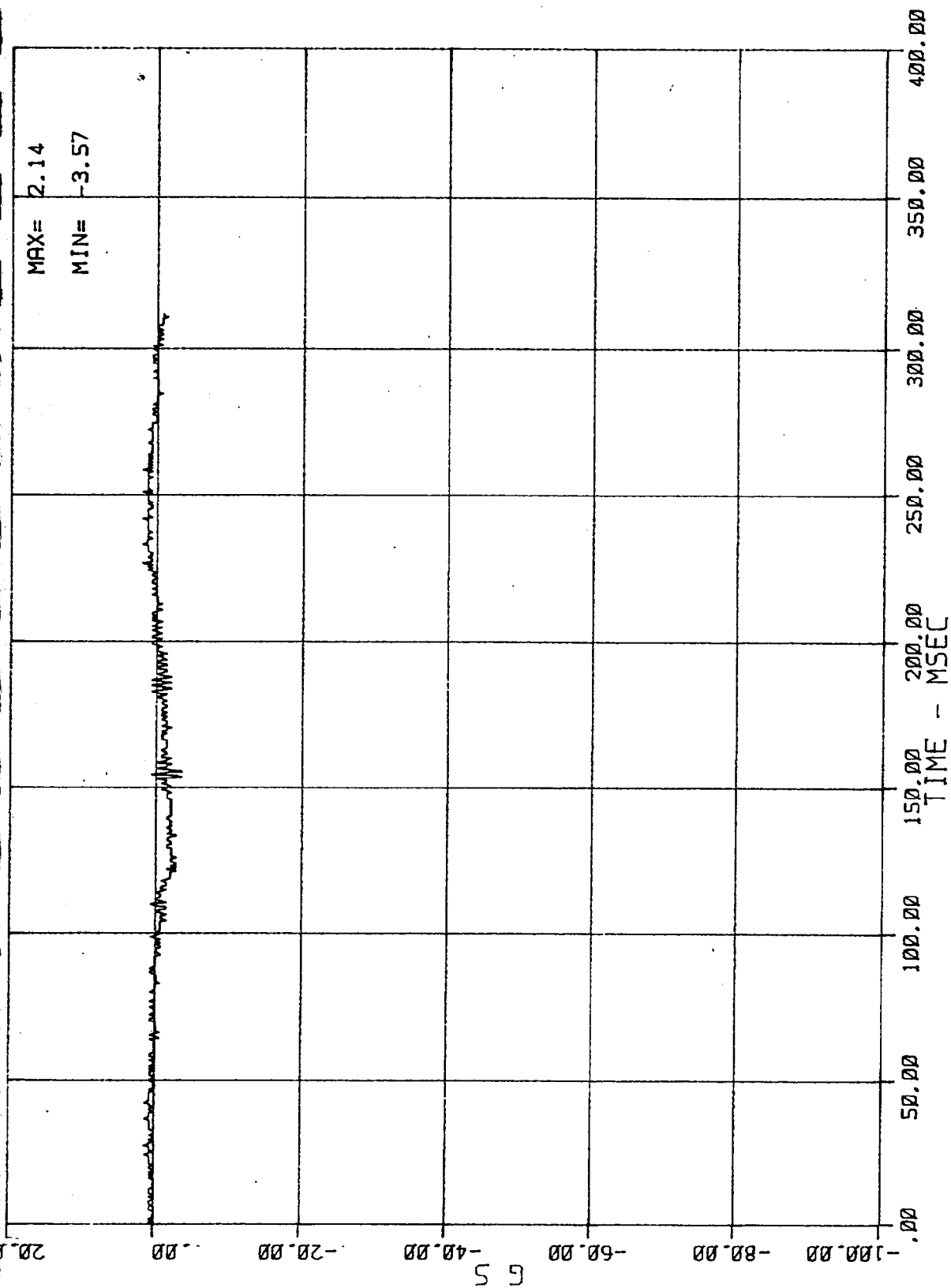
3LCBANBRC 9999 100999.92860 360 125LBSX 0.06000

533LCBANBRC 9999 100999.92860 360 125LBSX 0.06000



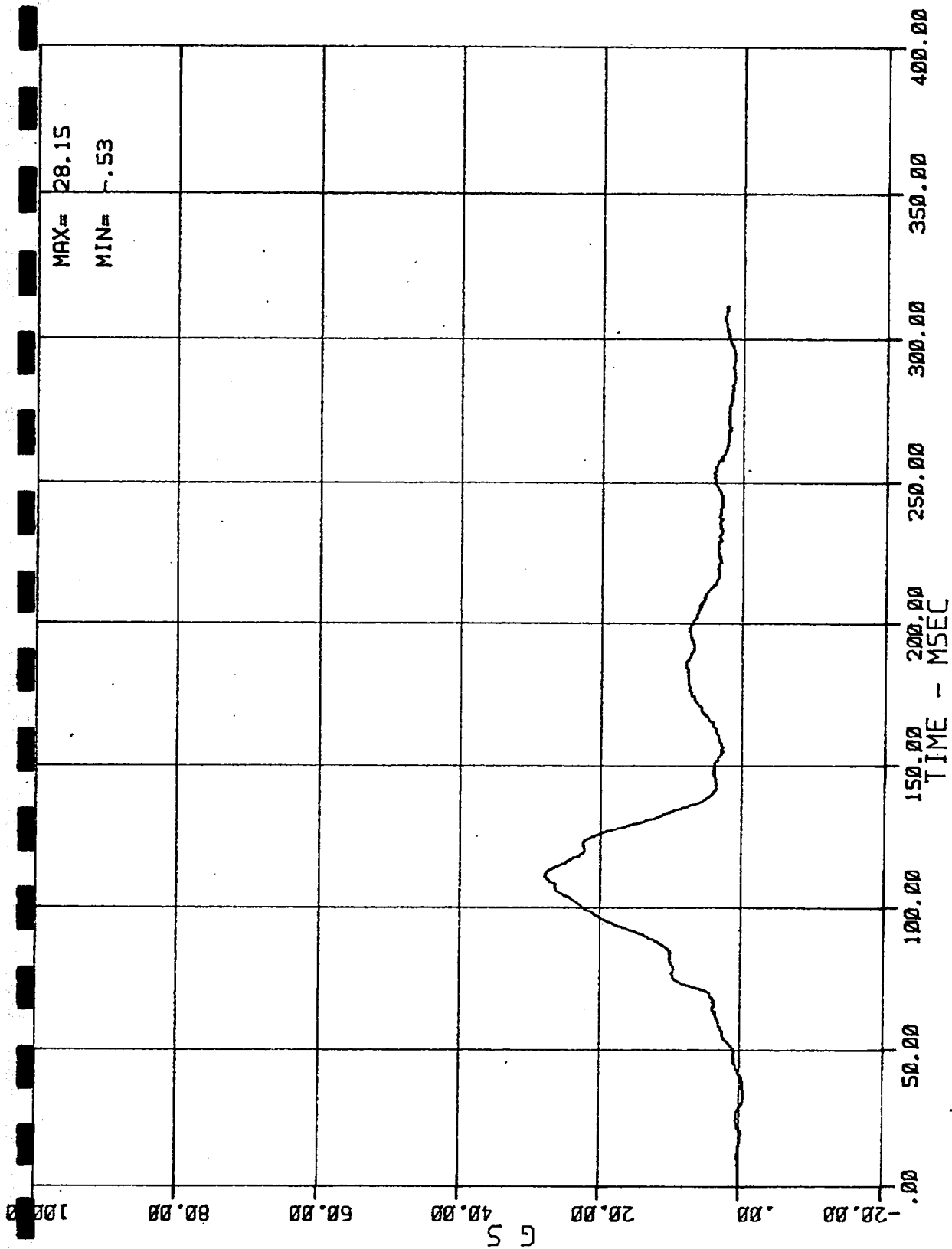
01 AC 01 1 HED X (DRIVERS HEAD ACCEL. -- X AXIS)
MSE F08013 1981 VW RABBIT

08/30/83



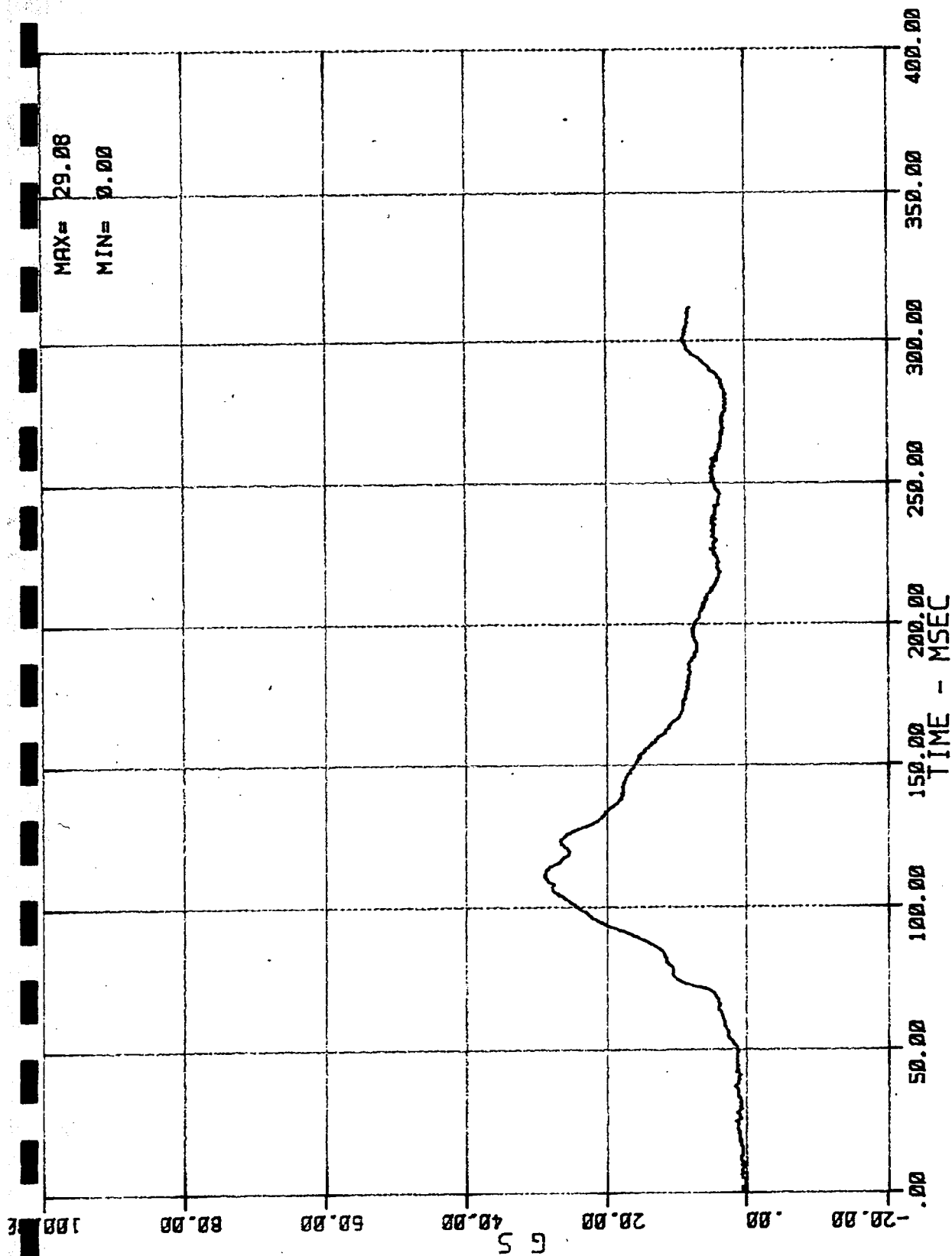
02 AC 01 1 HED Y (DRIVERS HEAD ACCEL. --- Y AXIS)
MSE F08013 1981 VW RABBIT

08/30/83



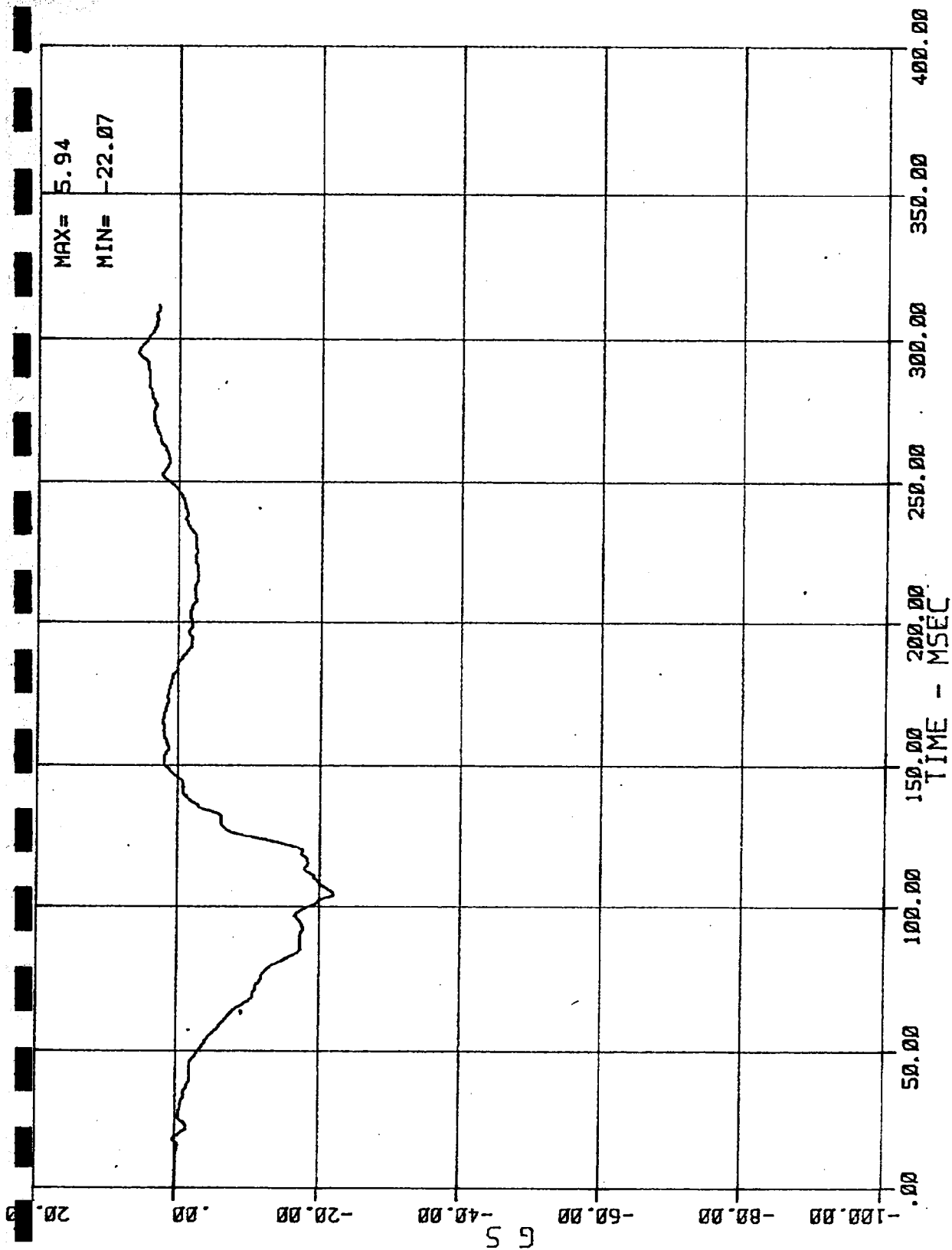
03 AC 01 1 HED Z (DRIVERS HEAD ACCEL. -- Z AXIS)
NSE F08013 1981 VW RABBIT

08/30/83



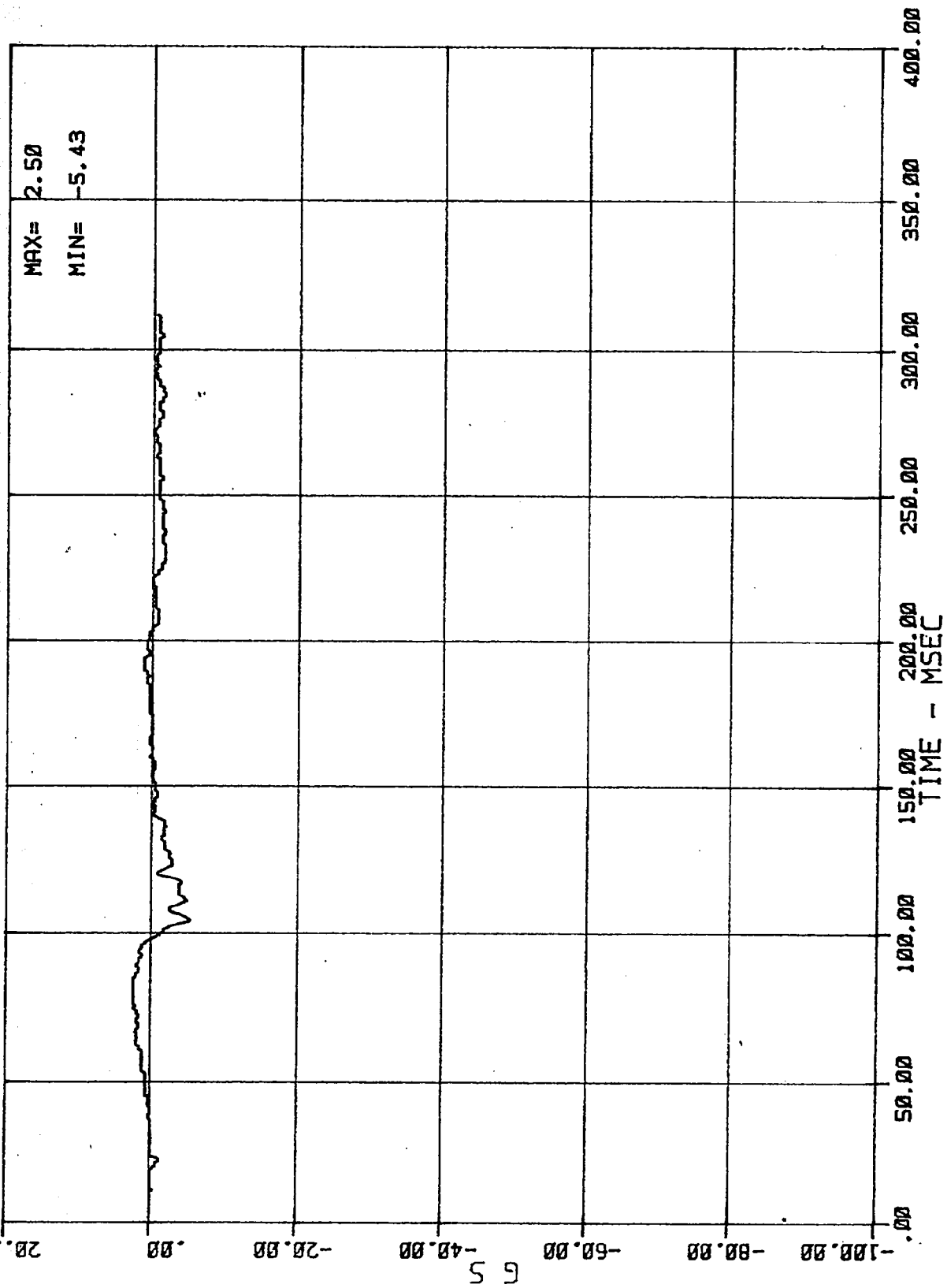
DRIVERS HEAD RESULTANT ACCEL.
MSE F08013 1981 VW RABBIT

08/30/83



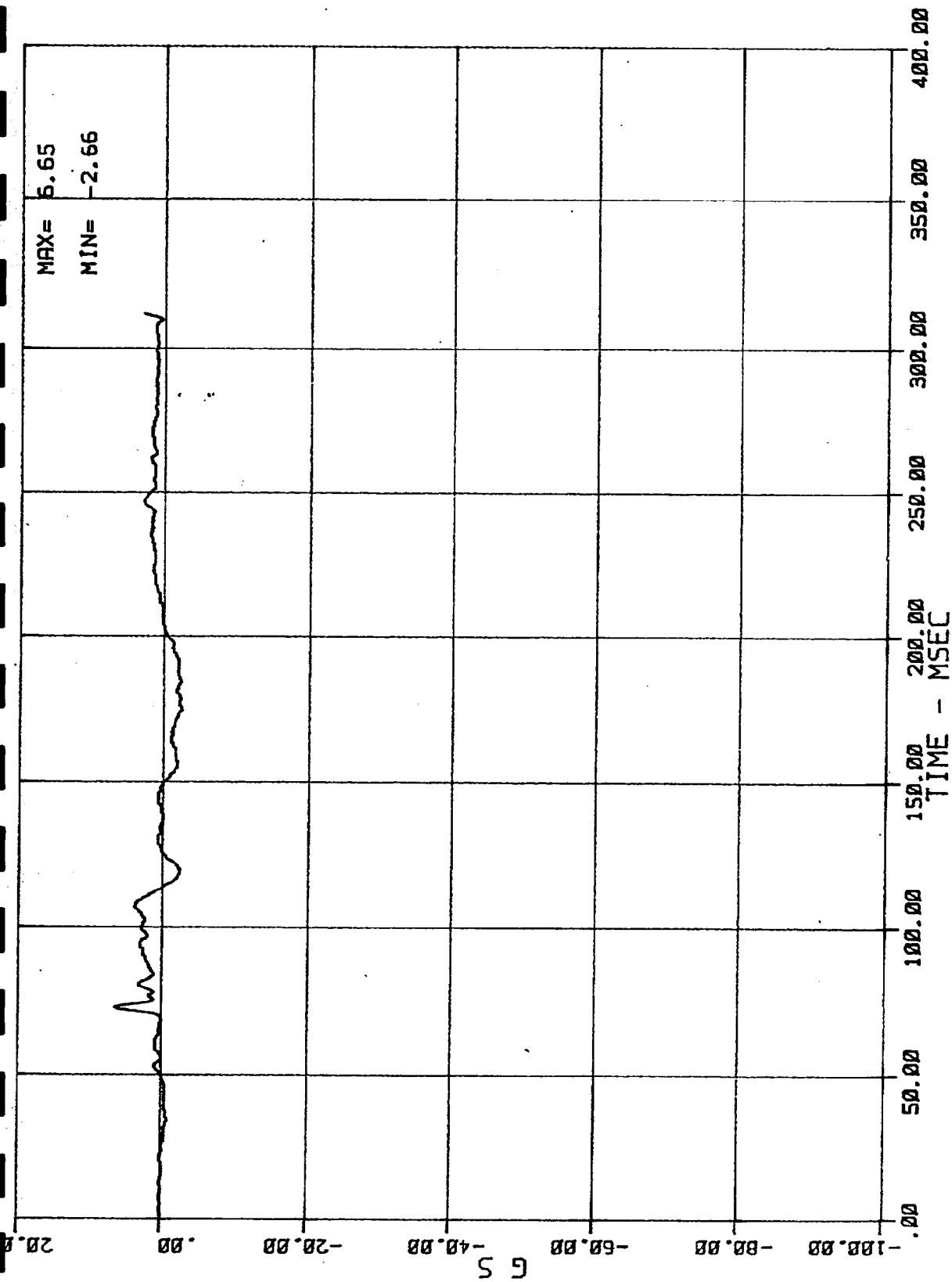
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MSE F08013 1981 VW RABBIT

