

DOT 126 ✓
DOT 224

DYNALOGIC
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DOT 224

DOT 126

TEST REPORT NO. 1

CRABBED SIDE IMPACTOR-TO-
VW RABBIT

FRONT-TO-SIDE TESTS @ 60°

TESTS 8327-6.1 THROUGH ~~8327-6.4~~ 8327-6.2

APPENDICES A, B, C.

R. Garn
M. Rodack
T. Bjork
S. Davis

APPENDIX A INSTRUMENTATION SUMMARIES AND CAMERA LOCATION
MATRIX

APPENDIX B CRABBED SIDE IMPACTOR-INTO-1980 VW RABBIT AT
60° BULLET VEHICLE SPEED = 39.3 MPH
(FRONT: APR REAR: SID)
CALCOMP PLOTS FOR TEST 8327-6.1

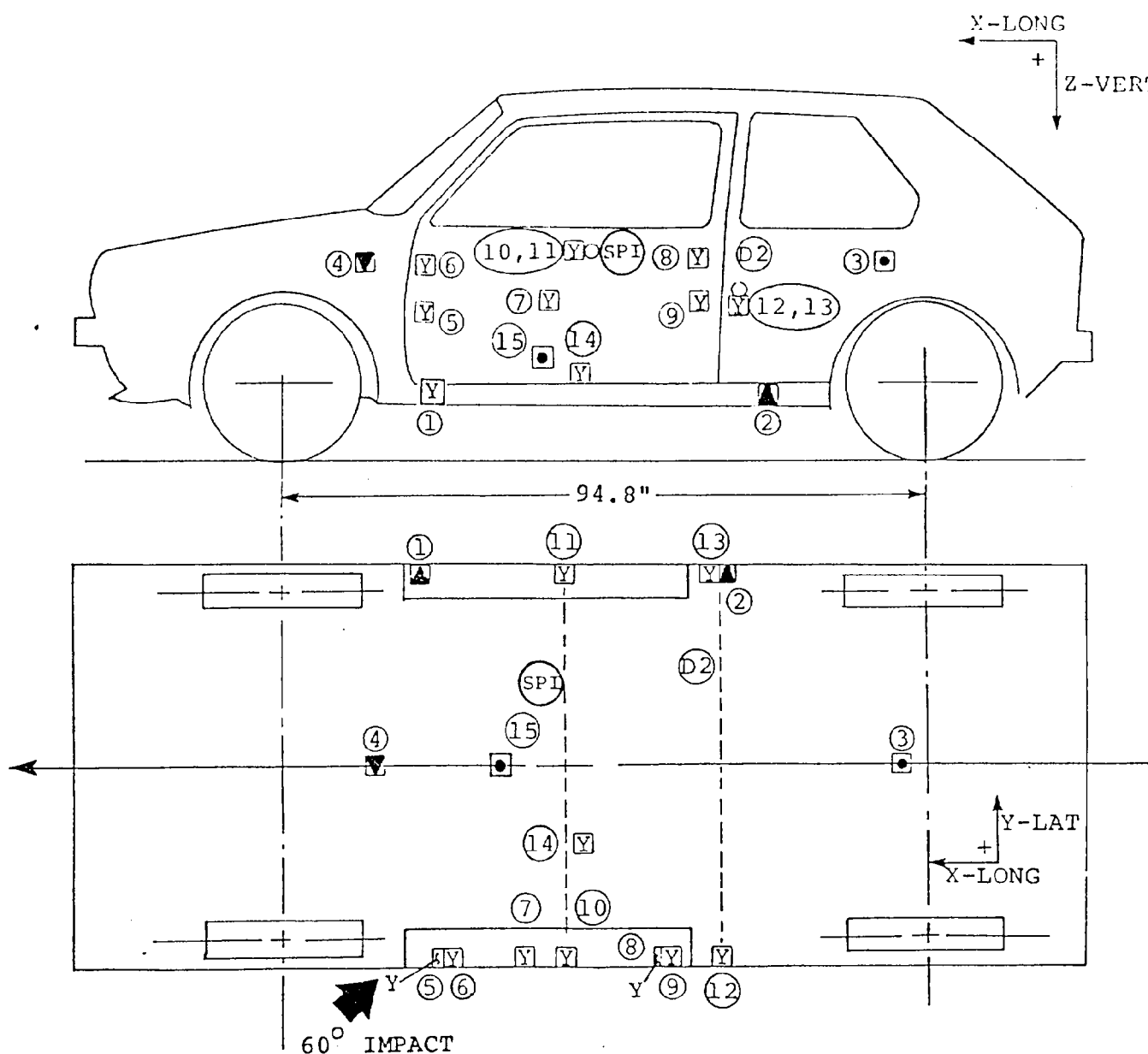
DOT 224

APPENDIX C CRABBED SIDE IMPACTOR-INTO-MODIFIED VW RABBIT
AT 60° BULLET VEHICLE SPEED = 39.8 MPH
(FRONT: APR REAR: SID)
CALCOMP PLOTS FOR TEST 8327-6.2

DOT 126

APPENDIX A

INSTRUMENTATION SUMMARIES AND
CAMERA LOCATION MATRIX



NOTE: SEE TABLE A-1 FOR ADDITIONAL INFORMATION

- Y AXIAL ACCELEROMETER (Y DIRECTION)
- ▲ BIAXIAL ACCELEROMETER (Y,Z DIRECTION)
- ▣ BIAXIAL ACCELEROMETER (X,Z DIRECTION)
- ◼ TRIAXIAL ACCELEROMETER (X,Y,Z DIRECTION)
- DISPLACEMENT TUBE
- Y BIAXIAL ACCELEROMETER (X,Y DIRECTION)

FIGURE A-1. TARGET VEHICLE INSTRUMENTATION - VW RABBIT.

TABLE A-1. SUMMARY OF TARGET VEHICLE INSTRUMENTATION - VW RABBIT

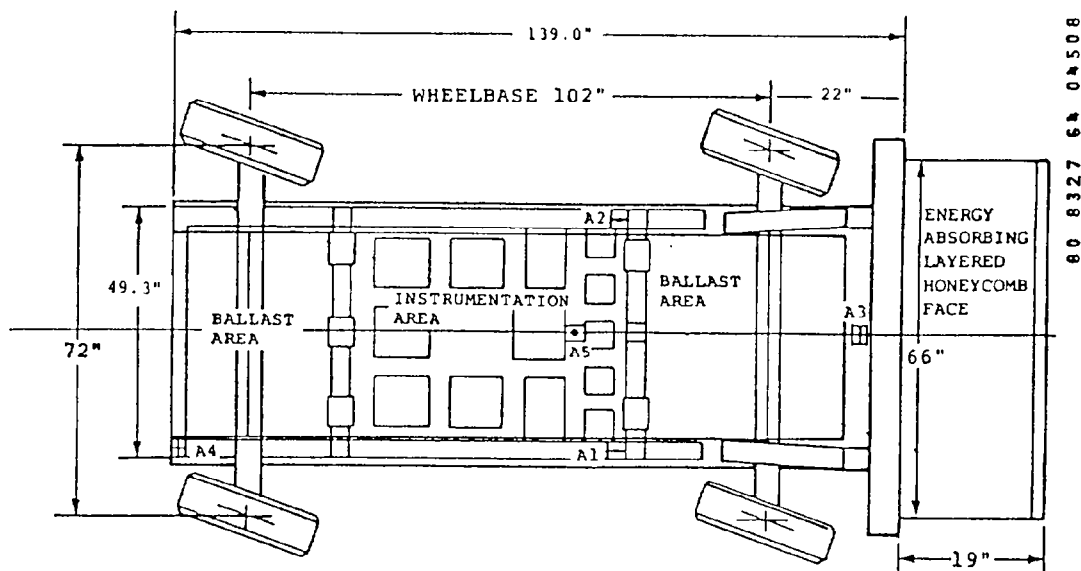
No.	Accelerometer Location	Coordinates			Maximum Expected Range		
		X*	Y*	Z*	Long (X)	Lat (Y)	Vert (Z)
1	Occupant compartment, right front doorsill	103.5	+22.8	11.0		100G	
2	Occupant compartment, right rear doorsill	62.8	+23.0	10.5		100G	100G
3	Rear deck over vehicle centerline	38.0	0.0	15.0	100G	100G	100G
4	Front firewall over vehicle centerline	113.0	0.0	26.0	100G	100G	
5	Mid-front edge of left front door	99.3	-26.0	24.0		750G	
6	Upper front corner of left front door	96.3	-26.0	33.5		750G	
7	Middle of left front door	80.8	-26.0	24.8		750G	
8	Upper rear corner of left front door	61.0	-26.0	33.5		750G	
9	Mid-rear edge of left front door	60.5	-26.0	24.8		750G	
10	Left front door on win- dowsill, slightly for- ward of surrogate's chest	80.8	-26.0	33.5		750G	
11	Right front door on windowsill, directly across from No. 10	80.8	+26.0	33.5		100G	
12	Left B-pillar near door latch	57.0	-25.5	25.0		100G	
13	Right B-pillar across from No. 12	57.0	+25.5	25.0		100G	
14	Underneath left front seat attached to seat	72.0	-13.0	+13.0		200G	
15	Vehicle center of gravity				100G	100G	100G

TABLE A-1. SUMMARY OF TARGET VEHICLE INSTRUMENTATION - VW RABBIT
(CONTD)

Displacement Transducer		Coordinates			Maximum Expected Range		
No.	Location	X*	Y*	Z*	Long (X)	Lat (Y)	Vert (Z)
SP1	String potentiometer	81.5		33.5	25"	Retraction	
D2	B-pillar, next to accelerometers 12 and 13	57.0		28.3	25"	Retraction	
1	Impact switch attached to point of initial contact				Hardline		
Side Impact Dummy Instrumentation							
	Head-mounted accelerometers (X, Y, Z)				200G	200G	200G
	Longitudinal mounted accelerometers (X) - 6 locations				400G		
	Lateral mounted chest accelerometers (Y) - 4 locations					400G	
	Vertical mounted chest accelerometers (Z) - 2 locations						400G
	Pelvis-mounted accelerometers (X, Y, Z)				200G	200G	200G

*Reference Points:

X - rear bumper, Y - vehicle centerline, Z - ground level.
Structural data digitally filtered at 100 Hz for plots.



- ☐ AXIAL ACCELEROMETER, LONG.
- ☐ BIAXIAL ACCELEROMETER, LONG., LAT.
- ☐ TRIAXIAL ACCELEROMETER, LONG., LAT., VERT.

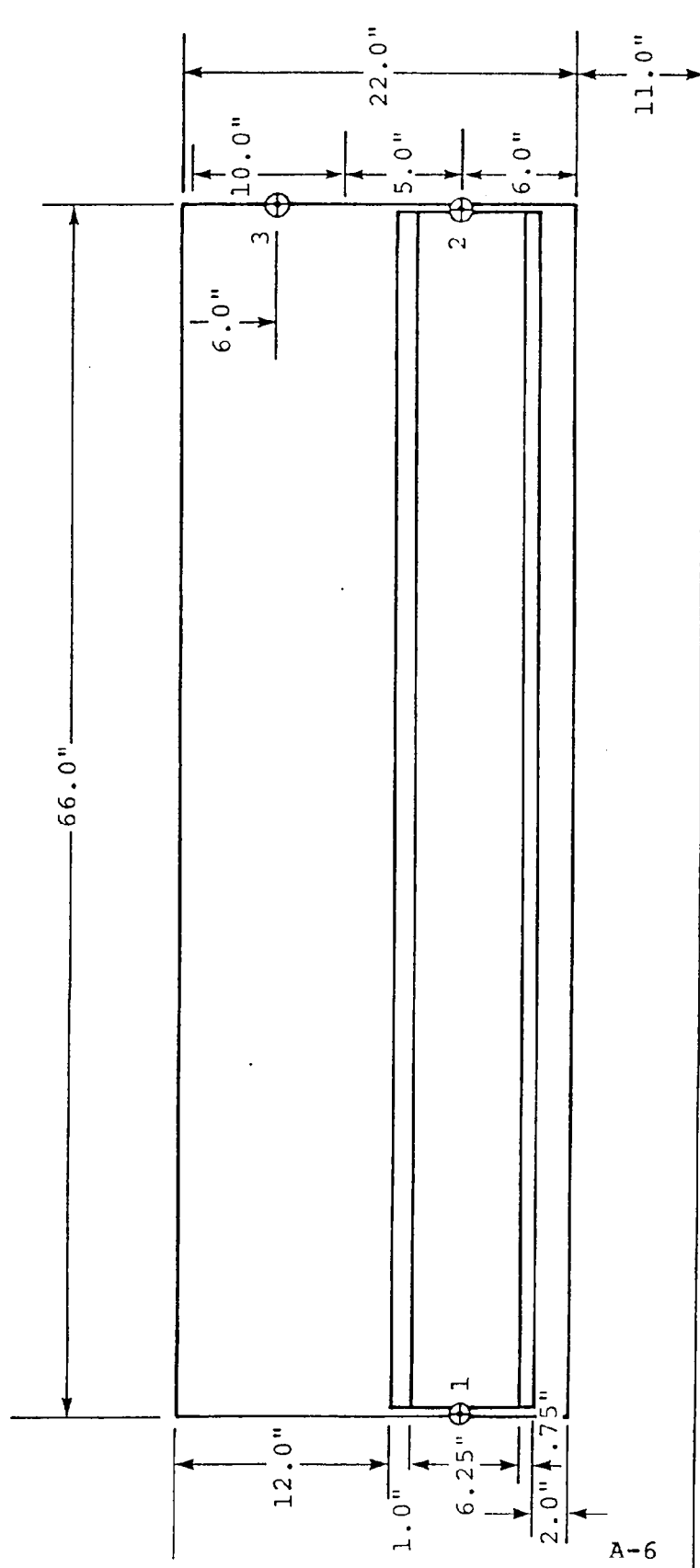
REF. - CARRIAGE DRAWING DSL-1078

SIDE IMPACTOR ACCELEROMETER LOCATIONS AND PHYSICAL COORDINATES					MAXIMUM EXPECTED READINGS (G)		
No.	Description of Location	X*	Y*	Z*	LONG	LAT	VERT
1	Right frame rail	84	23	20	50		
2	Left frame rail	84	-23	20	50		
3	Front crossmember at centerline	130	0	24	50	50	
4	Right rear vertical frame rail	9	22	16	50	50	
5	Side Impactor center of gravity	68	0	12	50	50	50

*Reference Plane: X - rear of Side Impactor;
Y - Side Impactor centerline;
Z - ground.

Structural data digitally filtered at 100 Hz for data plots.

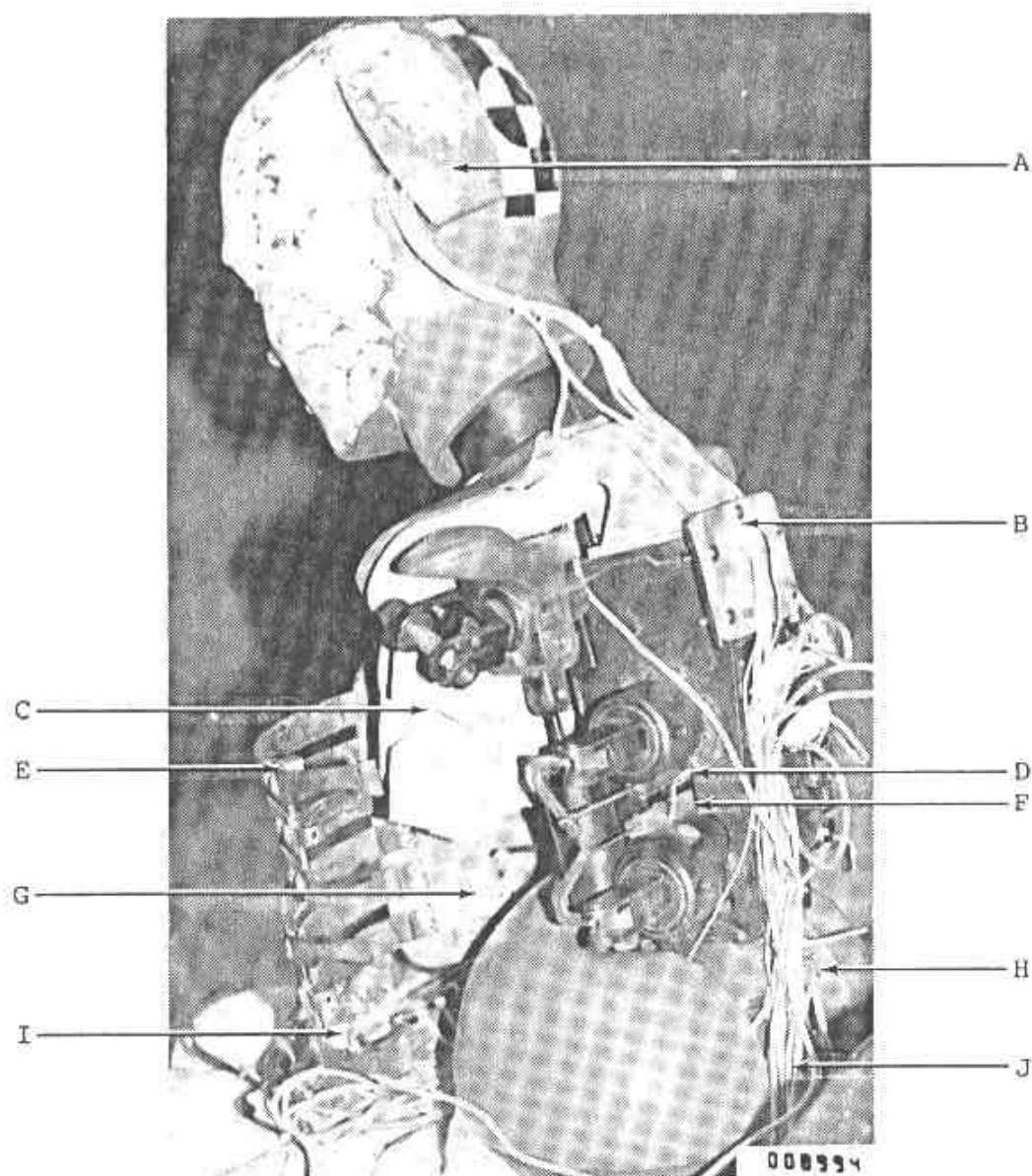
FIGURE A-2. SIDE IMPACTOR ACCELEROMETER LOCATIONS.