08/30/83



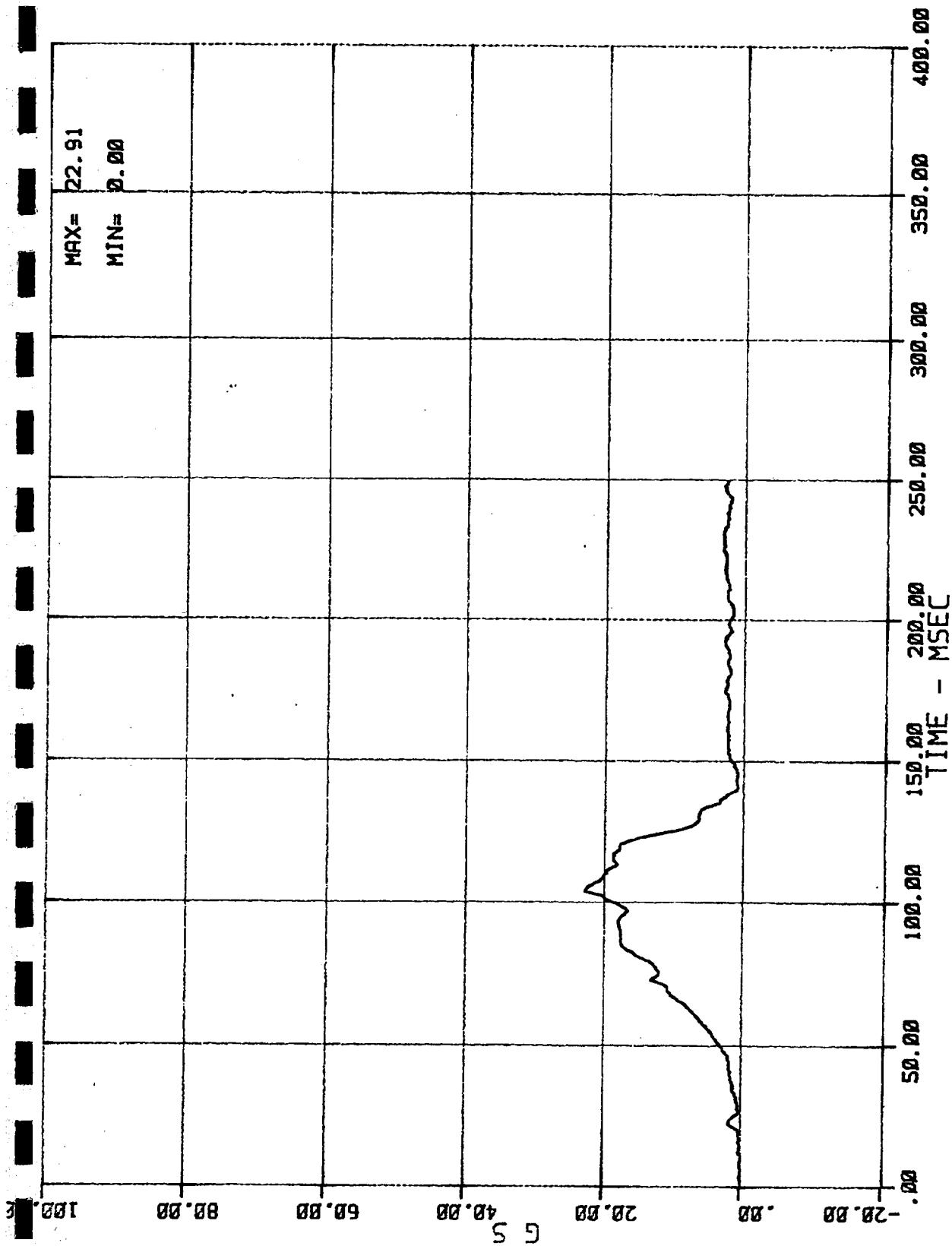
05 AC 01 1 CST Y (DRIVERS CHEST ACCEL. -- Y AXIS)
MSE F08013 1981 VW RABBIT

08/30/83



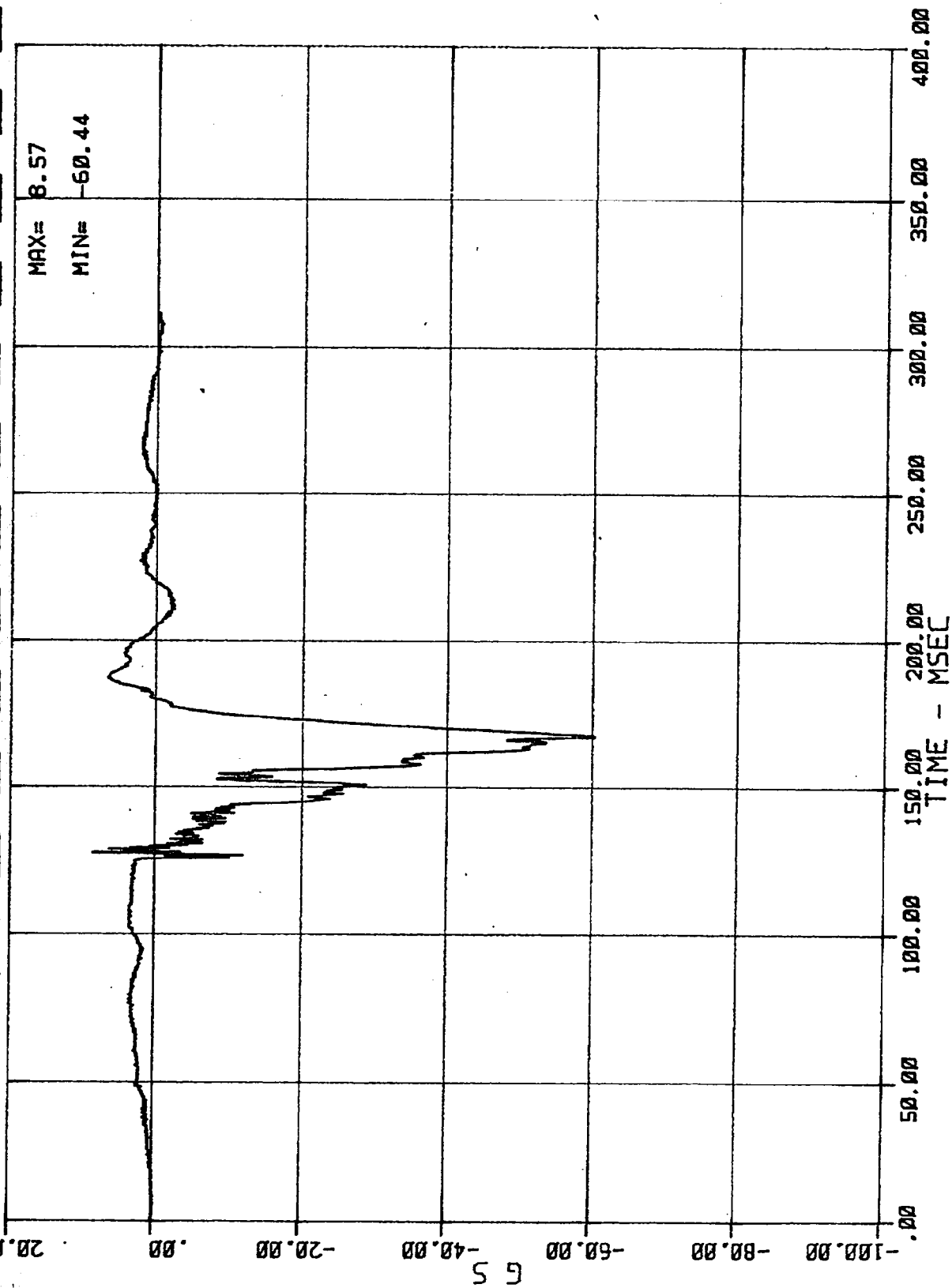
06 AC 01 1 CST 2 (DRIVERS CHEST ACCEL. --- Z AXIS)
MSE F08013 1981 VW RABBIT

08/30/83



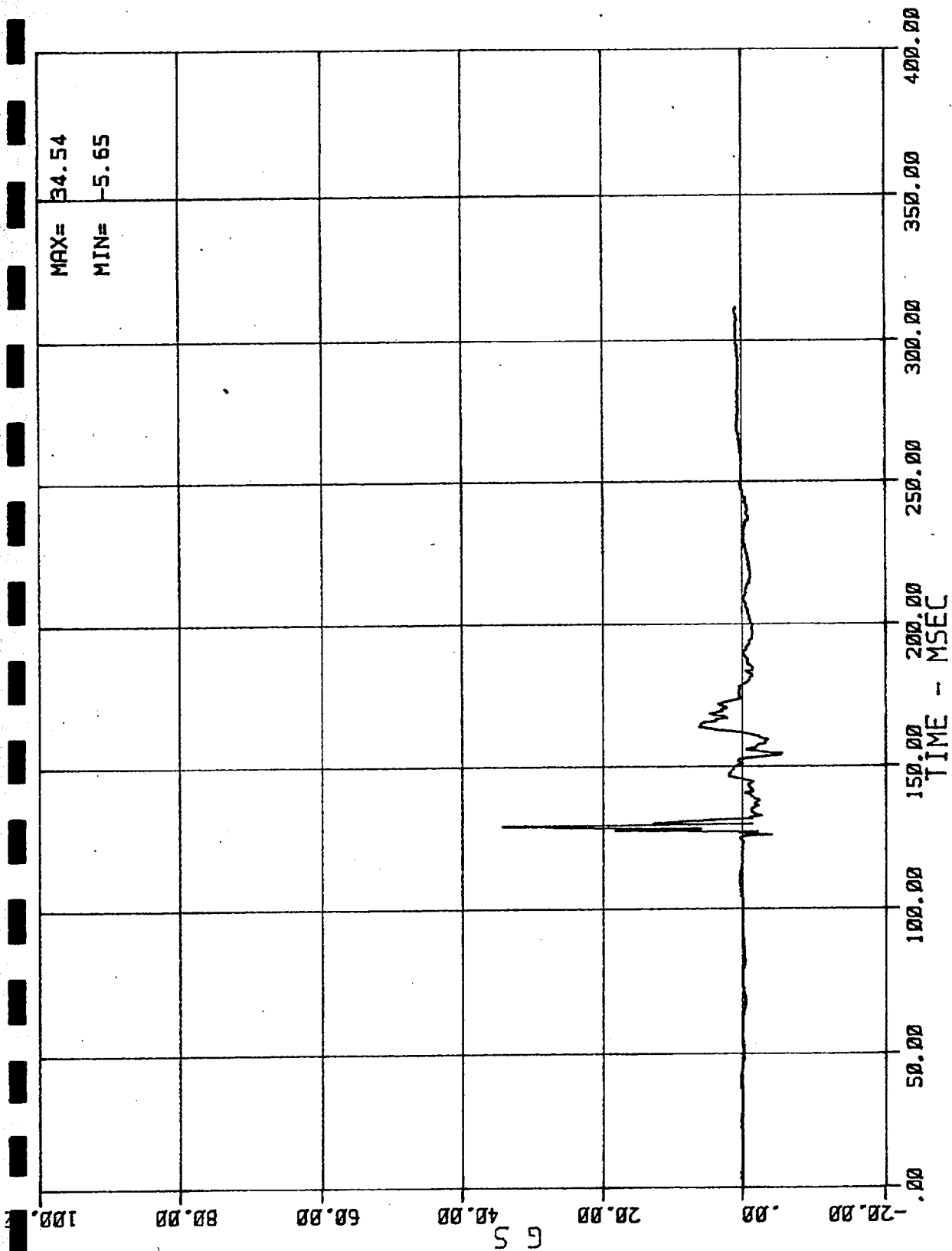
DRIVERS CHEST RESULTANT ACCEL.
MSE F08013 1981 VW RABBIT

08/30/83



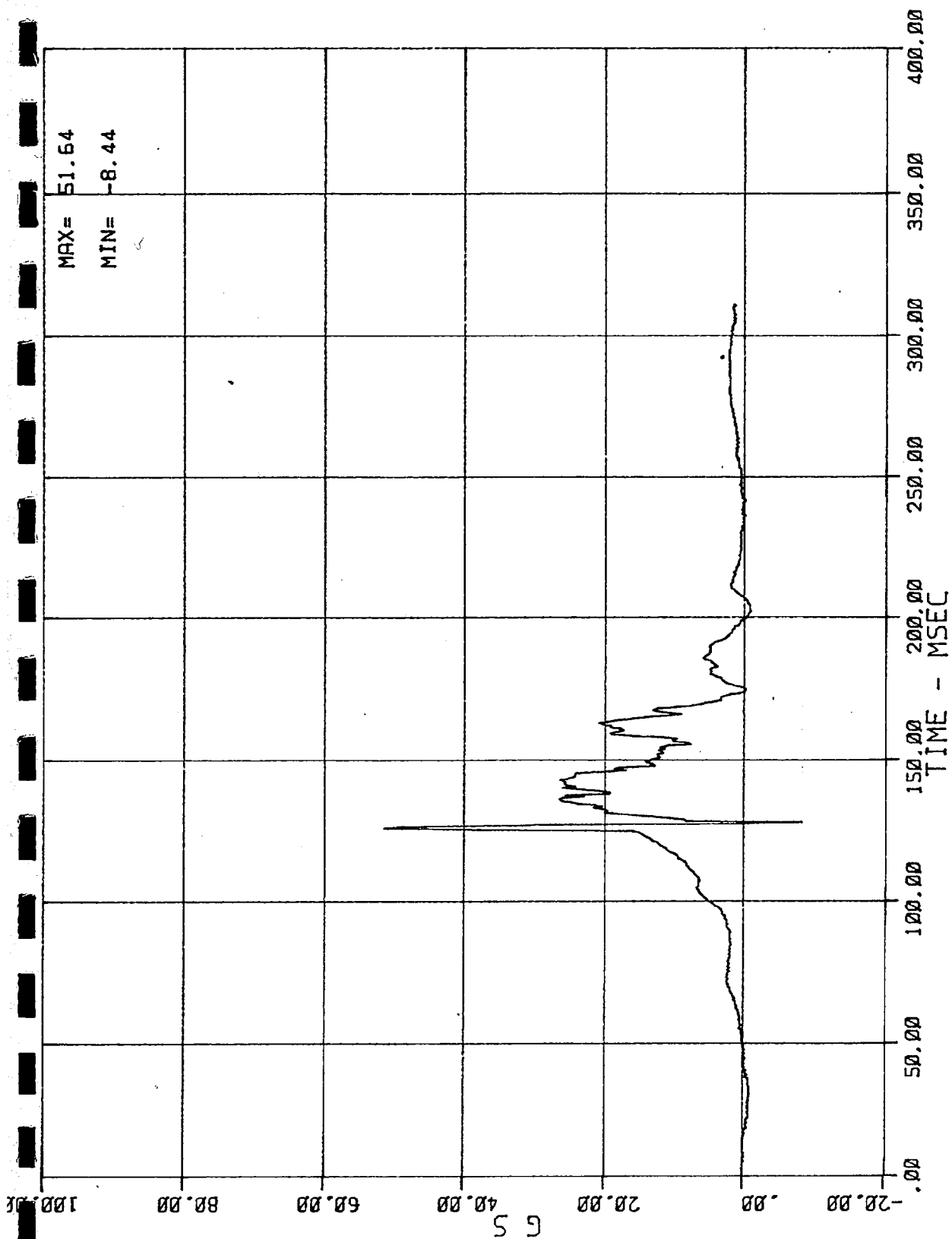
07 AC 01 2 HED X (PASSENGER HEAD ACCEL. -- X AXIS)
MSE F08013 1981 VW RABBIT

08/30/83



08 AC 01 2 HED Y (PASSENGER HEAD ACCEL. -- Y AXIS)
MSE F08013 1981 VW RABBIT

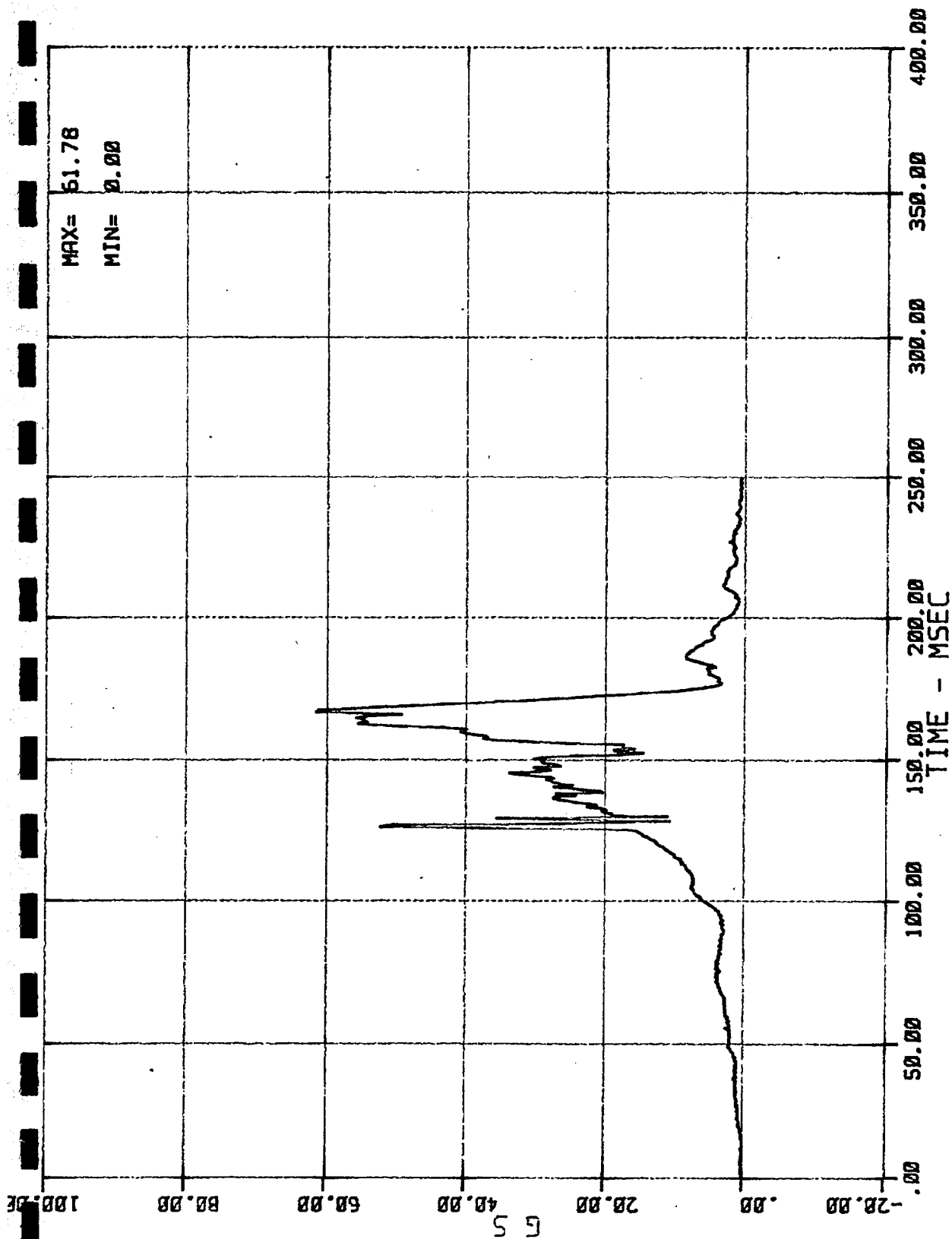
08/30/83



09 AC 01 2 HED Z (PASSENGER HEAD ACCEL. -- Z AXIS)

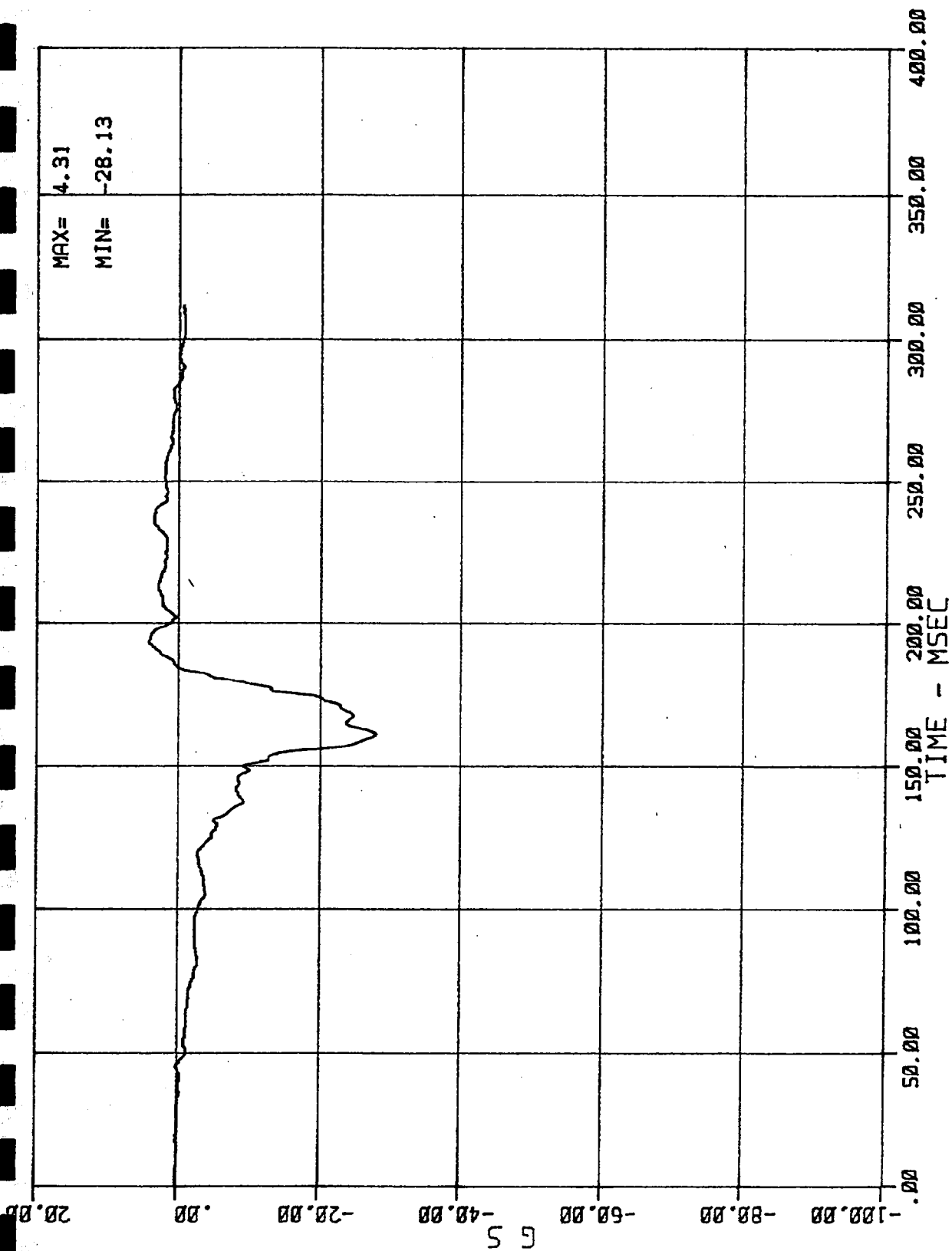
MSE F08013 1981 VW RABBIT

08/30/83



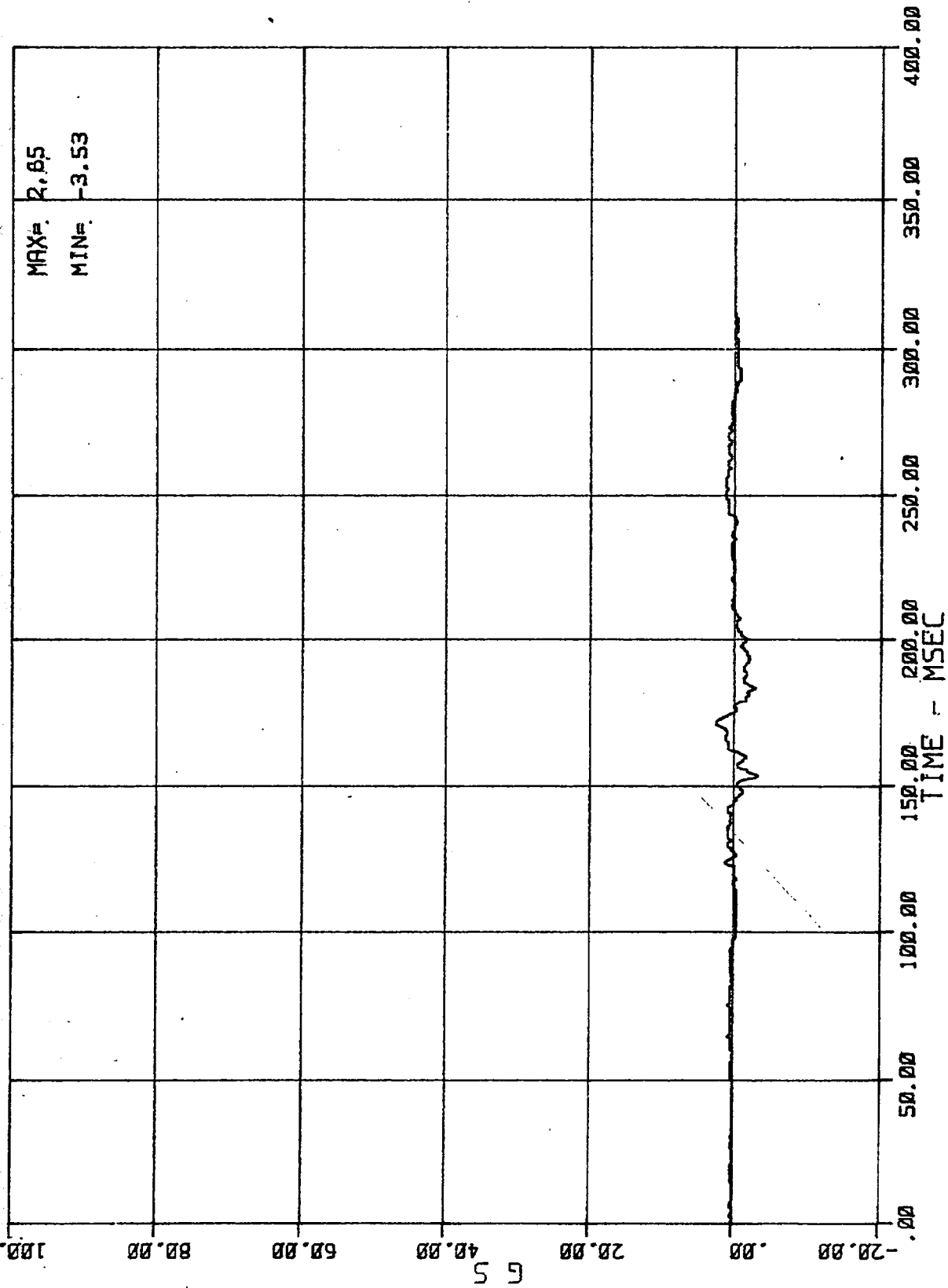
PASSENGERS HEAD RESULTANT ACCEL.
MSE F08013 1981 VW RABBIT

08/30/83



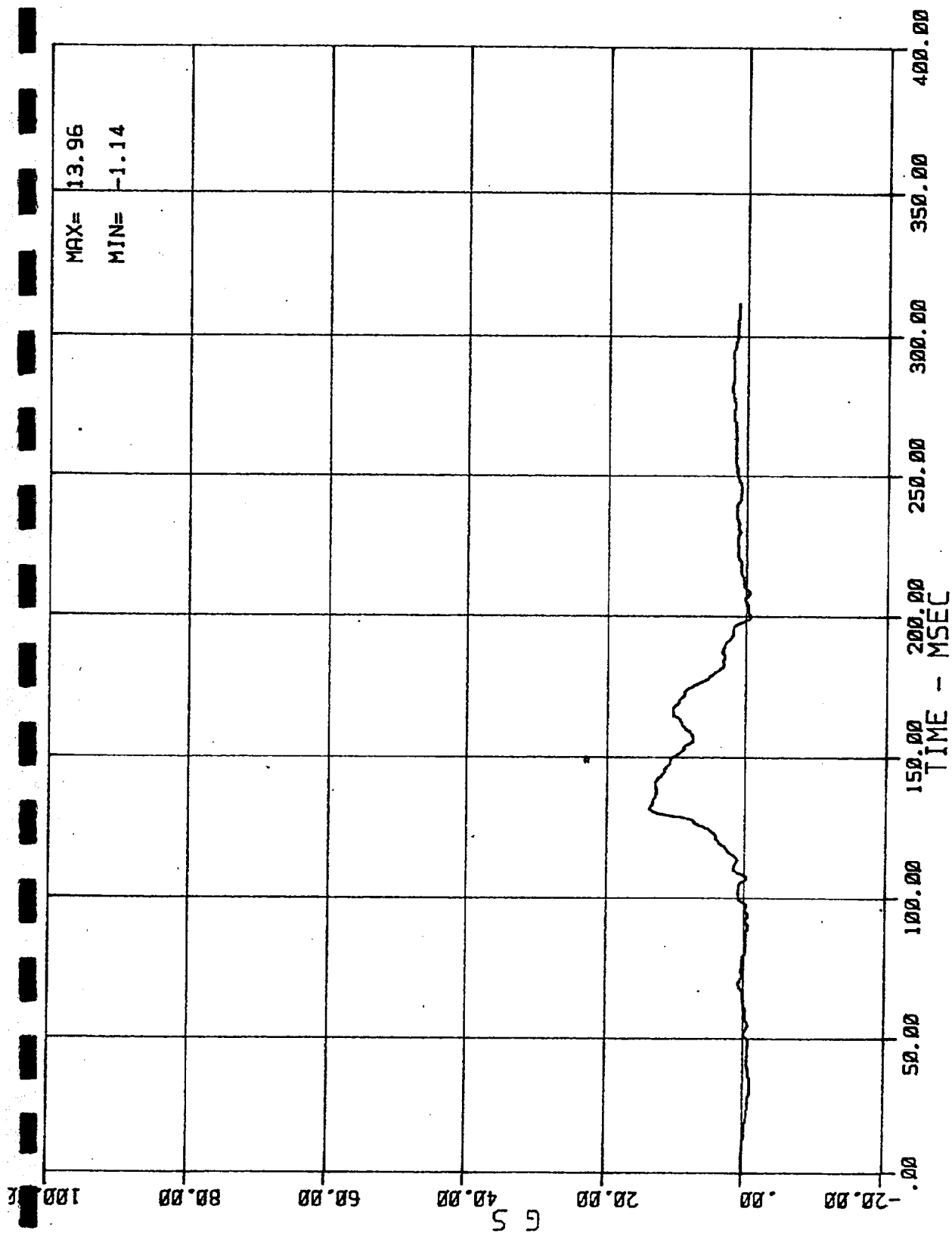
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MSE F08013 1981 VW RABBIT

08/30/83



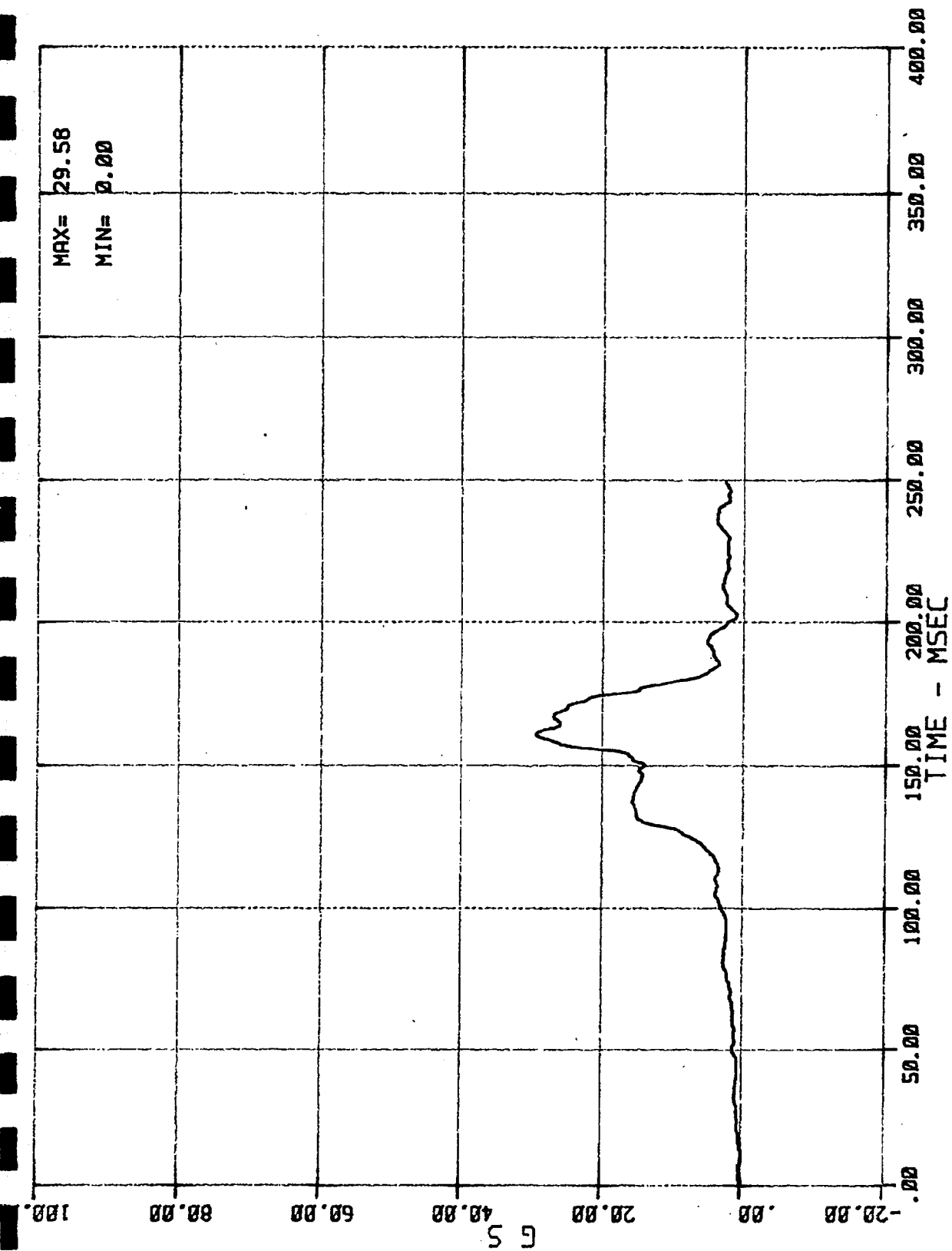
11 AC 01 2 CST Y (PASSENGER CHEST ACCEL. --- Y AXIS)
MSE F08013 1981 VW RABBIT

08/30/83



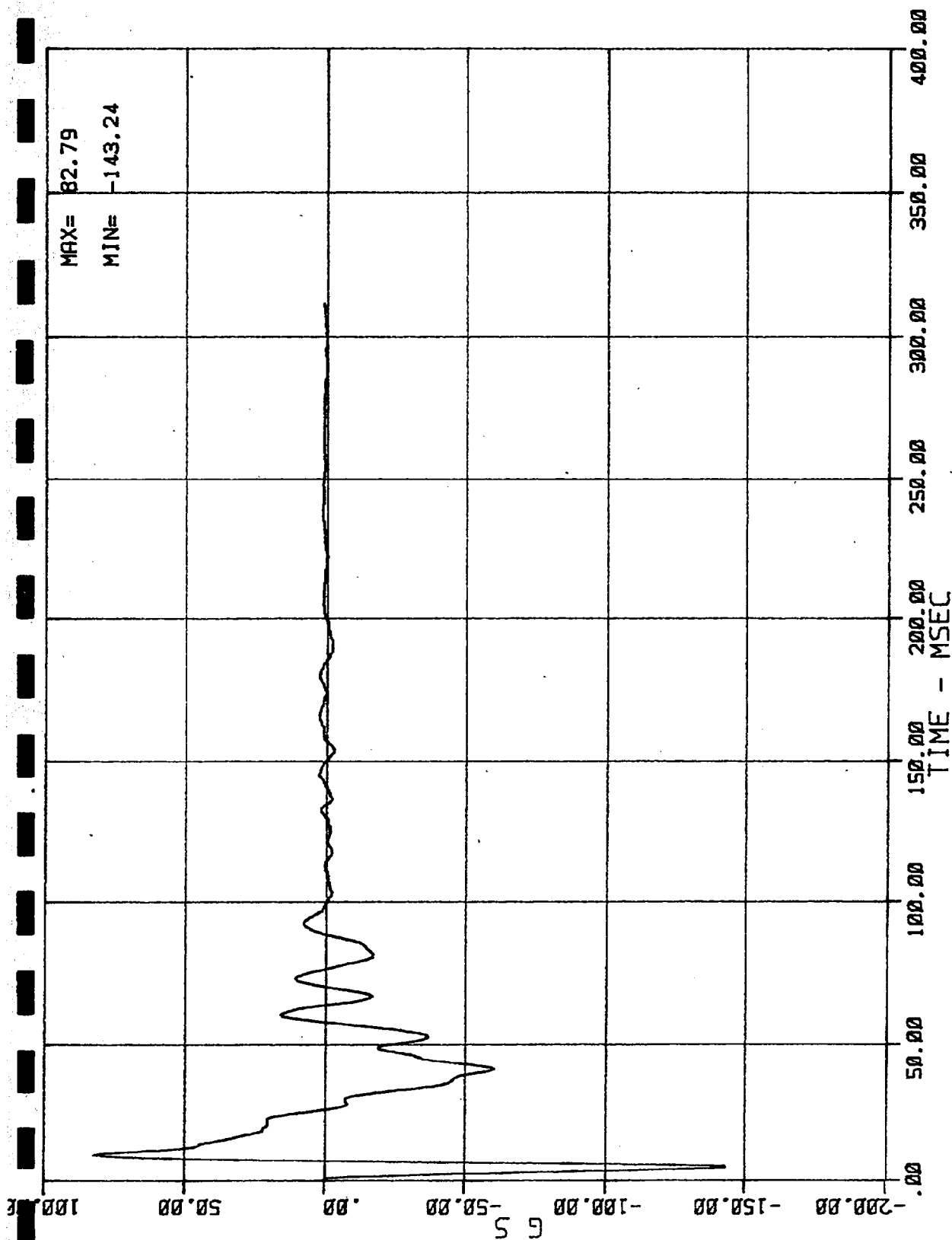
12 AC 01 2 CST Z (PASSENGER CHEST ACCEL. -- Z AXIS)
MSE F08013 1981 VW RABBIT

08/30/83



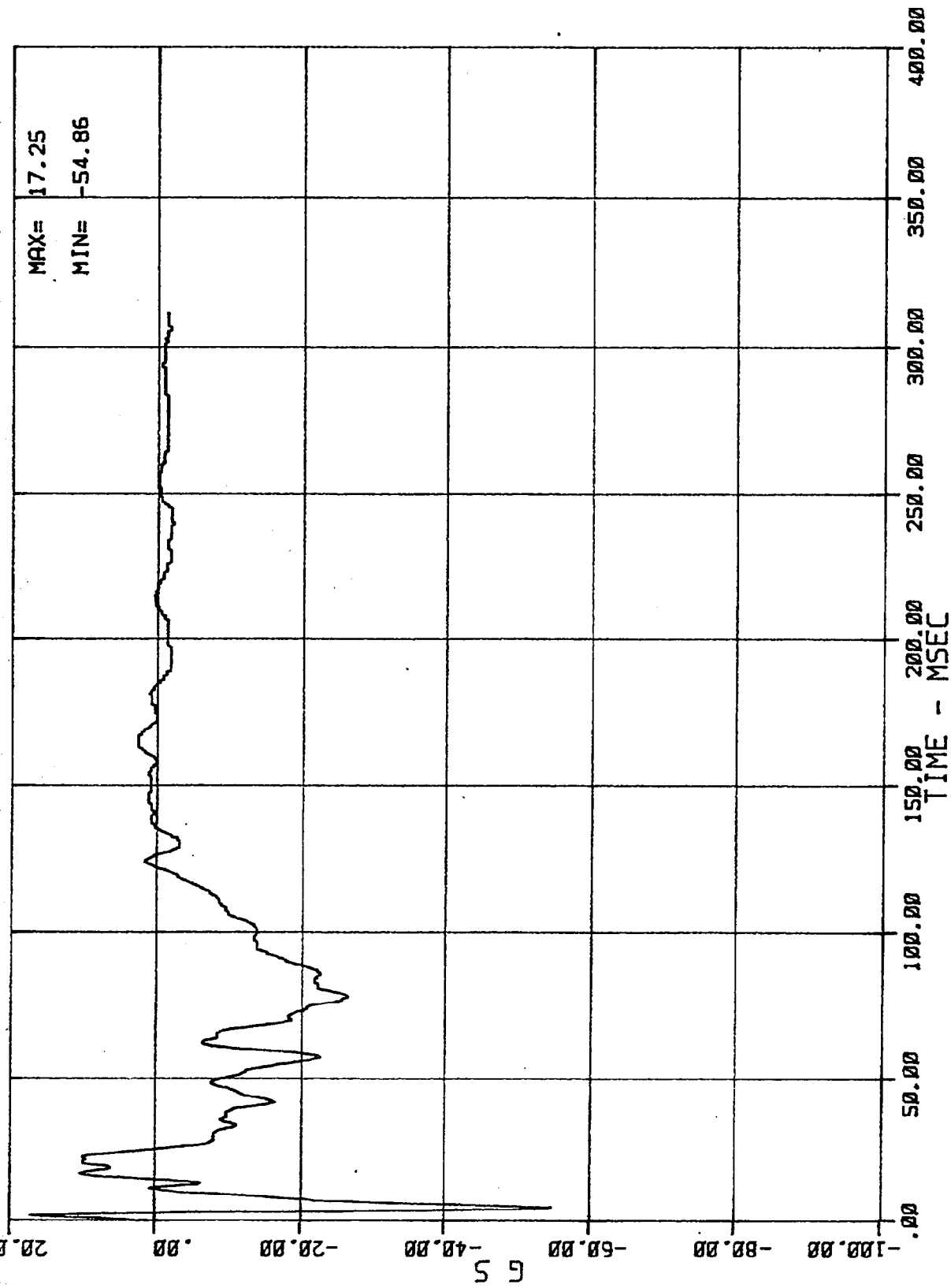
PASSENGERS CHEST RESULTANT ACCEL.
MSE F08013 1981 VW RABBIT

08/30/83



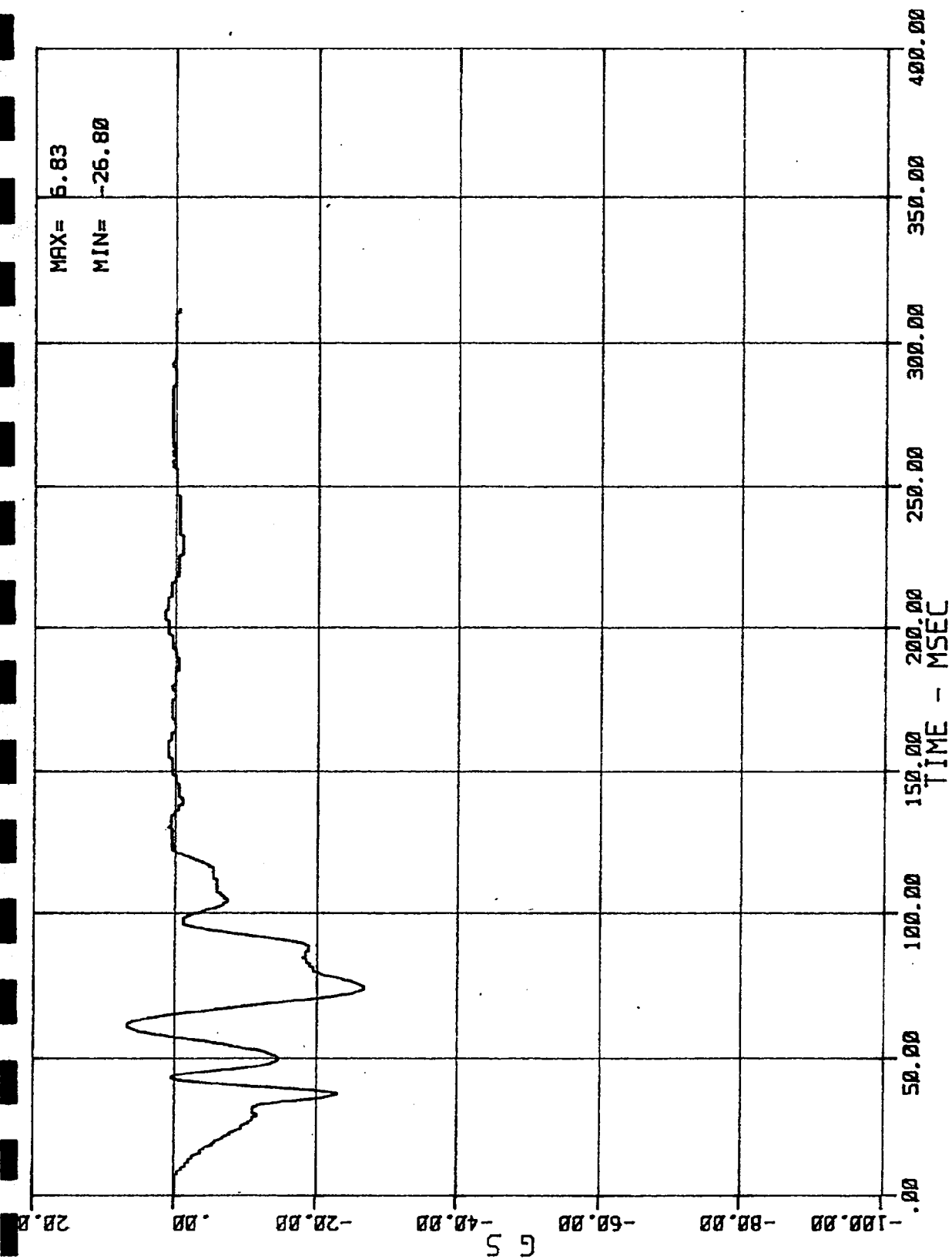
13 AC 01 N FBR X (LEFT FRONT BUMPER ACCEL.)
MSE F08013 1981 VW RABBIT

08/30/83



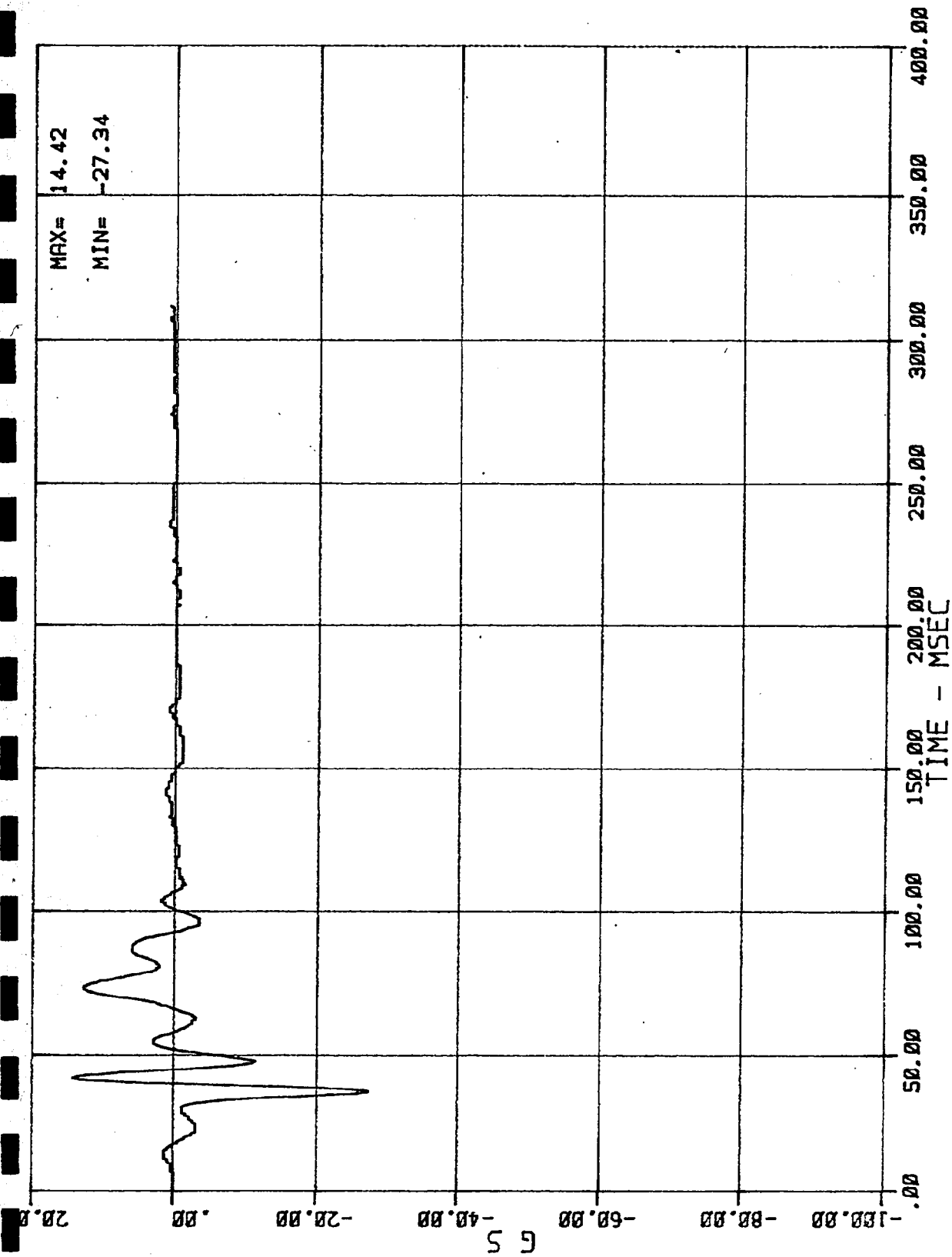
14 AC 01 N FBR X (RIGHT FRONT BUMPER ACCEL.)
MSE F08013 1981 VW RABBIT

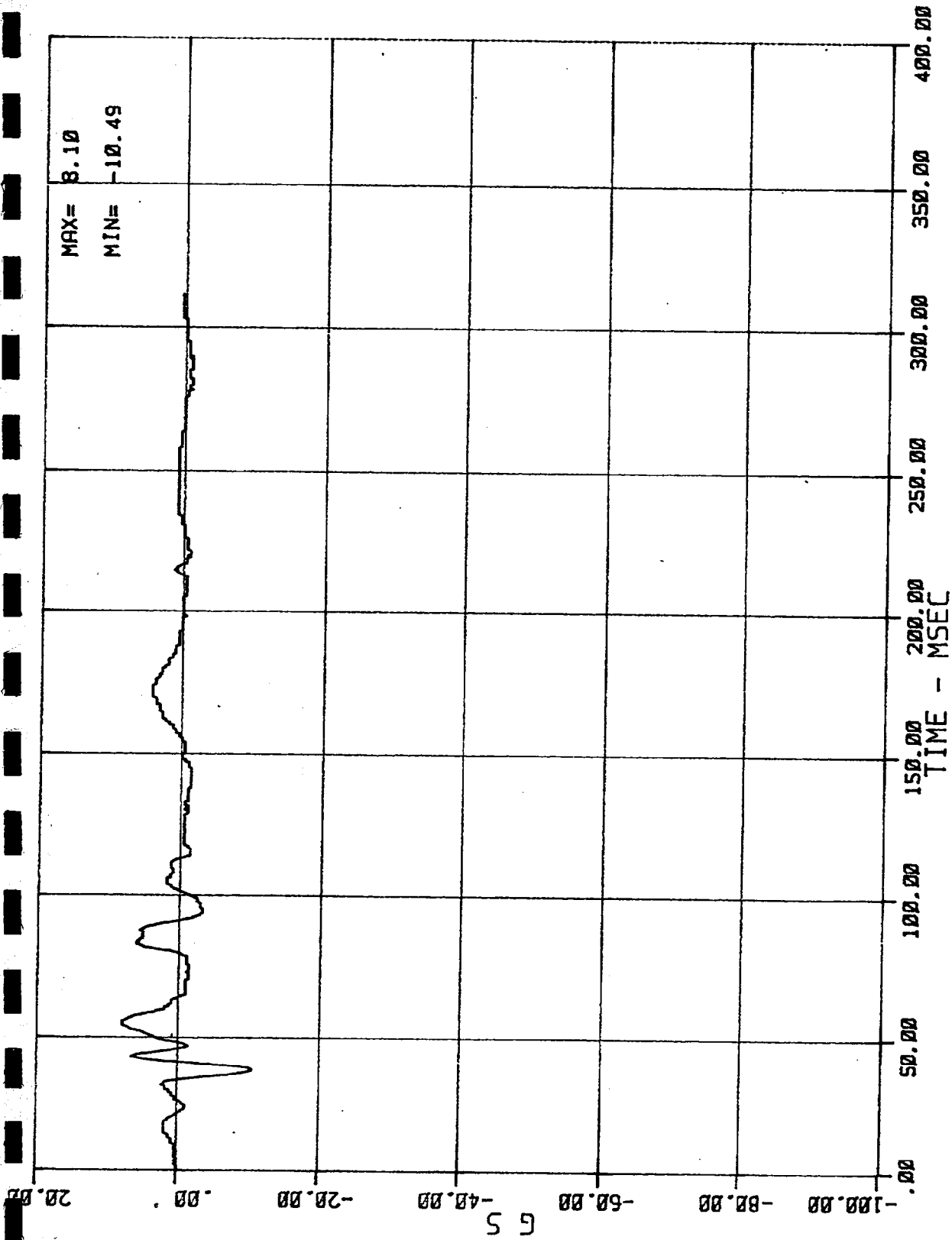
08/30/83



15 AC 01 N ENG X (ENGINE ACCEL. -- X AXIS)
MSE F08013 1981 VW RABBIT

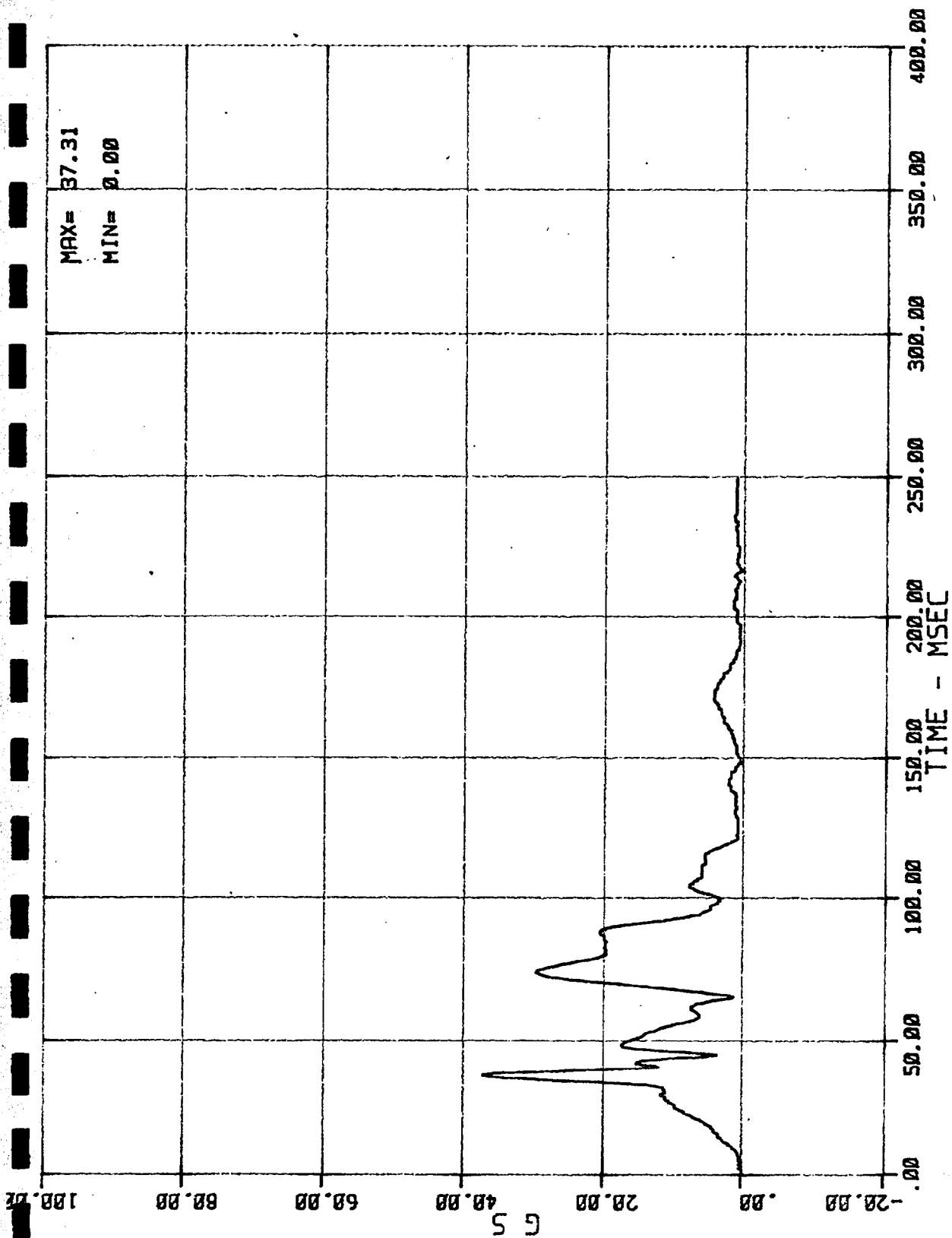
08/30/83





17 AC 01 N ENG Z (ENGINE ACCEL. -- Z AXIS)
MSE F08013 1981 VW RABBIT

08/30/83



ENGINE RESULTANT ACCEL.
MSE F08013 1981 VW RABBIT

08/30/83

100.00

80.00

60.00

40.00

5

20.00

.00

-20.00

.00

50.00

100.00

150.00

200.00

250.00

300.00

350.00

400.00

TIME - MSEC

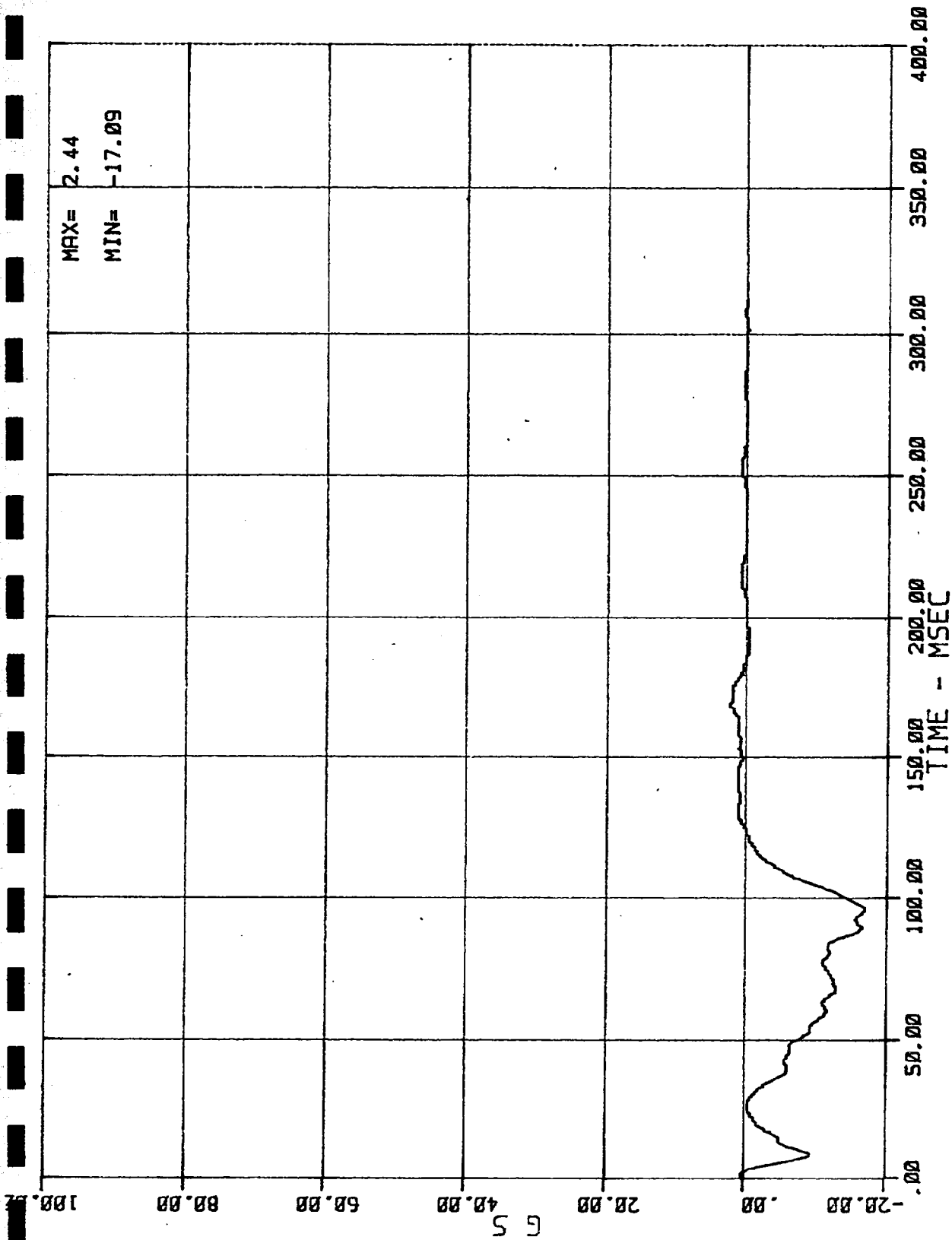
18 AC 01 N FFC X (FRONT CROSSMEMBER, LEFT SIDE ACCEL.)