⊕ LOCATION OF STRING POTENTIOMETERS

REFERENCE: DYNAMIC SCIENCE DRAWING NO. DSL-1266.

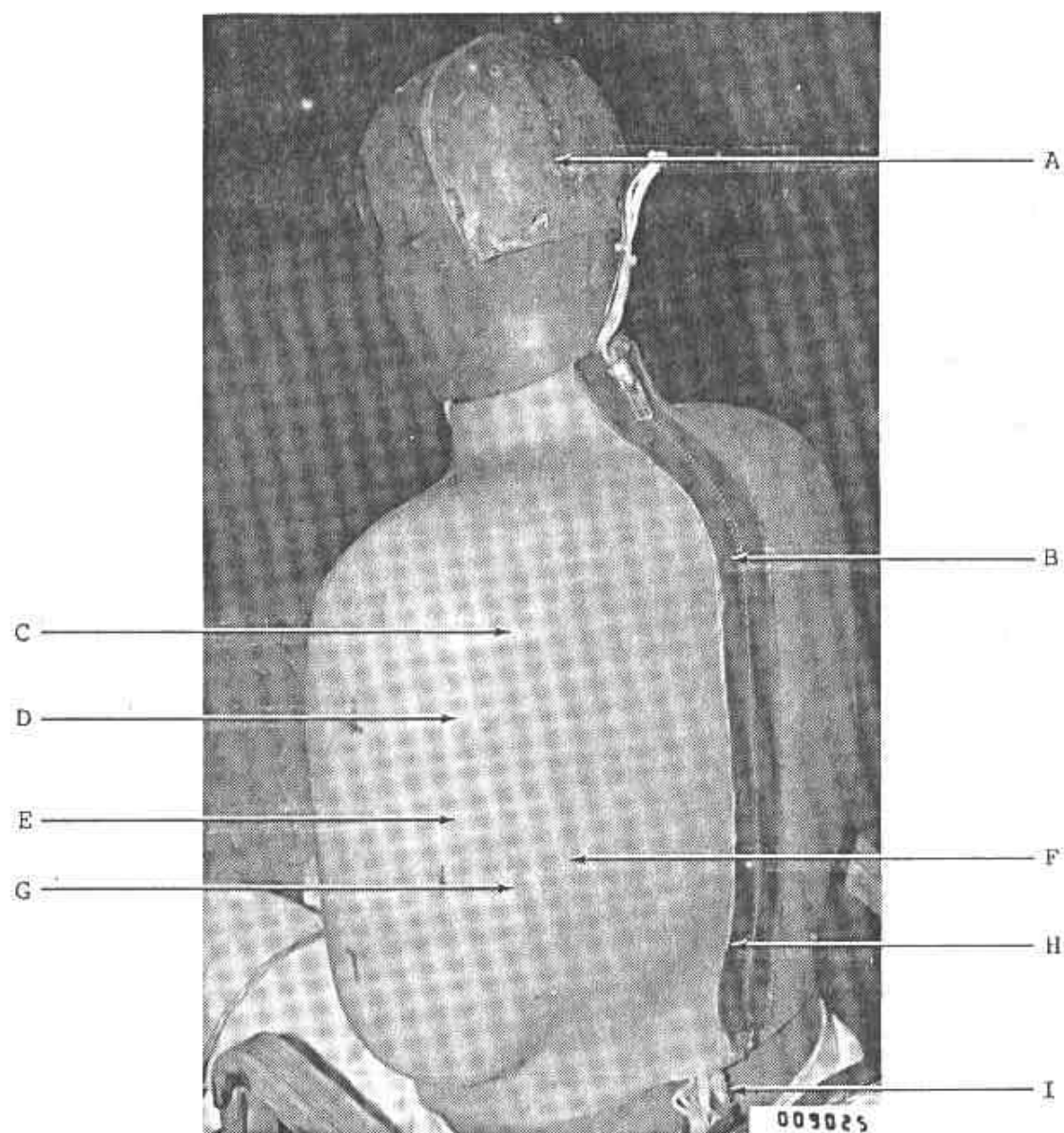
FIGURE A-3. FRONT VIEW OF SIDE IMPACTOR FACE SHOWING STRING POTENTIOMETER LOCATIONS.



- | | |
|----------------------------------|----------------------------------|
| A. HEAD TRIAXIAL | F. LOWER DISPLACEMENT TRANSDUCER |
| B. UPPER THORAX (T-1), TRIAXIAL | G. LOWER STERNUM, LONGITUDINAL |
| C. UPPER STERNUM, LONGITUDINAL | H. LOWER THORAX (T-12), TRIAXIAL |
| D. UPPER DISPLACEMENT TRANSDUCER | I. LEFT LOWER RIB, LATERAL |
| E. LEFT UPPER RIB, LATERAL | (RIGHT LOWER RIB, LONGITUDINAL) |
| (ALSO ON RIGHT) | J. PELVIC, TRIAXIAL |

NOTE: LEFT SIDE RIBS ARE UNATTACHED IN THIS PICTURE.

FIGURE A-4. LOCATIONS OF EIGHTEEN ACCELEROMETERS AND TWO DISPLACEMENT TRANSDUCERS FOR THE APR III SIDE IMPACT DUMMY.



- | | |
|---|---|
| A. HEAD TRIAXIAL | F. LOWER DISPLACEMENT TRANSDUCER |
| B. UPPER THORAX (T-1), TRIAXIAL | G. LEFT LOWER RIB, LATERAL
(ALSO ON RIGHT) |
| C. UPPER STERNUM, LONGITUDINAL | H. LOWER THORAX (T-12), TRIAXIAL |
| D. LEFT UPPER RIB, LATERAL
(ALSO ON RIGHT) | I. PELVIC, TRIAXIAL |
| E. LOWER STERNUM, LONGITUDINAL | |

NOTE: LOWER RIB ACCELEROMETERS ARE MOUNTED OUTWARD POSITIVE.

FIGURE A-5. LOCATIONS OF EIGHTEEN ACCELEROMETERS AND ONE DISPLACEMENT TRANSDUCER FOR THE NHTSA SIDE IMPACT DUMMY (FIVE RIB DESIGN).

TABLE A-2. SIDE IMPACT DUMMY INSTRUMENTATION

a) Instrumentation Locations

<u>APR III (20 channels)</u>	<u>SID (19 channels)</u>
Head - X, Y, Z	Same
Upper Thorax (T-1) - X, Y, Z	Same
Upper Sternum - X	Same
Left Upper Rib - Y	Same
Right Upper Rib - Y	Same
Lower Thorax (T-12) - X, Y, Z	Same
Lower Sternum - X	Same
Left Lower Rib - Y	Same
Right Lower Rib - X	Right Lower Rib - Y
Pelvis - X, Y, Z	Same
Upper Displacement Transducer	None
Lower Displacement Transducer	Lower Displacement Transducer

b) Dummy Data Plot Digital Filters*

Head	None
Spine	300 Hz
Sternum	100 Hz
Ribs	100 Hz
Pelvis	300 Hz
Displacement Transducers	100 Hz

*Analog-to-digital conversion uses 1600 Hz analog filter.

Test No: 8327-6.1-6.4 Test Date: Various

Test Type: 60° Side Impact Simulation

Vehicle A (BULLET) Side Impactor

Vehicle B (TARGET) : VW Rabbit

Comments: Side Impactor "Crabbed" 19°

CAMERA	YES
STILLS	X
SLIDES	X
MOVIE	X
FILM	X
VIDEO	

CAMERA SYMBOLS

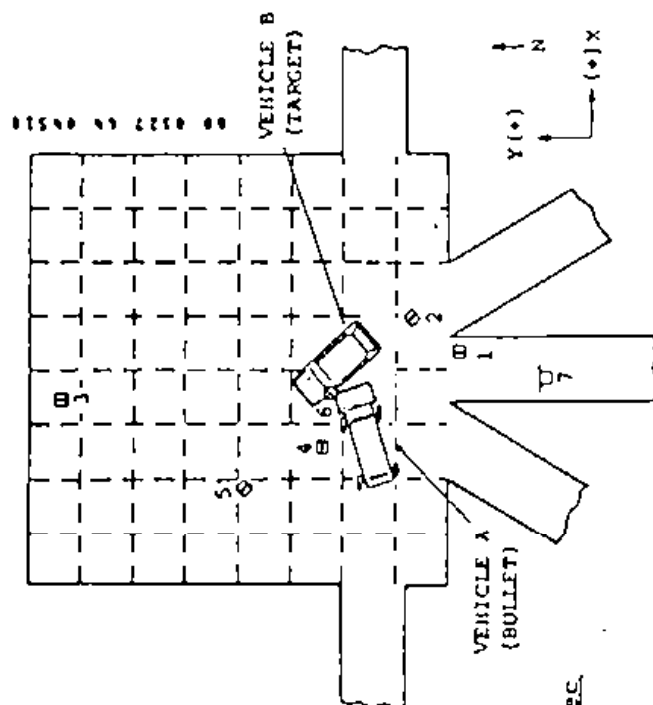
- ☐ PIT
☐ GROUND
☐ BARRIER
☒ OVERHEAD
☐ ON-BOARD

FRAME RATE

1. 1000 fr/sec
 2. 200 fr/sec
 3. Other 24 fr/sec
 4. 400 fr/sec
 5. 500 fr/sec

TIMING LIGHT SPEED

1. 100 Hz (10 msec/light)
 2. 200 Hz (5 msec/light)
 3. Other



Loc. No.	Location	Field of View	Lens Size	Frm Rate	Trng Spd	Ser No	Impact Dist-X	C.L. Dist-Y	CAM Hght-2
1	South Side - Perpendicular to Bullet	Overall of Both Vehicles and Post-test Trajectory (Mullikin)	25	5	1	6495	+12'3"	-34'	37"
2	South Side - Parallel to Target	Close-up of Both Vehicles at Impact (Photostatic)	25	1	1	1185	+27'4"	-29'10"	35"
3	North Side - Perpendicular to Bullet	Overall of Both Vehicles and Post-test Trajectory (Mullikin)	25	5	1	6549	-16'10"	+65'8"	40"
4	North Side - Parallel to Bullet	Overall of Both Vehicles and Post-test Trajectory (Photostatic)	25	1	1	1180	-40'10"	+13'3"	48"
5	North Side - Parallel to Target	Close-up of Both Vehicles at Impact (Photostatic)	50	1	1	1291	-33'6"	+23'9"	47"
6	Overhead	Elevated - Looking Down at Impact Point (Mullikin)	15	1	1	6493	0	0	23"
7	South Side	Panning - Test and Results (Canon)	Zoom	3	N/A	6549	-29'8"	-57'10"	38"

FIGURE A-6. CAMERA LOCATIONS - GROUND BASED.

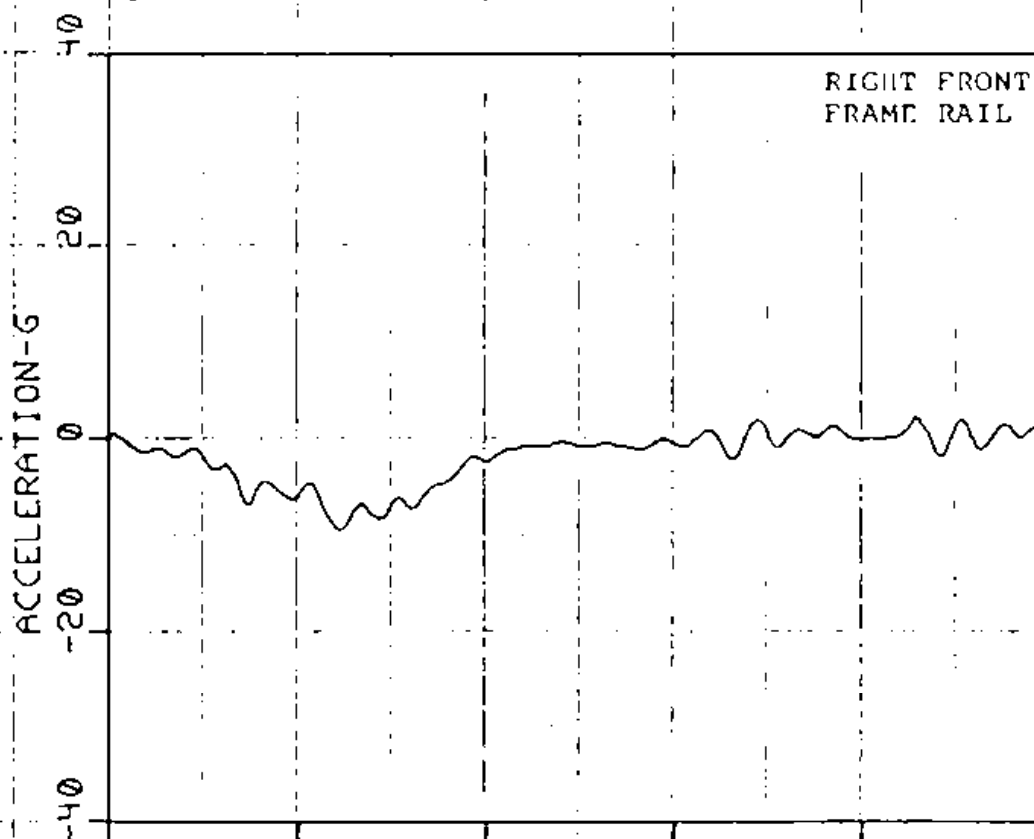
APPENDIX B

CALCOMP PLOTS
FOR TEST 8327-6.1 ✓

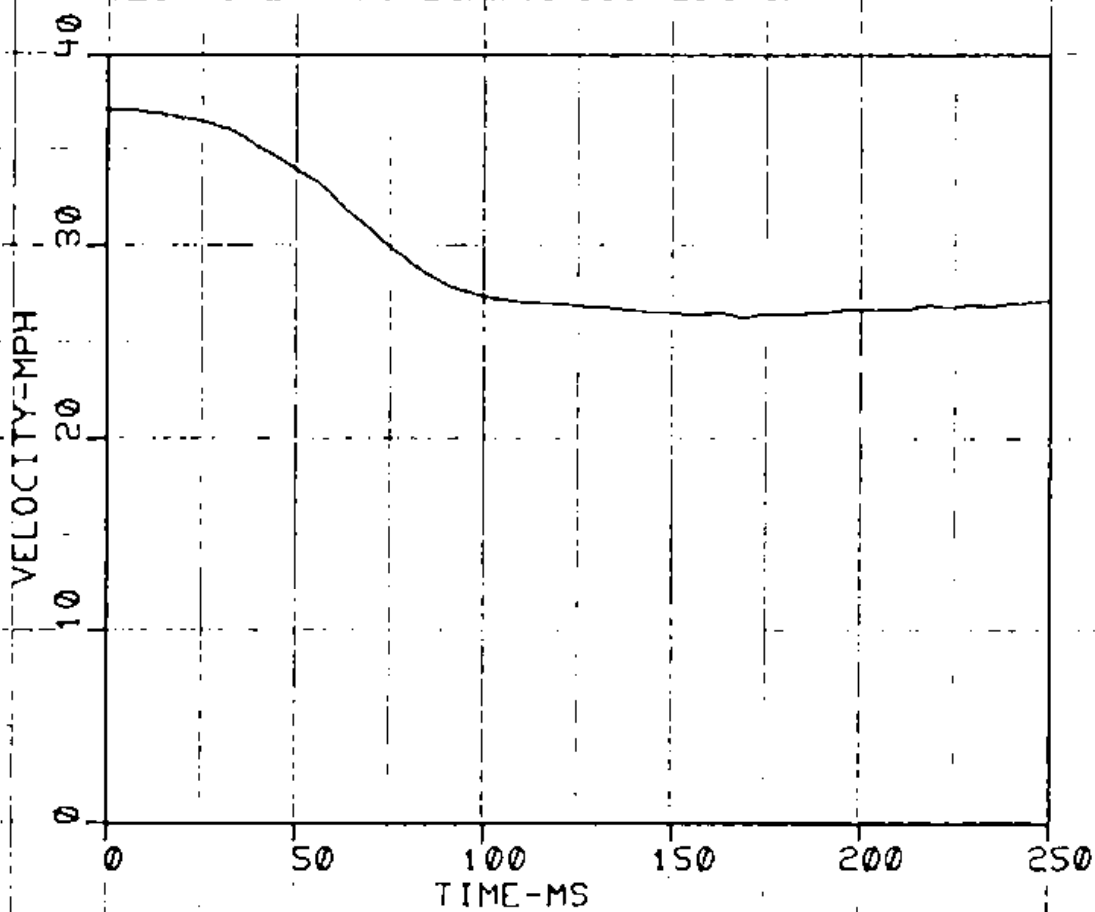
CRABBED SIDE IMPACTOR-INTO-
1980 VW RABBIT AT 60°
BULLET VEHICLE SPEED = 39.3 MPH