MSE F08013 1981 VW RABBIT

08/30/83

MAX= 2.38

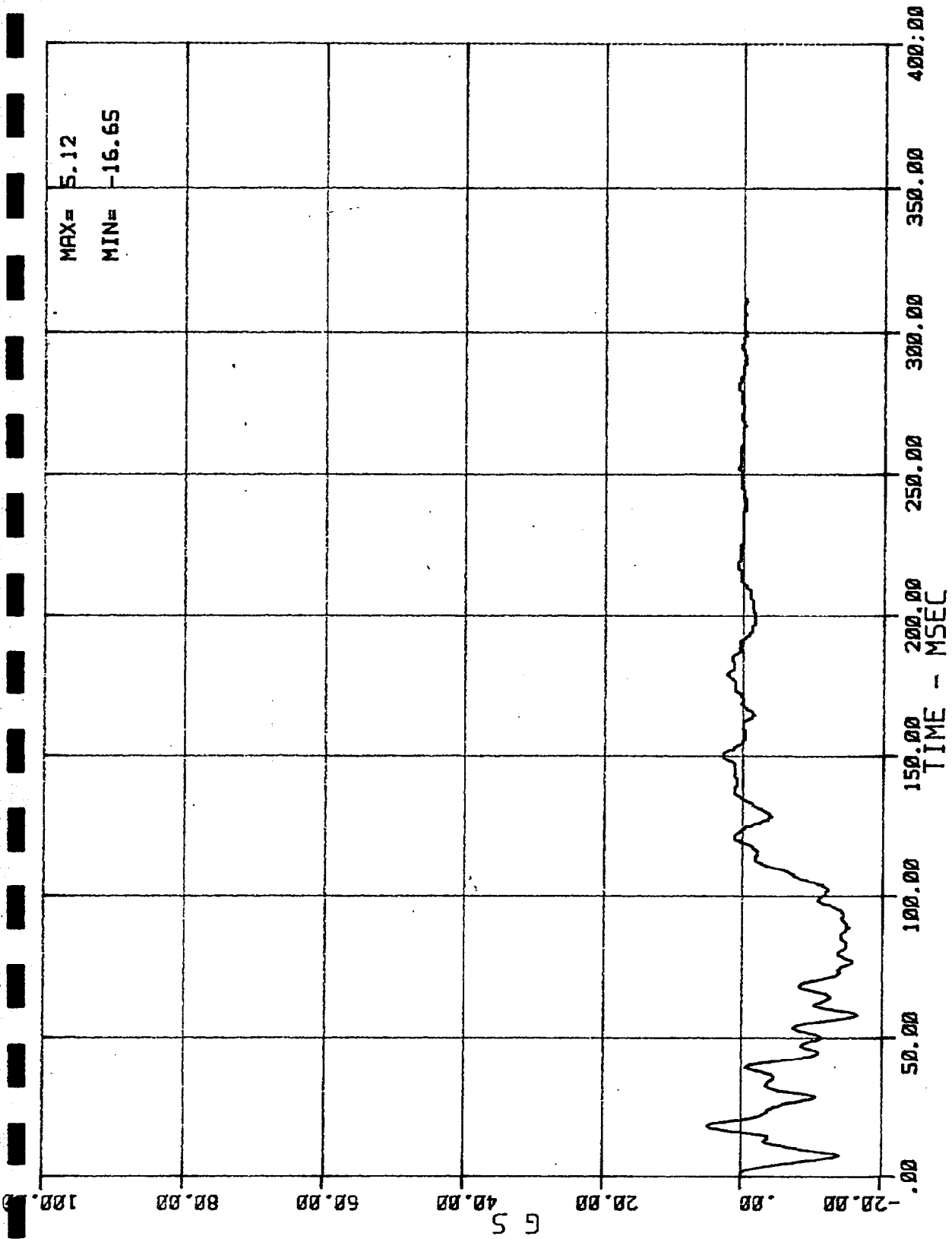
MIN= -17.58



19 AC 01 N FFC X (FRONT CROSSMEMBER, RIGHT SIDE ACCEL.)

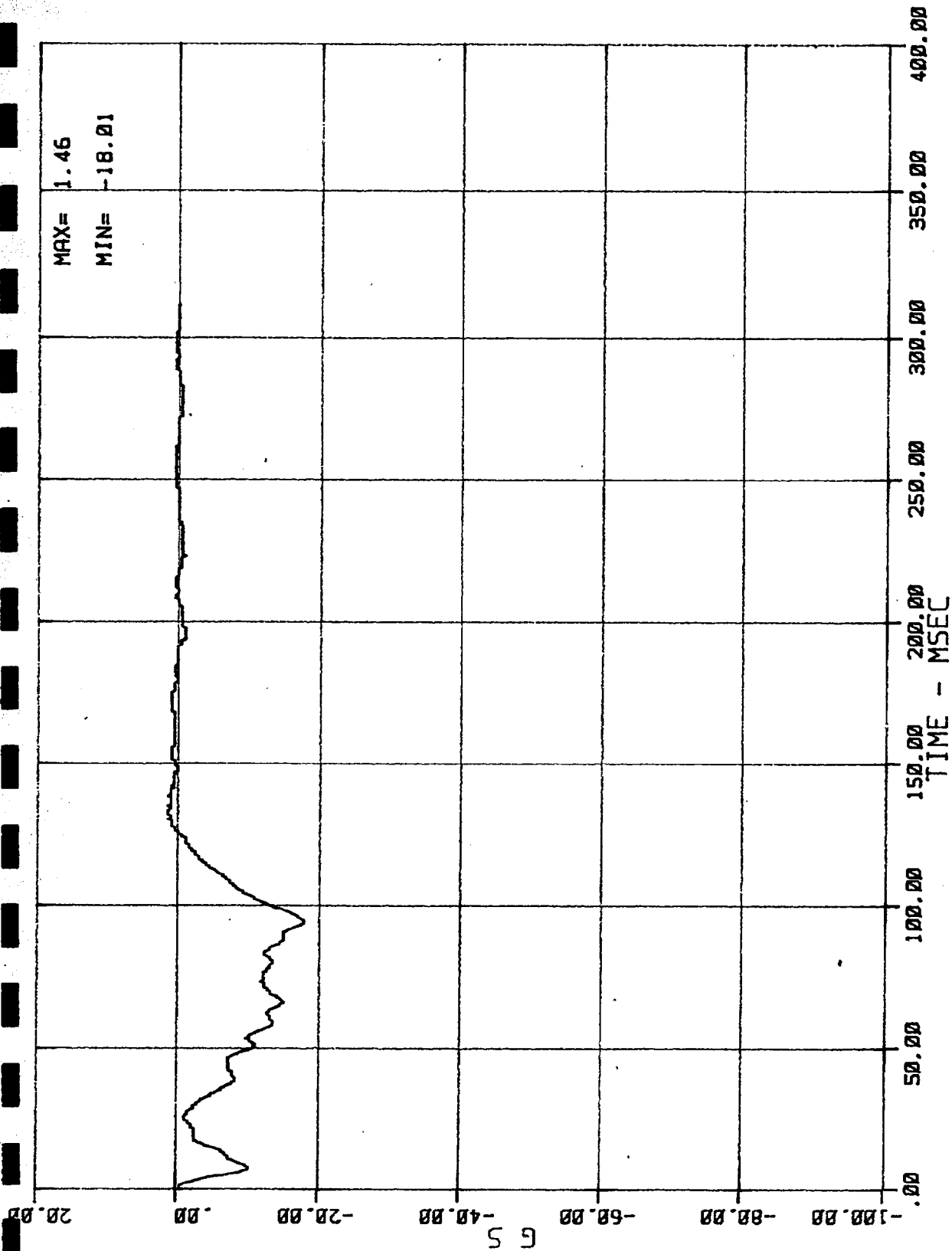
MSE F08013 1981 VW RABBIT

08/30/83



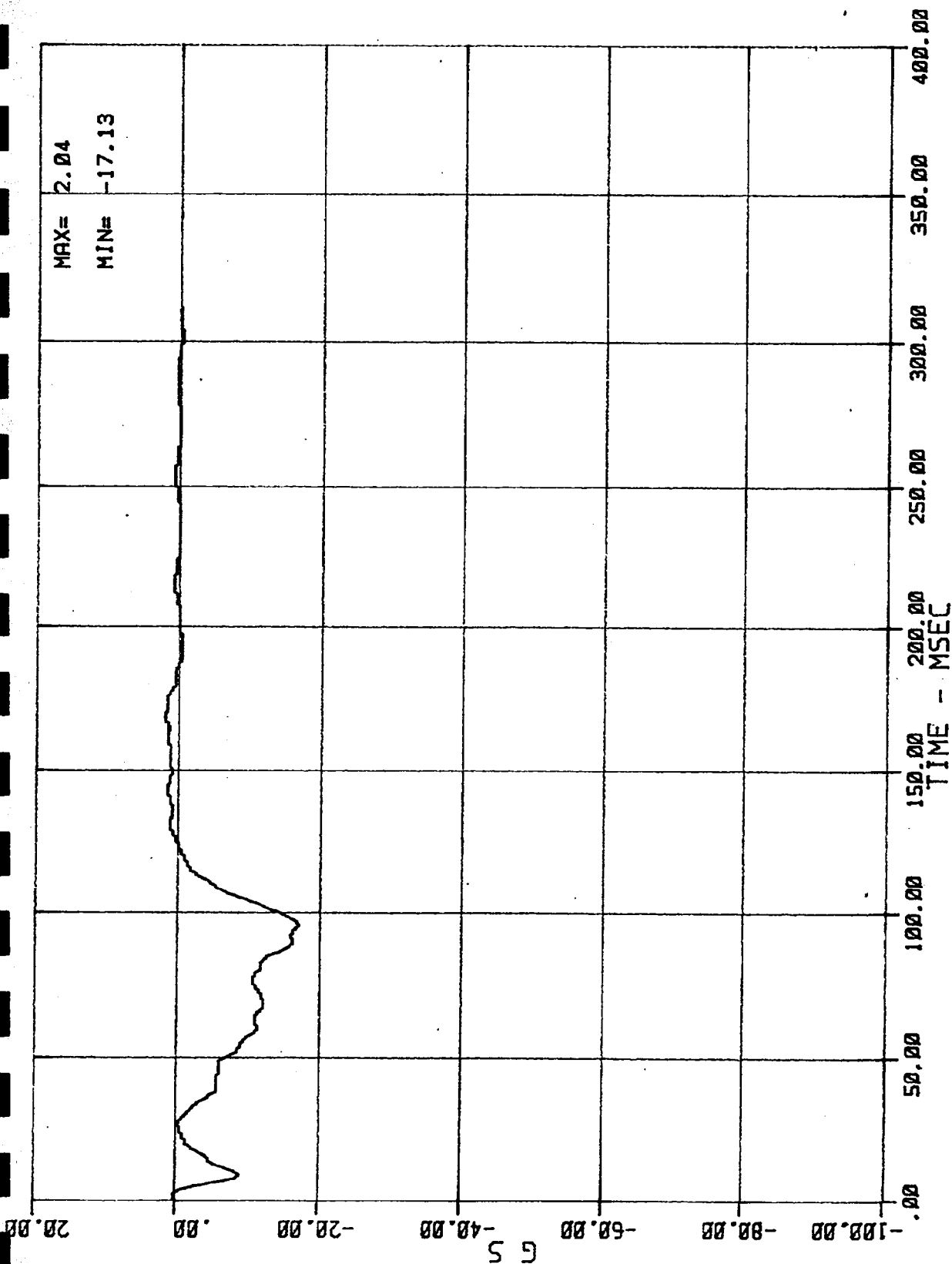
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MSE F08013 1981 VW RABBIT

08/30/83



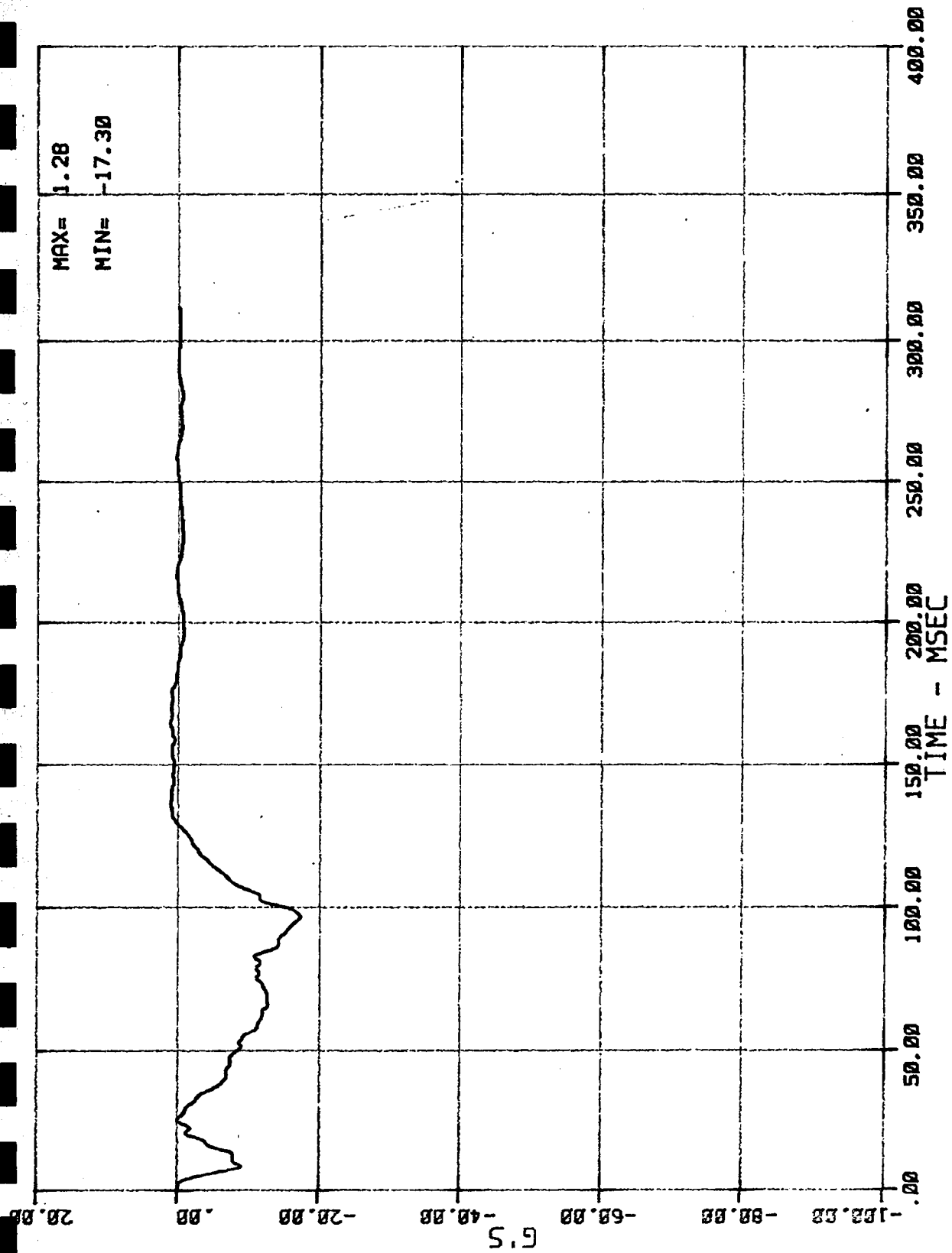
2L AC 01 N LFF X (LEFT FRONT FLOOR ACCEL.)
MSE F08013 1981 VW RABBIT

06/30/83

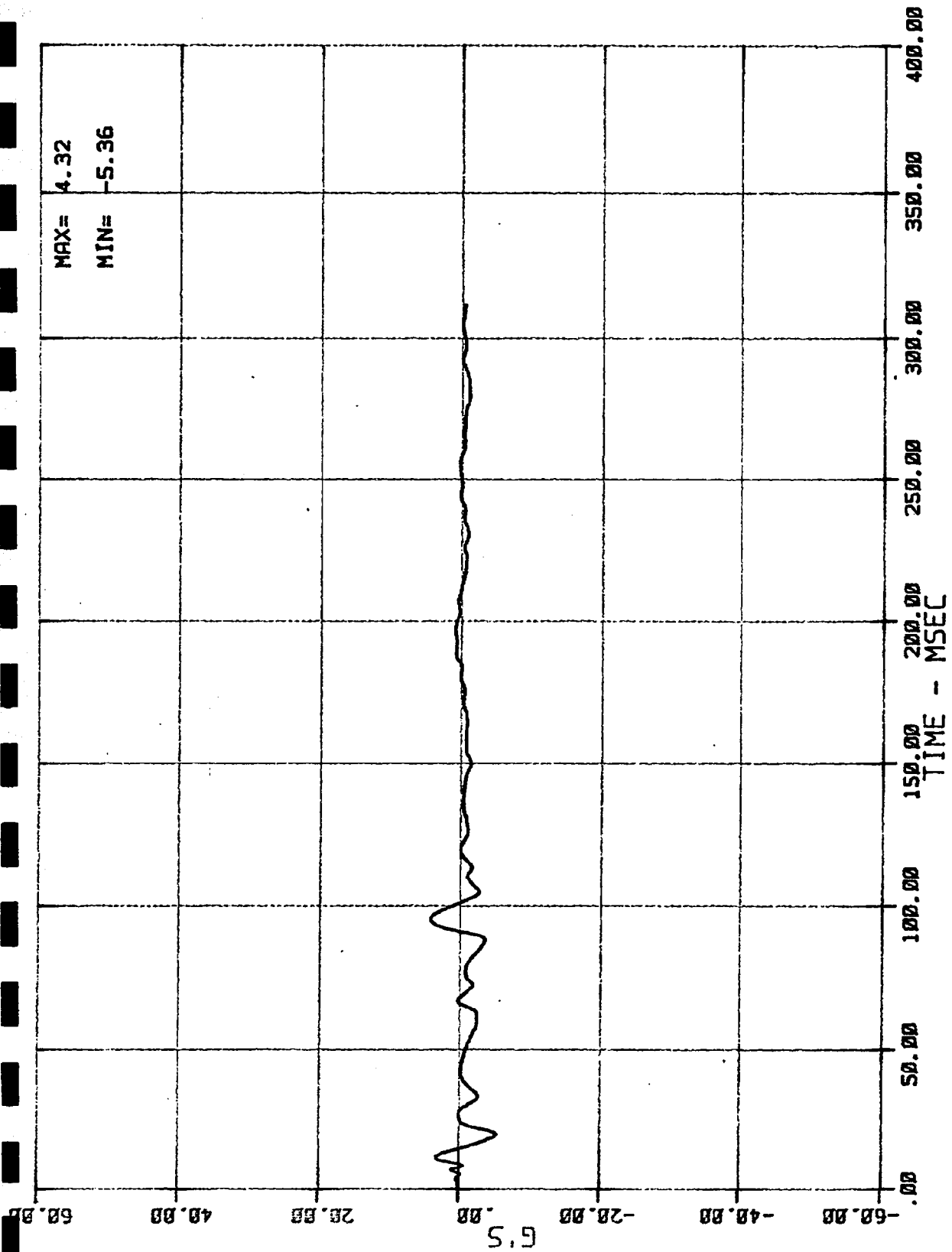


22 AC 01 N RFF X (RIGHT FRONT FLOOR ACCEL.)
MSE F08013 1981 VW RABBIT

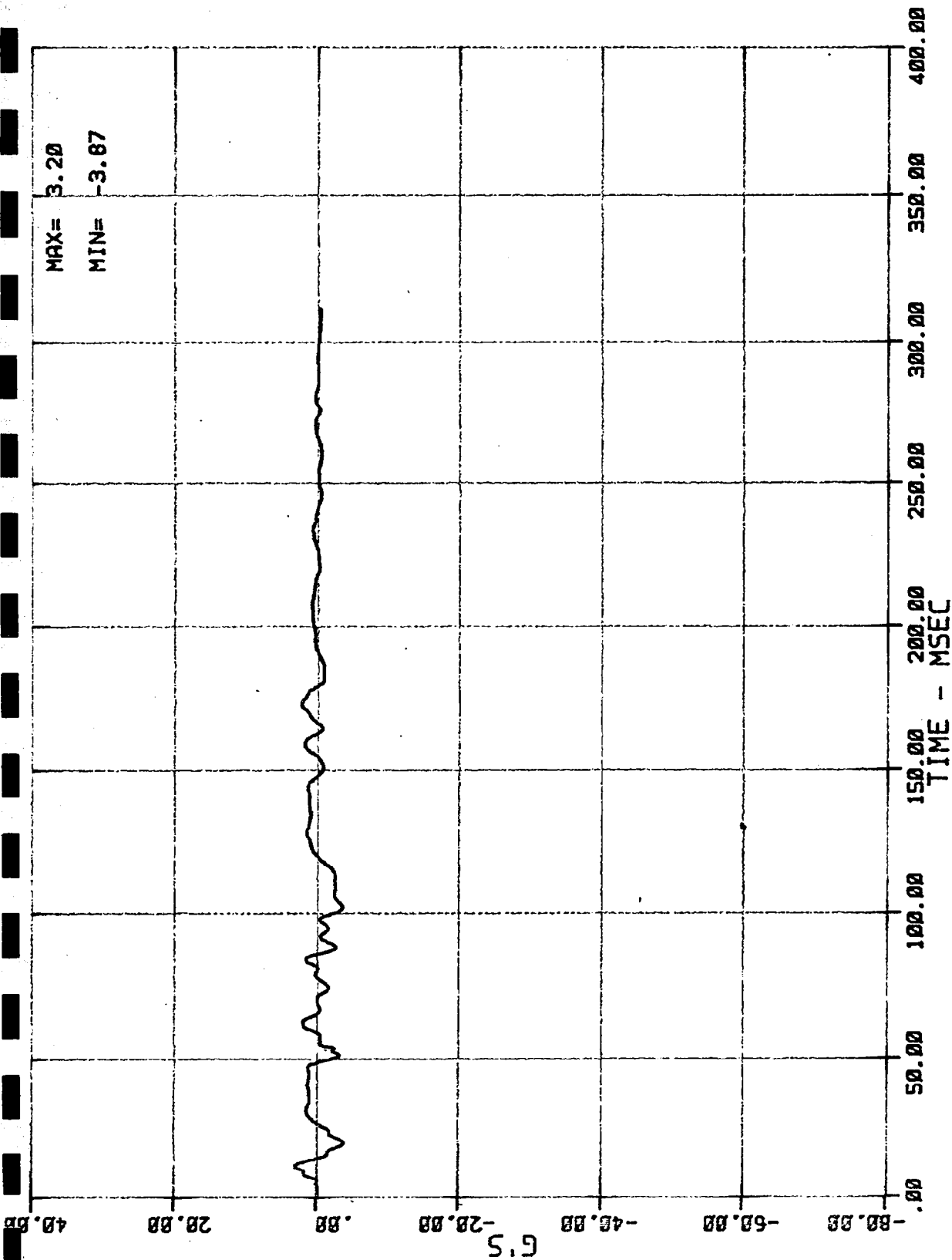
08/30/83



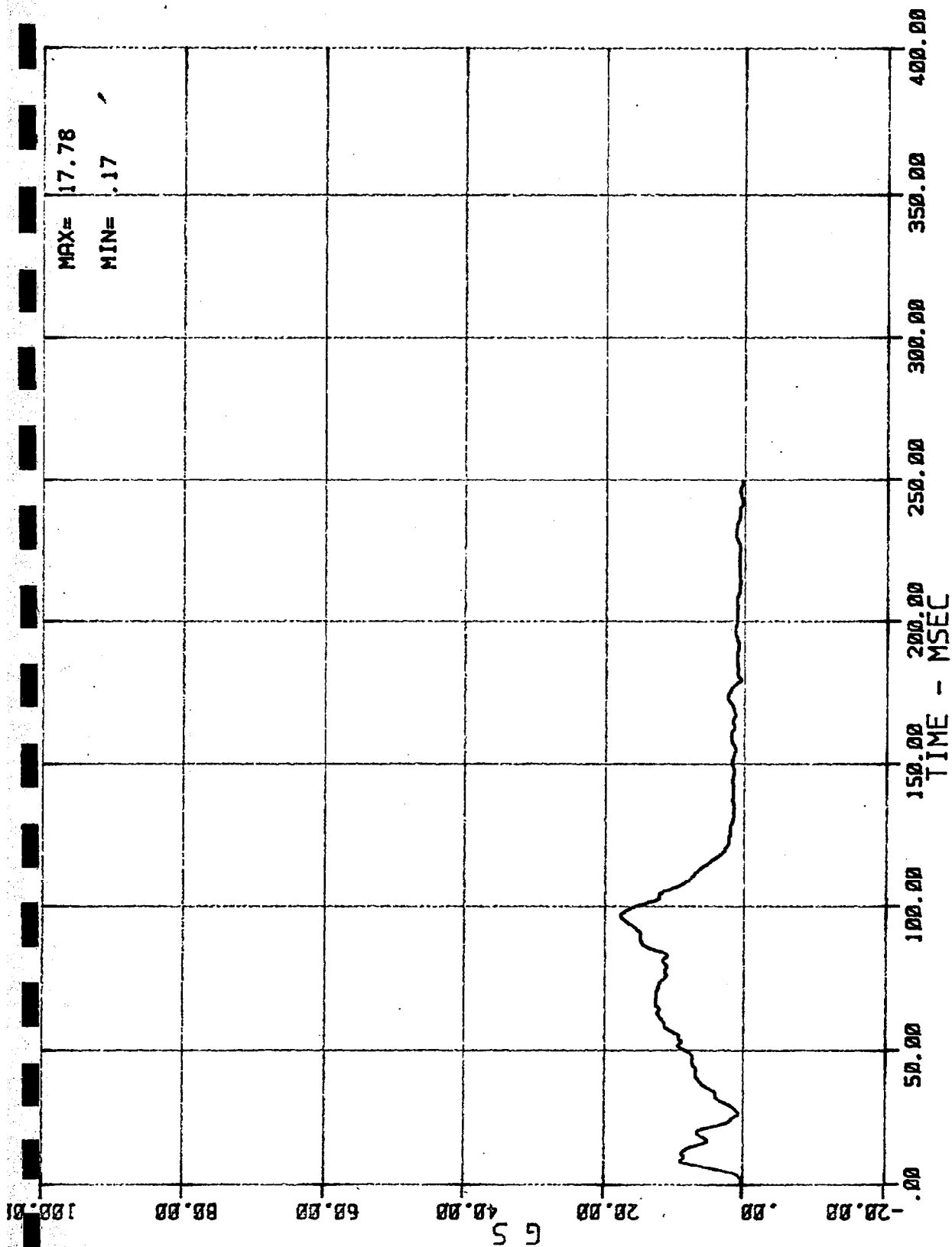
23 AC 01 N VCG X (VEHICLE CG ACCEL. -- X AXIS) CLASS 60 FILTER
MSE F08013 1981 VW RABBIT 08/30/83



24 AC 01 N VCG Y (VEHICLE CG ACCEL. -- Y AXIS) CLASS 60 FILTER
MSE F08013 1981 VW RABBIT 08/30/83

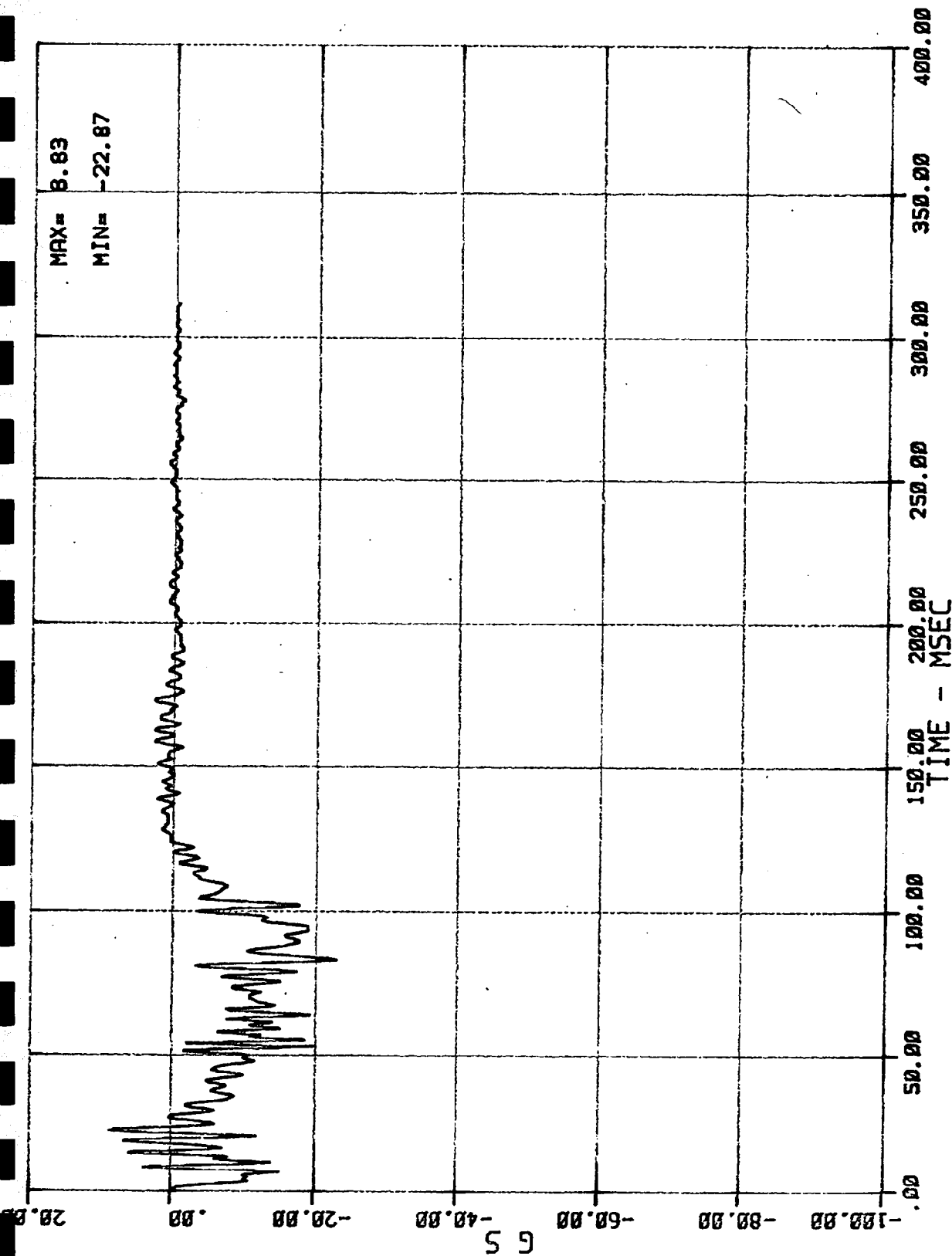


25 AC 01 N VCG Z (VEHICLE CG ACCEL. -- Z AXIS) CLASS 60 FILTER
MSE F06013 1981 VW RABBIT 08/30/83

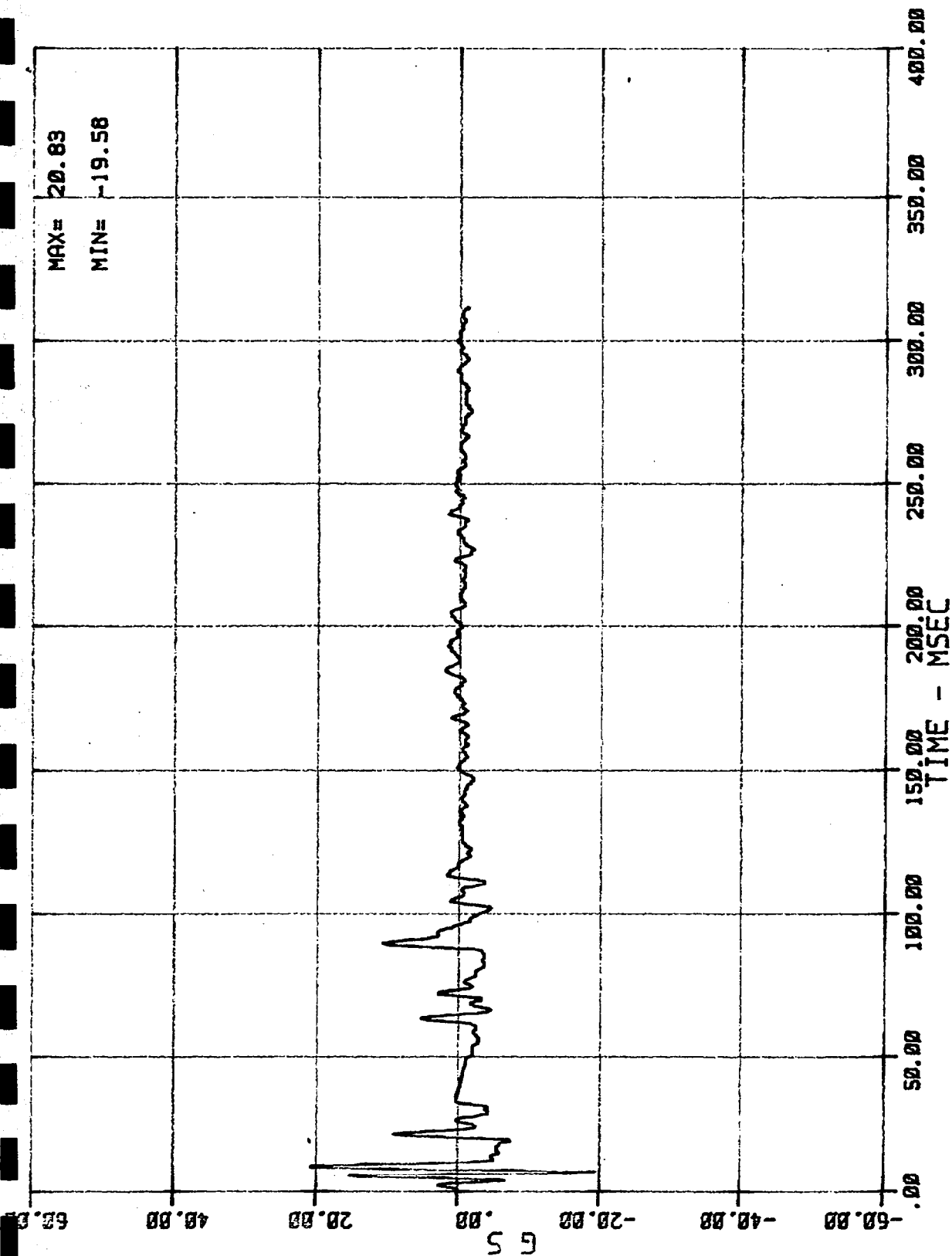


RESULTANT VEHICLE CG ACCEL.
MSE F08013 1981 VW RABBIT

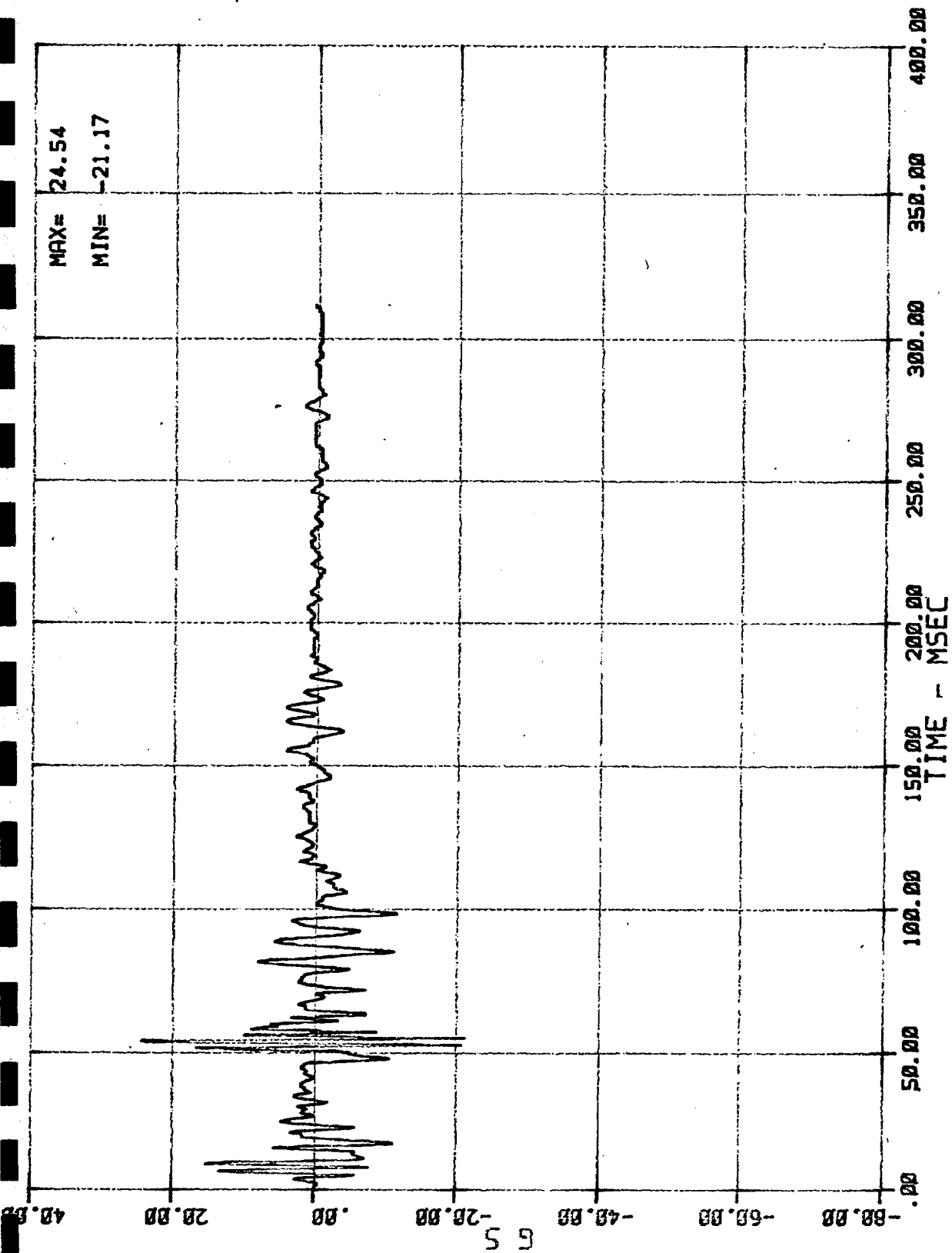
08/30/83



23 AC 01 N VCG X (VEHICLE CG ACCEL. -- X AXIS) CLASS 180 FILTER
MSE F00013 1981 VW RABBIT 08/30/83



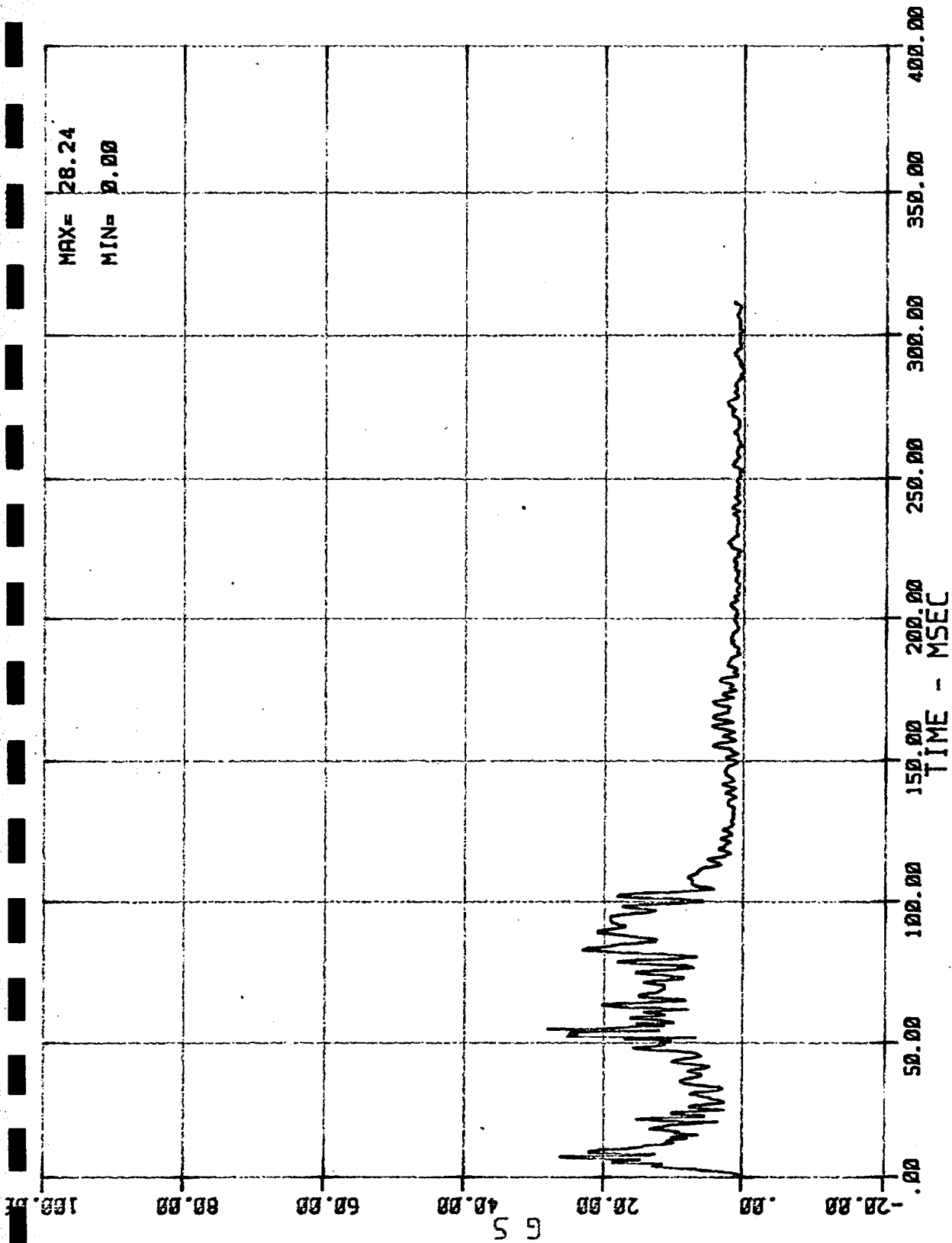
24 AC 01 N VCG Y (VEHICLE CG ACCEL.-- Y AXIS) CLASS 180 FILTER
MSE F08013 1981 VW RABBIT 08/30/83



25 AC 01 N VCG Z (VEHICLE CG ACCEL. --Z AXIS) CLASS 180 FILTER

MSE F08013 1981 VW RABBIT

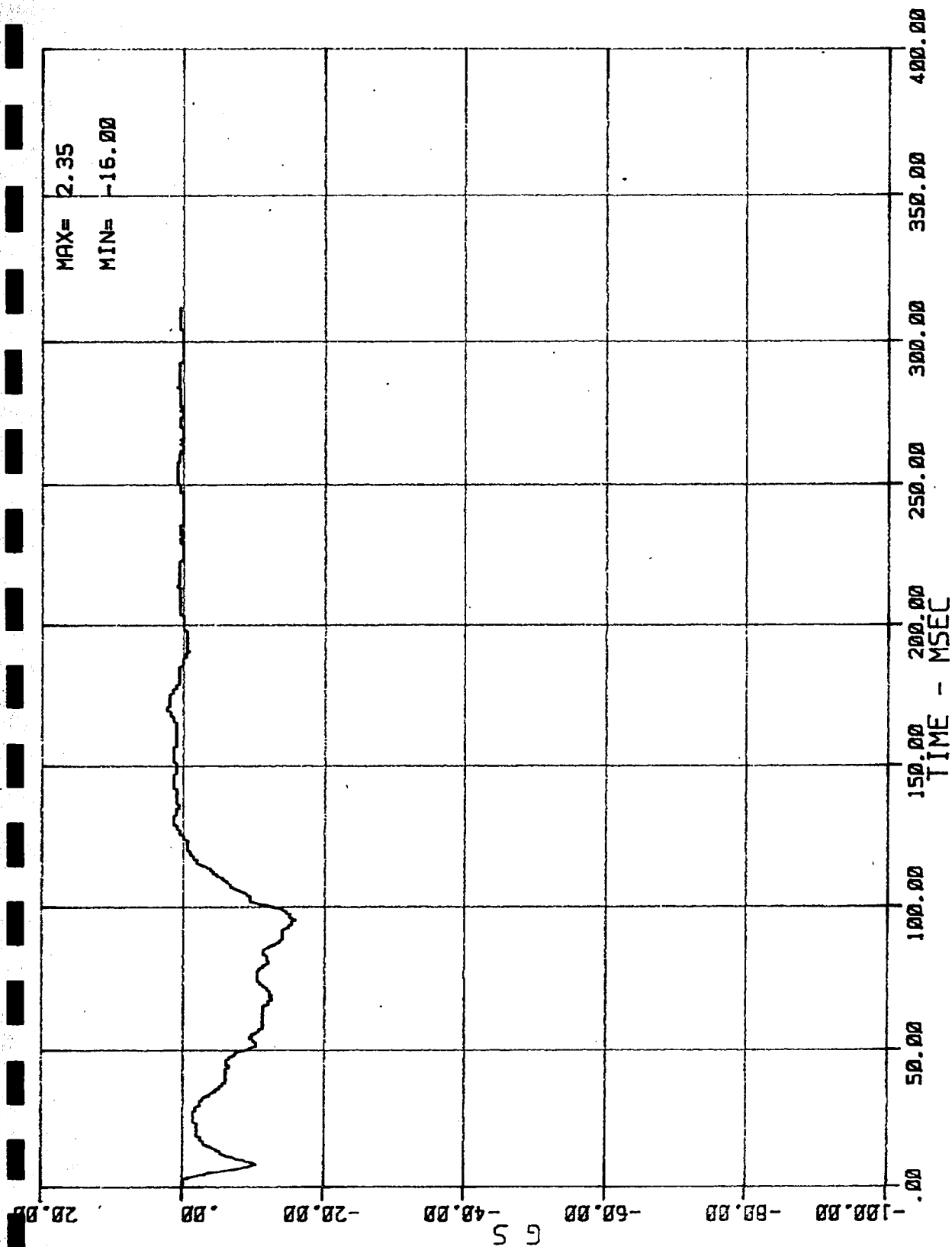
08/30/83



RESULTANT VEHICLE CG ACCEL.
MSE F00013 1981 VW RABBIT

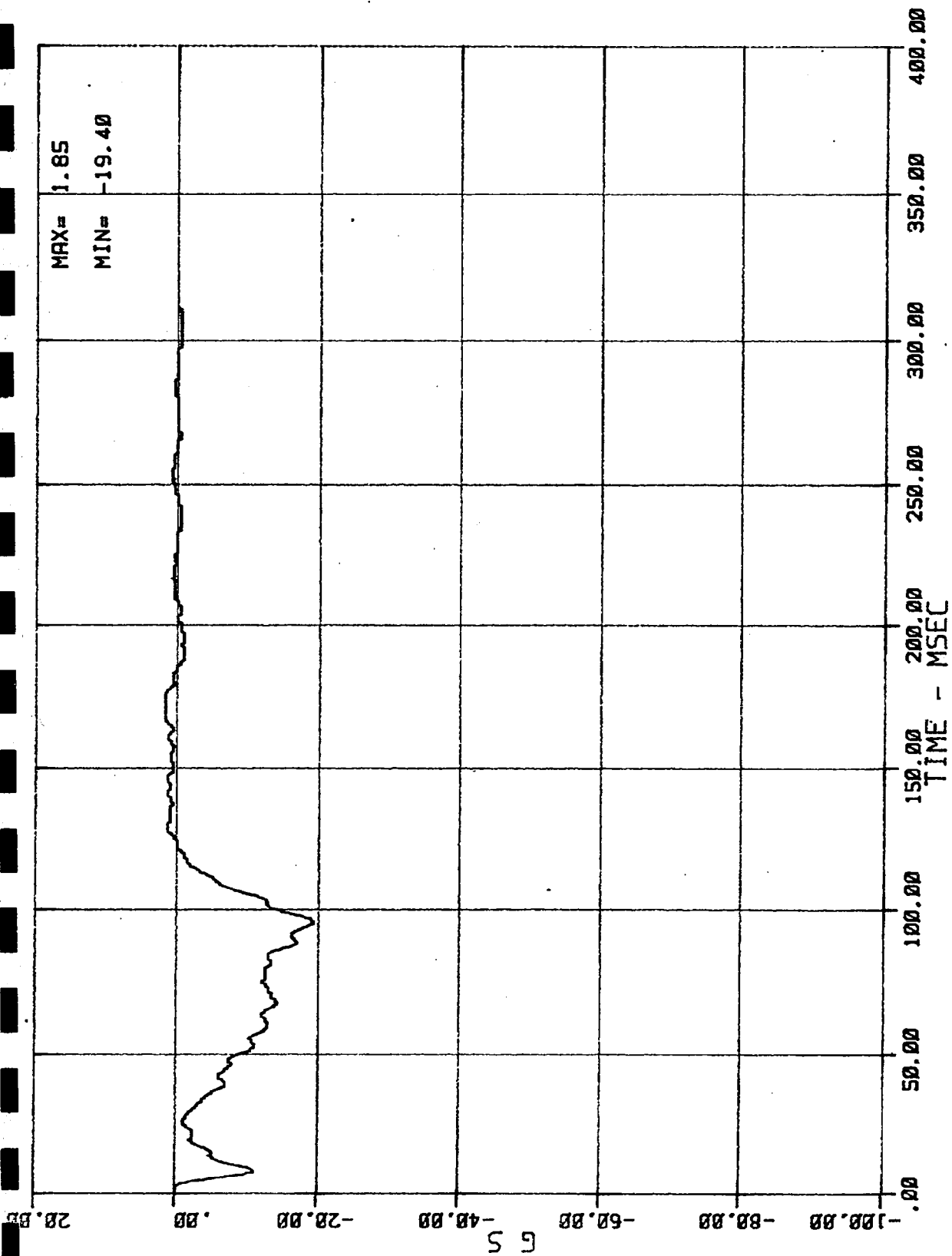
CLASS 180 FILTER

08/30/83



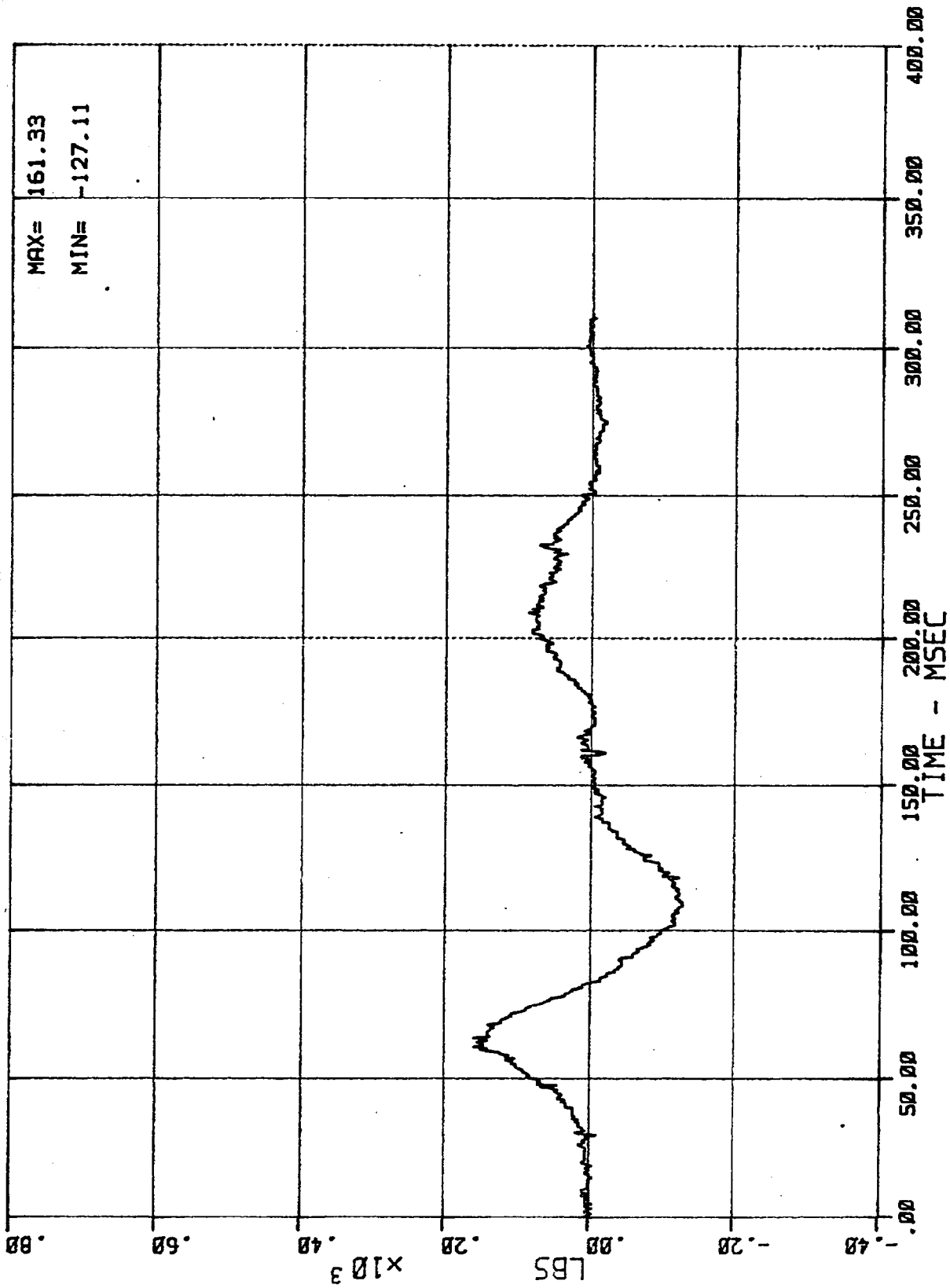
26 AC 01 N LRF X (LEFT REAR FLOOR ACCEL.)
MSE F08013 1981 VW RABBIT

08/30/83



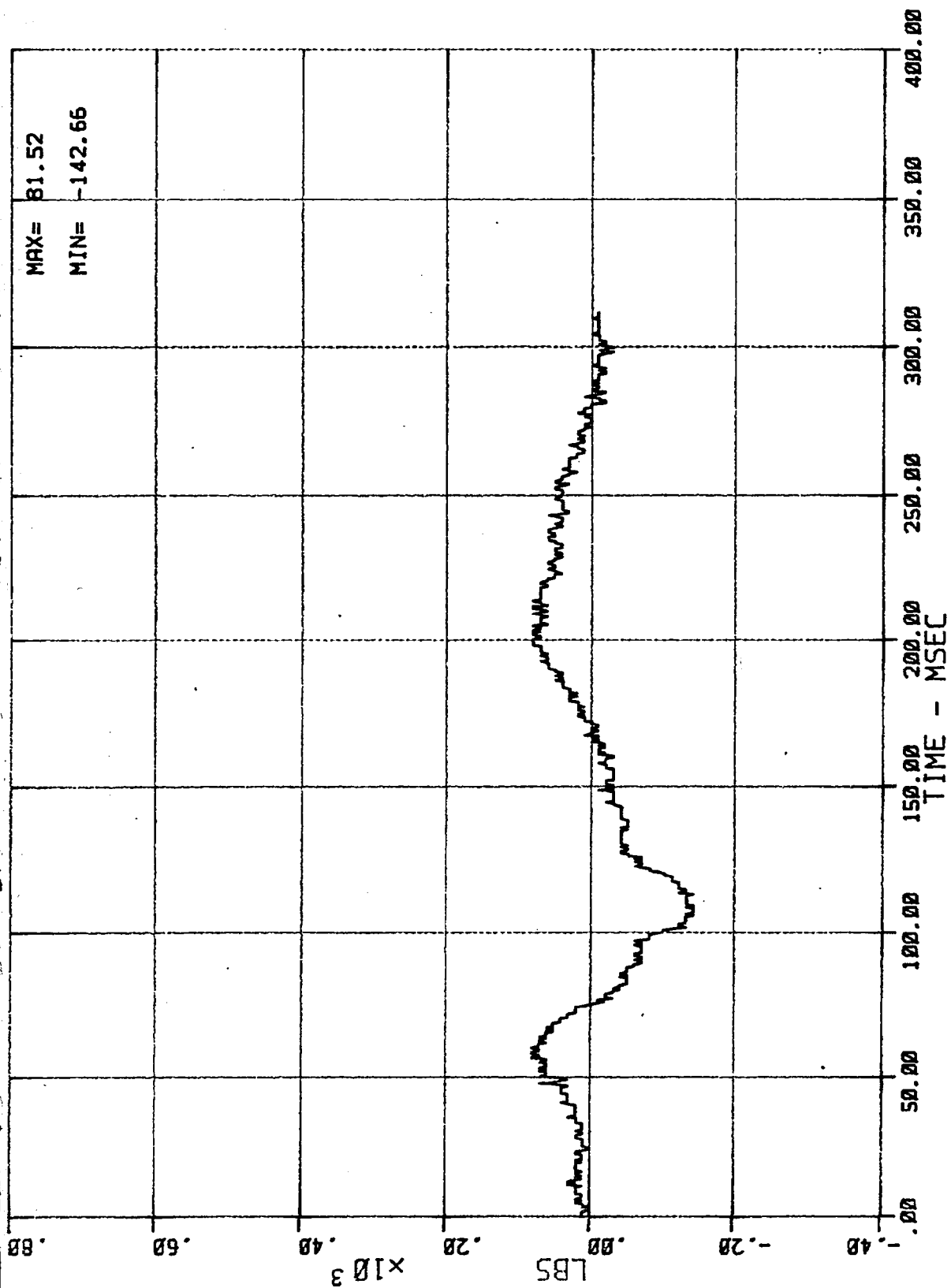
27 AC 01 N RRF X (RIGHT REAR FLOOR ACCEL.)
MSE F08013 1981 VW RABBIT

08/30/83



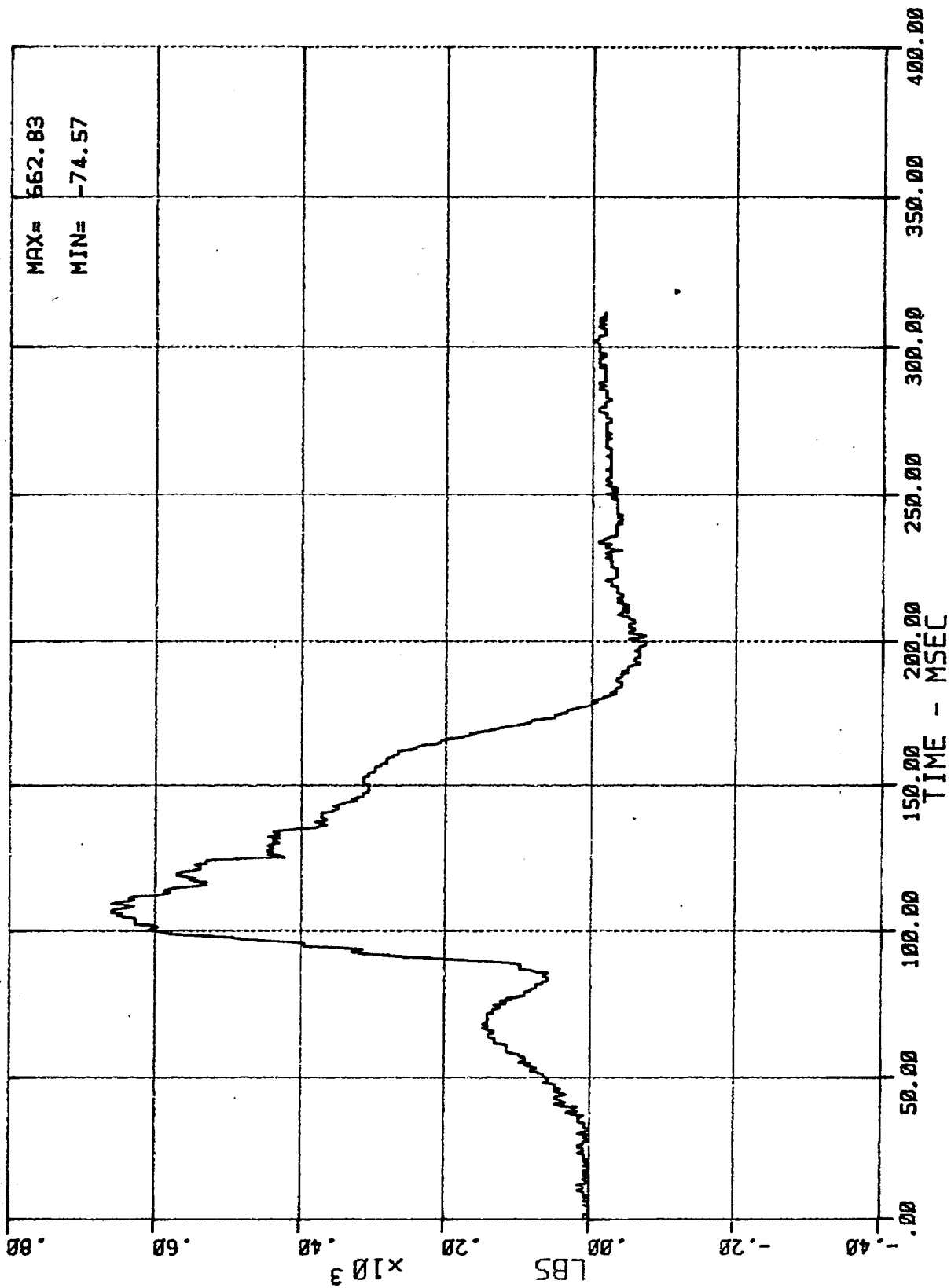
28 LC 01 L LFM (DRIVERS LEFT FEMUR FORCE)
MSE F08013 1981 VW RABBIT

08/30/83



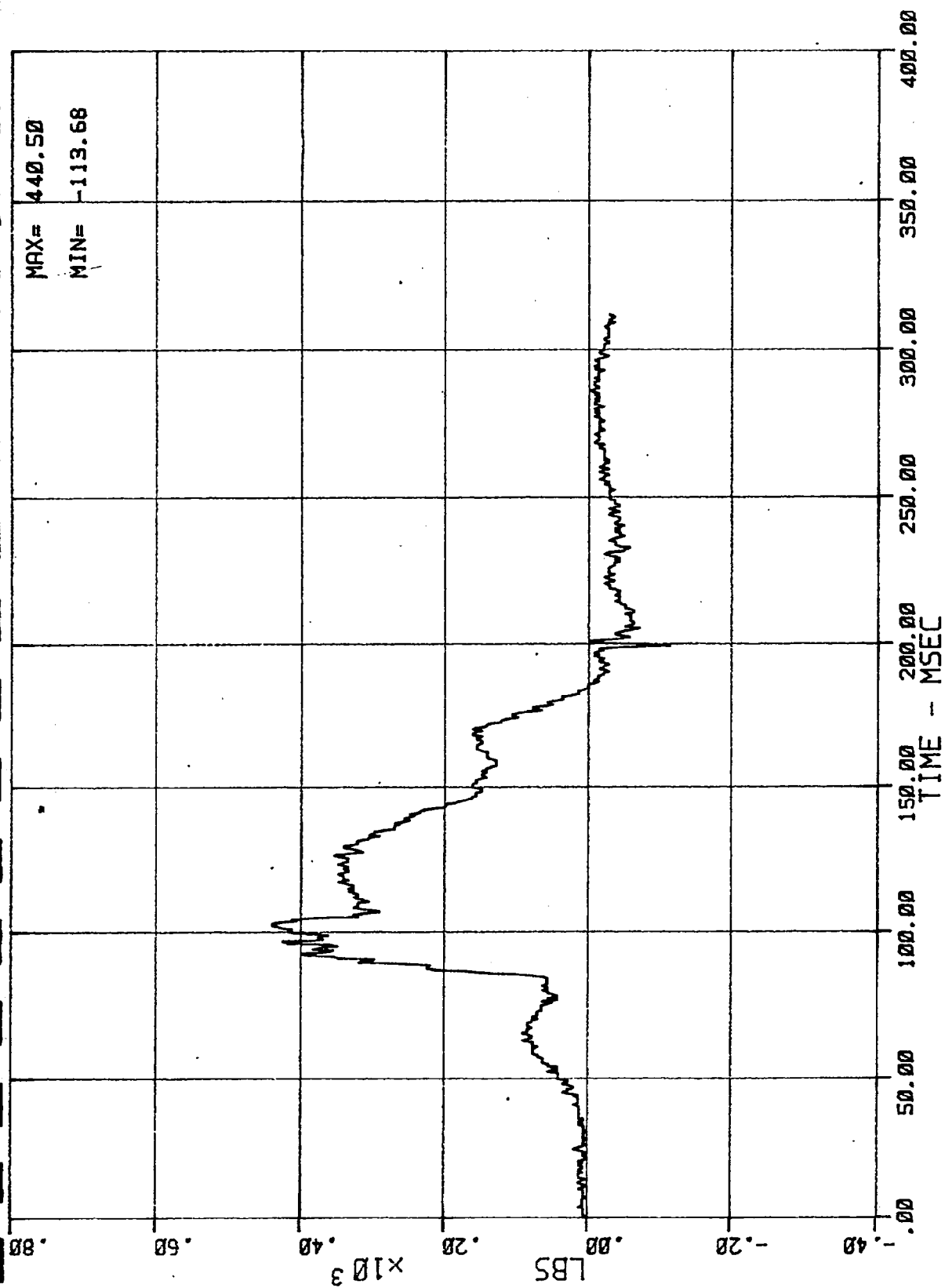
29 LC 01 1 RFM 0 (DRIVERS RIGHT FEMUR FORCE)
MSE F08013 1981 VW RABBIT

08/30/83



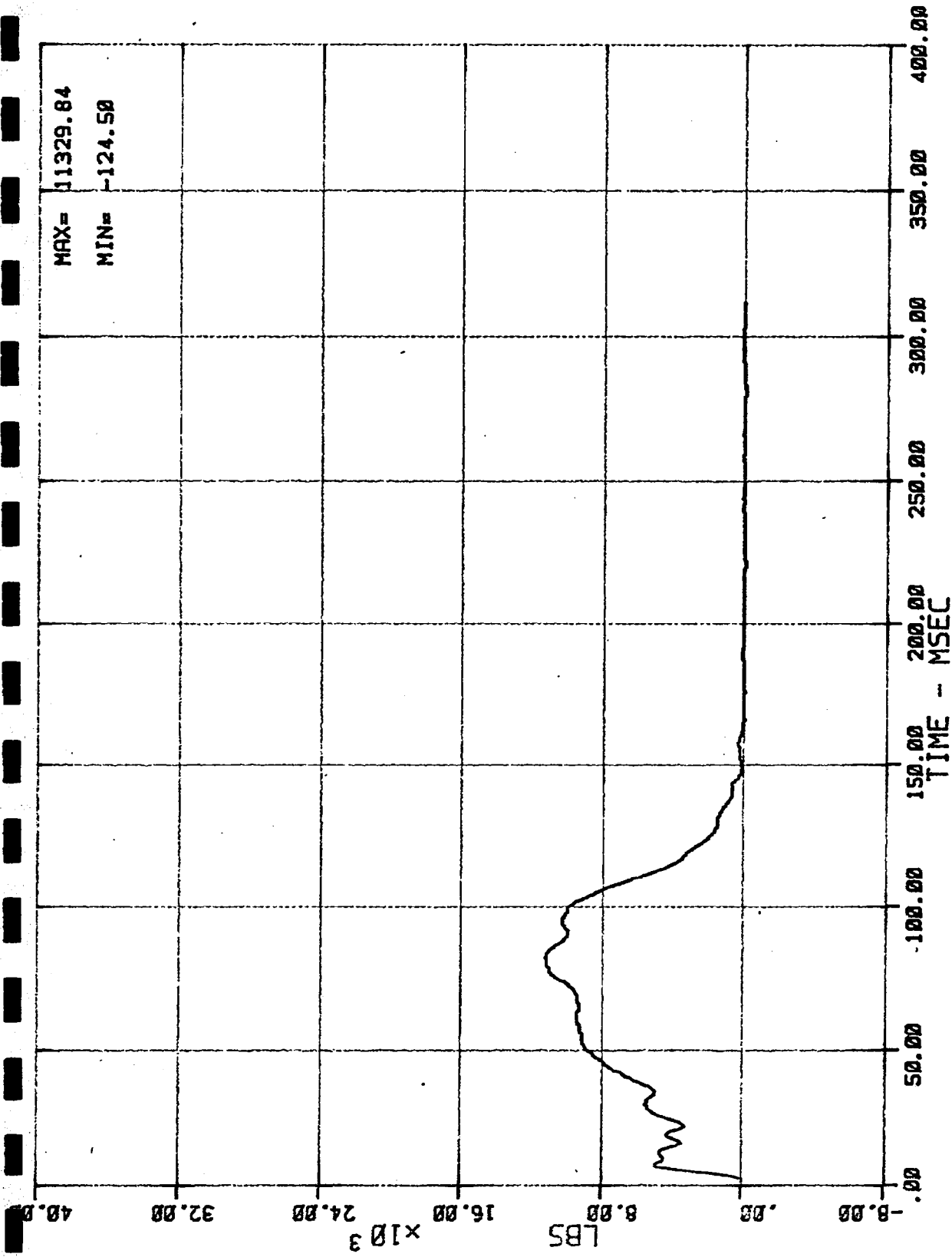
30 LC 01 2 LFM 0 (PASSENGERS LEFT FEMUR FORCE)
MSE F08013 1981 VW RABBIT

08/30/83



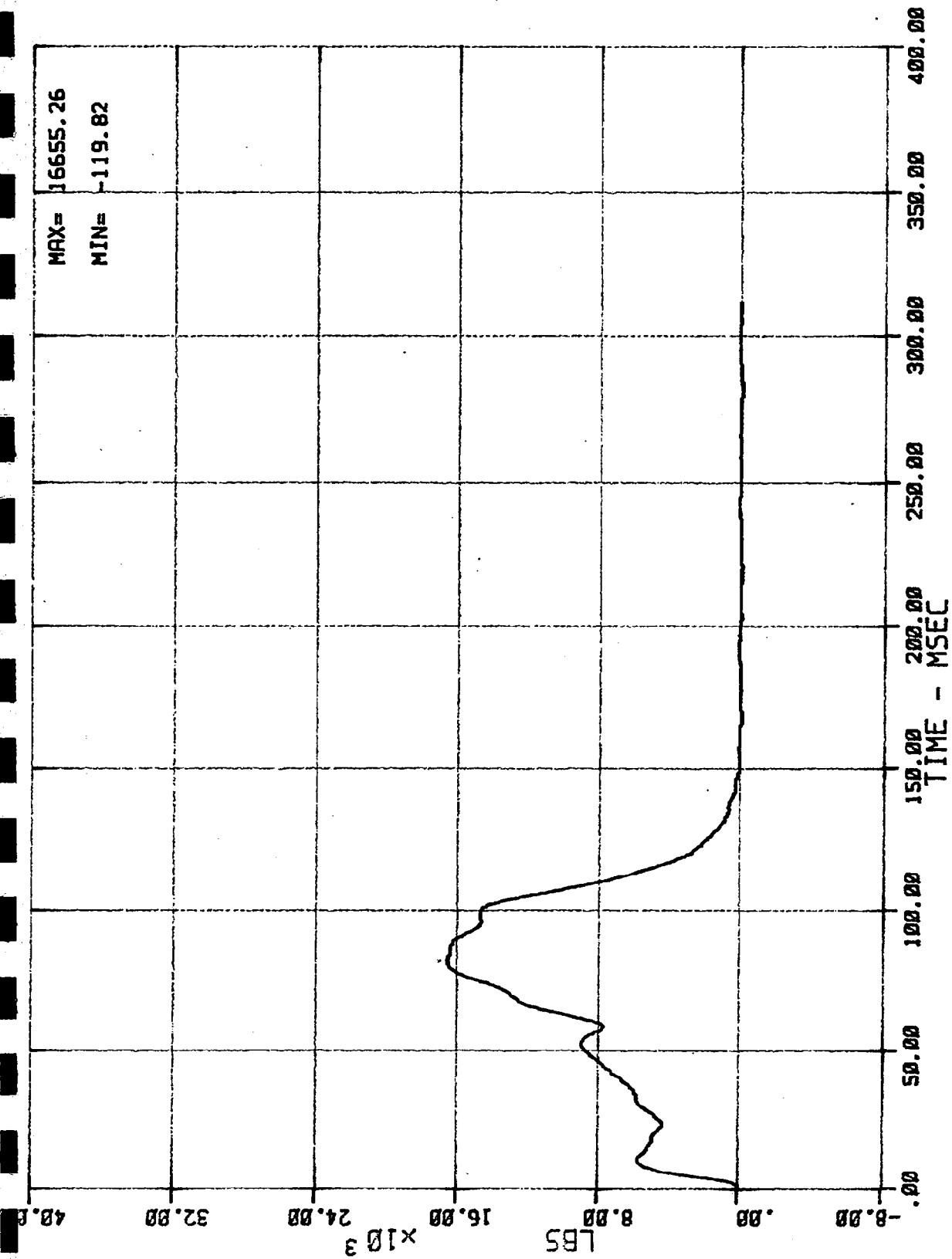
31 LC 01 2 0 (PASSENGERS RIGHT FEMUR FORCE)
MSE F08013 1981 VW RABBIT

08/30/83



32 LC BA N BRC X (UPPER BARRIER LOAD CELL FORCE)
MSE F08013 1981 VW RABBIT

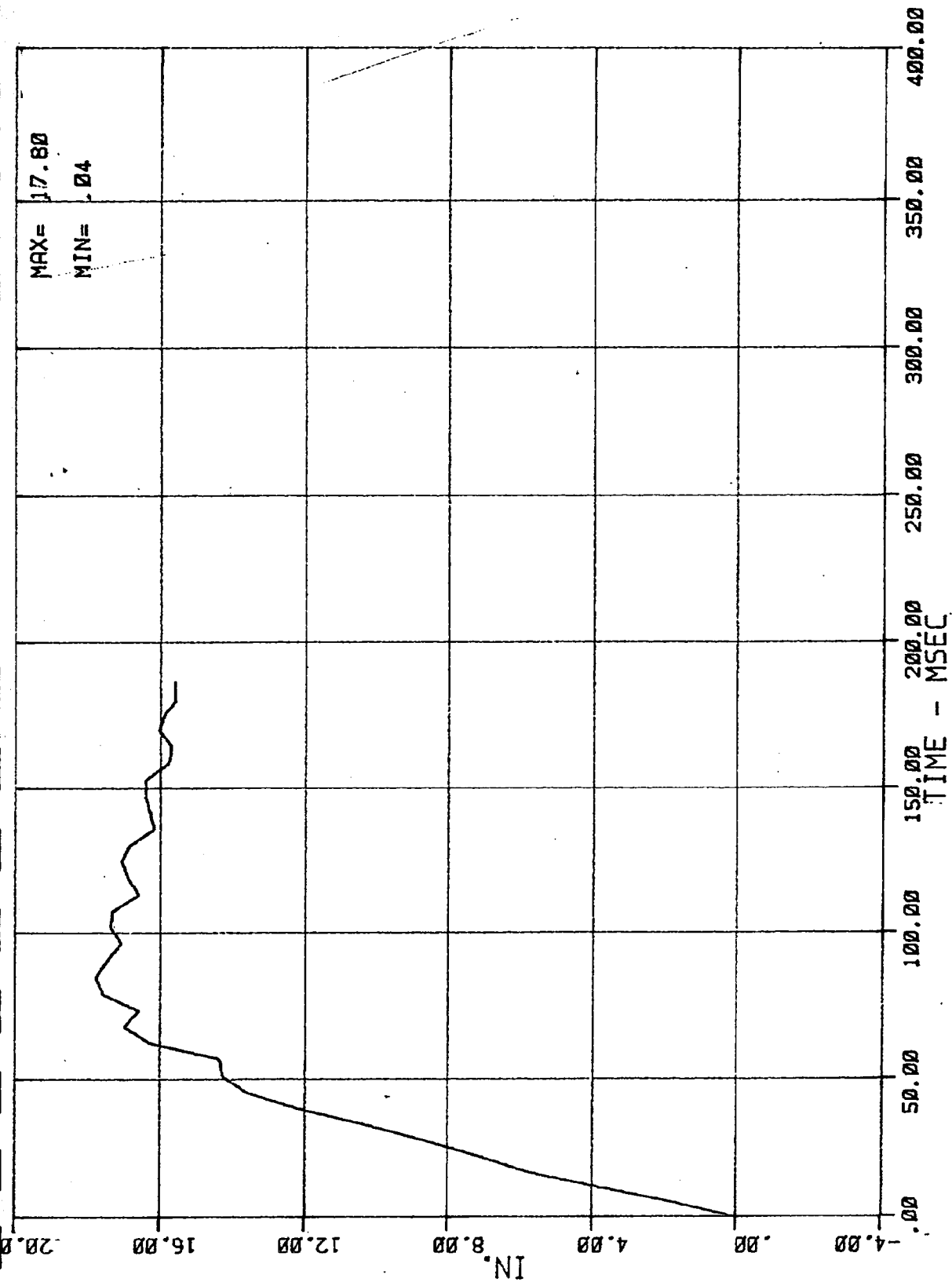
08/30/83



33 LC BA N BRC X (LOWER BARRIER LOAD CELL FORCE)

MSE F08013 1981 VW RABBIT

08/30/83



VEHICLE DISPLACEMENT (DATA FROM HIGH SPEED FILM ANALYSIS)

MSE F08013 1981 VW RABBIT

08/30/83

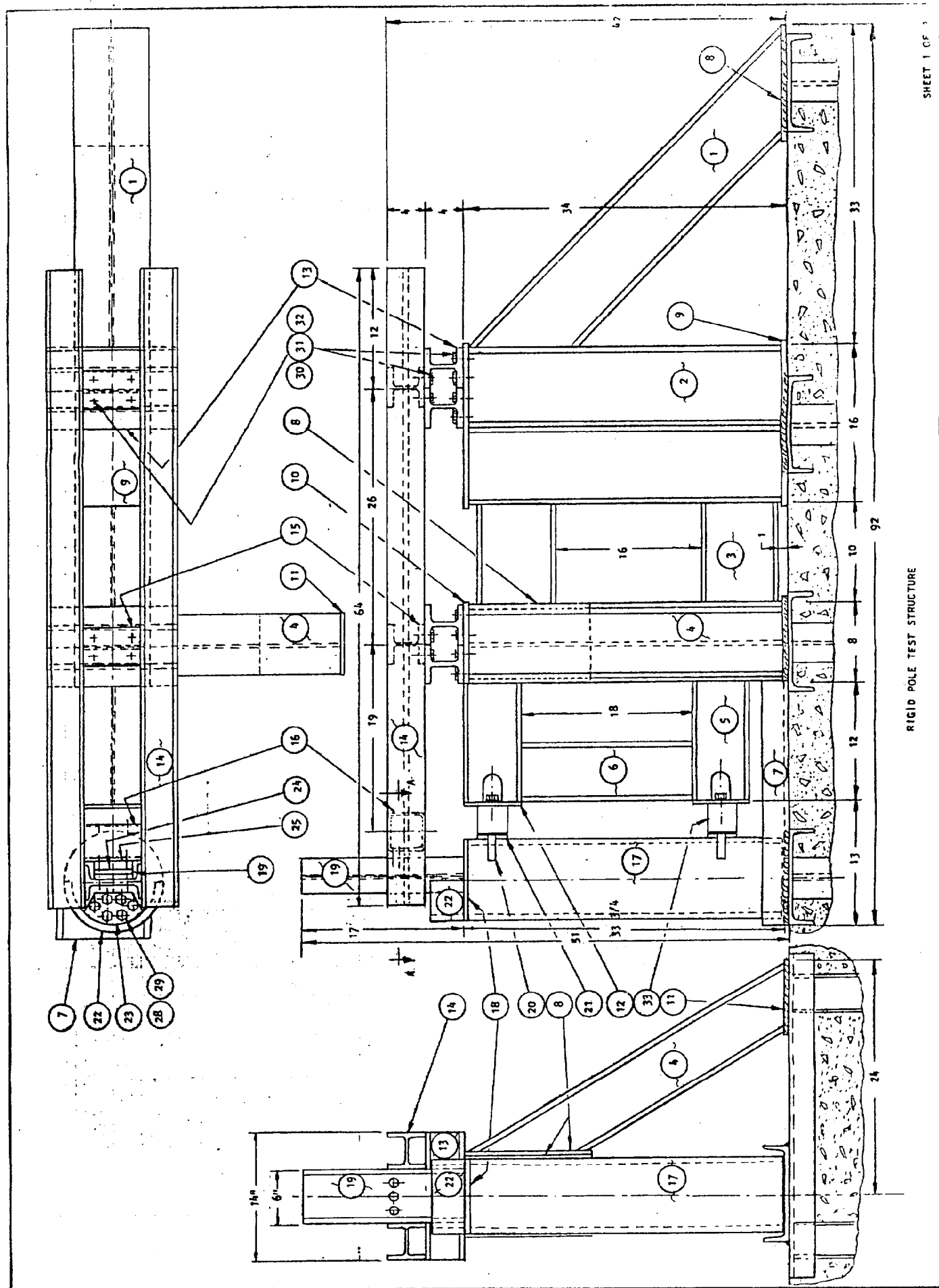
APPENDIX C

TEST ARTICLE CONSTRUCTION DETAILS

APPENDIX C

Small Sign Support Test, Phase I, Rigid Pole Impact Test No. 5

This appendix presents drawings of the Rigid Pole impact article. The reaction structure is rigidly attached to a reinforced concrete (8x8x5 ft. deep) reaction mass that is buried flush with the test track surface.