(FRONT: APR REAR: SID)

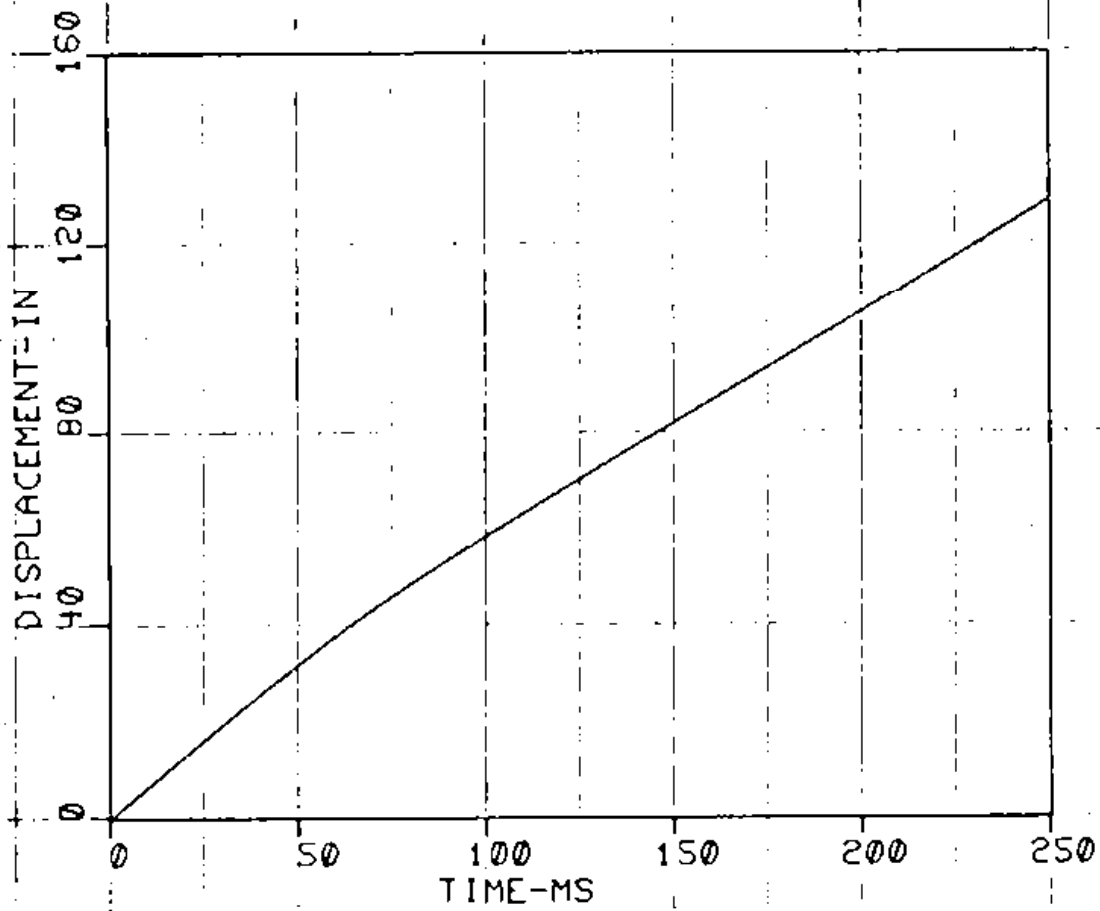
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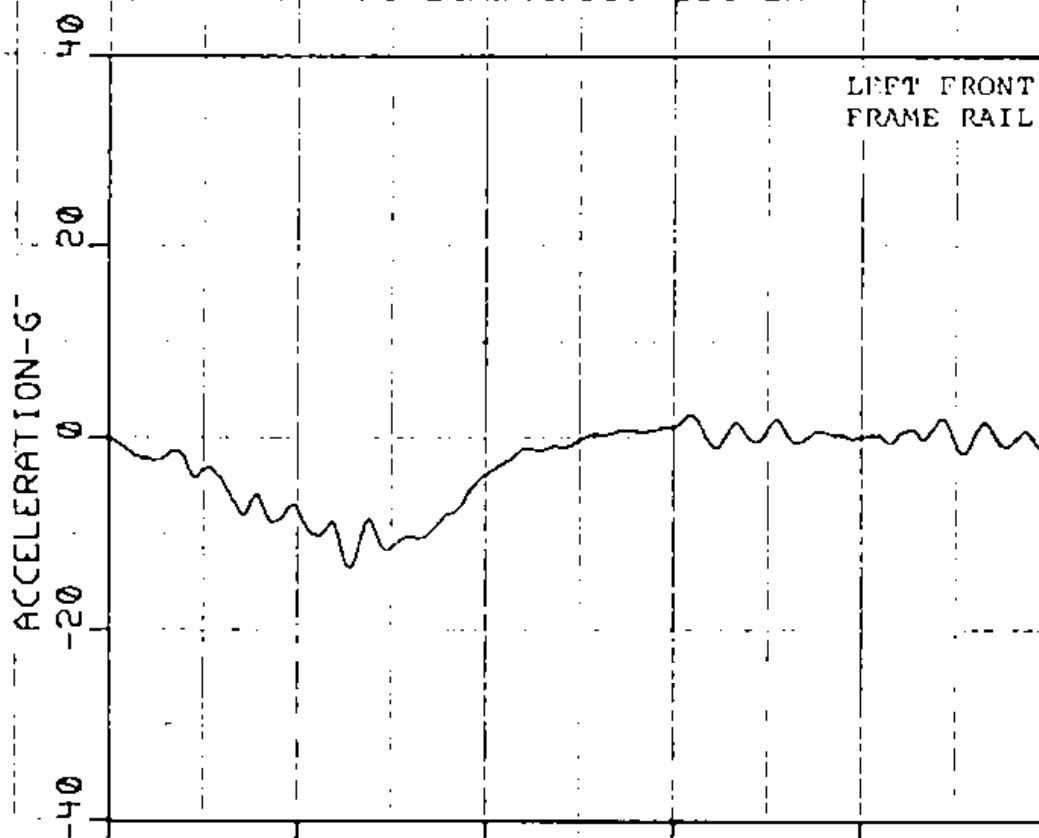
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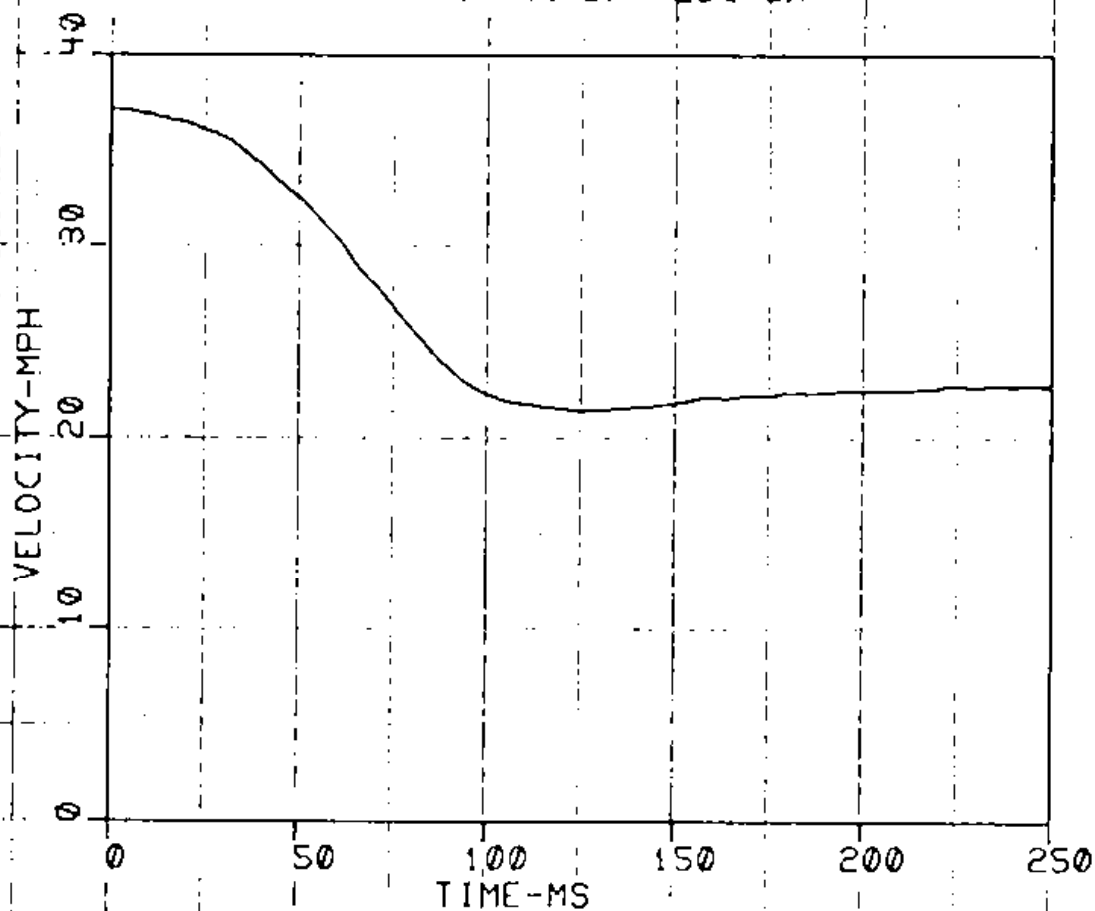
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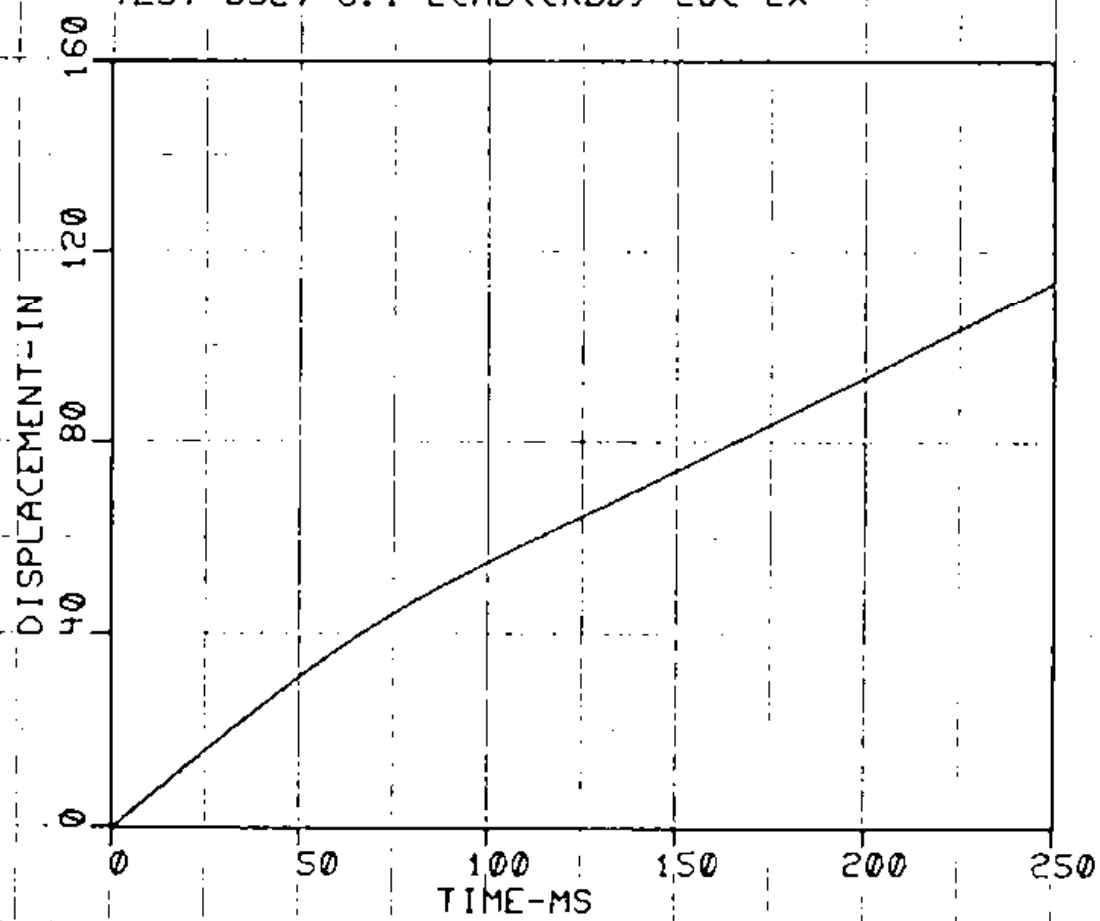
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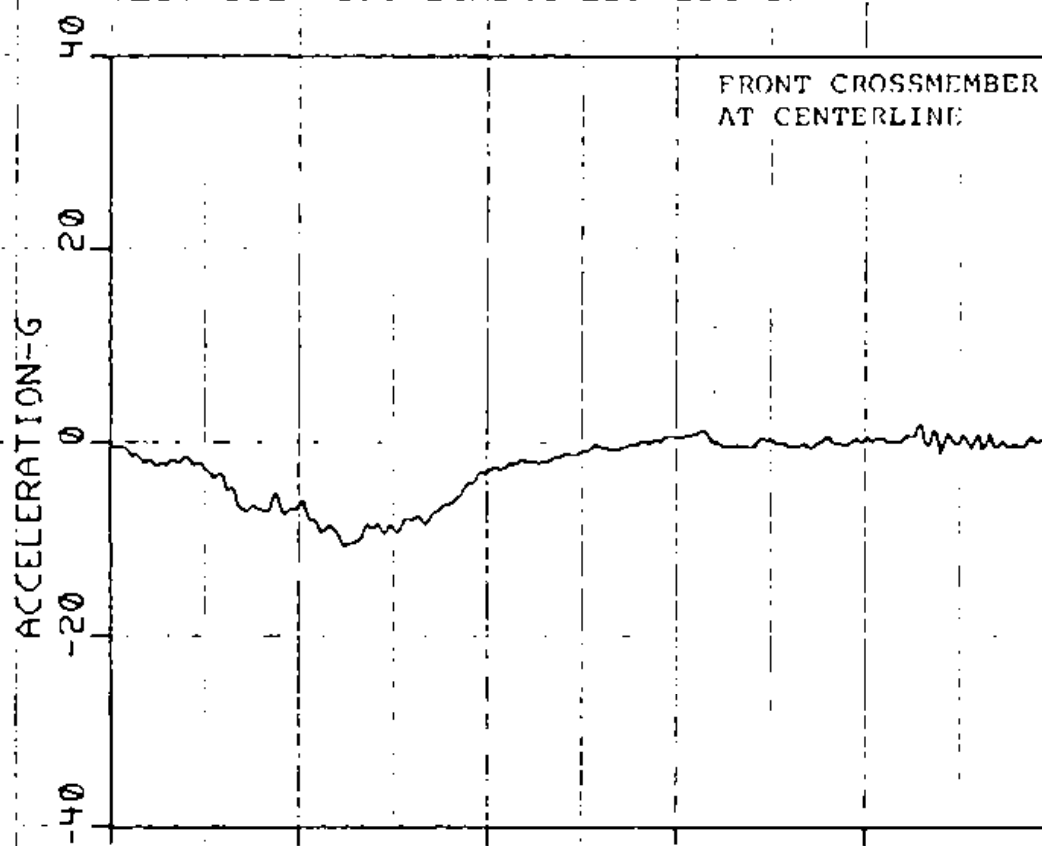
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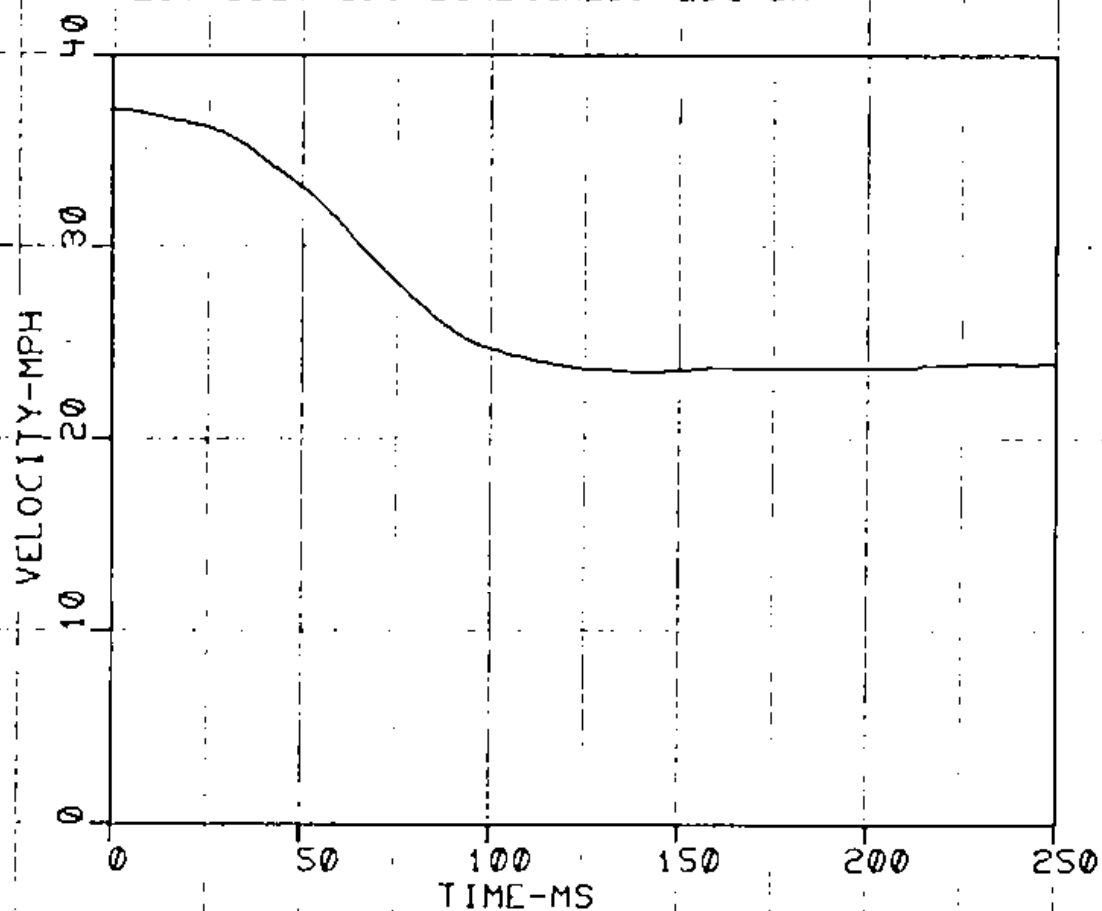