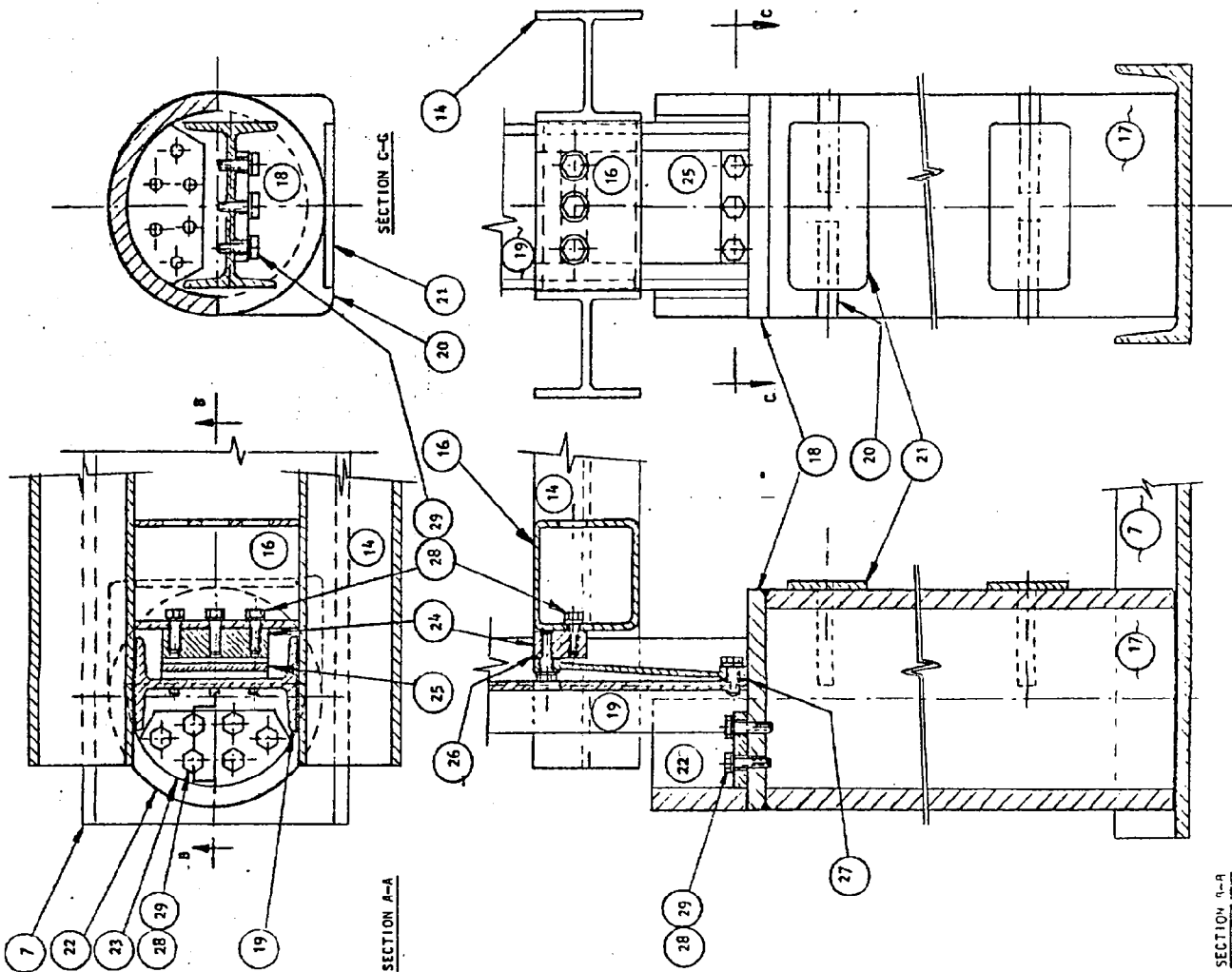
RIGID POLE TEST STRUCTURE

PARTS LIST

ITEM	DESCRIPTION	LENGTH	QUANTITY
1	W 8 X 31	47	1
2	W 8 X 31	33	3
3	W 8 X 31	10	2
4	W 6 X 20	38	1
5	W 6 X 20	12	2
6	W 6 X 20	18	1
7	C 10 X 20	25	1
8	Plate 3/8 X 8	12	3
9	Plate 1/2 X 8	16 1/2	2
10	Plate 1/2 X 8	8 1/4	2
11	Plate 3/8 X 6	9	1
12	Plate 3/8 X 6	6	2
13	W 4 X 13	14	4
14	W 4 X 13	64	2
15	W 4 X 13	6	2
16	Sq. Tub. 4 X 1/4	6	1
17	Pipe, Sch. 120	33	1
18	Plate 3/4 X 8 Dia.	—	1
19	1 Beam 56 X 17.25	17	1
20	Gusset 3/4 X 3 1/2	3 1/2	4
21	Plate 1/4 X 3	6	2
22	Half Tub. 8 Dia. X 3/4	3 1/2	1
23	Plate 1/4 X 3	6	1
24	Plate 1 X 2	4	1
25	Flexure	8	1
26	Shims (As Req.)	4	1
27	Shims (As Req.)	4	1
28	Hexagon Bolt 3/8	1 1/2	15
29	Spring Lock Washer 3/8	—	15
30	Hexagon Bolt 1/2	1 1/2	24
31	Hexagon Nut 1/2	—	24
32	Spring Lock Washer 1/2	—	24
33	Load Cell, Lebow 3674-50 KLBS	—	2

NOTE: Welded Parts: 1 & 12; 14 & 15; 17 & 21; 22 & 23

RIGID POLE TEST STRUCTURE



SECTION A-A

SECTION C-C

SECTION D-D

APPENDIX D

VEHICLE WEIGHT DATA

APPENDIX D

Small Sign Support Test, Phase I, Rigid Pole Impact Test No. 5

1981 VW Rabbit Vehicle Weight Adjustment Data

Weight of Vehicle as Received:

2029 lb.

Weight of Parts Removal:

Rear Seat	27 1/2
Rear Door Windows and Trim	29 1/4
Deck Lid, Jack	33 1/2
Rear Bumper	21 3/4
Rear Door	33
Fuel Tank, Fuel	73
Exhaust Pipe, Muffler	32 3/4
Exhaust Manifold	18 1/2
Air Conditioner Compressor	23 1/4
Fuel Pump	6 1/2
Miscellaneous (Mirrors, Wiper Blades and Motor, Tail Lights, Shift Lever, Fluids, etc.)	45

TOTAL WEIGHT REMOVED:

344

Weight of Equipment Added:

Brake Abort System	22
Instrument Boxes	115
Wiring	10

Inertial Weight of Vehicle:

ATD's	330
-------	-----

Test Weight of Vehicle:

2162

APPENDIX E

MOVING AVERAGE DATA

APPENDIX E

Small Sign Support Test, Phase I, Rigid Pole Impact Test No. 5

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:

F0801383 - X Axis Class 180 Filter
F0801384 - Y Axis Class 180 Filter
F0801385 - Z Axis Class 180 Filter

F0801363 - X Axis Class 60 Filter
F0801364 - Y Axis Class 60 Filter
F0801365 - Z Axis Class 60 Filter

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

FILE NAME B:F0001383.A10

DELTA= .13 MSEC: 8000.0 S/SEC.

NO. POINTS= 2860 END TIME= 357.50 MSEC.

TIME :											
.045:	-6.08	-6.07	-6.08	-6.11	-6.16	-6.24	-6.34	-6.46	-6.60	-6.75	
.046:	-6.91	-7.08	-7.25	-7.41	-7.57	-7.79	-7.83	-7.93	-8.01	-8.08	
.048:	-8.13	-8.17	-8.20	-8.23	-8.25	-8.27	-8.29	-8.31	-8.32	-8.33	
.049:	-8.32	-8.30	-8.26	-8.20	-8.11	-7.99	-7.86	-7.69	-7.51	-7.32	
.050:	-7.12	-6.91	-6.71	-6.51	-6.32	-6.14	-5.99	-5.85	-5.74	-5.64	
.051:	-5.57	-5.51	-5.45	-5.41	-5.37	-5.33	-5.29	-5.23	-5.16	-5.08	
.053:	-4.99	-4.88	-4.76	-4.62	-4.48	-4.34	-4.21	-4.08	-3.96	-3.86	
.054:	-3.78	-3.71	-3.65	-3.60	-3.56	-3.52	-3.49	-3.45	-3.41	-3.36	
.055:	-3.32	-3.27	-3.22	-3.17	-3.13	-3.08	-3.04	-3.00	-2.97	-2.93	
.056:	-2.91	-2.88	-2.86	-2.84	-2.83	-2.81	-2.79	-2.77	-2.73	-2.69	
.058:	-2.62	-2.54	-2.44	-2.31	-2.16	-1.99	-1.80	-1.60	-1.38	-1.16	
.059:	-.95	-.75	-.57	-.42	-.30	-.23	-.19	-.20	-.24	-.32	
.060:	-.42	-.53	-.65	-.78	-.90	-1.01	-1.10	-1.18	-1.23	-1.27	
.061:	-1.30	-1.30	-1.30	-1.28	-1.26	-1.22	-1.18	-1.14	-1.09	-1.04	
.063:	-.98	-.93	-.87	-.82	-.76	-.72	-.68	-.66	-.64	-.64	
.064:	-.66	-.69	-.74	-.81	-.89	-.99	-1.10	-1.22	-1.34	-1.47	
.065:	-1.59	-1.70	-1.80	-1.89	-1.96	-2.00	-2.02	-2.01	-1.98	-1.93	
.066:	-1.86	-1.78	-1.68	-1.58	-1.48	-1.39	-1.31	-1.24	-1.20	-1.19	
.068:	-1.19	-1.22	-1.27	-1.35	-1.45	-1.56	-1.70	-1.84	-2.00	-2.16	
.069:	-2.33	-2.50	-2.66	-2.82	-2.98	-3.13	-3.26	-3.38	-3.48	-3.57	
.070:	-3.65	-3.72	-3.78	-3.83	-3.87	-3.91	-3.95	-3.98	-4.01	-4.05	
.071:	-4.08	-4.11	-4.15	-4.19	-4.22	-4.26	-4.30	-4.34	-4.39	-4.44	
.073:	-4.49	-4.55	-4.62	-4.69	-4.76	-4.83	-4.91	-4.99	-5.07	-5.15	
.074:	-5.23	-5.32	-5.40	-5.49	-5.57	-5.65	-5.72	-5.79	-5.85	-5.90	
.075:	-5.95	-5.98	-6.01	-6.02	-6.03	-6.03	-6.02	-6.01	-6.00	-5.99	
.076:	-5.98	-5.98	-5.98	-5.99	-6.00	-6.03	-6.07	-6.12	-6.17	-6.24	
.078:	-6.31	-6.39	-6.48	-6.57	-6.66	-6.76	-6.85	-6.93	-7.02	-7.09	
.079:	-7.16	-7.22	-7.26	-7.30	-7.32	-7.34	-7.34	-7.34	-7.33	-7.31	
.080:	-7.29	-7.26	-7.23	-7.20	-7.16	-7.13	-7.09	-7.05	-7.01	-6.98	
.081:	-6.95	-6.92	-6.90	-6.88	-6.87	-6.87	-6.88	-6.89	-6.91	-6.94	
.083:	-6.98	-7.02	-7.08	-7.13	-7.20	-7.26	-7.34	-7.41	-7.48	-7.54	
.084:	-7.60	-7.65	-7.69	-7.73	-7.76	-7.79	-7.82	-7.85	-7.88	-7.91	
.085:	-7.94	-7.98	-8.02	-8.07	-8.13	-8.19	-8.25	-8.31	-8.36	-8.40	
.086:	-8.42	-8.43	-8.42	-8.39	-8.35	-8.31	-8.26	-8.21	-8.18	-8.15	
.088:	-8.15	-8.16	-8.19	-8.24	-8.32	-8.42	-8.53	-8.65	-8.77	-8.86	
.089:	-8.92	-8.95	-8.94	-8.90	-8.84	-8.77	-8.70	-8.64	-8.61	-8.62	
.090:	-8.66	-8.75	-8.87	-9.02	-9.19	-9.37	-9.54	-9.70	-9.84	-9.96	
.091:	-10.06	-10.13	-10.19	-10.24	-10.28	-10.33	-10.37	-10.42	-10.47	-10.52	
.093:	-10.56	-10.60	-10.61	-10.61	-10.59	-10.56	-10.50	-10.44	-10.38	-10.33	
.094:	-10.29	-10.27	-10.28	-10.30	-10.35	-10.41	-10.48	-10.55	-10.62	-10.68	
.095:	-10.73	-10.77	-10.79	-10.81	-10.81	-10.80	-10.80	-10.81	-10.83	-10.88	
.096:	-10.95	-11.05	-11.18	-11.32	-11.48	-11.63	-11.79	-11.92	-12.02	-12.10	
.098:	-12.13	-12.14	-12.10	-12.04	-11.94	-11.81	-11.68	-11.55	-11.45	-11.38	
.099:	-11.36	-11.39	-11.49	-11.63	-11.82	-12.03	-12.24	-12.44	-12.62	-12.76	
.100:	-12.85	-12.89	-12.88	-12.83	-12.74	-12.63	-12.50	-12.37	-12.25	-12.15	
.101:	-12.07	-12.01	-11.97	-11.95	-11.94	-11.93	-11.94	-11.94	-11.95	-11.97	
.103:	-11.99	-12.02	-12.06	-12.11	-12.17	-12.25	-12.33	-12.42	-12.50	-12.57	
.104:	-12.62	-12.66	-12.67	-12.67	-12.64	-12.60	-12.56	-12.51	-12.45	-12.41	

Vehicle c.g., X-Axis, 10 msec Avg. (cont'd.)

TIME :											
.105:	-12.37	-12.34	-12.33	-12.32	-12.32	-12.33	-12.33	-12.33	-12.33	-12.32	
.106:	-12.30	-12.27	-12.23	-12.19	-12.16	-12.12	-12.10	-12.09	-12.09	-12.11	
.108:	-12.14	-12.13	-12.22	-12.27	-12.32	-12.34	-12.39	-12.39	-12.38	-12.34	
.109:	-12.28	-12.20	-12.10	-11.99	-11.86	-11.73	-11.59	-11.46	-11.34	-11.24	
.110:	-11.15	-11.09	-11.05	-11.04	-11.06	-11.10	-11.16	-11.25	-11.34	-11.44	
.111:	-11.54	-11.63	-11.72	-11.79	-11.84	-11.87	-11.87	-11.85	-11.82	-11.76	
.113:	-11.69	-11.61	-11.52	-11.43	-11.34	-11.25	-11.17	-11.09	-11.03	-10.99	
.114:	-10.95	-10.94	-10.94	-10.95	-10.98	-11.03	-11.08	-11.14	-11.21	-11.29	
.115:	-11.36	-11.43	-11.49	-11.55	-11.59	-11.61	-11.62	-11.61	-11.58	-11.53	
.116:	-11.47	-11.39	-11.30	-11.20	-11.09	-10.98	-10.88	-10.78	-10.69	-10.62	
.118:	-10.57	-10.53	-10.53	-10.54	-10.59	-10.65	-10.75	-10.87	-11.01	-11.17	
.119:	-11.34	-11.52	-11.70	-11.89	-12.07	-12.24	-12.40	-12.55	-12.68	-12.80	
.120:	-12.90	-12.98	-13.04	-13.08	-13.11	-13.12	-13.11	-13.09	-13.06	-13.02	
.121:	-12.97	-12.92	-12.87	-12.82	-12.78	-12.75	-12.74	-12.74	-12.75	-12.78	
.123:	-12.82	-12.88	-12.94	-13.02	-13.10	-13.18	-13.27	-13.36	-13.45	-13.52	
.124:	-13.59	-13.65	-13.70	-13.74	-13.77	-13.80	-13.81	-13.82	-13.82	-13.83	
.125:	-13.83	-13.84	-13.86	-13.89	-13.93	-13.99	-14.06	-14.15	-14.25	-14.37	
.126:	-14.50	-14.64	-14.80	-14.96	-15.12	-15.28	-15.42	-15.56	-15.69	-15.80	
.128:	-15.90	-15.98	-16.04	-16.08	-16.11	-16.12	-16.11	-16.09	-16.06	-16.02	
.129:	-15.97	-15.92	-15.87	-15.82	-15.77	-15.73	-15.70	-15.68	-15.66	-15.66	
.130:	-15.66	-15.68	-15.70	-15.74	-15.78	-15.82	-15.87	-15.93	-15.99	-16.05	
.131:	-16.11	-16.16	-16.22	-16.26	-16.31	-16.34	-16.37	-16.40	-16.42	-16.43	
.133:	-16.44	-16.44	-16.44	-16.43	-16.42	-16.41	-16.40	-16.38	-16.36	-16.33	
.134:	-16.31	-16.27	-16.23	-16.18	-16.11	-16.04	-15.95	-15.85	-15.73	-15.59	
.135:	-15.45	-15.29	-15.13	-14.96	-14.78	-14.60	-14.43	-14.27	-14.12	-13.98	
.136:	-13.86	-13.76	-13.68	-13.61	-13.57	-13.54	-13.53	-13.54	-13.55	-13.57	
.138:	-13.59	-13.61	-13.63	-13.64	-13.64	-13.62	-13.60	-13.55	-13.49	-13.40	
.139:	-13.31	-13.19	-13.06	-12.92	-12.77	-12.61	-12.44	-12.26	-12.08	-11.89	
.140:	-11.70	-11.51	-11.32	-11.13	-10.95	-10.78	-10.61	-10.45	-10.30	-10.16	
.141:	-10.02	-9.90	-9.79	-9.69	-9.60	-9.51	-9.43	-9.35	-9.27	-9.20	
.143:	-9.13	-9.06	-8.99	-8.92	-8.85	-8.77	-8.70	-8.62	-8.55	-8.48	
.144:	-8.41	-8.34	-8.28	-8.22	-8.17	-8.13	-8.10	-8.08	-8.07	-8.06	
.145:	-8.07	-8.08	-8.10	-8.13	-8.15	-8.18	-8.20	-8.21	-8.21	-8.19	
.146:	-8.16	-8.11	-8.05	-7.96	-7.85	-7.73	-7.59	-7.44	-7.28	-7.11	
.148:	-6.93	-6.75	-6.58	-6.40	-6.23	-6.06	-5.91	-5.77	-5.64	-5.53	
.149:	-5.43	-5.34	-5.27	-5.21	-5.17	-5.14	-5.12	-5.11	-5.11	-5.12	
.150:	-5.13	-5.14	-5.16	-5.17	-5.17	-5.18	-5.17	-5.16	-5.14	-5.11	
.151:	-5.07	-5.03	-4.97	-4.91	-4.85	-4.78	-4.71	-4.63	-4.56	-4.49	
.153:	-4.41	-4.34	-4.27	-4.21	-4.15	-4.09	-4.03	-3.98	-3.92	-3.86	
.154:	-3.81	-3.76	-3.71	-3.65	-3.60	-3.54	-3.49	-3.43	-3.37	-3.31	
.155:	-3.25	-3.19	-3.13	-3.06	-3.00	-2.94	-2.87	-2.81	-2.76	-2.70	
.156:	-2.66	-2.61	-2.57	-2.54	-2.51	-2.49	-2.47	-2.45	-2.44	-2.42	
.158:	-2.41	-2.40	-2.39	-2.38	-2.37	-2.36	-2.35	-2.33	-2.31	-2.28	
.159:	-2.26	-2.23	-2.20	-2.16	-2.12	-2.08	-2.03	-1.97	-1.92	-1.86	
.160:	-1.79	-1.73	-1.66	-1.60	-1.53	-1.47	-1.41	-1.36	-1.30	-1.26	
.161:	-1.22	-1.19	-1.16	-1.14	-1.12	-1.11	-1.09	-1.07	-1.05	-1.03	
.163:	-1.01	-.99	-.96	-.92	-.88	-.83	-.77	-.72	-.66	-.60	
.164:	-.54	-.48	-.41	-.35	-.29	-.23	-.18	-.13	-.09	-.05	
.165:	-.01	.02	.04	.06	.07	.09	.10	.11	.12	.13	

Vehicle c.g., X-Axis, 10 msec Avg. (cont'd.)

TIME										
.166:	.14	.16	.18	.20	.23	.26	.30	.34	.38	.42
.168:	.46	.51	.55	.59	.63	.66	.70	.72	.75	.78
.169:	.81	.83	.85	.86	.88	.90	.92	.93	.95	.96
.170:	.98	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.05	1.05
.171:	1.05	1.05	1.05	1.05	1.04	1.04	1.03	1.02	1.01	1.00
.173:	.99	.98	.97	.97	.96	.95	.95	.95	.95	.96
.174:	.96	.97	.98	.99	1.00	1.01	1.02	1.02	1.02	1.02
.175:	1.01	1.00	.99	.98	.97	.95	.93	.91	.89	.87
.176:	.86	.84	.83	.83	.82	.82	.82	.82	.82	.83
.178:	.83	.83	.83	.83	.83	.83	.83	.83	.82	.81
.179:	.80	.80	.79	.78	.77	.77	.76	.76	.76	.76
.180:	.76	.76	.76	.76	.77	.77	.77	.77	.77	.77
.181:	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77
.183:	.77	.78	.78	.77	.77	.76	.76	.75	.73	.72
.184:	.69	.67	.64	.62	.60	.58	.56	.54	.53	.52
.185:	.52	.53	.54	.55	.57	.60	.63	.66	.69	.73
.186:	.76	.79	.82	.85	.87	.89	.90	.91	.92	.92
.188:	.92	.91	.91	.91	.91	.91	.91	.92	.92	.93
.189:	.93	.93	.93	.93	.93	.92	.92	.91	.90	.89
.190:	.88	.87	.86	.85	.84	.83	.82	.80	.79	.78
.191:	.76	.75	.74	.72	.71	.69	.68	.67	.66	.65
.193:	.64	.64	.64	.65	.66	.67	.68	.70	.72	.74
.194:	.77	.80	.83	.86	.89	.92	.94	.97	.99	1.01
.195:	1.02	1.03	1.03	1.03	1.02	1.00	.98	.96	.93	.91
.196:	.88	.85	.82	.80	.78	.77	.76	.76	.76	.77
.198:	.80	.82	.85	.87	.90	.93	.95	.97	.99	1.01
.199:	1.02	1.03	1.03	1.03	1.02	1.01	.99	.97	.95	.93
.200:	.91	.89	.87	.86	.84	.83	.83	.83	.84	.85
.201:	.87	.90	.92	.96	.99	1.03	1.07	1.11	1.15	1.18
.203:	1.21	1.24	1.26	1.27	1.28	1.29	1.29	1.28	1.27	1.26
.204:	1.24	1.22	1.20	1.17	1.14	1.12	1.09	1.07	1.04	1.03
.205:	1.01	1.00	.99	.99	.99	.99	.99	.99	1.00	1.00
.206:	1.00	.99	.98	.97	.96	.95	.94	.92	.91	.89
.208:	.88	.86	.85	.84	.84	.83	.83	.84	.84	.85
.209:	.87	.88	.90	.92	.95	.97	.99	1.01	1.03	1.05
.210:	1.07	1.08	1.09	1.10	1.10	1.10	1.09	1.08	1.07	1.05
.211:	1.03	1.00	.97	.93	.89	.85	.81	.77	.74	.70
.213:	.67	.63	.60	.57	.55	.53	.51	.50	.49	.48
.214:	.48	.48	.49	.49	.50	.51	.52	.53	.54	.55
.215:	.55	.56	.56	.56	.56	.56	.56	.55	.55	.54
.216:	.54	.54	.53	.53	.52	.51	.50	.48	.47	.44
.218:	.42	.39	.36	.32	.29	.25	.22	.18	.15	.12
.219:	.09	.06	.04	.02	.01	-.01	-.01	-.02	-.02	-.02
.220:	-.02	-.01	-.01	-.01	-.01	-.01	-.01	-.01	-.01	-.01
.221:	-.01	-.02	-.02	-.02	-.02	-.02	-.02	-.02	-.03	-.03
.223:	-.03	-.04	-.04	-.04	-.05	-.05	-.06	-.06	-.06	-.07
.224:	-.08	-.09	-.10	-.11	-.12	-.13	-.14	-.15	-.17	-.18
.225:	-.19	-.21	-.22	-.23	-.25	-.26	-.27	-.28	-.29	-.30

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

FILE NAME B:F0801384.A10

DELTA= .13 MSEC: 8000.0 S/SEC.

D. POINTS= 2860 END TIME= 357.50 MSEC.

TIME :

.045:	1.39	1.62	1.83	2.00	2.15	2.26	2.35	2.41	2.44	2.45
.046:	2.44	2.41	2.36	2.30	2.24	2.17	2.09	2.00	1.92	1.84
.048:	1.74	1.65	1.56	1.47	1.38	1.30	1.22	1.15	1.08	1.03
.049:	.99	.96	.94	.93	.93	.94	.95	.97	.98	.98
.050:	.98	.95	.91	.83	.71	.56	.37	.14	-.12	-.39
.051:	-.67	-.94	-1.18	-1.40	-1.56	-1.68	-1.73	-1.72	-1.67	-1.56
.053:	-1.42	-1.25	-1.07	-.89	-.73	-.60	-.51	-.47	-.48	-.55
.054:	-.69	-.88	-1.12	-1.40	-1.72	-2.06	-2.41	-2.76	-3.10	-3.41
.055:	-3.69	-3.93	-4.13	-4.29	-4.39	-4.44	-4.45	-4.42	-4.36	-4.26
.056:	-4.14	-4.00	-3.84	-3.68	-3.51	-3.35	-3.20	-3.05	-2.92	-2.80
.058:	-2.69	-2.60	-2.51	-2.44	-2.38	-2.33	-2.29	-2.25	-2.21	-2.18
.059:	-2.15	-2.12	-2.09	-2.06	-2.02	-1.98	-1.94	-1.90	-1.86	-1.81
.060:	-1.77	-1.72	-1.67	-1.62	-1.56	-1.50	-1.44	-1.37	-1.30	-1.23
.061:	-1.16	-1.08	-1.01	-.94	-.86	-.79	-.73	-.66	-.59	-.53
.063:	-.47	-.42	-.37	-.32	-.28	-.24	-.21	-.17	-.13	-.09
.064:	-.05	-.01	.04	.09	.13	.17	.20	.22	.23	.23
.065:	.21	.18	.12	.05	-.04	-.15	-.28	-.42	-.57	-.73
.066:	-.90	-1.06	-1.23	-1.39	-1.54	-1.69	-1.81	-1.93	-2.02	-2.10
.068:	-2.17	-2.22	-2.25	-2.27	-2.28	-2.27	-2.26	-2.24	-2.21	-2.18
.069:	-2.14	-2.11	-2.07	-2.03	-1.99	-1.96	-1.92	-1.88	-1.85	-1.81
.070:	-1.78	-1.75	-1.73	-1.71	-1.69	-1.67	-1.66	-1.65	-1.65	-1.65
.071:	-1.65	-1.65	-1.65	-1.66	-1.66	-1.67	-1.67	-1.67	-1.66	-1.65
.073:	-1.64	-1.62	-1.60	-1.57	-1.54	-1.51	-1.47	-1.43	-1.39	-1.35
.074:	-1.30	-1.25	-1.21	-1.16	-1.11	-1.06	-1.01	-.96	-.91	-.86
.075:	-.82	-.78	-.73	-.69	-.65	-.60	-.55	-.50	-.46	-.41
.076:	-.36	-.32	-.27	-.23	-.19	-.15	-.12	-.09	-.07	-.05
.078:	-.04	-.03	-.03	-.04	-.04	-.05	-.07	-.08	-.09	-.11
.079:	-.12	-.13	-.15	-.16	-.18	-.19	-.20	-.22	-.23	-.25
.080:	-.26	-.28	-.29	-.31	-.33	-.35	-.37	-.39	-.40	-.42
.081:	-.44	-.45	-.46	-.47	-.48	-.50	-.51	-.52	-.53	-.54
.083:	-.55	-.57	-.58	-.59	-.60	-.61	-.62	-.64	-.65	-.66
.084:	-.67	-.68	-.69	-.70	-.72	-.73	-.74	-.75	-.76	-.77
.085:	-.79	-.80	-.82	-.83	-.85	-.86	-.88	-.90	-.93	-.95
.086:	-.97	-.99	-1.01	-1.03	-1.05	-1.07	-1.09	-1.11	-1.13	-1.15
.088:	-1.16	-1.18	-1.20	-1.22	-1.24	-1.26	-1.28	-1.29	-1.31	-1.33
.089:	-1.35	-1.37	-1.38	-1.40	-1.42	-1.43	-1.45	-1.47	-1.49	-1.51
.090:	-1.53	-1.55	-1.58	-1.60	-1.63	-1.65	-1.68	-1.70	-1.73	-1.76
.091:	-1.79	-1.82	-1.85	-1.87	-1.90	-1.92	-1.94	-1.97	-1.99	-2.02
.093:	-2.04	-2.06	-2.08	-2.09	-2.11	-2.13	-2.15	-2.16	-2.18	-2.19
.094:	-2.20	-2.21	-2.23	-2.24	-2.25	-2.26	-2.27	-2.28	-2.29	-2.30
.095:	-2.32	-2.33	-2.34	-2.35	-2.36	-2.37	-2.38	-2.38	-2.39	-2.40
.096:	-2.40	-2.41	-2.41	-2.41	-2.41	-2.41	-2.41	-2.41	-2.41	-2.40
.098:	-2.40	-2.39	-2.37	-2.36	-2.33	-2.29	-2.25	-2.20	-2.14	-2.07
.099:	-1.99	-1.91	-1.83	-1.74	-1.64	-1.55	-1.46	-1.36	-1.28	-1.19
.100:	-1.11	-1.04	-.97	-.91	-.85	-.80	-.77	-.73	-.71	-.69
.101:	-.67	-.67	-.68	-.69	-.70	-.72	-.74	-.76	-.78	-.80
.103:	-.82	-.85	-.87	-.89	-.91	-.92	-.93	-.94	-.95	-.96
.104:	-.96	-.97	-.97	-.96	-.96	-.95	-.95	-.94	-.94	-.93

Vehicle c.g., Y-Axis, 10 msec Avg. (cont'd.)

TIME :										
.105:	-.93	-.92	-.92	-.91	-.91	-.92	-.92	-.93	-.94	-.95
.106:	-.97	-.98	-.99	-1.00	-1.00	-1.00	-.99	-.97	-.94	-.91
.108:	-.87	-.83	-.78	-.74	-.70	-.67	-.64	-.63	-.63	-.64
.109:	-.66	-.70	-.74	-.80	-.86	-.93	-1.01	-1.09	-1.17	-1.24
.110:	-1.31	-1.38	-1.44	-1.49	-1.54	-1.58	-1.60	-1.62	-1.63	-1.63
.111:	-1.62	-1.60	-1.57	-1.54	-1.50	-1.46	-1.42	-1.37	-1.32	-1.28
.113:	-1.23	-1.19	-1.15	-1.11	-1.08	-1.05	-1.03	-1.01	-.99	-.98
.114:	-.98	-.98	-.98	-.98	-.99	-1.00	-1.01	-1.02	-1.03	-1.04
.115:	-1.05	-1.05	-1.06	-1.06	-1.06	-1.06	-1.05	-1.04	-1.03	-1.02
.116:	-1.01	-1.00	-1.00	-1.00	-1.00	-1.02	-1.04	-1.08	-1.13	-1.18
.118:	-1.25	-1.32	-1.40	-1.49	-1.57	-1.66	-1.75	-1.84	-1.92	-1.99
.119:	-2.07	-2.14	-2.20	-2.25	-2.30	-2.34	-2.37	-2.40	-2.42	-2.44
.120:	-2.47	-2.49	-2.51	-2.53	-2.55	-2.57	-2.59	-2.61	-2.64	-2.67
.121:	-2.70	-2.73	-2.76	-2.79	-2.83	-2.86	-2.90	-2.94	-2.97	-3.01
.123:	-3.04	-3.07	-3.09	-3.12	-3.15	-3.17	-3.18	-3.19	-3.19	-3.17
.124:	-3.15	-3.10	-3.05	-2.98	-2.89	-2.78	-2.66	-2.53	-2.39	-2.24
.125:	-2.08	-1.91	-1.75	-1.58	-1.41	-1.25	-1.09	-.94	-.79	-.65
.126:	-.52	-.39	-.26	-.14	-.03	.07	.17	.27	.36	.46
.128:	.55	.64	.72	.80	.89	.97	1.05	1.14	1.22	1.30
.129:	1.39	1.47	1.55	1.64	1.72	1.80	1.87	1.95	2.02	2.10
.130:	2.17	2.24	2.31	2.38	2.45	2.51	2.57	2.63	2.69	2.75
.131:	2.81	2.86	2.91	2.96	3.00	3.05	3.09	3.13	3.17	3.20
.133:	3.23	3.25	3.28	3.30	3.32	3.34	3.36	3.36	3.36	3.35
.134:	3.33	3.29	3.24	3.18	3.10	3.00	2.88	2.76	2.62	2.47
.135:	2.31	2.15	1.98	1.81	1.63	1.46	1.29	1.13	.97	.81
.136:	.66	.52	.38	.24	.12	.00	-.11	-.22	-.33	-.43
.138:	-.54	-.64	-.73	-.82	-.90	-.98	-1.06	-1.13	-1.20	-1.25
.139:	-1.31	-1.36	-1.40	-1.44	-1.48	-1.50	-1.53	-1.55	-1.57	-1.59
.140:	-1.60	-1.61	-1.62	-1.63	-1.64	-1.65	-1.65	-1.66	-1.67	-1.67
.141:	-1.68	-1.69	-1.70	-1.70	-1.71	-1.71	-1.72	-1.72	-1.72	-1.72
.143:	-1.72	-1.71	-1.71	-1.70	-1.69	-1.67	-1.66	-1.64	-1.62	-1.61
.144:	-1.59	-1.58	-1.56	-1.55	-1.54	-1.53	-1.52	-1.51	-1.50	-1.50
.145:	-1.49	-1.49	-1.49	-1.49	-1.49	-1.49	-1.49	-1.49	-1.50	-1.50
.146:	-1.50	-1.49	-1.49	-1.48	-1.48	-1.47	-1.46	-1.45	-1.43	-1.41
.148:	-1.38	-1.34	-1.31	-1.27	-1.23	-1.18	-1.14	-1.10	-1.06	-1.02
.149:	-.98	-.95	-.92	-.90	-.88	-.87	-.86	-.85	-.84	-.84
.150:	-.84	-.84	-.84	-.84	-.84	-.84	-.83	-.83	-.83	-.82
.151:	-.82	-.81	-.80	-.79	-.78	-.77	-.76	-.75	-.74	-.73
.153:	-.72	-.71	-.70	-.69	-.68	-.68	-.67	-.67	-.66	-.66
.154:	-.66	-.66	-.66	-.66	-.65	-.65	-.65	-.65	-.64	-.63
.155:	-.62	-.61	-.60	-.58	-.57	-.55	-.53	-.51	-.48	-.45
.156:	-.42	-.39	-.36	-.33	-.29	-.26	-.23	-.21	-.18	-.17
.158:	-.16	-.16	-.16	-.17	-.18	-.20	-.22	-.25	-.29	-.32
.159:	-.36	-.40	-.43	-.47	-.50	-.53	-.56	-.60	-.62	-.65
.160:	-.68	-.70	-.73	-.75	-.77	-.79	-.80	-.82	-.83	-.84
.161:	-.85	-.86	-.87	-.88	-.89	-.90	-.90	-.91	-.91	-.92
.163:	-.92	-.93	-.93	-.94	-.94	-.95	-.95	-.96	-.96	-.96
.164:	-.96	-.96	-.96	-.96	-.96	-.95	-.95	-.94	-.93	-.92
.165:	-.91	-.90	-.88	-.86	-.85	-.83	-.82	-.80	-.79	-.77

Vehicle c.g., Y-Axis, 10 msec Avg. (cont'd.)

TIME :										
.166:	-.76	-.74	-.73	-.71	-.70	-.68	-.67	-.65	-.64	-.62
.168:	-.60	-.58	-.55	-.53	-.51	-.49	-.48	-.46	-.45	-.43
.169:	-.42	-.41	-.40	-.40	-.39	-.39	-.39	-.39	-.38	-.37
.170:	-.37	-.36	-.36	-.36	-.36	-.36	-.36	-.35	-.35	-.34
.171:	-.34	-.33	-.33	-.33	-.33	-.33	-.33	-.33	-.33	-.33
.173:	-.34	-.34	-.35	-.36	-.37	-.38	-.39	-.40	-.40	-.41
.174:	-.41	-.42	-.42	-.42	-.42	-.42	-.42	-.42	-.42	-.42
.175:	-.42	-.42	-.42	-.42	-.42	-.42	-.42	-.42	-.42	-.42
.176:	-.43	-.43	-.45	-.46	-.47	-.48	-.49	-.50	-.51	-.52
.178:	-.53	-.54	-.55	-.56	-.57	-.58	-.58	-.59	-.59	-.60
.179:	-.61	-.62	-.63	-.64	-.64	-.65	-.65	-.66	-.67	-.68
.180:	-.70	-.71	-.72	-.73	-.74	-.75	-.76	-.77	-.79	-.81
.181:	-.84	-.86	-.88	-.90	-.92	-.94	-.96	-.98	-1.00	-1.02
.183:	-1.03	-1.05	-1.06	-1.08	-1.09	-1.10	-1.11	-1.12	-1.13	-1.14
.184:	-1.15	-1.15	-1.16	-1.16	-1.17	-1.18	-1.18	-1.18	-1.18	-1.18
.185:	-1.18	-1.18	-1.18	-1.18	-1.17	-1.17	-1.16	-1.16	-1.15	-1.14
.186:	-1.13	-1.12	-1.10	-1.09	-1.08	-1.07	-1.06	-1.05	-1.04	-1.03
.188:	-1.02	-1.01	-1.00	-.99	-.98	-.97	-.97	-.96	-.96	-.95
.189:	-.94	-.93	-.93	-.92	-.92	-.91	-.91	-.90	-.90	-.90
.190:	-.90	-.90	-.90	-.90	-.90	-.89	-.89	-.88	-.87	-.86
.191:	-.85	-.84	-.82	-.80	-.78	-.76	-.74	-.72	-.70	-.68
.193:	-.66	-.64	-.62	-.60	-.58	-.56	-.54	-.53	-.52	-.51
.194:	-.51	-.51	-.51	-.51	-.51	-.52	-.52	-.53	-.53	-.54
.195:	-.54	-.55	-.55	-.56	-.58	-.59	-.60	-.61	-.62	-.63
.196:	-.65	-.66	-.68	-.70	-.72	-.73	-.75	-.77	-.78	-.80
.198:	-.81	-.83	-.84	-.85	-.85	-.86	-.86	-.86	-.86	-.86
.199:	-.86	-.86	-.85	-.84	-.83	-.81	-.80	-.79	-.78	-.77
.200:	-.76	-.75	-.74	-.73	-.73	-.73	-.73	-.73	-.73	-.74
.201:	-.74	-.75	-.76	-.77	-.78	-.78	-.78	-.78	-.78	-.78
.203:	-.77	-.76	-.74	-.73	-.71	-.69	-.67	-.64	-.61	-.59
.204:	-.56	-.54	-.51	-.49	-.47	-.46	-.44	-.43	-.43	-.42
.205:	-.42	-.42	-.42	-.42	-.43	-.43	-.44	-.44	-.45	-.45
.206:	-.45	-.45	-.44	-.43	-.42	-.41	-.40	-.39	-.38	-.37
.208:	-.36	-.35	-.34	-.34	-.33	-.33	-.33	-.34	-.34	-.35
.209:	-.35	-.36	-.36	-.37	-.37	-.38	-.39	-.39	-.39	-.39
.210:	-.38	-.37	-.37	-.36	-.35	-.34	-.32	-.30	-.28	-.26
.211:	-.24	-.22	-.20	-.18	-.16	-.14	-.12	-.11	-.10	-.09
.213:	-.08	-.07	-.07	-.07	-.07	-.07	-.08	-.08	-.09	-.10
.214:	-.10	-.11	-.11	-.11	-.12	-.12	-.12	-.12	-.12	-.11
.215:	-.11	-.10	-.10	-.09	-.09	-.08	-.07	-.05	-.04	-.04
.216:	-.03	-.03	-.04	-.04	-.05	-.05	-.06	-.06	-.06	-.06
.218:	-.06	-.06	-.06	-.05	-.05	-.04	-.02	-.00	.02	.04
.219:	.06	.09	.11	.13	.15	.18	.20	.23	.25	.28
.220:	.30	.33	.35	.38	.41	.43	.45	.47	.48	.50
.221:	.52	.53	.54	.55	.56	.56	.56	.56	.56	.55
.223:	.55	.54	.53	.52	.51	.50	.49	.48	.47	.47
.224:	.46	.46	.45	.45	.45	.45	.45	.45	.46	.47
.225:	.48	.49	.50	.51	.52	.54	.55	.57	.58	.60

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

FILE NAME B:F0801363.A50

DELTA= .13 MSEC: 8000.0 S/SEC.

POINTS= 2860 END TIME= 357.50 MSEC.

TIME :											
.045:	-4.29	-4.31	-4.33	-4.35	-4.37	-4.39	-4.41	-4.43	-4.46	-4.48	
.046:	-4.50	-4.52	-4.54	-4.57	-4.59	-4.61	-4.63	-4.65	-4.68	-4.70	
.048:	-4.72	-4.74	-4.76	-4.78	-4.80	-4.83	-4.85	-4.87	-4.89	-4.91	
.049:	-4.93	-4.95	-4.97	-4.99	-5.01	-5.03	-5.05	-5.07	-5.09	-5.11	
.050:	-5.12	-5.14	-5.16	-5.17	-5.19	-5.21	-5.22	-5.24	-5.25	-5.27	
.051:	-5.28	-5.29	-5.31	-5.32	-5.33	-5.35	-5.36	-5.37	-5.38	-5.40	
.053:	-5.41	-5.42	-5.43	-5.44	-5.45	-5.46	-5.47	-5.48	-5.48	-5.49	
.054:	-5.50	-5.51	-5.51	-5.52	-5.52	-5.53	-5.54	-5.54	-5.55	-5.55	
.055:	-5.56	-5.57	-5.57	-5.58	-5.59	-5.60	-5.61	-5.61	-5.62	-5.63	
.056:	-5.64	-5.65	-5.66	-5.67	-5.68	-5.69	-5.70	-5.71	-5.73	-5.74	
.058:	-5.75	-5.76	-5.77	-5.78	-5.79	-5.80	-5.81	-5.82	-5.83	-5.84	
.059:	-5.85	-5.86	-5.87	-5.88	-5.89	-5.91	-5.92	-5.93	-5.94	-5.95	
.060:	-5.96	-5.97	-5.99	-6.00	-6.02	-6.03	-6.05	-6.06	-6.08	-6.10	
.061:	-6.12	-6.14	-6.15	-6.17	-6.19	-6.21	-6.23	-6.26	-6.28	-6.30	
.063:	-6.32	-6.34	-6.36	-6.38	-6.40	-6.42	-6.45	-6.47	-6.49	-6.51	
.064:	-6.53	-6.56	-6.58	-6.60	-6.63	-6.65	-6.67	-6.70	-6.72	-6.75	
.065:	-6.77	-6.80	-6.82	-6.85	-6.87	-6.90	-6.93	-6.96	-6.98	-7.01	
.066:	-7.04	-7.07	-7.10	-7.13	-7.15	-7.18	-7.21	-7.24	-7.26	-7.29	
.068:	-7.32	-7.34	-7.37	-7.39	-7.42	-7.44	-7.47	-7.49	-7.52	-7.55	
.069:	-7.57	-7.60	-7.62	-7.65	-7.68	-7.70	-7.73	-7.76	-7.78	-7.81	
.070:	-7.84	-7.87	-7.89	-7.92	-7.95	-7.98	-8.00	-8.03	-8.06	-8.09	
.071:	-8.12	-8.14	-8.17	-8.20	-8.23	-8.25	-8.28	-8.31	-8.34	-8.36	
.073:	-8.39	-8.42	-8.45	-8.47	-8.50	-8.53	-8.55	-8.58	-8.60	-8.63	
.074:	-8.65	-8.68	-8.70	-8.73	-8.75	-8.78	-8.80	-8.83	-8.85	-8.88	
.075:	-8.90	-8.93	-8.95	-8.98	-9.00	-9.03	-9.05	-9.08	-9.10	-9.13	
.076:	-9.15	-9.18	-9.20	-9.23	-9.25	-9.27	-9.30	-9.32	-9.34	-9.36	
.078:	-9.39	-9.41	-9.43	-9.45	-9.47	-9.49	-9.51	-9.53	-9.55	-9.57	
.079:	-9.59	-9.61	-9.63	-9.65	-9.67	-9.69	-9.71	-9.73	-9.75	-9.77	
.080:	-9.79	-9.82	-9.84	-9.86	-9.88	-9.91	-9.93	-9.95	-9.98	-10.00	
.081:	-10.02	-10.05	-10.07	-10.09	-10.12	-10.14	-10.16	-10.18	-10.21	-10.23	
.083:	-10.25	-10.27	-10.29	-10.32	-10.34	-10.36	-10.38	-10.40	-10.42	-10.44	
.084:	-10.46	-10.48	-10.50	-10.52	-10.54	-10.56	-10.58	-10.60	-10.62	-10.64	
.085:	-10.66	-10.68	-10.70	-10.72	-10.74	-10.75	-10.77	-10.79	-10.81	-10.83	
.086:	-10.85	-10.88	-10.90	-10.92	-10.94	-10.96	-10.98	-11.00	-11.02	-11.04	
.088:	-11.07	-11.09	-11.11	-11.13	-11.15	-11.18	-11.20	-11.22	-11.24	-11.27	
.089:	-11.29	-11.31	-11.33	-11.36	-11.38	-11.40	-11.42	-11.45	-11.47	-11.49	
.090:	-11.51	-11.54	-11.56	-11.58	-11.61	-11.63	-11.65	-11.68	-11.70	-11.73	
.091:	-11.75	-11.78	-11.80	-11.82	-11.85	-11.87	-11.90	-11.92	-11.95	-11.97	
.093:	-12.00	-12.02	-12.05	-12.07	-12.10	-12.12	-12.14	-12.17	-12.19	-12.21	
.094:	-12.24	-12.26	-12.28	-12.30	-12.32	-12.34	-12.36	-12.38	-12.40	-12.42	
.095:	-12.44	-12.46	-12.48	-12.49	-12.51	-12.52	-12.54	-12.55	-12.57	-12.58	
.096:	-12.59	-12.60	-12.61	-12.62	-12.63	-12.64	-12.65	-12.66	-12.67	-12.67	
.098:	-12.68	-12.69	-12.70	-12.70	-12.71	-12.72	-12.72	-12.73	-12.74	-12.75	
.099:	-12.75	-12.76	-12.76	-12.77	-12.78	-12.78	-12.79	-12.79	-12.80	-12.80	
.100:	-12.81	-12.81	-12.82	-12.82	-12.82	-12.83	-12.83	-12.83	-12.83	-12.83	
.101:	-12.83	-12.83	-12.83	-12.83	-12.83	-12.83	-12.82	-12.82	-12.81	-12.81	
.103:	-12.80	-12.80	-12.79	-12.78	-12.78	-12.77	-12.76	-12.75	-12.74	-12.74	
.104:	-12.73	-12.72	-12.71	-12.70	-12.69	-12.68	-12.67	-12.66	-12.65	-12.64	

Vehicle c.g., X-Axis, 50 msec Avg. (cont'd.)

TIME :										
.105:	-12.43	-12.42	-12.41	-12.59	-12.58	-12.57	-12.56	-12.55	-12.54	-12.52
.106:	-12.51	-12.50	-12.49	-12.47	-12.46	-12.45	-12.43	-12.42	-12.40	-12.39
.108:	-12.37	-12.36	-12.34	-12.33	-12.31	-12.30	-12.28	-12.27	-12.25	-12.23
.109:	-12.22	-12.20	-12.18	-12.17	-12.15	-12.13	-12.12	-12.10	-12.08	-12.06
.110:	-12.04	-12.02	-12.00	-11.98	-11.96	-11.94	-11.92	-11.90	-11.88	-11.86
.111:	-11.84	-11.82	-11.79	-11.77	-11.75	-11.73	-11.71	-11.68	-11.66	-11.64
.113:	-11.62	-11.60	-11.57	-11.55	-11.53	-11.50	-11.48	-11.46	-11.43	-11.41
.114:	-11.39	-11.36	-11.34	-11.32	-11.29	-11.27	-11.24	-11.22	-11.19	-11.17
.115:	-11.14	-11.12	-11.10	-11.07	-11.05	-11.02	-11.00	-10.97	-10.95	-10.92
.116:	-10.90	-10.87	-10.85	-10.82	-10.80	-10.77	-10.75	-10.72	-10.70	-10.67
.118:	-10.65	-10.62	-10.60	-10.57	-10.55	-10.52	-10.49	-10.47	-10.44	-10.42
.119:	-10.39	-10.37	-10.34	-10.32	-10.29	-10.27	-10.24	-10.22	-10.19	-10.17
.120:	-10.15	-10.12	-10.10	-10.07	-10.05	-10.02	-10.00	-9.97	-9.95	-9.92
.121:	-9.90	-9.87	-9.85	-9.82	-9.80	-9.77	-9.75	-9.72	-9.69	-9.67
.123:	-9.64	-9.61	-9.59	-9.56	-9.53	-9.50	-9.48	-9.45	-9.42	-9.39
.124:	-9.37	-9.34	-9.31	-9.28	-9.26	-9.23	-9.20	-9.17	-9.14	-9.12
.125:	-9.09	-9.06	-9.03	-9.00	-8.97	-8.94	-8.91	-8.88	-8.85	-8.82
.126:	-8.79	-8.76	-8.73	-8.70	-8.66	-8.63	-8.60	-8.57	-8.54	-8.51
.128:	-8.48	-8.45	-8.42	-8.39	-8.36	-8.33	-8.30	-8.27	-8.24	-8.22
.129:	-8.19	-8.16	-8.13	-8.10	-8.07	-8.04	-8.01	-7.97	-7.94	-7.91
.130:	-7.88	-7.84	-7.81	-7.77	-7.74	-7.70	-7.67	-7.63	-7.60	-7.56
.131:	-7.52	-7.48	-7.45	-7.41	-7.37	-7.33	-7.29	-7.26	-7.22	-7.18
.133:	-7.14	-7.10	-7.06	-7.03	-6.99	-6.95	-6.91	-6.87	-6.83	-6.80
.134:	-6.76	-6.72	-6.68	-6.64	-6.61	-6.57	-6.53	-6.49	-6.45	-6.41
.135:	-6.38	-6.34	-6.30	-6.26	-6.22	-6.18	-6.14	-6.10	-6.06	-6.02
.136:	-5.98	-5.94	-5.90	-5.86	-5.82	-5.78	-5.74	-5.70	-5.66	-5.62
.138:	-5.58	-5.54	-5.50	-5.46	-5.41	-5.37	-5.33	-5.29	-5.25	-5.21
.139:	-5.17	-5.13	-5.08	-5.04	-5.00	-4.96	-4.92	-4.87	-4.83	-4.79
.140:	-4.75	-4.70	-4.66	-4.62	-4.57	-4.53	-4.48	-4.44	-4.40	-4.35
.141:	-4.31	-4.26	-4.22	-4.17	-4.13	-4.08	-4.04	-3.99	-3.95	-3.90
.143:	-3.86	-3.81	-3.77	-3.72	-3.68	-3.63	-3.59	-3.55	-3.50	-3.46
.144:	-3.41	-3.37	-3.33	-3.29	-3.24	-3.20	-3.16	-3.12	-3.08	-3.04
.145:	-3.00	-2.96	-2.92	-2.88	-2.84	-2.80	-2.76	-2.72	-2.69	-2.65
.146:	-2.62	-2.58	-2.55	-2.51	-2.48	-2.45	-2.41	-2.38	-2.35	-2.32
.148:	-2.29	-2.26	-2.23	-2.19	-2.16	-2.13	-2.10	-2.07	-2.04	-2.01
.149:	-1.98	-1.95	-1.92	-1.88	-1.85	-1.82	-1.79	-1.76	-1.73	-1.70
.150:	-1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.151:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.153:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.154:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.155:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.156:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.158:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.159:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.160:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.161:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.163:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.164:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.165:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

FILE NAME B:F0801385.A10
 DELTA= .13 MSEC: 8000.0 S/SEC.
 NO. POINTS= 2860 END TIME= 357.50 MSEC.

TIME :											
.045:	.91	1.04	1.21	1.39	1.58	1.78	1.96	2.13	2.26	2.35	
.046:	2.41	2.44	2.43	2.46	2.35	2.28	2.20	2.11	2.03	1.94	
.048:	1.86	1.78	1.70	1.63	1.56	1.49	1.42	1.34	1.27	1.18	
.049:	1.10	1.01	.92	.82	.73	.63	.53	.43	.33	.24	
.050:	.17	.11	.08	.09	.12	.18	.27	.38	.49	.59	
.051:	.69	.75	.79	.79	.74	.66	.52	.35	.13	-.11	
.053:	-.37	-.63	-.90	-1.16	-1.40	-1.61	-1.80	-1.95	-2.06	-2.14	
.054:	-2.18	-2.19	-2.17	-2.14	-2.09	-2.05	-2.02	-2.02	-2.04	-2.09	
.055:	-2.18	-2.30	-2.45	-2.61	-2.78	-2.95	-3.11	-3.24	-3.35	-3.43	
.056:	-3.46	-3.46	-3.43	-3.36	-3.26	-3.15	-3.02	-2.89	-2.76	-2.63	
.058:	-2.52	-2.41	-2.32	-2.25	-2.20	-2.16	-2.13	-2.11	-2.10	-2.11	
.059:	-2.12	-2.13	-2.13	-2.13	-2.12	-2.10	-2.07	-2.03	-1.97	-1.90	
.060:	-1.82	-1.73	-1.63	-1.55	-1.48	-1.42	-1.37	-1.34	-1.33	-1.33	
.061:	-1.34	-1.36	-1.38	-1.39	-1.39	-1.38	-1.35	-1.31	-1.24	-1.15	
.063:	-1.04	-.92	-.78	-.65	-.51	-.36	-.22	-.08	.06	.20	
.064:	.32	.44	.54	.64	.73	.80	.86	.91	.94	.96	
.065:	.97	.97	.97	.96	.94	.94	.93	.93	.93	.94	
.066:	.94	.95	.95	.94	.91	.88	.84	.80	.75	.70	
.068:	.66	.62	.59	.57	.57	.58	.61	.66	.72	.78	
.069:	.86	.94	1.02	1.10	1.18	1.25	1.31	1.37	1.41	1.45	
.070:	1.47	1.48	1.49	1.48	1.47	1.45	1.42	1.38	1.34	1.29	
.071:	1.24	1.20	1.15	1.11	1.07	1.04	1.02	1.00	1.00	.99	
.073:	1.00	1.00	1.02	1.03	1.05	1.07	1.09	1.11	1.12	1.14	
.074:	1.15	1.15	1.15	1.15	1.14	1.14	1.14	1.14	1.14	1.14	
.075:	1.15	1.15	1.15	1.15	1.15	1.14	1.13	1.12	1.09	1.06	
.076:	1.03	1.00	.97	.95	.94	.93	.94	.94	.96	.99	
.078:	1.02	1.06	1.10	1.15	1.18	1.22	1.25	1.28	1.31	1.33	
.079:	1.34	1.35	1.35	1.35	1.35	1.35	1.34	1.33	1.32	1.31	
.080:	1.30	1.30	1.29	1.28	1.27	1.27	1.26	1.26	1.26	1.26	
.081:	1.27	1.28	1.29	1.30	1.31	1.31	1.30	1.27	1.24	1.18	
.083:	1.11	1.02	.92	.80	.67	.53	.37	.22	.06	-.09	
.084:	-.24	-.38	-.51	-.63	-.74	-.84	-.94	-1.03	-1.12	-1.19	
.085:	-1.27	-1.35	-1.43	-1.50	-1.57	-1.64	-1.71	-1.76	-1.79	-1.78	
.086:	-1.74	-1.66	-1.52	-1.34	-1.13	-.92	-.73	-.57	-.46	-.41	
.088:	-.45	-.56	-.74	-.99	-1.28	-1.59	-1.88	-2.10	-2.23	-2.24	
.089:	-2.13	-1.91	-1.60	-1.25	-.90	-.58	-.34	-.20	-.16	-.24	
.090:	-.41	-.66	-.94	-1.24	-1.51	-1.74	-1.91	-2.01	-2.04	-2.00	
.091:	-1.92	-1.82	-1.72	-1.64	-1.60	-1.60	-1.64	-1.70	-1.78	-1.85	
.093:	-1.89	-1.90	-1.86	-1.77	-1.63	-1.44	-1.22	-.98	-.74	-.50	
.094:	-.27	-.06	.13	.30	.45	.60	.75	.89	1.03	1.16	
.095:	1.31	1.45	1.58	1.71	1.82	1.91	1.98	2.03	2.03	1.99	
.096:	1.92	1.79	1.61	1.40	1.18	.96	.78	.63	.55	.53	
.098:	.59	.71	.89	1.12	1.37	1.61	1.80	1.92	1.94	1.84	
.099:	1.61	1.29	.88	.44	.01	-.38	-.69	-.88	-.96	-.91	
.100:	-.77	-.54	-.27	.02	.28	.51	.67	.77	.80	.76	
.101:	.69	.58	.48	.40	.37	.33	.44	.53	.66	.79	
.103:	.92	1.02	1.09	1.12	1.11	1.08	.99	.89	.79	.68	
.104:	.58	.49	.40	.32	.24	.17	.08	-.00	-.10	-.19	

Vehicle c.g., Z-Axis, 10 msec Avg. (cont'd.)

TIME :										
.105:	-.29	-.39	-.48	-.56	-.61	-.65	-.67	-.67	-.65	-.62
.106:	-.58	-.55	-.54	-.54	-.58	-.64	-.72	-.83	-.95	-1.08
.108:	-1.21	-1.32	-1.41	-1.47	-1.50	-1.49	-1.46	-1.40	-1.32	-1.24
.109:	-1.15	-1.06	-.97	-.89	-.81	-.74	-.68	-.63	-.59	-.55
.110:	-.51	-.49	-.47	-.45	-.44	-.43	-.42	-.41	-.41	-.40
.111:	-.39	-.39	-.38	-.37	-.36	-.36	-.35	-.35	-.35	-.35
.113:	-.36	-.37	-.38	-.38	-.38	-.38	-.38	-.39	-.39	-.40
.114:	-.41	-.43	-.45	-.47	-.50	-.54	-.57	-.61	-.65	-.69
.115:	-.73	-.77	-.80	-.82	-.84	-.84	-.85	-.84	-.82	-.79
.116:	-.74	-.68	-.60	-.49	-.36	-.22	-.05	.13	.32	.51
.118:	.70	.89	1.06	1.21	1.33	1.43	1.51	1.56	1.58	1.59
.119:	1.59	1.58	1.55	1.52	1.48	1.43	1.37	1.30	1.21	1.12
.120:	1.00	.88	.74	.59	.44	.28	.12	-.05	-.20	-.36
.121:	-.51	-.65	-.78	-.90	-1.02	-1.12	-1.21	-1.29	-1.36	-1.42
.123:	-1.47	-1.51	-1.54	-1.56	-1.57	-1.56	-1.55	-1.52	-1.47	-1.41
.124:	-1.34	-1.26	-1.17	-1.06	-.95	-.83	-.71	-.58	-.45	-.33
.125:	-.22	-.11	-.02	.05	.10	.13	.15	.14	.11	.06
.126:	-.01	-.09	-.19	-.31	-.44	-.58	-.72	-.88	-1.05	-1.21
.128:	-1.38	-1.55	-1.72	-1.88	-2.02	-2.15	-2.27	-2.36	-2.44	-2.50
.129:	-2.53	-2.56	-2.56	-2.55	-2.53	-2.50	-2.44	-2.38	-2.30	-2.21
.130:	-2.10	-1.98	-1.85	-1.71	-1.55	-1.39	-1.23	-1.06	-.88	-.72
.131:	-.56	-.40	-.25	-.11	.02	.13	.22	.30	.36	.40
.133:	.42	.41	.39	.33	.26	.15	.02	-.14	-.31	-.50
.134:	-.70	-.91	-1.12	-1.34	-1.55	-1.76	-1.95	-2.14	-2.31	-2.47
.135:	-2.60	-2.72	-2.82	-2.90	-2.97	-3.02	-3.06	-3.08	-3.09	-3.09
.136:	-3.08	-3.06	-3.03	-3.00	-2.95	-2.90	-2.85	-2.79	-2.72	-2.66
.138:	-2.59	-2.52	-2.45	-2.38	-2.30	-2.23	-2.17	-2.11	-2.06	-2.01
.139:	-1.98	-1.95	-1.94	-1.93	-1.93	-1.95	-1.97	-1.99	-2.03	-2.07
.140:	-2.12	-2.18	-2.24	-2.30	-2.37	-2.44	-2.52	-2.61	-2.70	-2.79
.141:	-2.88	-2.98	-3.07	-3.17	-3.26	-3.34	-3.41	-3.48	-3.53	-3.56
.143:	-3.58	-3.59	-3.58	-3.56	-3.52	-3.46	-3.39	-3.30	-3.21	-3.10
.144:	-3.00	-2.88	-2.77	-2.66	-2.55	-2.44	-2.35	-2.26	-2.18	-2.11
.145:	-2.05	-2.01	-1.98	-1.95	-1.94	-1.93	-1.93	-1.94	-1.95	-1.96
.146:	-1.97	-1.99	-2.01	-2.04	-2.07	-2.11	-2.16	-2.20	-2.24	-2.29
.148:	-2.33	-2.37	-2.41	-2.44	-2.46	-2.48	-2.49	-2.50	-2.49	-2.49
.149:	-2.48	-2.47	-2.46	-2.45	-2.44	-2.44	-2.43	-2.43	-2.43	-2.42
.150:	-2.42	-2.41	-2.40	-2.38	-2.36	-2.33	-2.29	-2.25	-2.19	-2.13
.151:	-2.06	-1.98	-1.91	-1.83	-1.75	-1.67	-1.59	-1.52	-1.46	-1.40
.153:	-1.35	-1.31	-1.27	-1.23	-1.19	-1.15	-1.12	-1.08	-1.05	-1.02
.154:	-.99	-.96	-.93	-.90	-.87	-.83	-.80	-.77	-.73	-.70
.155:	-.66	-.62	-.58	-.54	-.49	-.44	-.38	-.33	-.28	-.23
.156:	-.19	-.14	-.09	-.04	.01	.05	.10	.15	.20	.25
.158:	.29	.34	.39	.43	.46	.49	.52	.54	.56	.57
.159:	.59	.61	.62	.63	.65	.67	.70	.72	.74	.80
.160:	.84	.89	.94	1.00	1.05	1.10	1.15	1.18	1.22	1.24
.161:	1.26	1.27	1.27	1.26	1.25	1.24	1.23	1.22	1.21	1.21
.163:	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
.164:	1.20	1.20	1.20	1.20	1.20	1.19	1.19	1.19	1.18	1.18
.165:	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.09	1.09

Vehicle c.g., Z-Axis, 10 msec Avg. (cont'd.)

TIME :										
.166:	1.08	1.08	1.08	1.08	1.08	1.09	1.09	1.10	1.10	1.11
.168:	1.12	1.12	1.13	1.13	1.14	1.14	1.15	1.15	1.15	1.15
.169:	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
.170:	1.14	1.12	1.11	1.10	1.09	1.08	1.06	1.05	1.04	1.04
.171:	1.04	1.04	1.04	1.04	1.05	1.05	1.05	1.05	1.04	1.04
.173:	1.03	1.03	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
.174:	1.03	1.04	1.05	1.06	1.08	1.09	1.10	1.10	1.11	1.12
.175:	1.12	1.12	1.12	1.12	1.12	1.12	1.13	1.13	1.14	1.15
.176:	1.16	1.18	1.19	1.21	1.23	1.26	1.28	1.30	1.31	1.33
.178:	1.35	1.36	1.37	1.37	1.38	1.38	1.38	1.38	1.38	1.37
.179:	1.37	1.36	1.36	1.35	1.34	1.33	1.31	1.28	1.26	1.23
.180:	1.21	1.17	1.13	1.09	1.05	1.00	.95	.90	.85	.80
.181:	.74	.69	.64	.60	.55	.50	.46	.42	.38	.35
.183:	.33	.31	.28	.26	.24	.23	.21	.19	.17	.15
.184:	.13	.11	.09	.07	.05	.03	.02	-.00	-.02	-.04
.185:	-.06	-.08	-.09	-.11	-.12	-.13	-.15	-.16	-.17	-.19
.186:	-.21	-.23	-.24	-.26	-.28	-.31	-.33	-.35	-.38	-.40
.188:	-.42	-.44	-.46	-.47	-.48	-.48	-.48	-.48	-.48	-.47
.189:	-.46	-.45	-.44	-.43	-.41	-.39	-.37	-.34	-.31	-.27
.190:	-.22	-.17	-.11	-.04	.04	.12	.20	.27	.35	.43
.191:	.50	.56	.63	.68	.74	.79	.83	.88	.92	.95
.193:	.98	1.01	1.04	1.07	1.09	1.12	1.13	1.15	1.17	1.19
.194:	1.21	1.22	1.24	1.25	1.26	1.27	1.28	1.29	1.30	1.30
.195:	1.31	1.31	1.31	1.30	1.29	1.27	1.25	1.23	1.20	1.17
.196:	1.13	1.09	1.04	.99	.94	.88	.82	.77	.71	.66
.198:	.60	.55	.51	.46	.42	.38	.35	.32	.30	.28
.199:	.27	.26	.26	.26	.27	.28	.29	.31	.32	.34
.200:	.35	.36	.36	.37	.37	.37	.37	.37	.36	.36
.201:	.36	.36	.36	.36	.36	.35	.35	.35	.34	.33
.203:	.33	.32	.31	.29	.28	.27	.27	.26	.26	.26
.204:	.27	.28	.29	.30	.32	.35	.38	.42	.46	.51
.205:	.56	.61	.67	.73	.80	.87	.94	1.01	1.09	1.16
.206:	1.24	1.32	1.40	1.48	1.55	1.63	1.70	1.77	1.83	1.89
.208:	1.95	1.99	2.04	2.07	2.10	2.12	2.13	2.14	2.13	2.12
.209:	2.11	2.09	2.07	2.04	2.01	1.98	1.94	1.91	1.87	1.83
.210:	1.80	1.76	1.73	1.69	1.65	1.62	1.59	1.56	1.53	1.51
.211:	1.48	1.46	1.43	1.41	1.39	1.37	1.35	1.33	1.31	1.29
.213:	1.26	1.24	1.21	1.18	1.15	1.11	1.08	1.03	.99	.94
.214:	.89	.83	.77	.71	.64	.57	.51	.44	.37	.30
.215:	.23	.17	.10	.04	-.02	-.08	-.14	-.19	-.23	-.27
.216:	-.31	-.35	-.38	-.40	-.42	-.44	-.46	-.48	-.48	-.49
.218:	-.50	-.50	-.51	-.51	-.52	-.54	-.54	-.55	-.56	-.57
.219:	-.58	-.60	-.62	-.63	-.65	-.67	-.69	-.71	-.73	-.76
.220:	-.70	-.80	-.82	-.85	-.87	-.89	-.91	-.94	-.96	-.97
.221:	-.99	-1.00	-1.01	-1.01	-1.02	-1.01	-1.00	-1.00	-.99	-.97
.223:	-.95	-.93	-.91	-.88	-.84	-.81	-.77	-.72	-.67	-.62
.224:	-.57	-.51	-.46	-.41	-.37	-.33	-.29	-.25	-.22	-.19
.225:	-.16	-.14	-.12	-.10	-.09	-.08	-.08	-.07	-.07	-.07

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

FILE NAME B:F0801364.A50

DELTA= .13 MSEC: 8000.0 S/SEC.

N. POINTS= 2860 END TIME= 357.50 MSEC.

TIME :											
.045:	-.64	-.65	-.65	-.65	-.65	-.66	-.66	-.66	-.67	-.67	
.046:	-.67	-.68	-.68	-.68	-.69	-.69	-.69	-.70	-.70	-.70	
.048:	-.71	-.71	-.71	-.72	-.72	-.73	-.73	-.74	-.74	-.74	
.049:	-.75	-.76	-.76	-.77	-.77	-.78	-.78	-.79	-.79	-.80	
.050:	-.80	-.81	-.81	-.82	-.82	-.82	-.83	-.83	-.84	-.84	
.051:	-.85	-.85	-.86	-.86	-.87	-.87	-.88	-.89	-.90	-.91	
.053:	-.92	-.92	-.93	-.94	-.95	-.96	-.97	-.97	-.98	-.99	
.054:	-.99	-1.00	-1.00	-1.01	-1.01	-1.02	-1.02	-1.03	-1.03	-1.04	
.055:	-1.04	-1.05	-1.06	-1.07	-1.07	-1.08	-1.09	-1.10	-1.12	-1.13	
.056:	-1.14	-1.15	-1.17	-1.18	-1.19	-1.21	-1.22	-1.24	-1.25	-1.27	
.058:	-1.28	-1.30	-1.31	-1.33	-1.34	-1.35	-1.37	-1.38	-1.39	-1.41	
.059:	-1.42	-1.43	-1.44	-1.45	-1.46	-1.47	-1.48	-1.49	-1.50	-1.50	
.060:	-1.51	-1.51	-1.52	-1.52	-1.52	-1.52	-1.52	-1.52	-1.52	-1.52	
.061:	-1.52	-1.51	-1.51	-1.51	-1.50	-1.50	-1.49	-1.48	-1.48	-1.47	
.063:	-1.46	-1.46	-1.45	-1.44	-1.43	-1.42	-1.41	-1.41	-1.40	-1.39	
.064:	-1.38	-1.37	-1.36	-1.35	-1.34	-1.33	-1.32	-1.31	-1.30	-1.29	
.065:	-1.28	-1.27	-1.26	-1.25	-1.24	-1.22	-1.21	-1.20	-1.19	-1.18	
.066:	-1.18	-1.17	-1.16	-1.15	-1.14	-1.14	-1.13	-1.13	-1.12	-1.12	
.068:	-1.12	-1.11	-1.11	-1.11	-1.11	-1.11	-1.11	-1.11	-1.11	-1.11	
.069:	-1.12	-1.12	-1.12	-1.12	-1.12	-1.13	-1.13	-1.13	-1.13	-1.14	
.070:	-1.14	-1.14	-1.14	-1.14	-1.15	-1.15	-1.15	-1.15	-1.16	-1.16	
.071:	-1.16	-1.16	-1.16	-1.17	-1.17	-1.17	-1.17	-1.18	-1.18	-1.18	
.073:	-1.18	-1.19	-1.19	-1.19	-1.19	-1.19	-1.20	-1.20	-1.20	-1.20	
.074:	-1.21	-1.21	-1.21	-1.21	-1.21	-1.21	-1.22	-1.22	-1.22	-1.22	
.075:	-1.22	-1.22	-1.22	-1.22	-1.22	-1.22	-1.22	-1.22	-1.22	-1.22	
.076:	-1.22	-1.22	-1.22	-1.22	-1.22	-1.22	-1.21	-1.21	-1.21	-1.21	
.078:	-1.21	-1.21	-1.20	-1.20	-1.20	-1.20	-1.20	-1.20	-1.20	-1.19	
.079:	-1.19	-1.19	-1.19	-1.19	-1.19	-1.19	-1.19	-1.19	-1.19	-1.19	
.080:	-1.19	-1.20	-1.20	-1.20	-1.20	-1.20	-1.21	-1.21	-1.21	-1.21	
.081:	-1.22	-1.22	-1.23	-1.23	-1.24	-1.24	-1.24	-1.25	-1.26	-1.26	
.083:	-1.27	-1.27	-1.28	-1.29	-1.29	-1.30	-1.31	-1.31	-1.32	-1.33	
.084:	-1.34	-1.34	-1.35	-1.36	-1.37	-1.37	-1.38	-1.39	-1.39	-1.40	
.085:	-1.41	-1.41	-1.42	-1.42	-1.43	-1.43	-1.44	-1.44	-1.44	-1.44	
.086:	-1.45	-1.45	-1.45	-1.44	-1.44	-1.44	-1.44	-1.43	-1.43	-1.43	
.088:	-1.42	-1.41	-1.41	-1.40	-1.40	-1.39	-1.38	-1.37	-1.36	-1.35	
.089:	-1.35	-1.34	-1.33	-1.32	-1.31	-1.30	-1.28	-1.27	-1.26	-1.25	
.090:	-1.24	-1.23	-1.22	-1.21	-1.19	-1.18	-1.17	-1.16	-1.15	-1.14	
.091:	-1.12	-1.11	-1.10	-1.09	-1.08	-1.07	-1.06	-1.05	-1.03	-1.02	
.093:	-1.01	-1.00	-.99	-.98	-.97	-.96	-.95	-.94	-.94	-.93	
.094:	-.92	-.91	-.90	-.90	-.89	-.88	-.87	-.87	-.86	-.86	
.095:	-.85	-.85	-.84	-.84	-.83	-.83	-.82	-.82	-.82	-.81	
.096:	-.81	-.81	-.80	-.80	-.80	-.80	-.80	-.80	-.80	-.80	
.098:	-.79	-.79	-.80	-.80	-.80	-.80	-.80	-.80	-.80	-.80	
.099:	-.80	-.81	-.81	-.81	-.81	-.82	-.82	-.82	-.82	-.83	
.100:	-.83	-.83	-.83	-.83	-.84	-.84	-.84	-.84	-.84	-.84	
.101:	-.84	-.85	-.85	-.85	-.85	-.85	-.85	-.84	-.84	-.84	
.103:	-.84	-.84	-.84	-.84	-.83	-.83	-.83	-.83	-.83	-.82	
.104:	-.82	-.82	-.81	-.81	-.81	-.80	-.80	-.80	-.79	-.79	

Vehicle c.g., Y-Axis, 50 msec Avg. (cont'd.)

TIME :										
.105:	-.78	-.78	-.78	-.77	-.77	-.77	-.76	-.76	-.75	-.75
.106:	-.75	-.74	-.74	-.73	-.73	-.73	-.72	-.72	-.72	-.72
.108:	-.71	-.71	-.71	-.71	-.70	-.70	-.70	-.70	-.70	-.69
.109:	-.69	-.69	-.69	-.69	-.69	-.69	-.69	-.69	-.69	-.69
.110:	-.69	-.69	-.69	-.69	-.70	-.70	-.70	-.70	-.70	-.70
.111:	-.71	-.71	-.71	-.71	-.72	-.72	-.72	-.72	-.72	-.73
.113:	-.73	-.73	-.73	-.73	-.73	-.73	-.73	-.73	-.73	-.73
.114:	-.73	-.73	-.73	-.73	-.73	-.73	-.73	-.72	-.72	-.72
.115:	-.72	-.71	-.71	-.71	-.71	-.70	-.70	-.70	-.69	-.69
.116:	-.69	-.68	-.68	-.68	-.67	-.67	-.67	-.66	-.66	-.65
.118:	-.65	-.65	-.64	-.64	-.64	-.63	-.63	-.63	-.62	-.62
.119:	-.62	-.62	-.62	-.61	-.61	-.61	-.61	-.61	-.61	-.61
.120:	-.61	-.61	-.61	-.61	-.61	-.61	-.61	-.61	-.61	-.62
.121:	-.62	-.62	-.62	-.62	-.62	-.62	-.62	-.62	-.62	-.62
.123:	-.62	-.62	-.63	-.63	-.63	-.63	-.63	-.63	-.63	-.63
.124:	-.63	-.63	-.63	-.63	-.63	-.63	-.63	-.63	-.63	-.63
.125:	-.63	-.63	-.63	-.63	-.62	-.62	-.62	-.62	-.62	-.62
.126:	-.62	-.61	-.61	-.61	-.61	-.60	-.60	-.60	-.60	-.59
.128:	-.59	-.59	-.58	-.58	-.58	-.57	-.57	-.56	-.56	-.56
.129:	-.55	-.55	-.54	-.54	-.53	-.52	-.52	-.51	-.51	-.50
.130:	-.50	-.49	-.48	-.48	-.47	-.46	-.46	-.45	-.44	-.44
.131:	-.43	-.42	-.42	-.41	-.40	-.39	-.39	-.38	-.37	-.36
.133:	-.35	-.35	-.34	-.33	-.32	-.31	-.31	-.30	-.29	-.28
.134:	-.27	-.27	-.26	-.25	-.24	-.24	-.23	-.22	-.22	-.21
.135:	-.20	-.20	-.19	-.19	-.18	-.18	-.18	-.18	-.17	-.17
.136:	-.17	-.17	-.18	-.18	-.18	-.18	-.19	-.19	-.20	-.20
.138:	-.21	-.22	-.22	-.23	-.24	-.25	-.26	-.27	-.28	-.29
.139:	-.30	-.31	-.32	-.33	-.34	-.35	-.36	-.37	-.39	-.40
.140:	-.41	-.42	-.44	-.45	-.46	-.47	-.49	-.50	-.51	-.53
.141:	-.54	-.55	-.56	-.58	-.59	-.60	-.61	-.63	-.64	-.65
.143:	-.66	-.67	-.69	-.70	-.71	-.72	-.73	-.74	-.75	-.76
.144:	-.77	-.78	-.79	-.80	-.81	-.82	-.83	-.83	-.84	-.85
.145:	-.86	-.86	-.87	-.88	-.88	-.89	-.89	-.90	-.90	-.91
.146:	-.91	-.91	-.92	-.92	-.92	-.92	-.92	-.92	-.93	-.93
.148:	-.93	-.92	-.92	-.92	-.92	-.92	-.92	-.91	-.91	-.91
.149:	-.90	-.90	-.89	-.89	-.89	-.88	-.88	-.87	-.87	-.86
.150:	-.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.151:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.153:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.154:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.155:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.156:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.158:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.159:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.160:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.161:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.163:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.164:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.165:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

FILE NAME B:F0801365.A50

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

TIME ;										
.045:	.23	.23	.22	.22	.21	.21	.20	.19	.19	.18
.046:	.17	.17	.16	.15	.14	.13	.13	.12	.11	.11
.048:	.10	.09	.09	.08	.08	.07	.07	.06	.06	.05
.049:	.05	.04	.04	.03	.03	.02	.02	.01	.01	.01
.050:	.00	.00	.00	-.00	-.00	-.00	-.00	-.00	-.01	-.01
.051:	-.01	-.01	-.01	-.01	-.01	-.01	-.01	-.01	-.01	-.02
.053:	-.02	-.02	-.02	-.02	-.03	-.03	-.03	-.04	-.04	-.05
.054:	-.05	-.06	-.06	-.07	-.07	-.08	-.08	-.09	-.09	-.09
.055:	-.10	-.10	-.10	-.10	-.11	-.11	-.11	-.11	-.11	-.11
.056:	-.12	-.12	-.12	-.12	-.12	-.13	-.13	-.13	-.14	-.14
.058:	-.14	-.14	-.15	-.15	-.15	-.15	-.15	-.15	-.15	-.15
.059:	-.16	-.16	-.16	-.16	-.15	-.15	-.15	-.15	-.15	-.15
.060:	-.15	-.15	-.15	-.15	-.15	-.14	-.14	-.14	-.14	-.13
.061:	-.13	-.13	-.12	-.12	-.12	-.12	-.11	-.11	-.11	-.11
.063:	-.10	-.10	-.10	-.09	-.09	-.09	-.08	-.08	-.07	-.07
.064:	-.06	-.06	-.05	-.04	-.04	-.03	-.02	-.01	-.00	.01
.065:	.01	.02	.03	.04	.05	.06	.07	.08	.09	.10
.066:	.11	.12	.13	.14	.14	.15	.16	.17	.17	.18
.068:	.19	.19	.20	.20	.21	.21	.21	.21	.22	.22
.069:	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22
.070:	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22
.071:	.22	.22	.22	.22	.22	.21	.21	.21	.21	.21
.073:	.21	.21	.21	.21	.21	.20	.20	.20	.20	.20
.074:	.20	.20	.20	.19	.19	.19	.19	.19	.19	.18
.075:	.18	.18	.18	.18	.17	.17	.17	.16	.16	.16
.076:	.15	.15	.14	.14	.13	.13	.13	.12	.12	.11
.078:	.11	.11	.10	.10	.10	.10	.10	.09	.09	.09
.079:	.09	.09	.10	.10	.10	.10	.10	.10	.10	.11
.080:	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11
.081:	.11	.11	.11	.11	.10	.10	.09	.09	.08	.08
.083:	.07	.06	.05	.05	.04	.03	.02	.01	.00	-.01
.084:	-.02	-.03	-.04	-.05	-.05	-.06	-.07	-.08	-.09	-.10
.085:	-.11	-.12	-.13	-.13	-.14	-.15	-.15	-.16	-.17	-.17
.086:	-.18	-.18	-.19	-.19	-.20	-.20	-.21	-.21	-.22	-.22
.088:	-.23	-.23	-.23	-.24	-.24	-.25	-.25	-.26	-.26	-.27
.089:	-.27	-.28	-.28	-.29	-.29	-.30	-.31	-.31	-.32	-.33
.090:	-.33	-.34	-.35	-.35	-.36	-.37	-.37	-.38	-.39	-.39
.091:	-.40	-.41	-.41	-.42	-.42	-.43	-.44	-.44	-.45	-.45
.093:	-.46	-.46	-.46	-.47	-.47	-.48	-.48	-.48	-.48	-.49
.094:	-.49	-.49	-.49	-.49	-.49	-.49	-.49	-.49	-.50	-.50
.095:	-.50	-.50	-.50	-.50	-.50	-.50	-.50	-.50	-.50	-.50
.096:	-.50	-.50	-.50	-.50	-.50	-.50	-.50	-.51	-.51	-.51
.098:	-.51	-.52	-.52	-.52	-.53	-.53	-.53	-.54	-.54	-.54
.099:	-.55	-.55	-.55	-.55	-.55	-.56	-.56	-.56	-.57	-.57
.100:	-.57	-.58	-.59	-.59	-.60	-.60	-.61	-.61	-.62	-.62
.101:	-.63	-.63	-.64	-.64	-.65	-.65	-.66	-.66	-.67	-.67
.103:	-.68	-.68	-.69	-.69	-.70	-.70	-.71	-.71	-.72	-.72
.104:	-.73	-.73	-.74	-.74	-.75	-.76	-.76	-.77	-.78	-.79

Vehicle c.g., Z-Axis, 50 msec Avg. (cont'd.)