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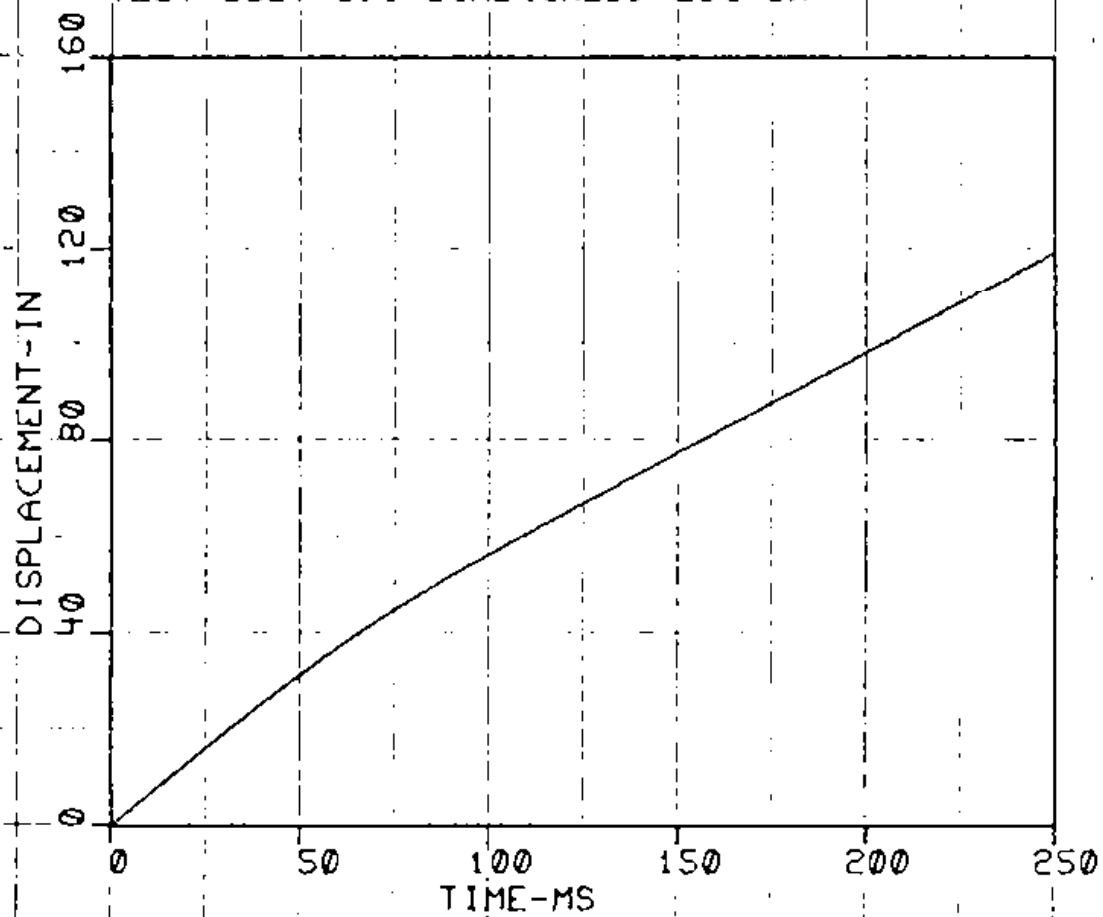
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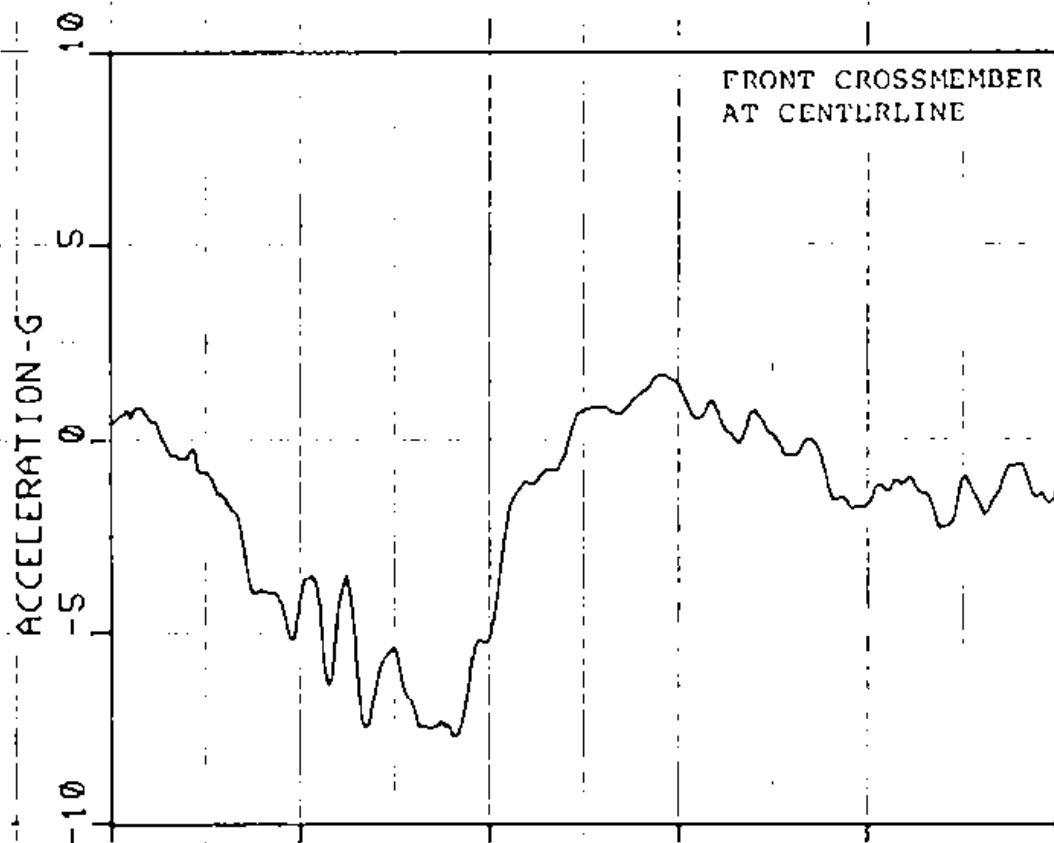
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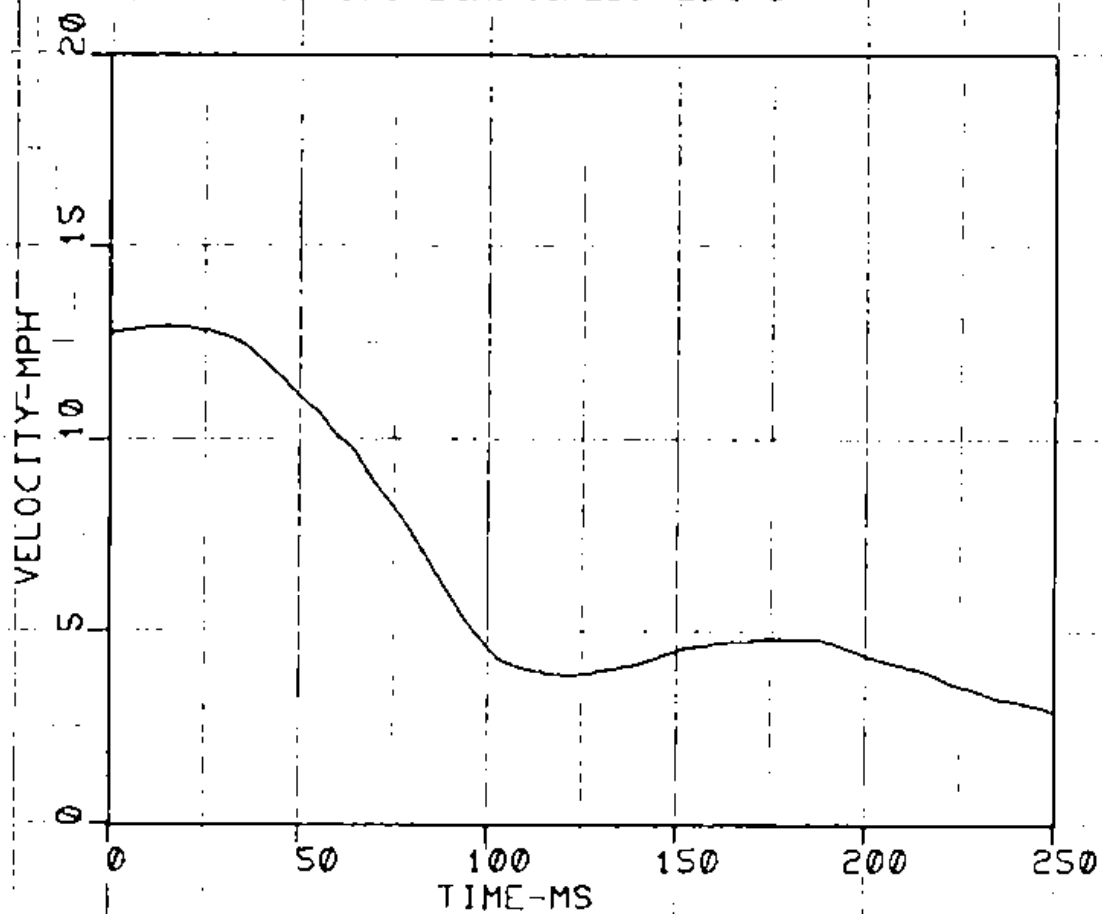
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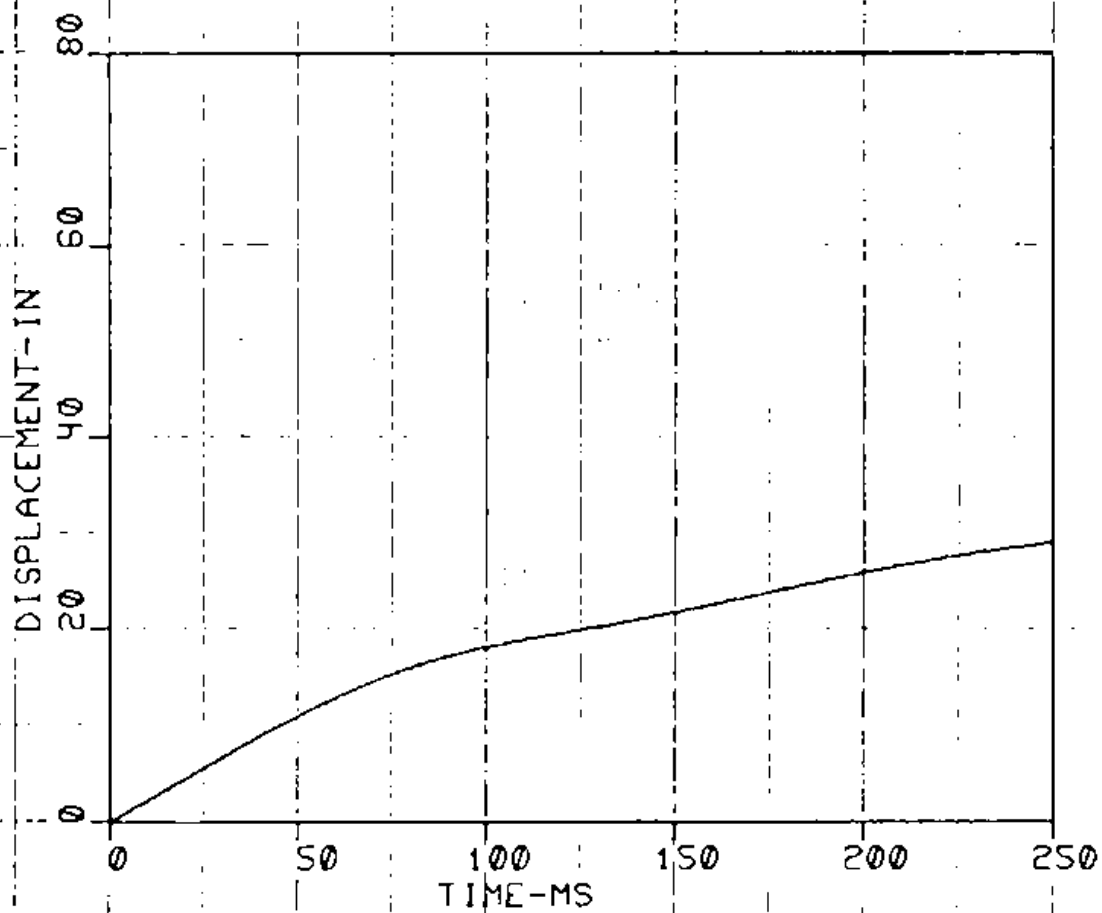
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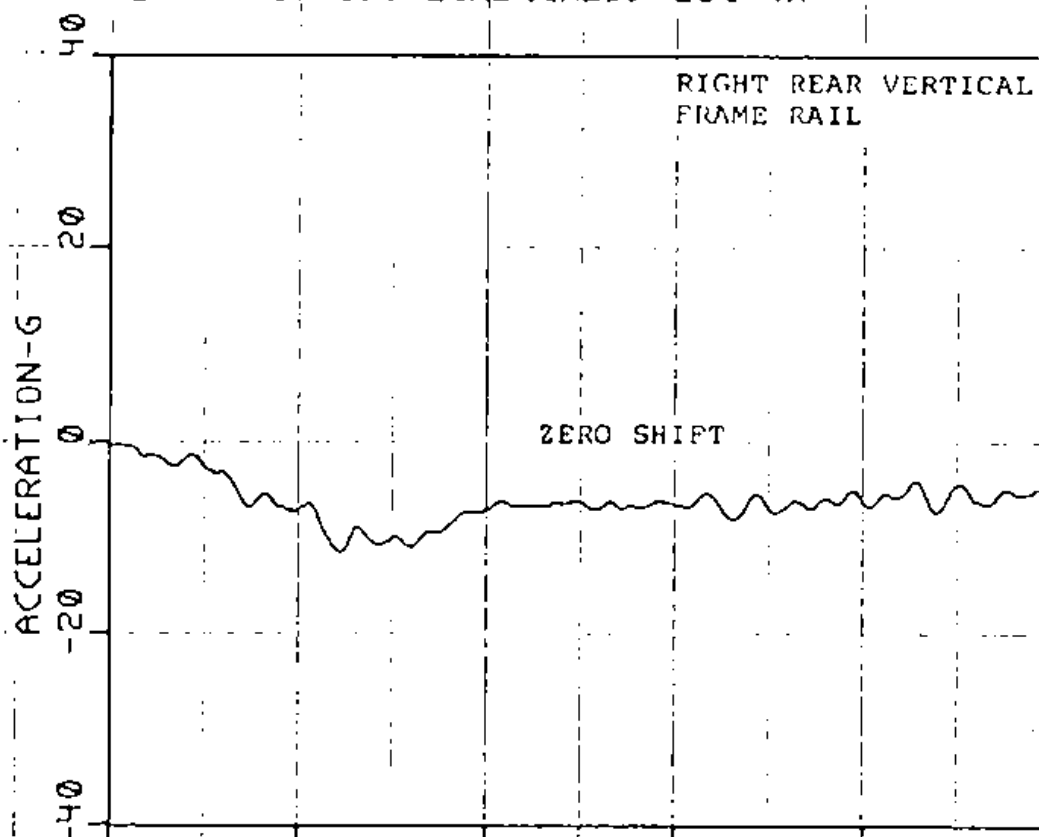
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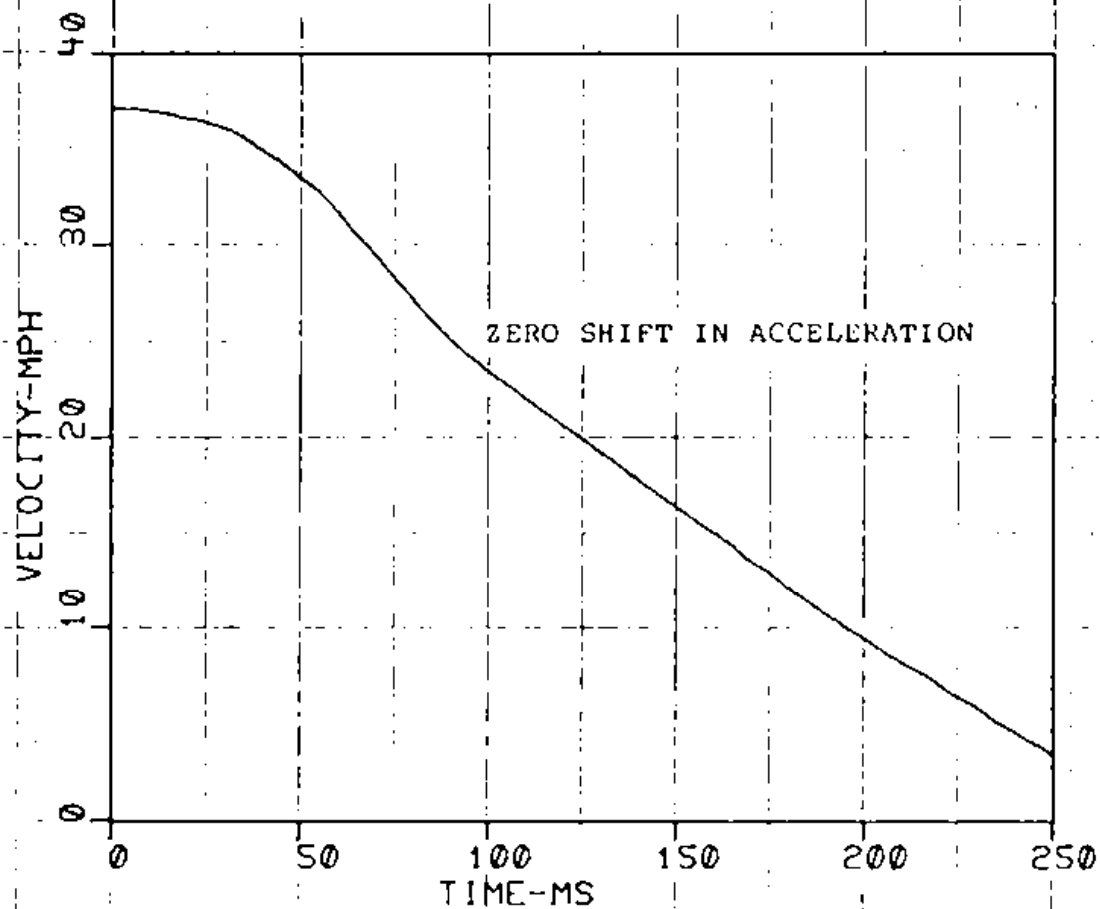