TIME :											
.105:	-.79	-.80	-.81	-.82	-.83	-.84	-.85	-.86	-.87	-.88	
.106:	-.89	-.90	-.91	-.92	-.93	-.94	-.96	-.97	-.98	-.99	
.108:	-1.00	-1.01	-1.02	-1.04	-1.05	-1.06	-1.07	-1.08	-1.09	-1.10	
.109:	-1.11	-1.12	-1.13	-1.14	-1.15	-1.16	-1.17	-1.18	-1.19	-1.19	
.110:	-1.20	-1.21	-1.21	-1.22	-1.23	-1.23	-1.24	-1.24	-1.25	-1.25	
.111:	-1.25	-1.26	-1.26	-1.26	-1.27	-1.27	-1.27	-1.28	-1.28	-1.28	
.113:	-1.28	-1.29	-1.29	-1.29	-1.29	-1.29	-1.29	-1.29	-1.30	-1.30	
.114:	-1.30	-1.30	-1.30	-1.30	-1.30	-1.30	-1.30	-1.30	-1.30	-1.30	
.115:	-1.30	-1.30	-1.30	-1.30	-1.30	-1.30	-1.30	-1.30	-1.30	-1.30	
.116:	-1.30	-1.29	-1.29	-1.29	-1.29	-1.29	-1.29	-1.28	-1.28	-1.28	
.118:	-1.28	-1.27	-1.27	-1.26	-1.26	-1.26	-1.25	-1.25	-1.24	-1.24	
.119:	-1.23	-1.22	-1.22	-1.21	-1.21	-1.20	-1.19	-1.19	-1.18	-1.17	
.120:	-1.17	-1.16	-1.15	-1.14	-1.14	-1.13	-1.12	-1.12	-1.11	-1.10	
.121:	-1.10	-1.09	-1.09	-1.08	-1.07	-1.07	-1.06	-1.06	-1.05	-1.05	
.123:	-1.04	-1.04	-1.03	-1.03	-1.02	-1.02	-1.01	-1.01	-1.01	-1.00	
.124:	-1.00	-1.00	-.99	-.99	-.99	-.98	-.98	-.98	-.97	-.97	
.125:	-.97	-.97	-.96	-.96	-.96	-.96	-.95	-.95	-.95	-.94	
.126:	-.94	-.94	-.93	-.93	-.93	-.92	-.92	-.92	-.91	-.91	
.128:	-.91	-.91	-.91	-.91	-.90	-.90	-.90	-.90	-.90	-.91	
.129:	-.91	-.91	-.91	-.91	-.91	-.91	-.92	-.92	-.92	-.92	
.130:	-.92	-.93	-.93	-.93	-.93	-.93	-.93	-.93	-.93	-.93	
.131:	-.93	-.93	-.93	-.92	-.92	-.92	-.91	-.91	-.90	-.89	
.133:	-.89	-.88	-.87	-.86	-.85	-.85	-.84	-.83	-.82	-.81	
.134:	-.80	-.79	-.78	-.77	-.76	-.75	-.74	-.73	-.72	-.71	
.135:	-.71	-.70	-.69	-.68	-.68	-.67	-.66	-.66	-.65	-.65	
.136:	-.64	-.64	-.63	-.63	-.62	-.62	-.61	-.61	-.61	-.60	
.138:	-.60	-.59	-.59	-.58	-.58	-.58	-.57	-.57	-.56	-.55	
.139:	-.55	-.54	-.54	-.53	-.52	-.52	-.51	-.50	-.49	-.49	
.140:	-.48	-.47	-.47	-.46	-.45	-.44	-.44	-.43	-.42	-.42	
.141:	-.41	-.41	-.40	-.40	-.39	-.39	-.39	-.38	-.38	-.38	
.143:	-.38	-.37	-.37	-.37	-.37	-.37	-.37	-.37	-.37	-.37	
.144:	-.37	-.37	-.37	-.37	-.37	-.36	-.36	-.36	-.36	-.36	
.145:	-.35	-.35	-.35	-.34	-.34	-.33	-.33	-.32	-.32	-.31	
.146:	-.31	-.30	-.29	-.29	-.28	-.27	-.27	-.26	-.25	-.25	
.148:	-.24	-.23	-.22	-.22	-.21	-.20	-.19	-.19	-.18	-.17	
.149:	-.16	-.16	-.15	-.14	-.14	-.13	-.12	-.11	-.11	-.10	
.150:	-.09	-.09	-.08	-.07	-.07	-.06	-.05	-.04	-.04	-.03	
.151:	-.02	-.01	-.01	.00	.01	.02	.03	.04	.05	.06	
.153:	.07	.08	.09	.10	.11	.12	.13	.14	.15	.16	
.154:	.17	.18	.19	.20	.21	.23	.24	.25	.26	.27	
.155:	.28	.29	.30	.31	.32	.33	.34	.35	.36	.37	
.156:	.38	.39	.40	.41	.42	.43	.44	.45	.45	.46	
.158:	.47	.48	.48	.49	.50	.50	.51	.52	.52	.53	
.159:	.53	.54	.54	.55	.55	.56	.56	.56	.57	.57	
.160:	.57	.58	.58	.59	.59	.59	.60	.60	.60	.61	
.161:	.61	.62	.62	.62	.63	.63	.64	.64	.65	.65	
.163:	.66	.66	.67	.67	.67	.68	.68	.69	.69	.69	
.164:	.70	.70	.71	.71	.71	.72	.72	.72	.73	.73	
.165:	.73	.73	.74	.74	.74	.75	.75	.75	.76	.76	

APPENDIX F

INTEGRAL DATA

APPENDIX F

Small Sign Supports Test, Phase 1, Rigid Pole Impact. Test No. 5

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:

F0801223	- X Axis
F0801324	- Y Axis
Impact Time	- 0.045 sec
Time Step	- 0.00125 sec
Velocity (IN1) Units	- ft/sec
Displ. (IN2) Units	- in.

Velocity, X-Axis

FILE NAME B:F0801323.IN1

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

TIME :											
.045:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.00
.046:	-0.00	-0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.03	-0.04	
.048:	-0.05	-0.06	-0.07	-0.09	-0.11	-0.13	-0.15	-0.18	-0.21	-0.25	
.049:	-0.28	-0.32	-0.36	-0.40	-0.45	-0.49	-0.53	-0.57	-0.62	-0.66	
.050:	-0.70	-0.74	-0.78	-0.82	-0.86	-0.91	-0.95	-0.99	-1.04	-1.08	
.051:	-1.12	-1.16	-1.20	-1.24	-1.28	-1.32	-1.37	-1.41	-1.46	-1.52	
.053:	-1.57	-1.63	-1.69	-1.76	-1.82	-1.87	-1.92	-1.97	-2.00	-2.03	
.054:	-2.04	-2.05	-2.05	-2.05	-2.03	-2.02	-2.00	-1.98	-1.97	-1.96	
.055:	-1.95	-1.95	-1.96	-1.97	-1.99	-2.02	-2.06	-2.10	-2.15	-2.20	
.056:	-2.25	-2.31	-2.37	-2.42	-2.47	-2.51	-2.55	-2.59	-2.62	-2.65	
.058:	-2.67	-2.69	-2.72	-2.74	-2.77	-2.79	-2.83	-2.86	-2.89	-2.93	
.059:	-2.96	-2.99	-3.01	-3.03	-3.04	-3.04	-3.04	-3.02	-3.00	-2.98	
.060:	-2.95	-2.93	-2.90	-2.88	-2.87	-2.86	-2.85	-2.86	-2.87	-2.88	
.061:	-2.90	-2.92	-2.95	-2.98	-3.00	-3.03	-3.06	-3.09	-3.11	-3.14	
.063:	-3.16	-3.18	-3.20	-3.22	-3.24	-3.25	-3.25	-3.26	-3.26	-3.26	
.064:	-3.25	-3.24	-3.22	-3.20	-3.17	-3.14	-3.12	-3.09	-3.06	-3.03	
.065:	-3.01	-3.00	-2.99	-2.98	-2.99	-3.00	-3.03	-3.06	-3.09	-3.14	
.066:	-3.18	-3.23	-3.28	-3.33	-3.38	-3.42	-3.45	-3.48	-3.49	-3.50	
.068:	-3.50	-3.50	-3.48	-3.46	-3.44	-3.41	-3.37	-3.34	-3.30	-3.26	
.069:	-3.23	-3.20	-3.17	-3.14	-3.12	-3.10	-3.09	-3.09	-3.09	-3.09	
.070:	-3.10	-3.12	-3.13	-3.15	-3.17	-3.20	-3.22	-3.24	-3.27	-3.29	
.071:	-3.32	-3.34	-3.36	-3.38	-3.40	-3.42	-3.43	-3.45	-3.46	-3.46	
.073:	-3.47	-3.47	-3.47	-3.47	-3.47	-3.47	-3.47	-3.47	-3.47	-3.46	
.074:	-3.46	-3.46	-3.47	-3.47	-3.47	-3.48	-3.49	-3.50	-3.51	-3.53	
.075:	-3.54	-3.56	-3.58	-3.60	-3.63	-3.65	-3.68	-3.70	-3.73	-3.75	
.076:	-3.77	-3.79	-3.81	-3.82	-3.84	-3.85	-3.86	-3.87	-3.88	-3.88	
.078:	-3.89	-3.90	-3.90	-3.91	-3.92	-3.93	-3.94	-3.95	-3.97	-3.99	
.079:	-4.00	-4.03	-4.05	-4.08	-4.10	-4.13	-4.16	-4.19	-4.23	-4.26	
.080:	-4.29	-4.32	-4.36	-4.39	-4.43	-4.46	-4.50	-4.53	-4.57	-4.60	
.081:	-4.64	-4.67	-4.70	-4.74	-4.77	-4.80	-4.82	-4.85	-4.88	-4.90	
.083:	-4.92	-4.95	-4.97	-4.99	-5.01	-5.04	-5.06	-5.08	-5.11	-5.13	
.084:	-5.16	-5.19	-5.22	-5.25	-5.28	-5.31	-5.34	-5.37	-5.40	-5.43	
.085:	-5.46	-5.49	-5.52	-5.54	-5.57	-5.59	-5.61	-5.63	-5.65	-5.67	
.086:	-5.69	-5.71	-5.73	-5.75	-5.77	-5.79	-5.82	-5.84	-5.87	-5.90	
.088:	-5.93	-5.97	-6.00	-6.04	-6.08	-6.12	-6.16	-6.20	-6.24	-6.28	
.089:	-6.32	-6.36	-6.39	-6.43	-6.46	-6.49	-6.53	-6.55	-6.58	-6.61	
.090:	-6.63	-6.66	-6.68	-6.70	-6.72	-6.75	-6.77	-6.79	-6.82	-6.84	
.091:	-6.87	-6.89	-6.92	-6.95	-6.98	-7.01	-7.04	-7.07	-7.10	-7.14	
.093:	-7.18	-7.21	-7.25	-7.30	-7.34	-7.39	-7.43	-7.48	-7.52	-7.57	
.094:	-7.61	-7.66	-7.70	-7.74	-7.78	-7.82	-7.86	-7.90	-7.94	-7.98	
.095:	-8.02	-8.06	-8.10	-8.15	-8.19	-8.24	-8.28	-8.32	-8.35	-8.38	
.096:	-8.40	-8.42	-8.44	-8.45	-8.45	-8.46	-8.47	-8.48	-8.50	-8.52	
.098:	-8.55	-8.59	-8.64	-8.70	-8.77	-8.84	-8.92	-9.00	-9.07	-9.14	
.099:	-9.19	-9.24	-9.26	-9.28	-9.29	-9.30	-9.31	-9.33	-9.35	-9.38	
.100:	-9.43	-9.49	-9.56	-9.63	-9.71	-9.79	-9.86	-9.94	-10.00	-10.06	
.101:	-10.12	-10.16	-10.21	-10.25	-10.29	-10.33	-10.38	-10.43	-10.48	-10.53	
.103:	-10.58	-10.63	-10.67	-10.71	-10.74	-10.77	-10.80	-10.83	-10.85	-10.88	
.104:	-10.92	-10.96	-11.01	-11.06	-11.12	-11.18	-11.24	-11.30	-11.37	-11.43	

Velocity, X-Axis (cont'd.)

TIME											
.105:	-11.48	-11.53	-11.58	-11.63	-11.67	-11.71	-11.75	-11.79	-11.84	-11.89	
.106:	-11.94	-12.00	-12.05	-12.11	-12.17	-12.23	-12.28	-12.33	-12.38	-12.42	
.108:	-12.46	-12.49	-12.53	-12.56	-12.59	-12.62	-12.66	-12.70	-12.74	-12.79	
.109:	-12.85	-12.91	-12.98	-13.05	-13.13	-13.20	-13.28	-13.36	-13.44	-13.51	
.110:	-13.57	-13.64	-13.69	-13.74	-13.79	-13.83	-13.86	-13.90	-13.93	-13.96	
.111:	-13.99	-14.02	-14.05	-14.09	-14.13	-14.17	-14.22	-14.27	-14.33	-14.38	
.113:	-14.44	-14.50	-14.56	-14.61	-14.67	-14.73	-14.78	-14.83	-14.89	-14.94	
.114:	-14.99	-15.04	-15.08	-15.13	-15.18	-15.23	-15.27	-15.32	-15.36	-15.41	
.115:	-15.45	-15.50	-15.54	-15.59	-15.63	-15.68	-15.72	-15.76	-15.81	-15.85	
.116:	-15.89	-15.94	-15.98	-16.03	-16.07	-16.12	-16.17	-16.22	-16.27	-16.32	
.118:	-16.37	-16.42	-16.47	-16.51	-16.56	-16.60	-16.64	-16.68	-16.72	-16.75	
.119:	-16.79	-16.82	-16.85	-16.89	-16.92	-16.95	-16.99	-17.03	-17.06	-17.11	
.120:	-17.15	-17.20	-17.25	-17.30	-17.35	-17.41	-17.47	-17.53	-17.59	-17.65	
.121:	-17.71	-17.78	-17.83	-17.89	-17.94	-17.99	-18.04	-18.08	-18.12	-18.16	
.123:	-18.19	-18.22	-18.25	-18.27	-18.30	-18.33	-18.36	-18.39	-18.43	-18.46	
.124:	-18.51	-18.55	-18.60	-18.66	-18.72	-18.78	-18.85	-18.91	-18.98	-19.05	
.125:	-19.12	-19.19	-19.25	-19.31	-19.37	-19.41	-19.46	-19.49	-19.53	-19.55	
.126:	-19.57	-19.59	-19.60	-19.61	-19.62	-19.64	-19.65	-19.67	-19.70	-19.73	
.128:	-19.76	-19.80	-19.85	-19.91	-19.97	-20.04	-20.12	-20.20	-20.28	-20.37	
.129:	-20.46	-20.56	-20.65	-20.74	-20.83	-20.92	-21.00	-21.09	-21.16	-21.24	
.130:	-21.31	-21.38	-21.45	-21.51	-21.57	-21.63	-21.68	-21.74	-21.79	-21.83	
.131:	-21.88	-21.92	-21.97	-22.01	-22.05	-22.09	-22.14	-22.18	-22.22	-22.27	
.133:	-22.32	-22.37	-22.42	-22.47	-22.53	-22.59	-22.64	-22.70	-22.76	-22.83	
.134:	-22.89	-22.95	-23.02	-23.08	-23.15	-23.22	-23.29	-23.36	-23.43	-23.50	
.135:	-23.57	-23.64	-23.71	-23.78	-23.85	-23.92	-23.99	-24.06	-24.13	-24.19	
.136:	-24.26	-24.32	-24.39	-24.45	-24.51	-24.58	-24.64	-24.70	-24.76	-24.83	
.138:	-24.89	-24.95	-25.02	-25.09	-25.16	-25.23	-25.30	-25.37	-25.44	-25.52	
.139:	-25.59	-25.67	-25.75	-25.82	-25.90	-25.97	-26.05	-26.12	-26.20	-26.28	
.140:	-26.35	-26.43	-26.50	-26.58	-26.65	-26.73	-26.80	-26.87	-26.94	-27.01	
.141:	-27.07	-27.13	-27.19	-27.25	-27.30	-27.36	-27.41	-27.46	-27.51	-27.56	
.143:	-27.61	-27.66	-27.71	-27.76	-27.81	-27.86	-27.92	-27.97	-28.02	-28.08	
.144:	-28.13	-28.18	-28.23	-28.28	-28.32	-28.37	-28.40	-28.44	-28.47	-28.49	
.145:	-28.52	-28.54	-28.55	-28.57	-28.58	-28.59	-28.61	-28.63	-28.65	-28.67	
.146:	-28.70	-28.73	-28.77	-28.82	-28.87	-28.93	-28.99	-29.06	-29.12	-29.19	
.148:	-29.27	-29.34	-29.41	-29.48	-29.54	-29.61	-29.67	-29.72	-29.77	-29.82	
.149:	-29.86	-29.89	-29.93	-29.95	-29.98	-30.00	-30.02	-30.04	-30.05	-30.07	
.150:	-30.08	-30.10	-30.11	-30.13	-30.15	-30.17	-30.19	-30.21	-30.23	-30.25	
.151:	-30.27	-30.30	-30.32	-30.35	-30.37	-30.40	-30.43	-30.45	-30.48	-30.51	
.153:	-30.53	-30.56	-30.59	-30.62	-30.64	-30.67	-30.70	-30.73	-30.76	-30.79	
.154:	-30.82	-30.85	-30.88	-30.91	-30.95	-30.98	-31.01	-31.03	-31.06	-31.09	
.155:	-31.11	-31.14	-31.16	-31.19	-31.21	-31.23	-31.25	-31.27	-31.28	-31.30	
.156:	-31.32	-31.33	-31.35	-31.36	-31.38	-31.39	-31.41	-31.42	-31.44	-31.45	
.158:	-31.47	-31.48	-31.49	-31.51	-31.52	-31.53	-31.54	-31.55	-31.56	-31.58	
.159:	-31.59	-31.60	-31.61	-31.62	-31.64	-31.65	-31.67	-31.68	-31.70	-31.72	
.160:	-31.74	-31.76	-31.77	-31.79	-31.81	-31.83	-31.85	-31.86	-31.88	-31.89	
.161:	-31.90	-31.91	-31.91	-31.92	-31.92	-31.92	-31.93	-31.93	-31.93	-31.94	
.163:	-31.94	-31.95	-31.95	-31.96	-31.97	-31.98	-31.99	-32.00	-32.01	-32.03	
.164:	-32.04	-32.05	-32.07	-32.08	-32.09	-32.11	-32.12	-32.13	-32.14	-32.14	
.165:	-32.15	-32.16	-32.16	-32.16	-32.16	-32.16	-32.16	-32.16	-32.16	-32.16	

Velocity, X-Axis (cont'd.)

TIME											
.166:	-32.17	-32.17	-32.17	-32.18	-32.18	-32.19	-32.20	-32.21	-32.22	-32.23	
.168:	-32.24	-32.25	-32.26	-32.27	-32.28	-32.29	-32.29	-32.30	-32.30	-32.31	
.169:	-32.31	-32.31	-32.31	-32.31	-32.31	-32.31	-32.31	-32.31	-32.31	-32.30	
.170:	-32.30	-32.30	-32.30	-32.30	-32.30	-32.29	-32.29	-32.29	-32.29	-32.29	
.171:	-32.29	-32.28	-32.28	-32.28	-32.28	-32.28	-32.28	-32.27	-32.27	-32.27	
.173:	-32.26	-32.26	-32.25	-32.25	-32.24	-32.24	-32.23	-32.22	-32.22	-32.21	
.174:	-32.20	-32.20	-32.19	-32.18	-32.18	-32.17	-32.17	-32.16	-32.16	-32.15	
.175:	-32.15	-32.15	-32.14	-32.14	-32.14	-32.13	-32.13	-32.13	-32.12	-32.12	
.176:	-32.12	-32.11	-32.11	-32.11	-32.10	-32.10	-32.10	-32.09	-32.09	-32.09	
.178:	-32.08	-32.08	-32.08	-32.07	-32.07	-32.07	-32.07	-32.06	-32.06	-32.05	
.179:	-32.05	-32.04	-32.04	-32.03	-32.02	-32.02	-32.01	-32.01	-32.00	-31.99	
.180:	-31.99	-31.98	-31.97	-31.97	-31.97	-31.96	-31.96	-31.95	-31.95	-31.95	
.181:	-31.95	-31.95	-31.95	-31.95	-31.95	-31.95	-31.95	-31.95	-31.95	-31.95	
.183:	-31.95	-31.94	-31.94	-31.94	-31.94	-31.93	-31.92	-31.92	-31.91	-31.90	
.184:	-31.89	-31.88	-31.87	-31.86	-31.86	-31.85	-31.84	-31.83	-31.83	-31.83	
.185:	-31.82	-31.82	-31.82	-31.83	-31.83	-31.83	-31.83	-31.84	-31.84	-31.84	
.186:	-31.84	-31.84	-31.84	-31.84	-31.84	-31.84	-31.83	-31.83	-31.83	-31.82	
.188:	-31.82	-31.81	-31.81	-31.81	-31.80	-31.80	-31.80	-31.80	-31.80	-31.79	
.189:	-31.79	-31.79	-31.78	-31.78	-31.78	-31.77	-31.77	-31.76	-31.76	-31.75	
.190:	-31.74	-31.74	-31.73	-31.72	-31.72	-31.71	-31.71	-31.71	-31.70	-31.70	
.191:	-31.70	-31.70	-31.70	-31.70	-31.70	-31.70	-31.70	-31.70	-31.70	-31.70	
.193:	-31.70	-31.69	-31.69	-31.69	-31.69	-31.69	-31.68	-31.68	-31.68	-31.67	
.194:	-31.67	-31.67	-31.67	-31.67	-31.67	-31.67	-31.66	-31.66	-31.66	-31.66	
.195:	-31.66	-31.65	-31.65	-31.65	-31.64	-31.63	-31.63	-31.62	-31.61	-31.60	
.196:	-31.59	-31.58	-31.57	-31.57	-31.56	-31.55	-31.54	-31.54	-31.53	-31.53	
.198:	-31.52	-31.52	-31.52	-31.52	-31.51	-31.51	-31.51	-31.50	-31.50	-31.50	
.199:	-31.49	-31.49	-31.49	-31.48	-31.48	-31.48	-31.47	-31.47	-31.47	-31.46	
.200:	-31.46	-31.46	-31.45	-31.45	-31.45	-31.45	-31.45	-31.45	-31.45	-31.45	
.201:	-31.46	-31.46	-31.46	-31.47	-31.47	-31.48	-31.48	-31.48	-31.49	-31.49	
.203:	-31.49	-31.49	-31.48	-31.48	-31.47	-31.47	-31.46	-31.45	-31.44	-31.43	
.204:	-31.42	-31.41	-31.40	-31.39	-31.38	-31.37	-31.36	-31.35	-31.34	-31.33	
.205:	-31.33	-31.32	-31.32	-31.32	-31.31	-31.31	-31.31	-31.31	-31.32	-31.32	
.206:	-31.32	-31.32	-31.31	-31.31	-31.31	-31.31	-31.30	-31.29	-31.28	-31.27	
.208:	-31.26	-31.25	-31.24	-31.23	-31.22	-31.21	-31.20	-31.19	-31.18	-31.17	
.209:	-31.16	-31.16	-31.16	-31.15	-31.15	-31.16	-31.16	-31.16	-31.16	-31.17	
.210:	-31.17	-31.17	-31.18	-31.18	-31.18	-31.18	-31.18	-31.18	-31.18	-31.18	
.211:	-31.17	-31.17	-31.16	-31.15	-31.15	-31.14	-31.13	-31.12	-31.11	-31.11	
.213:	-31.10	-31.09	-31.08	-31.07	-31.06	-31.05	-31.05	-31.04	-31.03	-31.03	
.214:	-31.02	-31.02	-31.02	-31.01	-31.01	-31.01	-31.01	-31.01	-31.01	-31.01	
.215:	-31.00	-31.00	-31.00	-31.00	-31.00	-31.00	-31.00	-31.00	-31.00	-31.00	
.216:	-31.00	-31.00	-31.00	-31.00	-31.00	-31.00	-31.00	-31.00	-31.00	-30.99	
.218:	-30.98	-30.98	-30.97	-30.96	-30.95	-30.94	-30.93	-30.92	-30.91	-30.89	
.219:	-30.88	-30.87	-30.86	-30.85	-30.85	-30.84	-30.83	-30.83	-30.83	-30.83	
.220:	-30.82	-30.82	-30.82	-30.83	-30.83	-30.83	-30.83	-30.84	-30.84	-30.84	
.221:	-30.85	-30.85	-30.86	-30.86	-30.86	-30.87	-30.87	-30.88	-30.88	-30.88	
.223:	-30.89	-30.89	-30.89	-30.89	-30.89	-30.89	-30.89	-30.88	-30.88	-30.87	
.224:	-30.87	-30.86	-30.86	-30.86	-30.85	-30.85	-30.84	-30.84	-30.83	-30.83	
.225:	-30.82	-30.82	-30.82	-30.82	-30.82	-30.82	-30.82	-30.82	-30.82	-30.82	

Displacement, X-Axis

FILE NAME B:F0801323.IN2

DELTA= .13 MSEC: 8000.0 S/SEC.

NO. POINTS= 2860 END TIME= 357.50 MSEC.

TIME :											
.045:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.00
.046:	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
.048:	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
.049:	-0.00	-0.00	-0.00	-0.00	-0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
.050:	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
.051:	-0.02	-0.03	-0.03	-0.03	-0.03	-0.03	-0.04	-0.04	-0.04	-0.04	-0.04
.053:	-0.04	-0.05	-0.05	-0.05	-0.05	-0.06	-0.06	-0.06	-0.06	-0.07	-0.07
.054:	-0.07	-0.08	-0.08	-0.08	-0.08	-0.09	-0.09	-0.09	-0.09	-0.10	-0.10
.055:	-0.10	-0.11	-0.11	-0.11	-0.11	-0.12	-0.12	-0.12	-0.12	-0.13	-0.13
.056:	-0.13	-0.14	-0.14	-0.14	-0.15	-0.15	-0.16	-0.16	-0.16	-0.16	-0.17
.058:	-0.17	-0.18	-0.18	-0.18	-0.19	-0.19	-0.20	-0.20	-0.20	-0.20	-0.21
.059:	-0.21	-0.22	-0.22	-0.23	-0.23	-0.24	-0.24	-0.24	-0.25	-0.25	-0.25
.060:	-0.26	-0.26	-0.27	-0.27	-0.28	-0.28	-0.28	-0.29	-0.29	-0.29	-0.30
.061:	-0.30	-0.31	-0.31	-0.32	-0.32	-0.32	-0.33	-0.33	-0.33	-0.34	-0.34
.063:	-0.35	-0.35	-0.36	-0.36	-0.37	-0.37	-0.38	-0.38	-0.38	-0.39	-0.39
.064:	-0.40	-0.40	-0.41	-0.41	-0.42	-0.42	-0.42	-0.43	-0.43	-0.43	-0.44
.065:	-0.44	-0.45	-0.45	-0.46	-0.46	-0.47	-0.47	-0.47	-0.47	-0.48	-0.48
.066:	-0.49	-0.49	-0.50	-0.50	-0.51	-0.51	-0.52	-0.52	-0.52	-0.53	-0.53
.068:	-0.54	-0.55	-0.55	-0.56	-0.56	-0.57	-0.57	-0.57	-0.58	-0.58	-0.59
.069:	-0.59	-0.60	-0.60	-0.60	-0.61	-0.61	-0.62	-0.62	-0.62	-0.63	-0.63
.070:	-0.64	-0.64	-0.65	-0.65	-0.66	-0.66	-0.67	-0.67	-0.67	-0.68	-0.68
.071:	-0.69	-0.69	-0.70	-0.70	-0.71	-0.71	-0.72	-0.72	-0.72	-0.73	-0.73
.073:	-0.74	-0.74	-0.75	-0.75	-0.76	-0.76	-0.77	-0.77	-0.77	-0.78	-0.78
.074:	-0.79	-0.79	-0.80	-0.80	-0.81	-0.81	-0.82	-0.83	-0.83	-0.83	-0.84
.075:	-0.84	-0.85	-0.85	-0.86	-0.86	-0.87	-0.87	-0.88	-0.88	-0.88	-0.89
.076:	-0.90	-0.90	-0.91	-0.91	-0.92	-0.92	-0.93	-0.94	-0.94	-0.94	-0.95
.078:	-0.95	-0.96	-0.97	-0.97	-0.98	-0.98	-0.99	-1.00	-1.00	-1.00	-1.01
.079:	-1.01	-1.02	-1.03	-1.03	-1.04	-1.04	-1.05	-1.06	-1.06	-1.06	-1.07
.080:	-1.08	-1.08	-1.09	-1.09	-1.10	-1.11	-1.12	-1.12	-1.12	-1.13	-1.14
.081:	-1.14	-1.15	-1.16	-1.16	-1.17	-1.18	-1.19	-1.19	-1.19	-1.20	-1.21
.083:	-1.21	-1.22	-1.23	-1.24	-1.24	-1.25	-1.26	-1.26	-1.27	-1.27	-1.28
.084:	-1.29	-1.30	-1.31	-1.31	-1.32	-1.33	-1.34	-1.34	-1.35	-1.35	-1.36
.085:	-1.37	-1.38	-1.39	-1.40	-1.40	-1.41	-1.42	-1.43	-1.43	-1.44	-1.45
.086:	-1.45	-1.46	-1.47	-1.48	-1.49	-1.50	-1.51	-1.51	-1.51	-1.52	-1.53
.088:	-1.54	-1.55	-1.56	-1.57	-1.58	-1.59	-1.60	-1.61	-1.61	-1.61	-1.62
.089:	-1.63	-1.64	-1.65	-1.66	-1.67	-1.68	-1.69	-1.70	-1.70	-1.71	-1.72
.090:	-1.73	-1.74	-1.75	-1.76	-1.77	-1.78	-1.79	-1.80	-1.80	-1.81	-1.82
.091:	-1.83	-1.84	-1.85	-1.86	-1.87	-1.88	-1.90	-1.91	-1.91	-1.92	-1.93
.093:	-1.94	-1.95	-1.96	-1.97	-1.98	-1.99	-2.00	-2.01	-2.01	-2.03	-2.04
.094:	-2.05	-2.06	-2.07	-2.08	-2.10	-2.11	-2.12	-2.13	-2.13	-2.14	-2.15
.095:	-2.17	-2.18	-2.19	-2.20	-2.22	-2.23	-2.24	-2.25	-2.25	-2.27	-2.28
.096:	-2.29	-2.30	-2.32	-2.33	-2.34	-2.35	-2.37	-2.38	-2.38	-2.39	-2.40
.098:	-2.42	-2.43	-2.44	-2.46	-2.47	-2.48	-2.50	-2.51	-2.51	-2.52	-2.54
.099:	-2.55	-2.56	-2.58	-2.59	-2.61	-2.62	-2.63	-2.65	-2.65	-2.66	-2.68
.100:	-2.69	-2.70	-2.72	-2.73	-2.75	-2.76	-2.78	-2.79	-2.81	-2.81	-2.82
.101:	-2.84	-2.85	-2.87	-2.88	-2.90	-2.91	-2.93	-2.95	-2.96	-2.96	-2.98
.103:	-2.99	-3.01	-3.03	-3.04	-3.06	-3.07	-3.09	-3.11	-3.12	-3.12	-3.14
.104:	-3.15	-3.17	-3.19	-3.20	-3.22	-3.24	-3.25	-3.27	-3.29	-3.29	-3.31

Displacement, X-Axis (cont'd.)

TIME :											
.105:	-3.32	-3.34	-3.36	-3.38	-3.39	-3.41	-3.43	-3.45	-3.46	-3.48	
.106:	-3.50	-3.52	-3.54	-3.55	-3.57	-3.59	-3.61	-3.63	-3.65	-3.66	
.108:	-3.68	-3.70	-3.72	-3.74	-3.76	-3.78	-3.80	-3.81	-3.83	-3.85	
.109:	-3.87	-3.89	-3.91	-3.93	-3.95	-3.97	-3.99	-4.01	-4.03	-4.05	
.110:	-4.07	-4.09	-4.11	-4.13	-4.15	-4.17	-4.19	-4.22	-4.24	-4.26	
.111:	-4.28	-4.30	-4.32	-4.34	-4.36	-4.38	-4.41	-4.43	-4.45	-4.47	
.113:	-4.49	-4.51	-4.54	-4.56	-4.58	-4.60	-4.62	-4.65	-4.67	-4.69	
.114:	-4.71	-4.74	-4.76	-4.78	-4.80	-4.83	-4.85	-4.87	-4.90	-4.92	
.115:	-4.94	-4.96	-4.99	-5.01	-5.04	-5.06	-5.08	-5.11	-5.13	-5.15	
.116:	-5.18	-5.20	-5.23	-5.25	-5.27	-5.30	-5.32	-5.35	-5.37	-5.39	
.118:	-5.42	-5.44	-5.47	-5.49	-5.52	-5.54	-5.57	-5.59	-5.62	-5.64	
.119:	-5.67	-5.69	-5.72	-5.74	-5.77	-5.80	-5.82	-5.85	-5.87	-5.90	
.120:	-5.92	-5.95	-5.97	-6.00	-6.03	-6.05	-6.08	-6.11	-6.13	-6.16	
.121:	-6.18	-6.21	-6.24	-6.27	-6.29	-6.32	-6.35	-6.37	-6.40	-6.43	
.123:	-6.46	-6.48	-6.51	-6.54	-6.56	-6.59	-6.62	-6.65	-6.67	-6.70	
.124:	-6.73	-6.76	-6.79	-6.81	-6.84	-6.87	-6.90	-6.93	-6.96	-6.98	
.125:	-7.01	-7.04	-7.07	-7.10	-7.13	-7.16	-7.19	-7.22	-7.25	-7.27	
.126:	-7.30	-7.33	-7.36	-7.39	-7.42	-7.45	-7.48	-7.51	-7.54	-7.57	
.128:	-7.60	-7.63	-7.66	-7.69	-7.72	-7.75	-7.78	-7.81	-7.84	-7.87	
.129:	-7.90	-7.93	-7.96	-7.99	-8.02	-8.06	-8.09	-8.12	-8.15	-8.18	
.130:	-8.21	-8.25	-8.28	-8.31	-8.34	-8.38	-8.41	-8.44	-8.47	-8.51	
.131:	-8.54	-8.57	-8.61	-8.64	-8.67	-8.70	-8.74	-8.77	-8.80	-8.84	
.133:	-8.87	-8.90	-8.94	-8.97	-9.01	-9.04	-9.07	-9.11	-9.14	-9.18	
.134:	-9.21	-9.24	-9.28	-9.31	-9.35	-9.38	-9.42	-9.45	-9.49	-9.52	
.135:	-9.56	-9.59	-9.63	-9.67	-9.70	-9.74	-9.77	-9.81	-9.85	-9.88	
.136:	-9.92	-9.95	-9.99	-10.03	-10.06	-10.10	-10.14	-10.18	-10.21	-10.25	
.138:	-10.29	-10.32	-10.36	-10.40	-10.44	-10.48	-10.51	-10.55	-10.59	-10.63	
.139:	-10.67	-10.71	-10.74	-10.78	-10.82	-10.86	-10.90	-10.94	-10.98	-11.02	
.140:	-11.06	-11.10	-11.14	-11.18	-11.22	-11.26	-11.30	-11.34	-11.38	-11.42	
.141:	-11.46	-11.50	-11.54	-11.58	-11.62	-11.66	-11.70	-11.74	-11.79	-11.83	
.143:	-11.87	-11.91	-11.95	-11.99	-12.04	-12.08	-12.12	-12.16	-12.20	-12.24	
.144:	-12.29	-12.33	-12.37	-12.41	-12.46	-12.50	-12.54	-12.58	-12.63	-12.67	
.145:	-12.71	-12.76	-12.80	-12.84	-12.88	-12.93	-12.97	-13.01	-13.06	-13.10	
.146:	-13.14	-13.18	-13.23	-13.27	-13.31	-13.36	-13.40	-13.44	-13.49	-13.53	
.148:	-13.58	-13.62	-13.66	-13.71	-13.75	-13.80	-13.84	-13.89	-13.93	-13.98	
.149:	-14.02	-14.07	-14.11	-14.16	-14.20	-14.25	-14.29	-14.34	-14.38	-14.43	
.150:	-14.47	-14.52	-14.56	-14.61	-14.65	-14.70	-14.74	-14.79	-14.83	-14.88	
.151:	-14.92	-14.97	-15.01	-15.06	-15.11	-15.15	-15.20	-15.24	-15.29	-15.33	
.153:	-15.38	-15.43	-15.47	-15.52	-15.56	-15.61	-15.66	-15.70	-15.75	-15.79	
.154:	-15.84	-15.89	-15.93	-15.98	-16.03	-16.07	-16.12	-16.16	-16.21	-16.26	
.155:	-16.30	-16.35	-16.40	-16.45	-16.49	-16.54	-16.59	-16.63	-16.68	-16.73	
.156:	-16.77	-16.82	-16.87	-16.91	-16.96	-17.01	-17.06	-17.10	-17.15	-17.20	
.158:	-17.24	-17.29	-17.34	-17.39	-17.43	-17.48	-17.53	-17.58	-17.62	-17.67	
.159:	-17.72	-17.76	-17.81	-17.86	-17.91	-17.95	-18.00	-18.05	-18.10	-18.14	
.160:	-18.19	-18.24	-18.29	-18.34	-18.38	-18.43	-18.48	-18.53	-18.57	-18.62	
.161:	-18.67	-18.72	-18.77	-18.81	-18.86	-18.91	-18.96	-19.00	-19.05	-19.10	
.163:	-19.15	-19.20	-19.24	-19.29	-19.34	-19.39	-19.44	-19.48	-19.53	-19.58	
.164:	-19.63	-19.68	-19.72	-19.77	-19.82	-19.87	-19.92	-19.97	-20.01	-20.06	
.165:	-20.11	-20.16	-20.21	-20.25	-20.30	-20.35	-20.40	-20.45	-20.50	-20.54	

Displacement, X-Axis (cont'd.)