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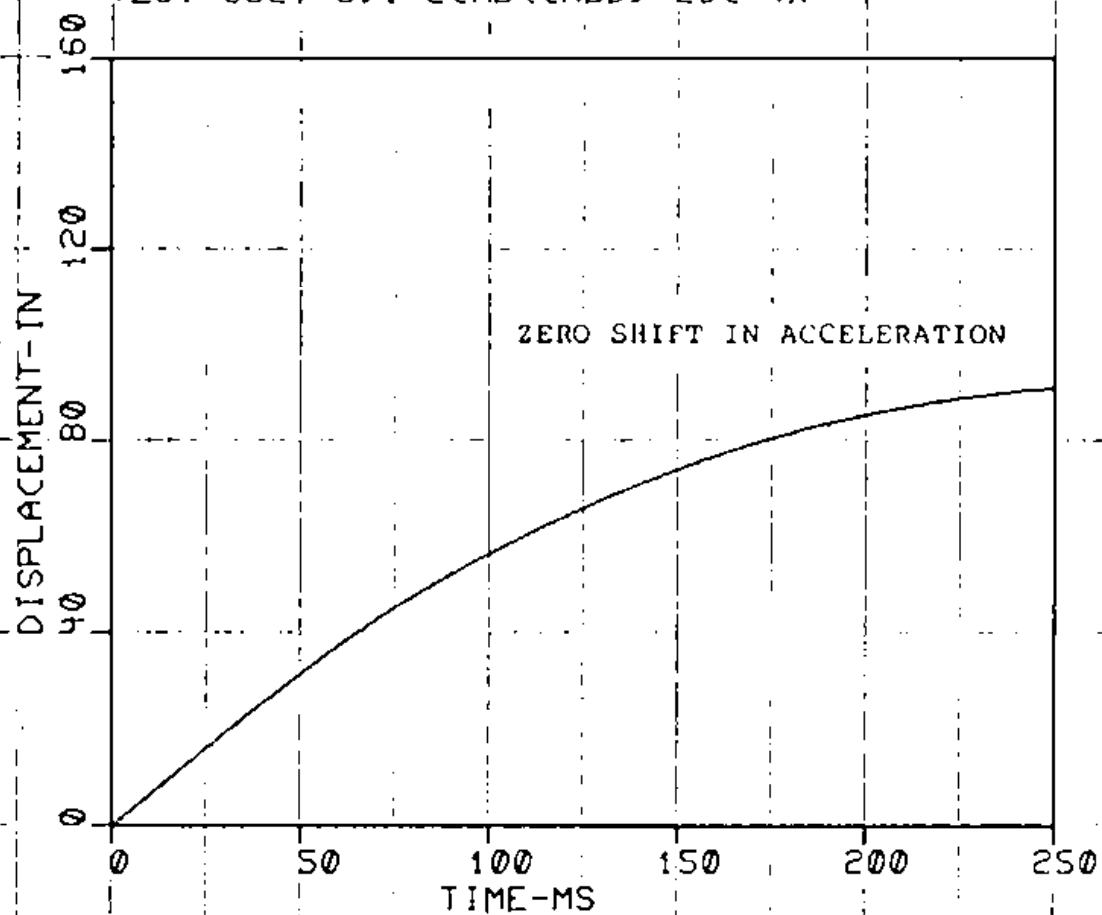
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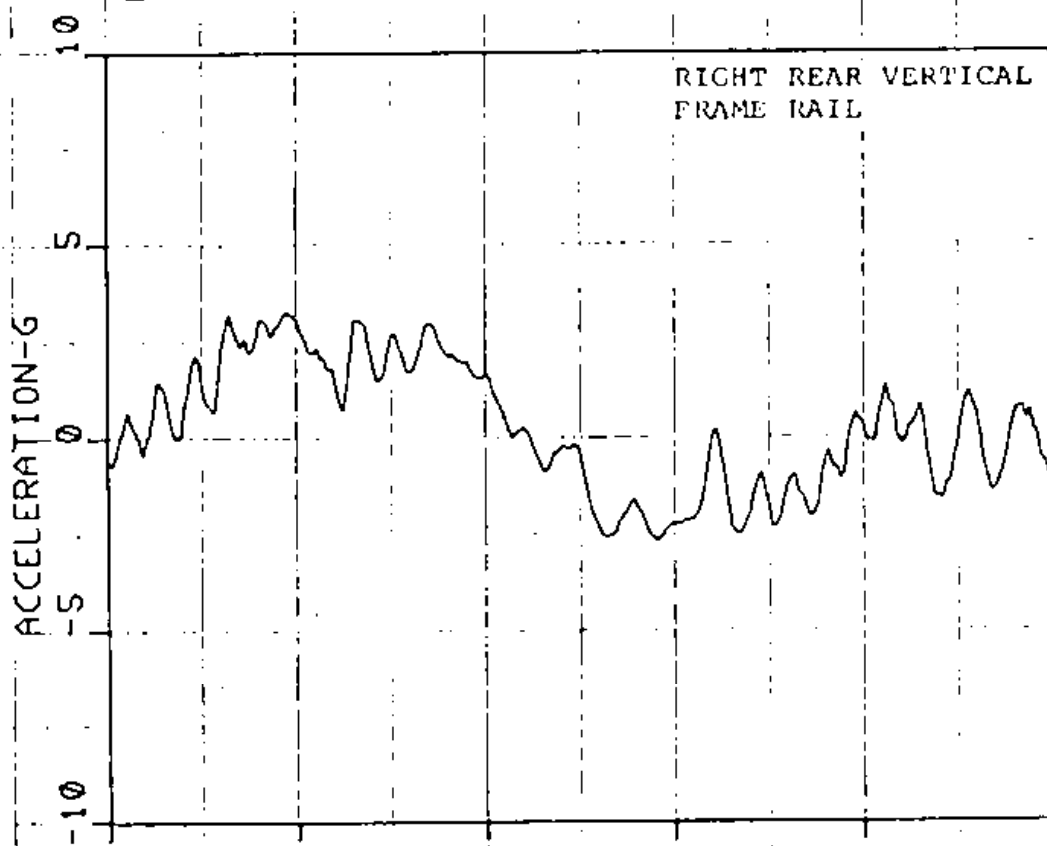
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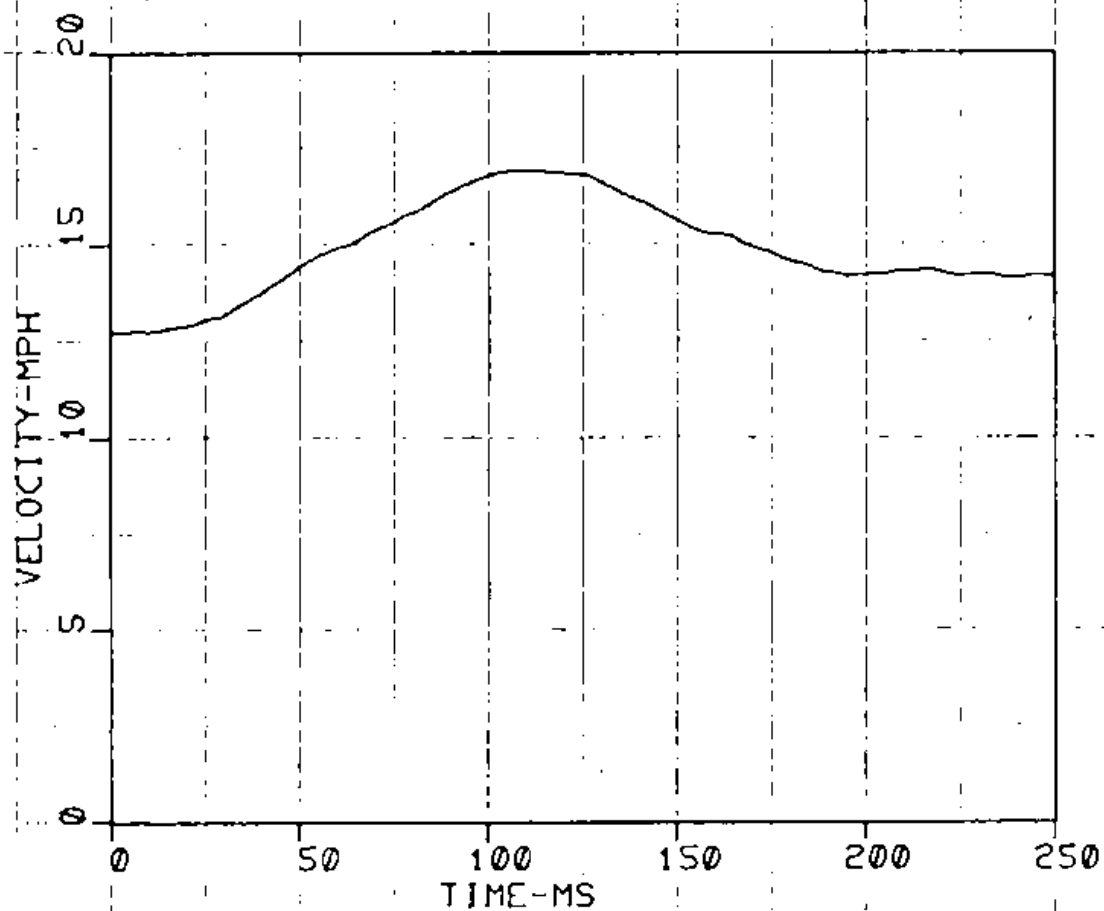
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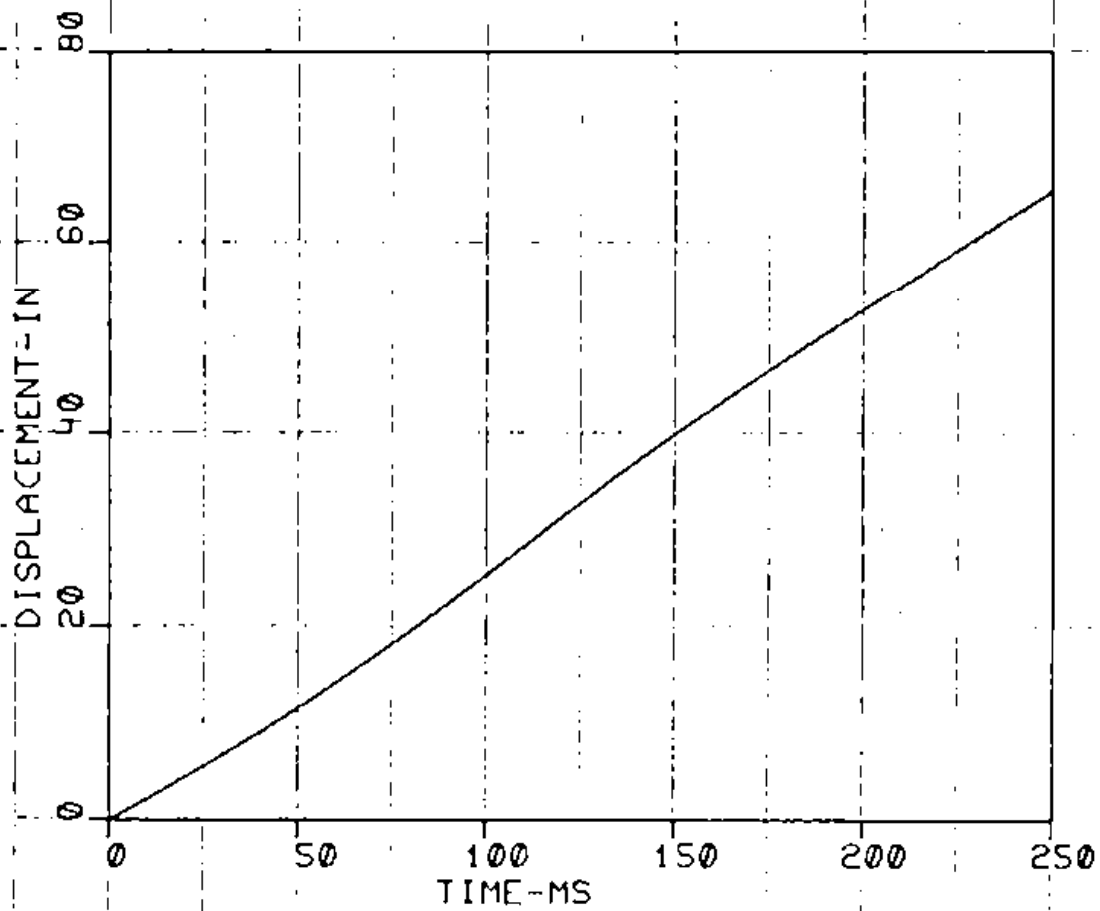
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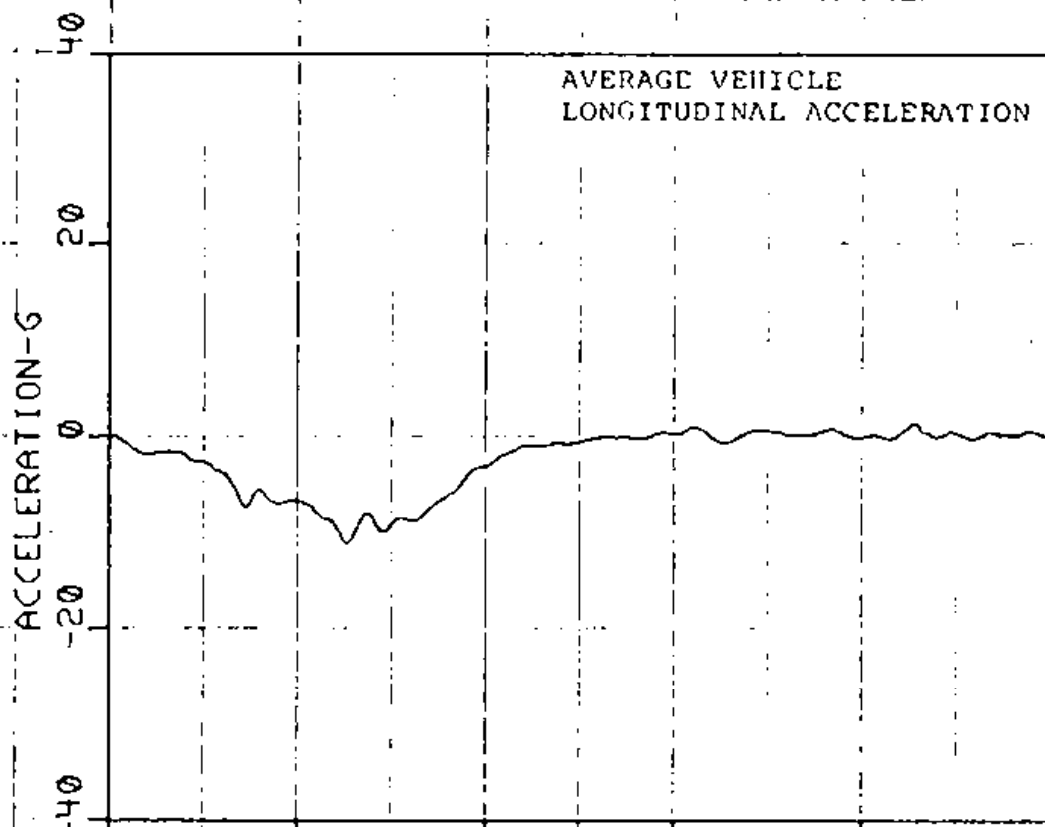
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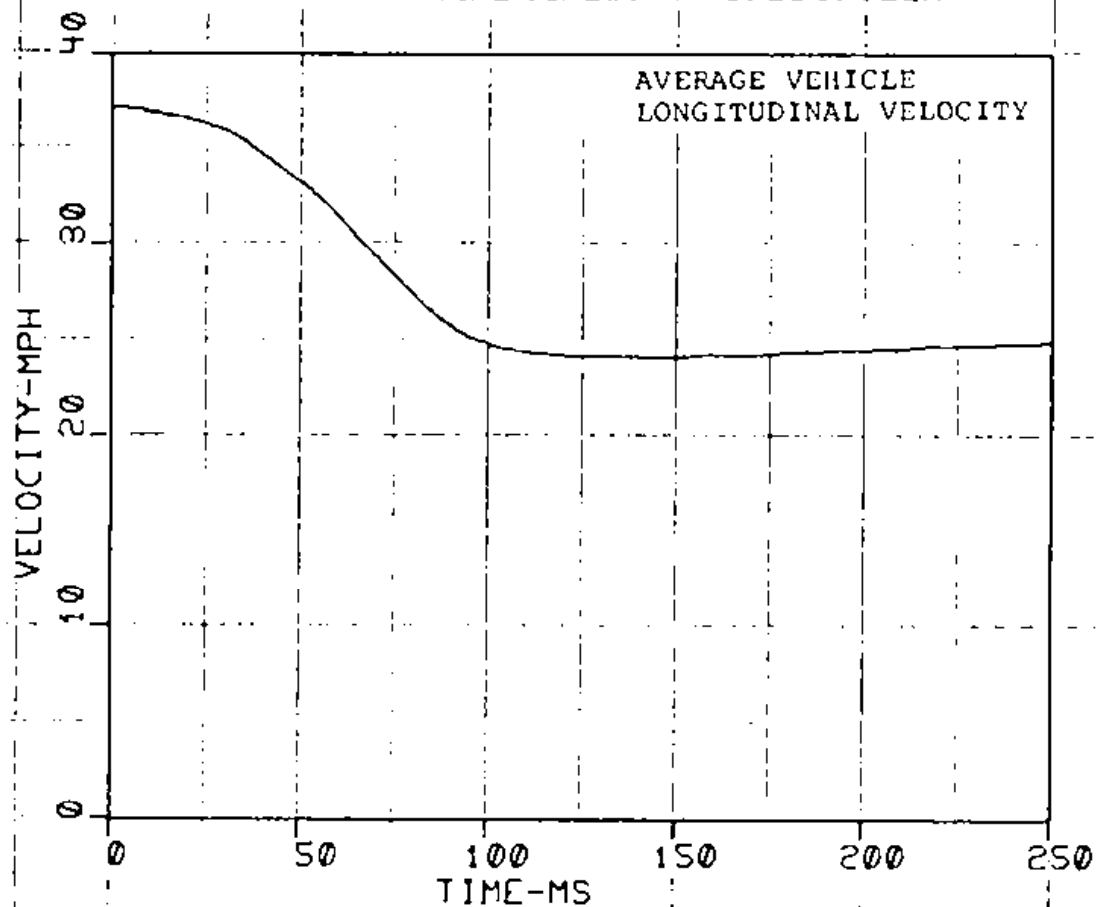
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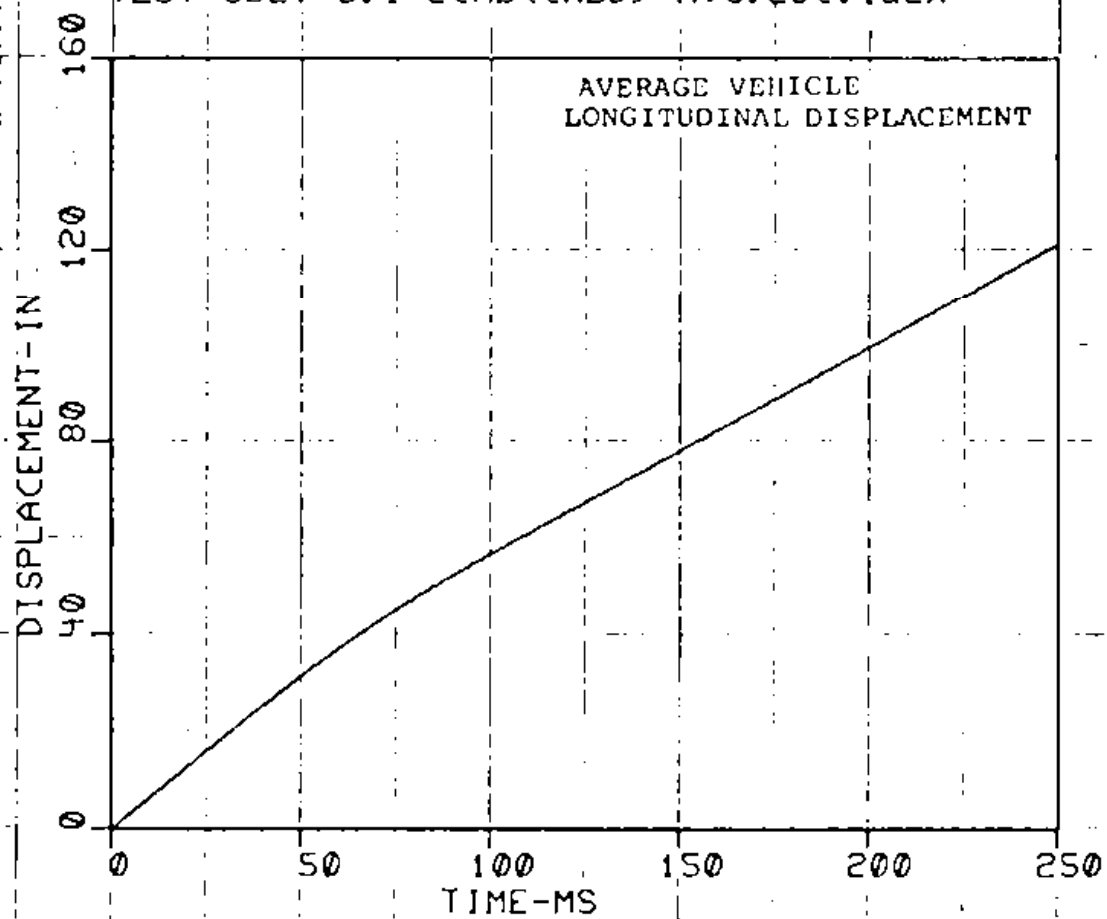
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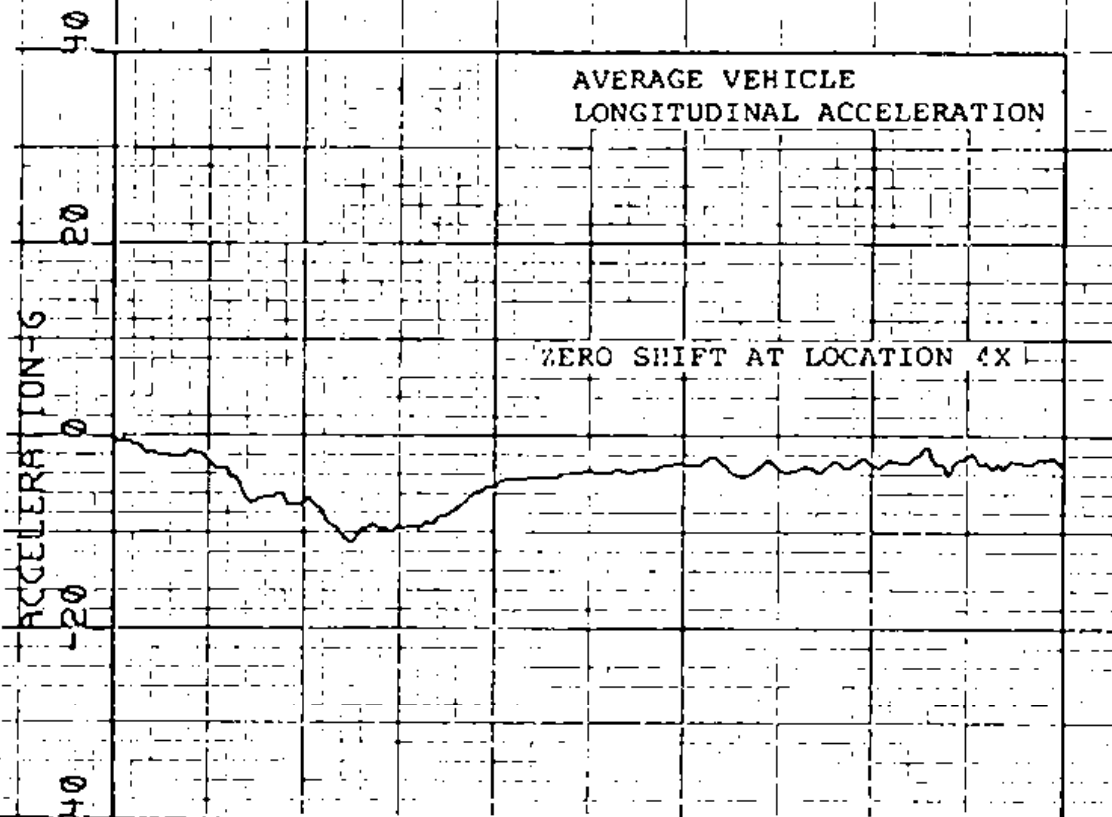
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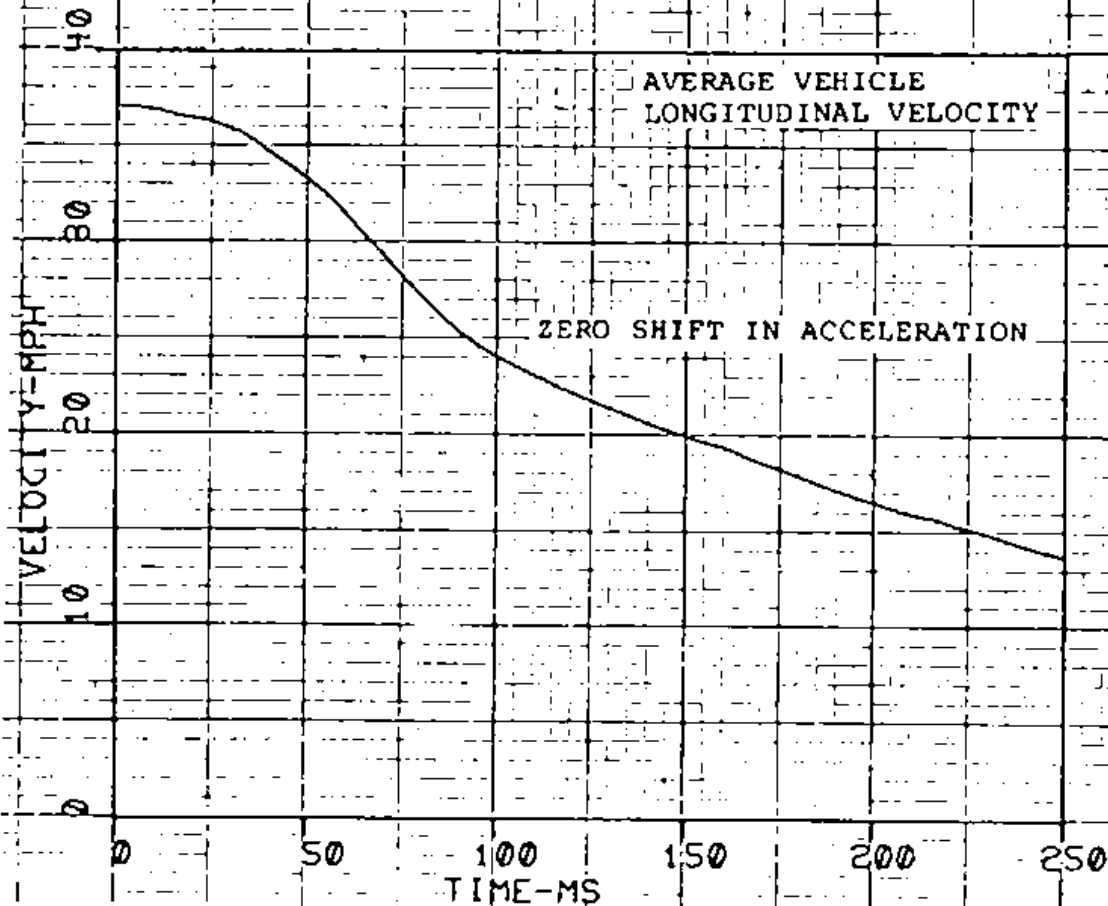
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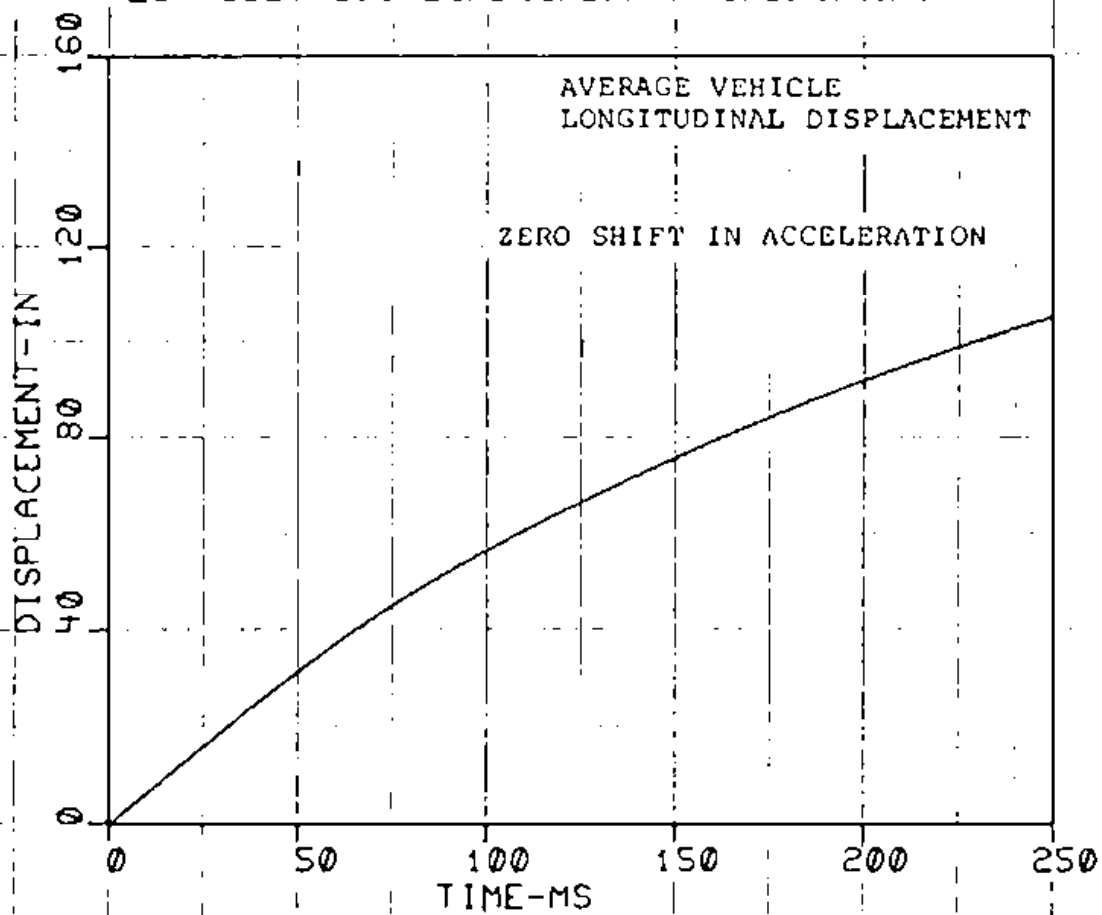
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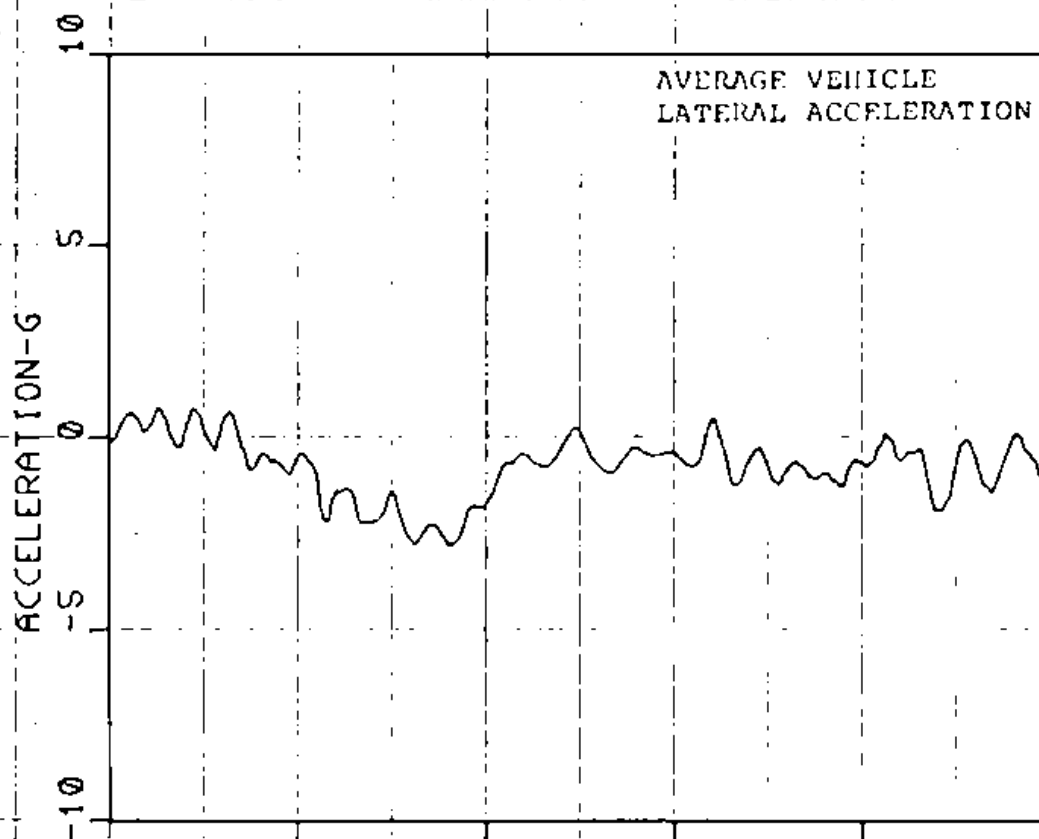
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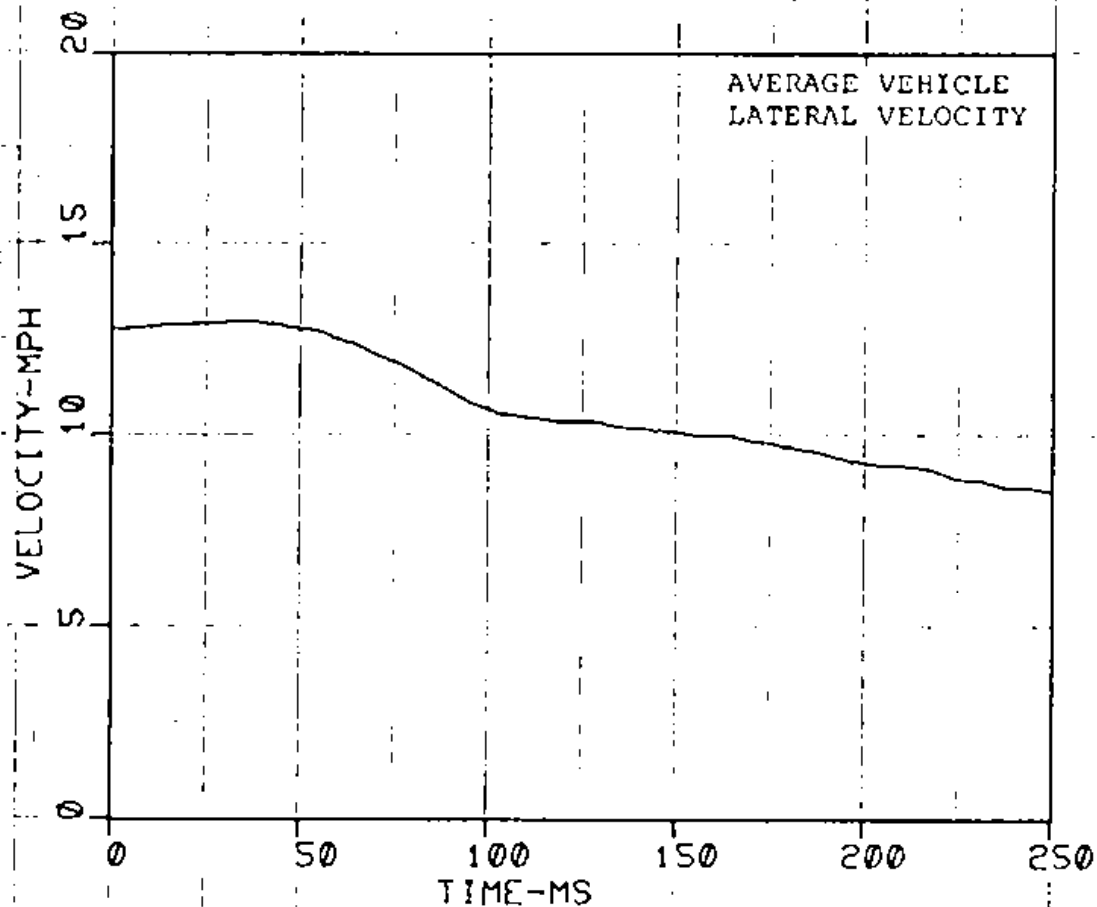