TIME :											
.166:	-20.59	-20.64	-20.69	-20.74	-20.79	-20.83	-20.88	-20.93	-20.98	-21.03	
.168:	-21.08	-21.12	-21.17	-21.22	-21.27	-21.32	-21.37	-21.41	-21.46	-21.51	
.169:	-21.56	-21.61	-21.66	-21.71	-21.75	-21.80	-21.85	-21.90	-21.95	-22.00	
.170:	-22.04	-22.09	-22.14	-22.19	-22.24	-22.29	-22.34	-22.38	-22.43	-22.48	
.171:	-22.53	-22.58	-22.63	-22.67	-22.72	-22.77	-22.82	-22.87	-22.92	-22.96	
.173:	-23.01	-23.06	-23.11	-23.16	-23.21	-23.25	-23.30	-23.35	-23.40	-23.45	
.174:	-23.50	-23.54	-23.59	-23.64	-23.69	-23.74	-23.79	-23.83	-23.88	-23.93	
.175:	-23.98	-24.03	-24.08	-24.12	-24.17	-24.22	-24.27	-24.32	-24.36	-24.41	
.176:	-24.46	-24.51	-24.56	-24.61	-24.65	-24.70	-24.75	-24.80	-24.85	-24.89	
.178:	-24.94	-24.99	-25.04	-25.09	-25.13	-25.18	-25.23	-25.28	-25.33	-25.38	
.179:	-25.42	-25.47	-25.52	-25.57	-25.62	-25.66	-25.71	-25.76	-25.81	-25.86	
.180:	-25.90	-25.95	-26.00	-26.05	-26.10	-26.14	-26.19	-26.24	-26.29	-26.34	
.181:	-26.38	-26.43	-26.48	-26.53	-26.57	-26.62	-26.67	-26.72	-26.77	-26.81	
.183:	-26.86	-26.91	-26.96	-27.01	-27.05	-27.10	-27.15	-27.20	-27.25	-27.29	
.184:	-27.34	-27.39	-27.44	-27.48	-27.53	-27.58	-27.63	-27.68	-27.72	-27.77	
.185:	-27.82	-27.87	-27.91	-27.96	-28.01	-28.06	-28.11	-28.15	-28.20	-28.25	
.186:	-28.30	-28.34	-28.39	-28.44	-28.49	-28.54	-28.58	-28.63	-28.68	-28.73	
.188:	-28.77	-28.82	-28.87	-28.92	-28.96	-29.01	-29.06	-29.11	-29.16	-29.20	
.189:	-29.25	-29.30	-29.35	-29.39	-29.44	-29.49	-29.54	-29.58	-29.63	-29.68	
.190:	-29.73	-29.78	-29.82	-29.87	-29.92	-29.97	-30.01	-30.06	-30.11	-30.16	
.191:	-30.20	-30.25	-30.30	-30.35	-30.39	-30.44	-30.49	-30.54	-30.58	-30.63	
.193:	-30.68	-30.73	-30.77	-30.82	-30.87	-30.92	-30.96	-31.01	-31.06	-31.11	
.194:	-31.15	-31.20	-31.25	-31.30	-31.34	-31.39	-31.44	-31.49	-31.53	-31.58	
.195:	-31.63	-31.68	-31.72	-31.77	-31.82	-31.87	-31.91	-31.96	-32.01	-32.06	
.196:	-32.10	-32.15	-32.20	-32.25	-32.29	-32.34	-32.39	-32.43	-32.48	-32.53	
.198:	-32.58	-32.62	-32.67	-32.72	-32.77	-32.81	-32.86	-32.91	-32.95	-33.00	
.199:	-33.05	-33.10	-33.14	-33.19	-33.24	-33.29	-33.33	-33.38	-33.43	-33.47	
.200:	-33.52	-33.57	-33.62	-33.66	-33.71	-33.76	-33.80	-33.85	-33.90	-33.95	
.201:	-33.99	-34.04	-34.09	-34.13	-34.18	-34.23	-34.28	-34.32	-34.37	-34.42	
.203:	-34.47	-34.51	-34.56	-34.61	-34.65	-34.70	-34.75	-34.80	-34.84	-34.89	
.204:	-34.94	-34.98	-35.03	-35.08	-35.13	-35.17	-35.22	-35.27	-35.31	-35.36	
.205:	-35.41	-35.45	-35.50	-35.55	-35.60	-35.64	-35.69	-35.74	-35.78	-35.83	
.206:	-35.88	-35.92	-35.97	-36.02	-36.07	-36.11	-36.16	-36.21	-36.25	-36.30	
.208:	-36.35	-36.39	-36.44	-36.49	-36.53	-36.58	-36.63	-36.67	-36.72	-36.77	
.209:	-36.81	-36.86	-36.91	-36.95	-37.00	-37.05	-37.10	-37.14	-37.19	-37.24	
.210:	-37.28	-37.33	-37.38	-37.42	-37.47	-37.52	-37.56	-37.61	-37.66	-37.70	
.211:	-37.75	-37.80	-37.84	-37.89	-37.94	-37.98	-38.03	-38.08	-38.12	-38.17	
.213:	-38.22	-38.26	-38.31	-38.36	-38.40	-38.45	-38.50	-38.54	-38.59	-38.64	
.214:	-38.68	-38.73	-38.78	-38.82	-38.87	-38.92	-38.96	-39.01	-39.05	-39.10	
.215:	-39.15	-39.19	-39.24	-39.29	-39.33	-39.38	-39.43	-39.47	-39.52	-39.57	
.216:	-39.61	-39.66	-39.71	-39.75	-39.80	-39.85	-39.89	-39.94	-39.98	-40.03	
.218:	-40.08	-40.12	-40.17	-40.22	-40.26	-40.31	-40.36	-40.40	-40.45	-40.50	
.219:	-40.54	-40.59	-40.63	-40.68	-40.73	-40.77	-40.82	-40.87	-40.91	-40.96	
.220:	-41.00	-41.05	-41.10	-41.14	-41.19	-41.24	-41.28	-41.33	-41.37	-41.42	
.221:	-41.47	-41.51	-41.56	-41.61	-41.65	-41.70	-41.74	-41.79	-41.84	-41.88	
.223:	-41.93	-41.98	-42.02	-42.07	-42.12	-42.16	-42.21	-42.25	-42.30	-42.35	
.224:	-42.39	-42.44	-42.49	-42.53	-42.58	-42.62	-42.67	-42.72	-42.76	-42.81	
.225:	-42.86	-42.90	-42.95	-42.99	-43.04	-43.09	-43.13	-43.18	-43.23	-43.27	
.226:	-43.32	-43.36	-43.41	-43.46	-43.50	-43.55	-43.60	-43.64	-43.69	-43.73	

Velocity, Y-Axis

FILE NAME B:F0801324.IN1

ELTA= .13 MSEC: 8000.0 S/SEC.
NO. POINTS= 2840 END TIME= 357.50 MSEC.

TIME :											
.045:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.046:	.00	.00	.01	.01	.01	.01	.02	.02	.03	.04	
.048:	.05	.06	.07	.08	.09	.10	.11	.11	.11	.11	
.049:	.10	.09	.07	.05	.03	.00	-.03	-.05	-.08	-.10	
.050:	-.12	-.13	-.14	-.13	-.11	-.07	-.03	.03	.10	.16	
.051:	.23	.29	.35	.39	.41	.42	.40	.37	.32	.25	
.053:	.18	.10	.02	-.06	-.14	-.20	-.24	-.27	-.29	-.28	
.054:	-.26	-.22	-.17	-.10	-.02	.06	.15	.24	.32	.41	
.055:	.49	.56	.62	.67	.71	.74	.77	.78	.79	.79	
.056:	.78	.77	.76	.74	.72	.70	.68	.65	.63	.61	
.058:	.59	.58	.56	.54	.52	.51	.49	.47	.45	.43	
.059:	.41	.39	.37	.35	.33	.31	.28	.26	.24	.21	
.060:	.19	.17	.15	.12	.10	.08	.06	.04	.02	-.01	
.061:	-.03	-.05	-.07	-.09	-.12	-.14	-.16	-.18	-.21	-.23	
.063:	-.25	-.28	-.30	-.32	-.35	-.37	-.40	-.42	-.45	-.48	
.064:	-.51	-.54	-.57	-.60	-.63	-.66	-.68	-.71	-.72	-.74	
.065:	-.74	-.75	-.74	-.73	-.71	-.69	-.66	-.63	-.60	-.56	
.066:	-.53	-.49	-.45	-.42	-.39	-.36	-.33	-.30	-.28	-.27	
.068:	-.25	-.24	-.24	-.23	-.23	-.24	-.24	-.25	-.25	-.26	
.069:	-.27	-.28	-.29	-.30	-.31	-.32	-.33	-.35	-.36	-.36	
.070:	-.37	-.38	-.38	-.39	-.39	-.39	-.39	-.39	-.39	-.39	
.071:	-.39	-.39	-.39	-.38	-.38	-.38	-.38	-.38	-.39	-.39	
.073:	-.40	-.40	-.41	-.42	-.43	-.44	-.46	-.47	-.48	-.50	
.074:	-.51	-.53	-.55	-.56	-.58	-.60	-.61	-.63	-.65	-.66	
.075:	-.68	-.70	-.71	-.73	-.74	-.76	-.78	-.79	-.81	-.83	
.076:	-.84	-.86	-.88	-.89	-.91	-.92	-.93	-.94	-.95	-.96	
.078:	-.96	-.96	-.97	-.97	-.97	-.96	-.96	-.96	-.96	-.96	
.079:	-.96	-.95	-.95	-.95	-.95	-.95	-.95	-.94	-.94	-.94	
.080:	-.94	-.94	-.94	-.93	-.93	-.93	-.92	-.92	-.92	-.92	
.081:	-.92	-.92	-.92	-.92	-.92	-.92	-.92	-.92	-.92	-.92	
.083:	-.92	-.92	-.92	-.92	-.92	-.92	-.92	-.92	-.92	-.92	
.084:	-.93	-.93	-.93	-.93	-.93	-.93	-.93	-.93	-.93	-.94	
.085:	-.94	-.94	-.94	-.94	-.94	-.94	-.95	-.95	-.95	-.95	
.086:	-.95	-.95	-.96	-.96	-.96	-.96	-.96	-.97	-.97	-.97	
.088:	-.97	-.97	-.98	-.98	-.98	-.98	-.99	-.99	-.99	-.99	
.089:	-1.00	-1.00	-1.00	-1.01	-1.01	-1.01	-1.01	-1.02	-1.02	-1.02	
.090:	-1.03	-1.03	-1.03	-1.04	-1.04	-1.04	-1.05	-1.05	-1.05	-1.06	
.091:	-1.06	-1.06	-1.07	-1.07	-1.08	-1.08	-1.08	-1.09	-1.09	-1.10	
.093:	-1.10	-1.10	-1.11	-1.11	-1.12	-1.12	-1.13	-1.13	-1.13	-1.14	
.094:	-1.14	-1.15	-1.15	-1.16	-1.16	-1.17	-1.17	-1.18	-1.18	-1.19	
.095:	-1.19	-1.20	-1.20	-1.21	-1.22	-1.22	-1.23	-1.24	-1.25	-1.26	
.096:	-1.27	-1.27	-1.28	-1.29	-1.30	-1.31	-1.32	-1.32	-1.33	-1.34	
.098:	-1.35	-1.36	-1.37	-1.38	-1.38	-1.39	-1.40	-1.41	-1.42	-1.43	
.099:	-1.43	-1.44	-1.45	-1.46	-1.47	-1.48	-1.48	-1.49	-1.50	-1.51	
.100:	-1.52	-1.53	-1.54	-1.56	-1.57	-1.58	-1.59	-1.60	-1.62	-1.63	
.101:	-1.64	-1.65	-1.67	-1.68	-1.69	-1.70	-1.71	-1.72	-1.74	-1.75	
.103:	-1.76	-1.77	-1.78	-1.79	-1.80	-1.81	-1.82	-1.83	-1.84	-1.85	
.104:	-1.85	-1.86	-1.87	-1.88	-1.89	-1.90	-1.90	-1.91	-1.92	-1.92	

Velocity, Y-Axis (cont'd.)

TIME :											
.105:	-1.94	-1.95	-1.96	-1.97	-1.98	-1.99	-2.00	-2.01	-2.02	-2.03	
.106:	-2.04	-2.05	-2.06	-2.07	-2.07	-2.08	-2.09	-2.10	-2.11	-2.11	
.108:	-2.12	-2.12	-2.13	-2.13	-2.13	-2.12	-2.12	-2.11	-2.09	-2.08	
.109:	-2.06	-2.04	-2.02	-2.00	-1.98	-1.96	-1.94	-1.92	-1.90	-1.88	
.110:	-1.87	-1.85	-1.84	-1.84	-1.83	-1.83	-1.83	-1.83	-1.84	-1.85	
.111:	-1.86	-1.87	-1.89	-1.90	-1.92	-1.94	-1.95	-1.97	-1.99	-2.01	
.113:	-2.03	-2.04	-2.06	-2.08	-2.09	-2.11	-2.12	-2.13	-2.14	-2.15	
.114:	-2.16	-2.17	-2.18	-2.19	-2.19	-2.20	-2.21	-2.21	-2.22	-2.23	
.115:	-2.24	-2.24	-2.25	-2.26	-2.27	-2.28	-2.30	-2.31	-2.32	-2.34	
.116:	-2.35	-2.37	-2.38	-2.39	-2.40	-2.40	-2.41	-2.41	-2.41	-2.40	
.118:	-2.39	-2.38	-2.37	-2.36	-2.35	-2.33	-2.32	-2.31	-2.30	-2.29	
.119:	-2.28	-2.27	-2.27	-2.27	-2.27	-2.27	-2.27	-2.28	-2.29	-2.29	
.120:	-2.30	-2.31	-2.32	-2.33	-2.33	-2.34	-2.35	-2.36	-2.36	-2.37	
.121:	-2.38	-2.38	-2.39	-2.39	-2.39	-2.40	-2.40	-2.40	-2.41	-2.41	
.123:	-2.41	-2.42	-2.42	-2.43	-2.43	-2.44	-2.45	-2.45	-2.46	-2.47	
.124:	-2.48	-2.49	-2.50	-2.50	-2.51	-2.52	-2.53	-2.54	-2.55	-2.56	
.125:	-2.57	-2.58	-2.59	-2.60	-2.61	-2.62	-2.63	-2.64	-2.65	-2.66	
.126:	-2.67	-2.69	-2.70	-2.71	-2.72	-2.73	-2.75	-2.76	-2.78	-2.79	
.128:	-2.81	-2.82	-2.84	-2.85	-2.87	-2.88	-2.90	-2.91	-2.93	-2.94	
.129:	-2.96	-2.97	-2.99	-3.00	-3.02	-3.03	-3.04	-3.06	-3.07	-3.08	
.130:	-3.10	-3.11	-3.13	-3.14	-3.16	-3.17	-3.19	-3.20	-3.22	-3.23	
.131:	-3.25	-3.26	-3.28	-3.30	-3.31	-3.33	-3.34	-3.36	-3.37	-3.38	
.133:	-3.40	-3.41	-3.42	-3.44	-3.45	-3.46	-3.47	-3.48	-3.49	-3.49	
.134:	-3.48	-3.48	-3.47	-3.45	-3.43	-3.40	-3.37	-3.34	-3.30	-3.26	
.135:	-3.22	-3.17	-3.13	-3.09	-3.04	-3.00	-2.96	-2.92	-2.88	-2.85	
.136:	-2.82	-2.79	-2.76	-2.74	-2.72	-2.70	-2.68	-2.66	-2.64	-2.63	
.138:	-2.62	-2.60	-2.59	-2.58	-2.57	-2.56	-2.54	-2.53	-2.52	-2.51	
.139:	-2.50	-2.49	-2.47	-2.46	-2.45	-2.44	-2.43	-2.42	-2.41	-2.40	
.140:	-2.39	-2.38	-2.37	-2.37	-2.36	-2.35	-2.35	-2.35	-2.34	-2.34	
.141:	-2.34	-2.34	-2.34	-2.34	-2.34	-2.34	-2.34	-2.34	-2.35	-2.35	
.143:	-2.35	-2.36	-2.36	-2.37	-2.38	-2.38	-2.39	-2.40	-2.40	-2.41	
.144:	-2.42	-2.42	-2.43	-2.44	-2.44	-2.45	-2.46	-2.47	-2.48	-2.49	
.145:	-2.50	-2.51	-2.52	-2.53	-2.54	-2.56	-2.57	-2.58	-2.60	-2.61	
.146:	-2.63	-2.65	-2.66	-2.68	-2.70	-2.71	-2.73	-2.75	-2.77	-2.79	
.148:	-2.80	-2.82	-2.84	-2.86	-2.87	-2.89	-2.90	-2.91	-2.92	-2.92	
.149:	-2.93	-2.93	-2.93	-2.93	-2.93	-2.93	-2.92	-2.92	-2.92	-2.91	
.150:	-2.90	-2.90	-2.89	-2.89	-2.89	-2.88	-2.88	-2.88	-2.88	-2.88	
.151:	-2.88	-2.88	-2.88	-2.88	-2.89	-2.89	-2.89	-2.90	-2.90	-2.90	
.153:	-2.91	-2.91	-2.91	-2.92	-2.92	-2.92	-2.92	-2.92	-2.92	-2.93	
.154:	-2.93	-2.93	-2.93	-2.94	-2.94	-2.94	-2.95	-2.95	-2.96	-2.97	
.155:	-2.98	-2.99	-3.00	-3.01	-3.02	-3.04	-3.05	-3.07	-3.08	-3.10	
.156:	-3.11	-3.13	-3.14	-3.16	-3.17	-3.19	-3.20	-3.21	-3.22	-3.23	
.158:	-3.24	-3.25	-3.25	-3.26	-3.26	-3.26	-3.26	-3.25	-3.25	-3.24	
.159:	-3.24	-3.23	-3.22	-3.22	-3.21	-3.20	-3.20	-3.19	-3.19	-3.18	
.160:	-3.18	-3.17	-3.17	-3.16	-3.16	-3.15	-3.15	-3.15	-3.15	-3.14	
.161:	-3.14	-3.14	-3.14	-3.14	-3.14	-3.14	-3.14	-3.14	-3.14	-3.14	
.163:	-3.14	-3.14	-3.14	-3.14	-3.14	-3.14	-3.14	-3.14	-3.14	-3.14	
.164:	-3.14	-3.14	-3.15	-3.15	-3.15	-3.15	-3.16	-3.16	-3.17	-3.17	
.165:	-3.18	-3.18	-3.19	-3.20	-3.20	-3.21	-3.22	-3.22	-3.23	-3.24	

Velocity, Y-Axis (cont'd.)

TIME :											
.166:	-3.24	-3.25	-3.25	-3.26	-3.26	-3.27	-3.27	-3.28	-3.28	-3.29	
.168:	-3.29	-3.30	-3.31	-3.31	-3.32	-3.33	-3.33	-3.34	-3.35	-3.35	
.169:	-3.36	-3.36	-3.37	-3.37	-3.38	-3.38	-3.38	-3.39	-3.39	-3.39	
.170:	-3.40	-3.40	-3.40	-3.41	-3.41	-3.41	-3.41	-3.41	-3.41	-3.42	
.171:	-3.42	-3.42	-3.42	-3.42	-3.42	-3.43	-3.43	-3.43	-3.43	-3.43	
.173:	-3.43	-3.44	-3.44	-3.44	-3.44	-3.44	-3.44	-3.45	-3.45	-3.45	
.174:	-3.45	-3.45	-3.45	-3.46	-3.46	-3.46	-3.46	-3.46	-3.46	-3.47	
.175:	-3.47	-3.47	-3.47	-3.47	-3.47	-3.48	-3.48	-3.48	-3.48	-3.48	
.176:	-3.48	-3.48	-3.48	-3.48	-3.48	-3.48	-3.48	-3.48	-3.48	-3.48	
.178:	-3.48	-3.48	-3.48	-3.48	-3.48	-3.48	-3.49	-3.49	-3.49	-3.49	
.179:	-3.49	-3.49	-3.50	-3.50	-3.50	-3.51	-3.51	-3.51	-3.51	-3.51	
.180:	-3.52	-3.52	-3.52	-3.52	-3.52	-3.52	-3.53	-3.53	-3.53	-3.53	
.181:	-3.53	-3.53	-3.53	-3.53	-3.53	-3.53	-3.53	-3.53	-3.54	-3.54	
.183:	-3.54	-3.55	-3.55	-3.56	-3.56	-3.57	-3.57	-3.57	-3.58	-3.58	
.184:	-3.58	-3.59	-3.59	-3.59	-3.59	-3.60	-3.60	-3.60	-3.60	-3.60	
.185:	-3.60	-3.61	-3.61	-3.61	-3.61	-3.61	-3.61	-3.62	-3.62	-3.62	
.186:	-3.62	-3.62	-3.63	-3.63	-3.63	-3.64	-3.64	-3.64	-3.65	-3.65	
.188:	-3.65	-3.66	-3.66	-3.66	-3.67	-3.67	-3.67	-3.68	-3.68	-3.69	
.189:	-3.69	-3.70	-3.70	-3.71	-3.71	-3.72	-3.72	-3.73	-3.73	-3.74	
.190:	-3.74	-3.75	-3.75	-3.76	-3.76	-3.77	-3.77	-3.78	-3.78	-3.79	
.191:	-3.80	-3.80	-3.81	-3.82	-3.83	-3.84	-3.84	-3.85	-3.86	-3.87	
.193:	-3.88	-3.89	-3.89	-3.90	-3.91	-3.92	-3.93	-3.93	-3.94	-3.95	
.194:	-3.95	-3.96	-3.96	-3.97	-3.97	-3.97	-3.98	-3.98	-3.98	-3.98	
.195:	-3.98	-3.99	-3.99	-3.99	-3.99	-3.99	-3.99	-3.99	-3.99	-3.99	
.196:	-3.98	-3.98	-3.98	-3.98	-3.98	-3.98	-3.98	-3.98	-3.98	-3.98	
.198:	-3.98	-3.98	-3.98	-3.98	-3.98	-3.98	-3.98	-3.99	-3.99	-3.99	
.199:	-3.99	-3.99	-4.00	-4.00	-4.00	-4.01	-4.01	-4.01	-4.02	-4.02	
.200:	-4.03	-4.03	-4.04	-4.04	-4.05	-4.05	-4.05	-4.06	-4.06	-4.06	
.201:	-4.07	-4.07	-4.07	-4.07	-4.08	-4.08	-4.08	-4.08	-4.08	-4.08	
.203:	-4.09	-4.09	-4.09	-4.09	-4.09	-4.10	-4.10	-4.10	-4.11	-4.11	
.204:	-4.12	-4.12	-4.13	-4.13	-4.14	-4.14	-4.15	-4.15	-4.15	-4.16	
.205:	-4.16	-4.16	-4.17	-4.17	-4.17	-4.18	-4.18	-4.18	-4.19	-4.19	
.206:	-4.19	-4.20	-4.20	-4.21	-4.21	-4.22	-4.22	-4.23	-4.23	-4.24	
.208:	-4.24	-4.25	-4.25	-4.25	-4.26	-4.26	-4.26	-4.26	-4.27	-4.27	
.209:	-4.27	-4.27	-4.27	-4.27	-4.27	-4.27	-4.27	-4.27	-4.27	-4.27	
.210:	-4.27	-4.27	-4.28	-4.28	-4.28	-4.29	-4.29	-4.29	-4.30	-4.30	
.211:	-4.31	-4.31	-4.32	-4.32	-4.33	-4.33	-4.33	-4.33	-4.33	-4.33	
.213:	-4.33	-4.33	-4.33	-4.32	-4.32	-4.32	-4.31	-4.30	-4.30	-4.30	
.214:	-4.29	-4.29	-4.29	-4.29	-4.29	-4.29	-4.29	-4.29	-4.29	-4.29	
.215:	-4.30	-4.30	-4.30	-4.31	-4.31	-4.32	-4.32	-4.33	-4.33	-4.33	
.216:	-4.34	-4.34	-4.34	-4.34	-4.35	-4.35	-4.35	-4.35	-4.35	-4.35	
.218:	-4.36	-4.36	-4.36	-4.36	-4.36	-4.37	-4.37	-4.37	-4.38	-4.38	
.219:	-4.38	-4.38	-4.39	-4.39	-4.39	-4.39	-4.39	-4.39	-4.39	-4.39	
.220:	-4.39	-4.39	-4.39	-4.39	-4.39	-4.39	-4.39	-4.39	-4.39	-4.39	
.221:	-4.38	-4.38	-4.38	-4.38	-4.38	-4.37	-4.37	-4.37	-4.36	-4.36	
.223:	-4.36	-4.35	-4.35	-4.35	-4.34	-4.34	-4.34	-4.33	-4.33	-4.33	
.224:	-4.33	-4.33	-4.32	-4.32	-4.32	-4.32	-4.32	-4.33	-4.33	-4.33	
.225:	-4.33	-4.33	-4.33	-4.34	-4.34	-4.34	-4.34	-4.34	-4.34	-4.35	

Displacement, Y-Axis

FILE NAME B:F0801324.IN2

ELTA= .13 MSEC: 8000.0 S/SEC.

NO. POINTS= 2860 END TIME= 357.50 MSEC.

TIME :											
.045:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.046:	.00	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%
.048:	.00	.0%	.0%	.0%	.0%	.0%	.00	.00	.00	.00	.00
.049:	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.050:	.00	.00	.00	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.00
.051:	.00	.00	.00	.00	.00	.00	.00	.01	.01	.01	.01
.053:	.01	.01	.01	.01	.01	.01	.01	.01	.01	.00	.00
.054:	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
.055:	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.02
.056:	.02	.02	.02	.02	.02	.02	.02	.02	.02	.03	.03
.058:	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03
.059:	.03	.03	.04	.04	.04	.04	.04	.04	.04	.04	.04
.060:	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04
.061:	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04
.063:	.04	.04	.04	.04	.04	.04	.03	.03	.03	.03	.03
.064:	.03	.03	.03	.03	.03	.03	.03	.03	.03	.02	.02
.065:	.02	.02	.02	.02	.02	.02	.02	.01	.01	.01	.01
.066:	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.068:	.01	.01	.01	.01	.01	.00	.00	.00	.00	.00	.00
.069:	.00	.00	.00	.00	.00	.0%	.0%	-.0%	-.0%	-.00	-.00
.070:	-.00	-.00	-.00	-.00	-.00	-.00	-.01	-.01	-.01	-.01	-.01
.071:	-.01	-.01	-.01	-.01	-.01	-.01	-.01	-.01	-.01	-.01	-.01
.073:	-.01	-.01	-.01	-.02	-.02	-.02	-.02	-.02	-.02	-.02	-.02
.074:	-.02	-.02	-.02	-.02	-.02	-.02	-.03	-.03	-.03	-.03	-.03
.075:	-.03	-.03	-.03	-.03	-.03	-.03	-.04	-.04	-.04	-.04	-.04
.076:	-.04	-.04	-.04	-.04	-.05	-.05	-.05	-.05	-.05	-.05	-.05
.078:	-.05	-.06	-.06	-.06	-.06	-.06	-.06	-.06	-.07	-.07	-.07
.079:	-.07	-.07	-.07	-.07	-.07	-.08	-.08	-.08	-.08	-.08	-.08
.080:	-.08	-.08	-.09	-.09	-.09	-.09	-.09	-.09	-.09	-.09	-.10
.081:	-.10	-.10	-.10	-.10	-.10	-.10	-.11	-.11	-.11	-.11	-.11
.083:	-.11	-.11	-.11	-.12	-.12	-.12	-.12	-.12	-.12	-.12	-.12
.084:	-.12	-.13	-.13	-.13	-.13	-.13	-.13	-.13	-.13	-.14	-.14
.085:	-.14	-.14	-.14	-.14	-.14	-.15	-.15	-.15	-.15	-.15	-.15
.086:	-.15	-.15	-.16	-.16	-.16	-.16	-.16	-.16	-.16	-.16	-.17
.088:	-.17	-.17	-.17	-.17	-.17	-.17	-.18	-.18	-.18	-.18	-.18
.089:	-.18	-.18	-.19	-.19	-.19	-.19	-.19	-.19	-.19	-.19	-.20
.090:	-.20	-.20	-.20	-.20	-.20	-.21	-.21	-.21	-.21	-.21	-.21
.091:	-.21	-.21	-.22	-.22	-.22	-.22	-.22	-.22	-.22	-.23	-.23
.093:	-.23	-.23	-.23	-.23	-.24	-.24	-.24	-.24	-.24	-.24	-.24
.094:	-.25	-.25	-.25	-.25	-.25	-.26	-.26	-.26	-.26	-.26	-.26
.095:	-.26	-.27	-.27	-.27	-.27	-.27	-.27	-.28	-.28	-.28	-.28
.096:	-.28	-.28	-.29	-.29	-.29	-.29	-.29	-.30	-.30	-.30	-.30
.098:	-.30	-.30	-.31	-.31	-.31	-.31	-.31	-.32	-.32	-.32	-.32
.099:	-.32	-.33	-.33	-.33	-.33	-.33	-.34	-.34	-.34	-.34	-.34
.100:	-.35	-.35	-.35	-.35	-.35	-.36	-.36	-.36	-.36	-.36	-.37
.101:	-.37	-.37	-.37	-.38	-.38	-.38	-.38	-.39	-.39	-.39	-.39
.103:	-.39	-.40	-.40	-.40	-.41	-.41	-.41	-.41	-.42	-.42	-.42
.104:	-.42	-.42	-.43	-.43	-.43	-.44	-.44	-.44	-.44	-.44	-.45

Displacement, Y-Axis (cont'd.)

TIME :										
.105:	-.45	-.45	-.46	-.46	-.46	-.47	-.47	-.47	-.47	-.48
.106:	-.48	-.48	-.49	-.49	-.49	-.50	-.50	-.50	-.51	-.51
.108:	-.51	-.51	-.52	-.52	-.52	-.53	-.53	-.53	-.54	-.54
.109:	-.54	-.55	-.55	-.55	-.56	-.56	-.56	-.56	-.57	-.57
.110:	-.57	-.58	-.58	-.58	-.58	-.59	-.59	-.59	-.59	-.60
.111:	-.60	-.60	-.61	-.61	-.61	-.61	-.62	-.62	-.62	-.63
.113:	-.63	-.63	-.64	-.64	-.64	-.64	-.65	-.65	-.65	-.66
.114:	-.66	-.66	-.67	-.67	-.67	-.68	-.68	-.68	-.69	-.69
.115:	-.69	-.70	-.70	-.70	-.71	-.71	-.71	-.72	-.72	-.72
.116:	-.73	-.73	-.74	-.74	-.74	-.75	-.75	-.75	-.76	-.76
.118:	-.76	-.77	-.77	-.77	-.78	-.78	-.79	-.79	-.79	-.80
.119:	-.80	-.80	-.81	-.81	-.81	-.82	-.82	-.82	-.83	-.83
.120:	-.83	-.84	-.84	-.84	-.85	-.85	-.85	-.86	-.86	-.86
.121:	-.87	-.87	-.88	-.88	-.88	-.89	-.89	-.89	-.90	-.90
.123:	-.90	-.91	-.91	-.92	-.92	-.92	-.93	-.93	-.93	-.94
.124:	-.94	-.94	-.95	-.95	-.96	-.96	-.96	-.97	-.97	-.98
.125:	-.98	-.98	-.99	-.99	-.99	-1.00	-1.00	-1.01	-1.01	-1.01
.126:	-1.02	-1.02	-1.03	-1.03	-1.03	-1.04	-1.04	-1.05	-1.05	-1.06
.128:	-1.06	-1.06	-1.07	-1.07	-1.08	-1.08	-1.09	-1.09	-1.09	-1.10
.129:	-1.10	-1.11	-1.11	-1.12	-1.12	-1.13	-1.13	-1.13	-1.14	-1.14
.130:	-1.15	-1.15	-1.16	-1.16	-1.17	-1.17	-1.18	-1.18	-1.19	-1.19
.131:	-1.20	-1.20	-1.21	-1.21	-1.22	-1.22	-1.23	-1.23	-1.24	-1.24
.133:	-1.25	-1.25	-1.26	-1.26	-1.27	-1.27	-1.28	-1.28	-1.29	-1.29
.134:	-1.30	-1.30	-1.31	-1.31	-1.32	-1.32	-1.33	-1.33	-1.34	-1.34
.135:	-1.35	-1.35	-1.36	-1.36	-1.37	-1.37	-1.38	-1.38	-1.38	-1.39
.136:	-1.39	-1.40	-1.40	-1.41	-1.41	-1.41	-1.42	-1.42	-1.43	-1.43
.138:	-1.43	-1.44	-1.44	-1.45	-1.45	-1.45	-1.46	-1.46	-1.46	-1.47
.139:	-1.47	-1.48	-1.48	-1.48	-1.49	-1.49	-1.49	-1.50	-1.50	-1.51
.140:	-1.51	-1.51	-1.52	-1.52	-1.52	-1.53	-1.53	-1.53	-1.54	-1.54
.141:	-1.54	-1.55	-1.55	-1.55	-1.56	-1.56	-1.57	-1.57	-1.57	-1.58
.143:	-1.58	-1.58	-1.59	-1.59	-1.59	-1.60	-1.60	-1.60	-1.61	-1.61
.144:	-1.61	-1.62	-1.62	-1.63	-1.63	-1.63	-1.64	-1.64	-1.64	-1.65
.145:	-1.65	-1.66	-1.66	-1.66	-1.67	-1.67	-1.67	-1.68	-1.68	-1.69
.146:	-1.69	-1.69	-1.70	-1.70	-1.71	-1.71	-1.71	-1.72	-1.72	-1.73
.148:	-1.73	-1.74	-1.74	-1.74	-1.75	-1.75	-1.76	-1.76	-1.77	-1.77
.149:	-1.77	-1.78	-1.78	-1.79	-1.79	-1.80	-1.80	-1.81	-1.81	-1.81
.150:	-1.82	-1.82	-1.83	-1.83	-1.84	-1.84	-1.84	-1.85	-1.85	-1.86
.151:	-1.86	-1.87	-1.87	-1.87	-1.88	-1.88	-1.89	-1.89	-1.90	-1.90
.153:	-1.90	-1.91	-1.91	-1.92	-1.92	-1.93	-1.93	-1.94	-1.94	-1.94
.154:	-1.95	-1.95	-1.96	-1.96	-1.97	-1.97	-1.98	-1.98	-1.98	-1.99
.155:	-1.99	-2.00	-2.00	-2.01	-2.01	-2.02	-2.02	-2.02	-2.03	-2.03
.156:	-2.04	-2.04	-2.05	-2.05	-2.06	-2.06	-2.07	-2.07	-2.08	-2.08
.158:	-2.09	-2.09	-2.10	-2.10	-2.11	-2.11	-2.12	-2.12	-2.13	-2.13
.159:	-2.14	-2.14	-2.14	-2.15	-2.15	-2.16	-2.16	-2.17	-2.17	-2.18
.160:	-2.18	-2.19	-2.19	-2.20	-2.20	-2.21	-2.21	-2.22	-2.22	-2.23
.161:	-2.23	-2.24	-2.24	-2.24	-2.25	-2.25	-2.26	-2.26	-2.27	-2.27
.163:	-2.28	-2.28	-2.29	-2.29	-2.30	-2.30	-2.31	-2.31	-2.32	-2.32
.164:	-2.32	-2.33	-2.33	-2.34	-2.34	-2.35	-2.35	-2.36	-2.36	-2.37
.165:	-2.37	-2.38	-2.38	-2.39	-2.39	-2.40	-2.40	-2.41	-2.41	-2.42

Displacement, Y-Axis (cont'd.)

TIME											
.166:	-2.42	-2.43	-2.43	-2.43	-2.44	-2.44	-2.45	-2.45	-2.46	-2.46	
.168:	-2.47	-2.47	-2.48	-2.48	-2.49	-2.49	-2.50	-2.50	-2.51	-2.51	
.169:	-2.52	-2.52	-2.53	-2.53	-2.54	-2.54	-2.55	-2.55	-2.56	-2.56	
.170:	-2.57	-2.58	-2.58	-2.59	-2.59	-2.60	-2.60	-2.61	-2.61	-2.62	
.171:	-2.62	-2.63	-2.63	-2.64	-2.64	-2.65	-2.65	-2.66	-2.66	-2.67	
.173:	-2.67	-2.68	-2.68	-2.69	-2.69	-2.70	-2.70	-2.71	-2.71	-2.72	
.174:	-2.72	-2.73	-2.73	-2.74	-2.74	-2.75	-2.76	-2.76	-2.77	-2.77	
.175:	-2.78	-2.78	-2.79	-2.79	-2.80	-2.80	-2.81	-2.81	-2.82	-2.82	
.176:	-2.83	-2.83	-2.84	-2.84	-2.85	-2.85	-2.86	-2.86	-2.87	-2.88	
.178:	-2.88	-2.89	-2.89	-2.90	-2.90	-2.91	-2.91	-2.92	-2.92	-2.93	
.179:	-2.93	-2.94	-2.94	-2.95	-2.95	-2.96	-2.96	-2.97	-2.97	-2.98	
.180:	-2.99	-2.99	-3.00	-3.00	-3.01	-3.01	-3.02	-3.02	-3.03	-3.03	
.181:	-3.04	-3.04	-3.05	-3.05	-3.06	-3.06	-3.07	-3.08	-3.08	-3.09	
.183:	-3.09	-3.10	-3.10	-3.11	-3.11	-3.12	-3.12	-3.13	-3.13	-3.14	
.184:	-3.14	-3.15	-3.16	-3.16	-3.17	-3.17	-3.18	-3.18	-3.19	-3.19	
.185:	-3.20	-3.20	-3.21	-3.21	-3.22	-3.23	-3.23	-3.24	-3.24	-3.25	
.186:	-3.25	-3.26	-3.26	-3.27	-3.27	-3.28	-3.29	-3.29	-3.30	-3.30	
.188:	-3.31	-3.31	-3.32	-3.32	-3.33	-3.33	-3.34	-3.35	-3.35	-3.36	
.189:	-3.36	-3.37	-3.37	-3.38	-3.38	-3.39	-3.40	-3.40	-3.41	-3.41	
.190:	-3.42	-3.42	-3.43	-3.44	-3.44	-3.45	-3.45	-3.46	-3.46	-3.47	
.191:	-3.47	-3.48	-3.49	-3.49	-3.50	-3.50	-3.51	-3.52	-3.52	-3.53	
.193:	-3.53	-3.54	-3.54	-3.55	-3.56	-3.56	-3.57	-3.57	-3.58	-3.59	
.194:	-3.59	-3.60	-3.60	-3.61	-3.62	-3.62	-3.63	-3.63	-3.64	-3.64	
.195:	-3.65	-3.66	-3.66	-3.67	-3.67	-3.68	-3.69	-3.69	-3.70	-3.70	
.196:	-3.71	-3.72	-3.72	-3.73	-3.73	-3.74	-3.75	-3.75	-3.76	-3.76	
.198:	-3.77	-3.78	-3.78	-3.79	-3.79	-3.80	-3.81	-3.81	-3.82	-3.82	
.199:	-3.83	-3.84	-3.84	-3.85	-3.85	-3.86	-3.87	-3.87	-3.88	-3.88	
.200:	-3.89	-3.90	-3.90	-3.91	-3.91	-3.92	-3.93	-3.93	-3.94	-3.94	
.201:	-3.95	-3.96	-3.96	-3.97	-3.98	-3.98	-3.99	-3.99	-4.00	-4.01	
.203:	-4.01	-4.02	-4.02	-4.03	-4.04	-4.04	-4.05	-4.06	-4.06	-4.07	
.204:	-4.07	-4.08	-4.09	-4.09	-4.10	-4.10	-4.11	-4.12	-4.12	-4.13	
.205:	-4.14	-4.14	-4.15	-4.15	-4.16	-4.17	-4.17	-4.18	-4.19	-4.19	
.206:	-4.20	-4.20	-4.21	-4.22	-4.22	-4.23	-4.24	-4.24	-4.25	-4.26	
.208:	-4.26	-4.27	-4.27	-4.28	-4.29	-4.29	-4.30	-4.31	-4.31	-4.32	
.209:	-4.33	-4.33	-4.34	-4.34	-4.35	-4.36	-4.36	-4.37	-4.38	-4.38	
.210:	-4.39	-4.40	-4.40	-4.41	-4.42	-4.42	-4.43	-4.43	-4.44	-4.45	
.211:	-4.45	-4.46	-4.47	-4.47	-4.48	-4.49	-4.49	-4.50	-4.51	-4.51	
.213:	-4.52	-4.53	-4.53	-4.54	-4.55	-4.55	-4.56	-4.56	-4.57	-4.58	
.214:	-4.58	-4.59	-4.60	-4.60	-4.61	-4.62	-4.62	-4.63	-4.64	-4.64	
.215:	-4.65	-4.65	-4.66	-4.67	-4.67	-4.68	-4.69	-4.69	-4.70	-4.71	
.216:	-4.71	-4.72	-4.73	-4.73	-4.74	-4.75	-4.75	-4.76	-4.77	-4.77	
.218:	-4.78	-4.78	-4.79	-4.80	-4.80	-4.81	-4.82	-4.82	-4.83	-4.84	
.219:	-4.84	-4.85	-4.86	-4.86	-4.87	-4.88	-4.88	-4.89	-4.90	-4.90	
.220:	-4.91	-4.92	-4.92	-4.93	-4.94	-4.94	-4.95	-4.96	-4.96	-4.97	
.221:	-4.98	-4.98	-4.99	-5.00	-5.00	-5.01	-5.01	-5.02	-5.03	-5.03	
.223:	-5.04	-5.05	-5.05	-5.06	-5.07	-5.07	-5.08	-5.09	-5.09	-5.10	
.224:	-5.11	-5.11	-5.12	-5.13	-5.13	-5.14	-5.14	-5.15	-5.16	-5.16	
.225:	-5.17	-5.18	-5.18	-5.19	-5.20	-5.20	-5.21	-5.22	-5.22	-5.23	