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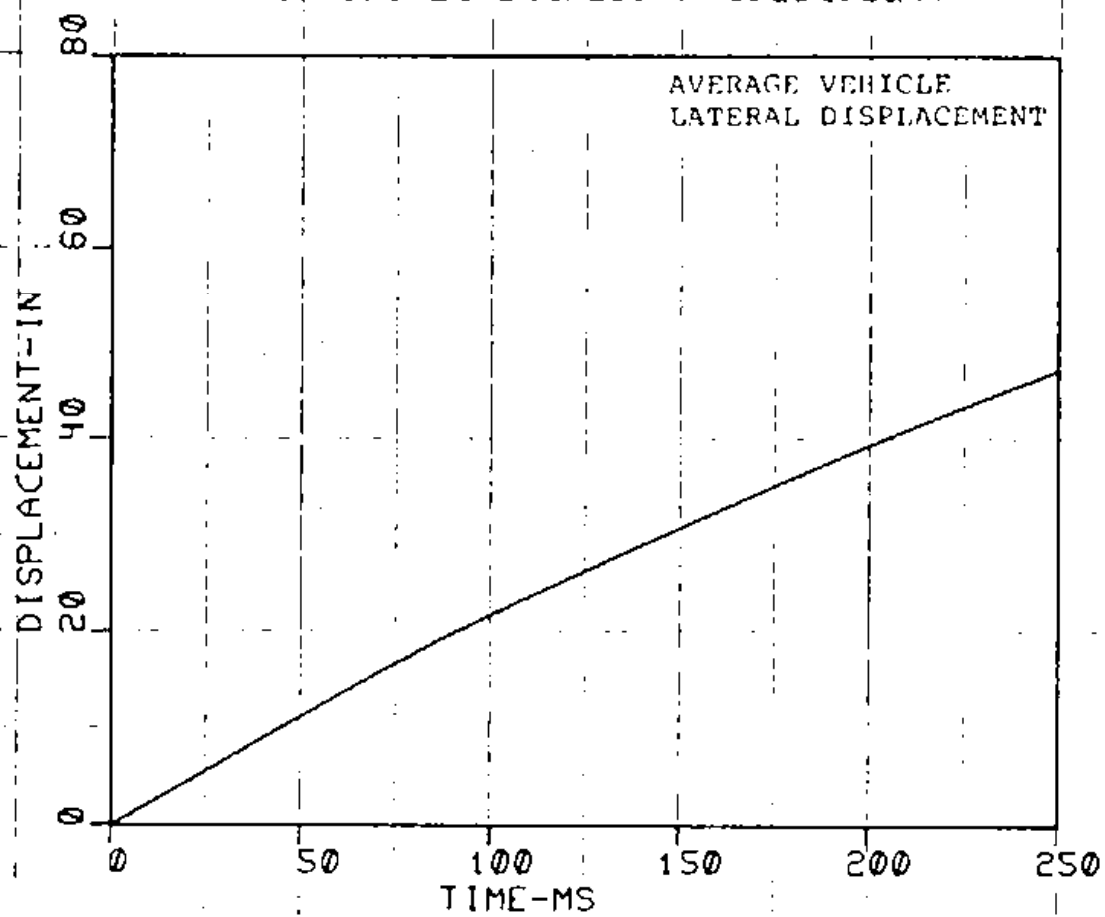
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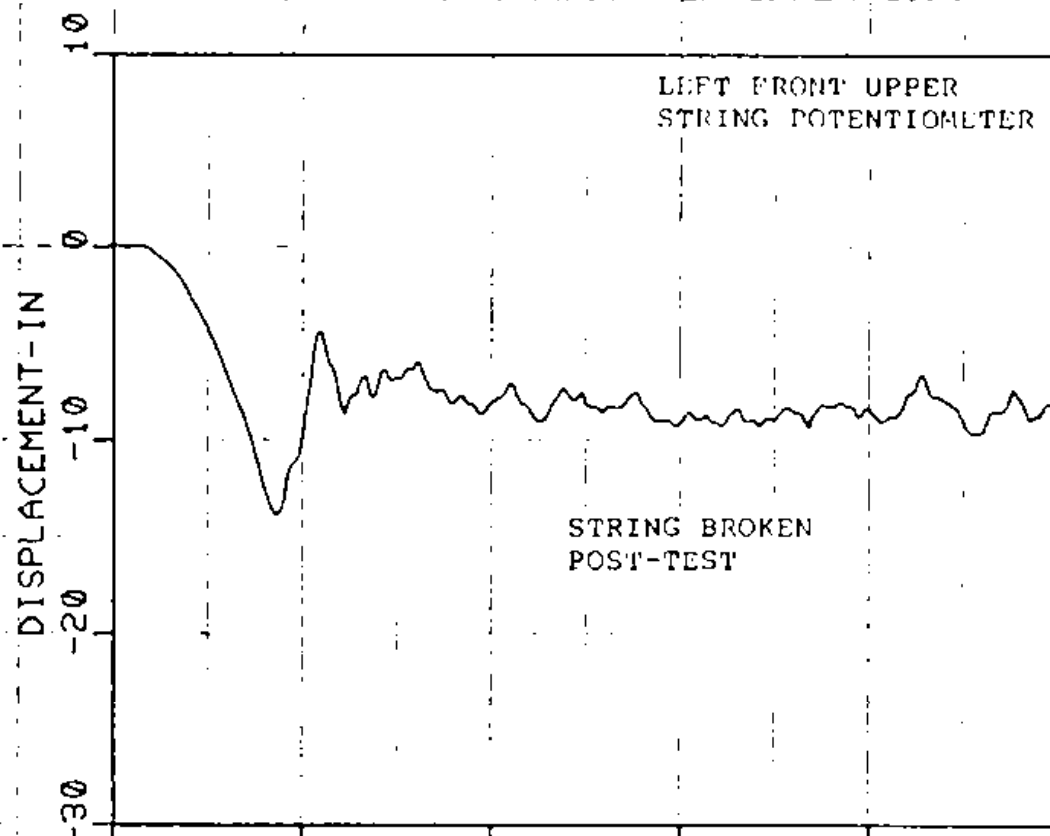
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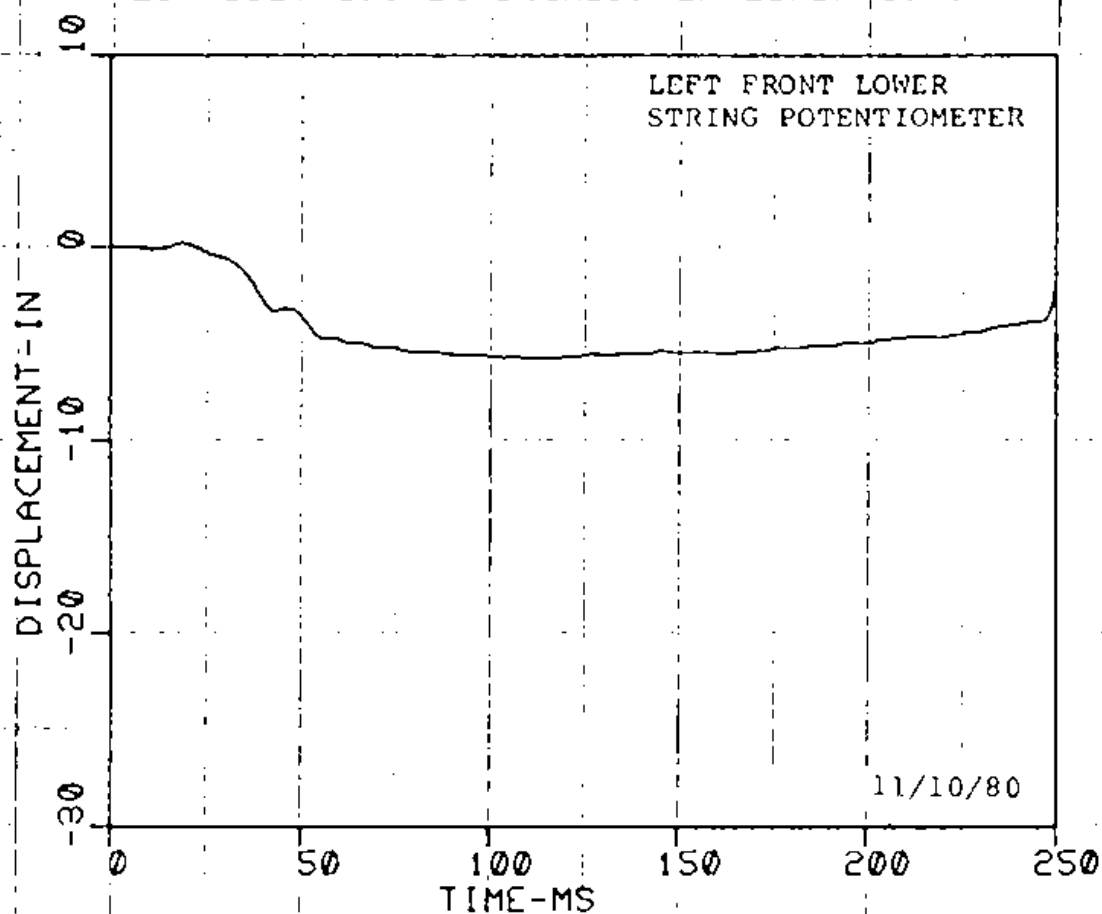
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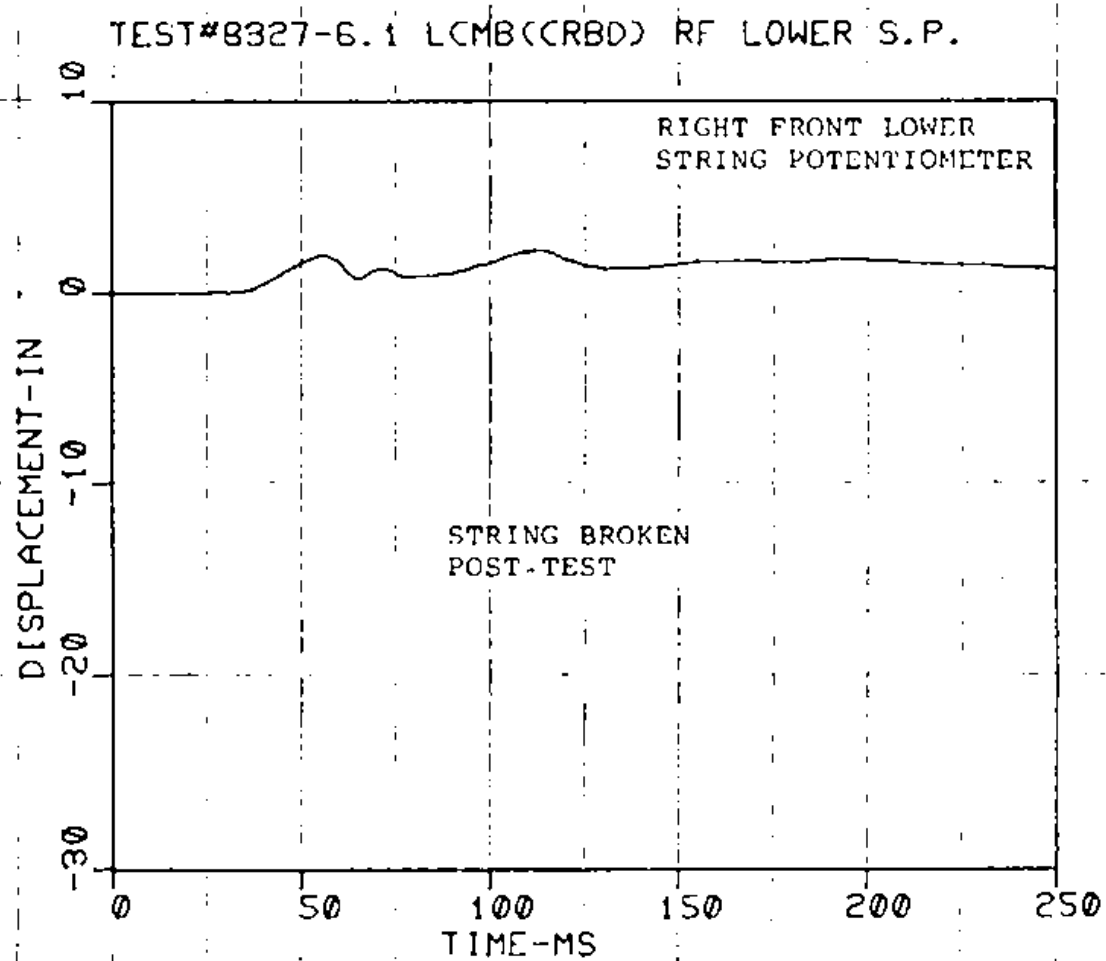
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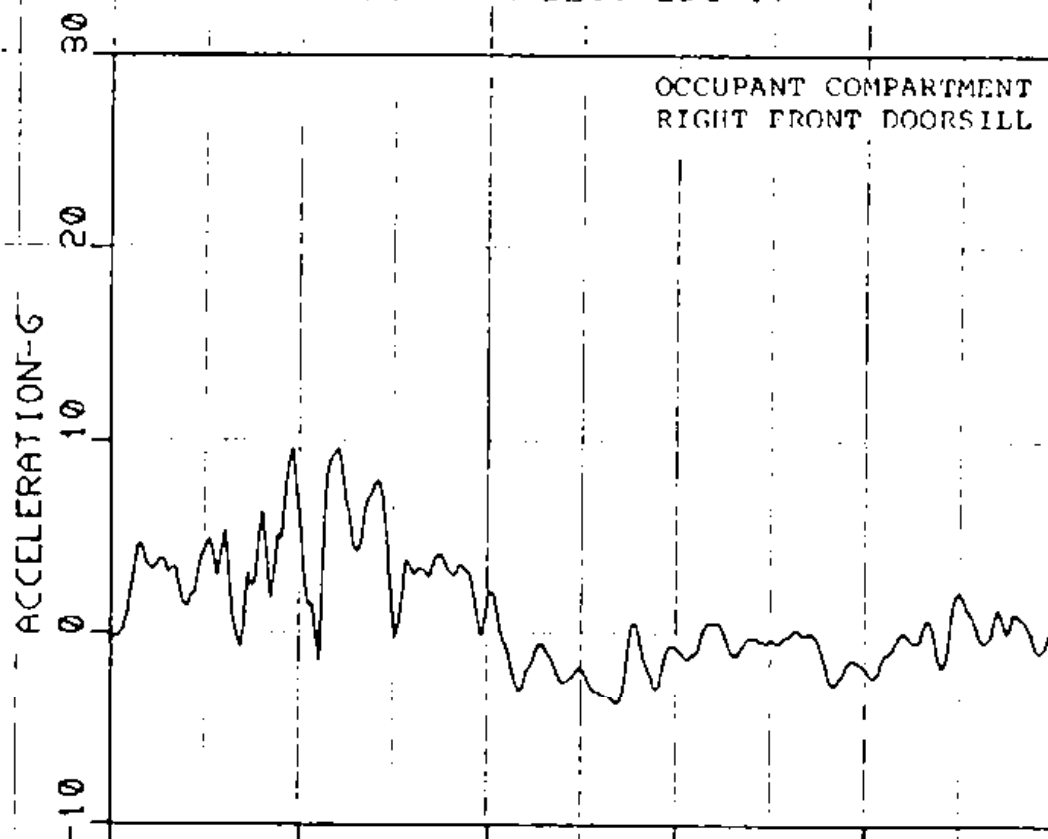
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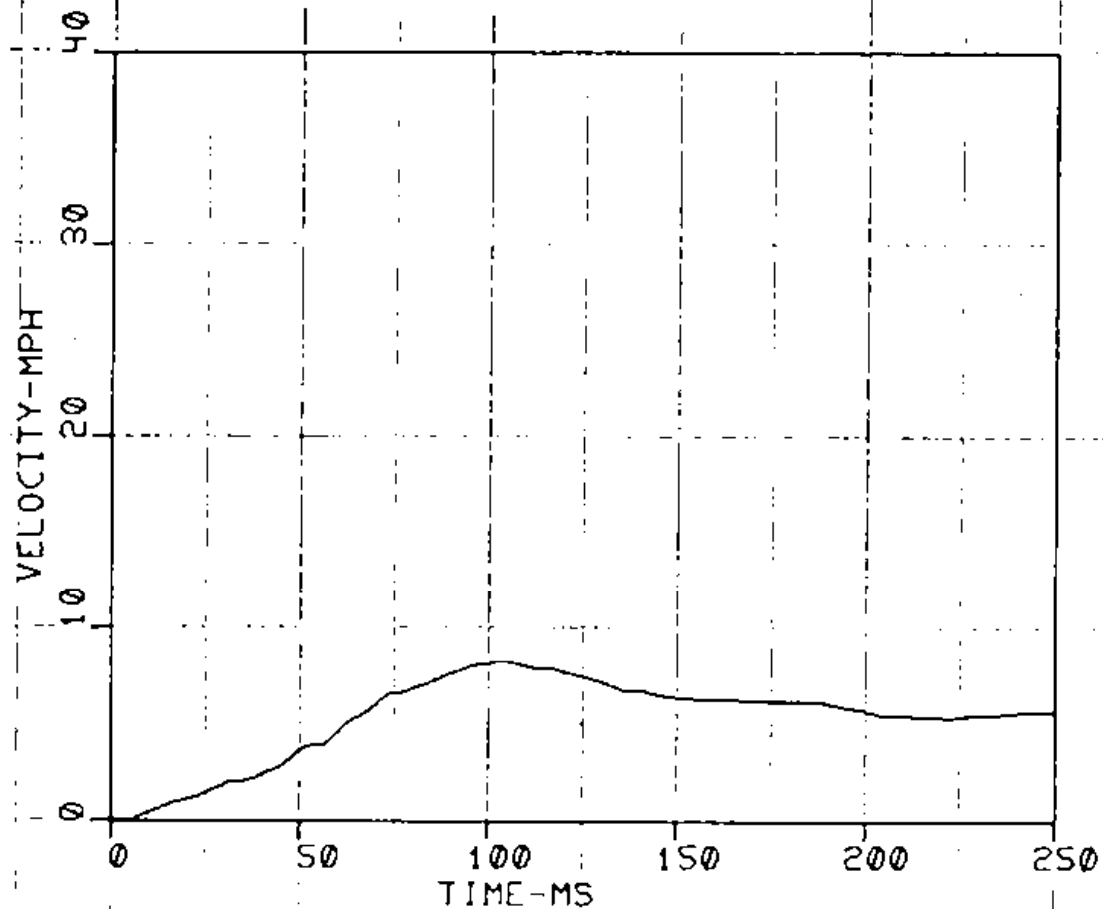
11/10/80



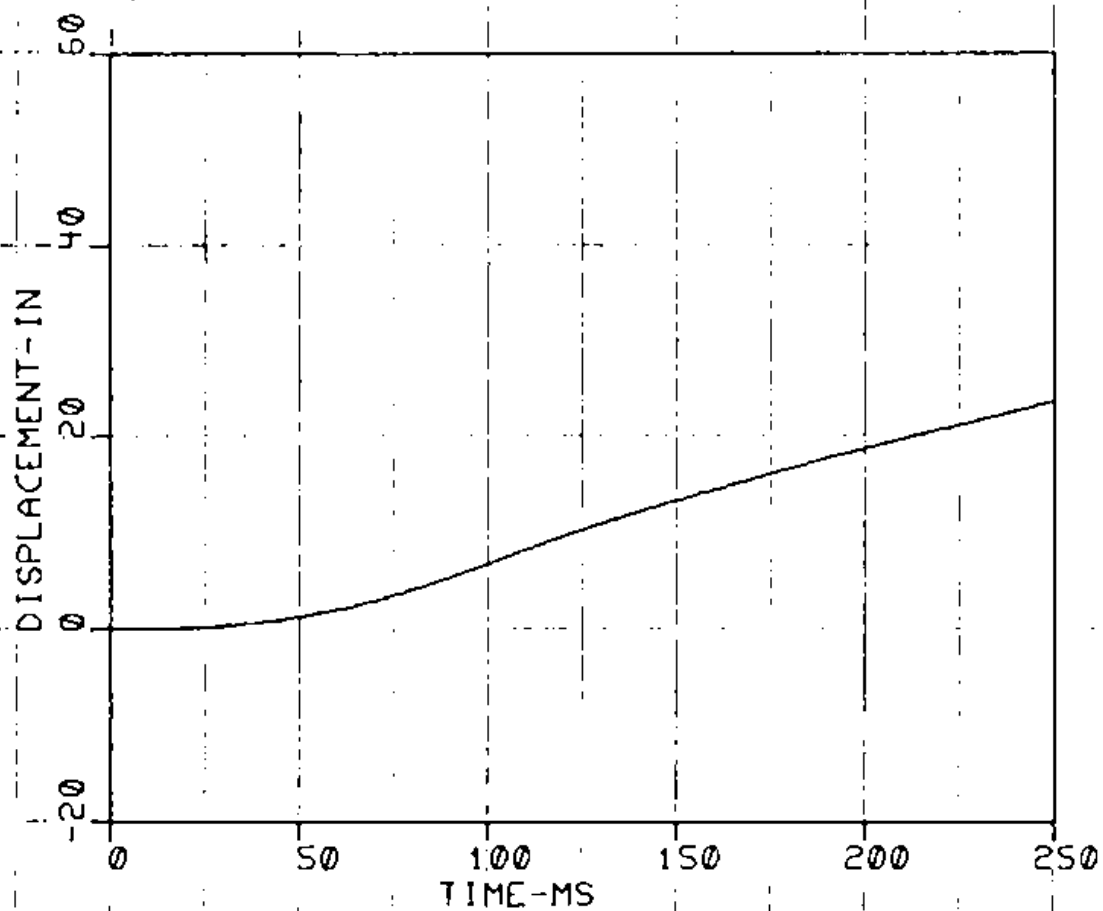
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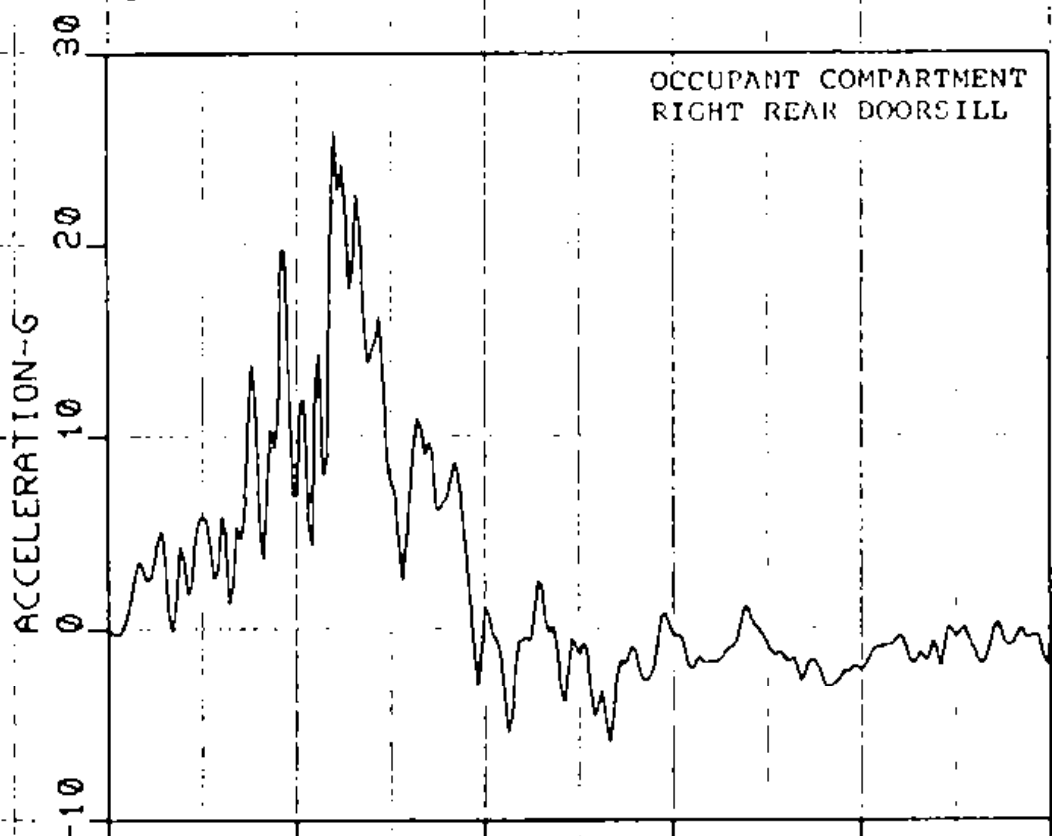
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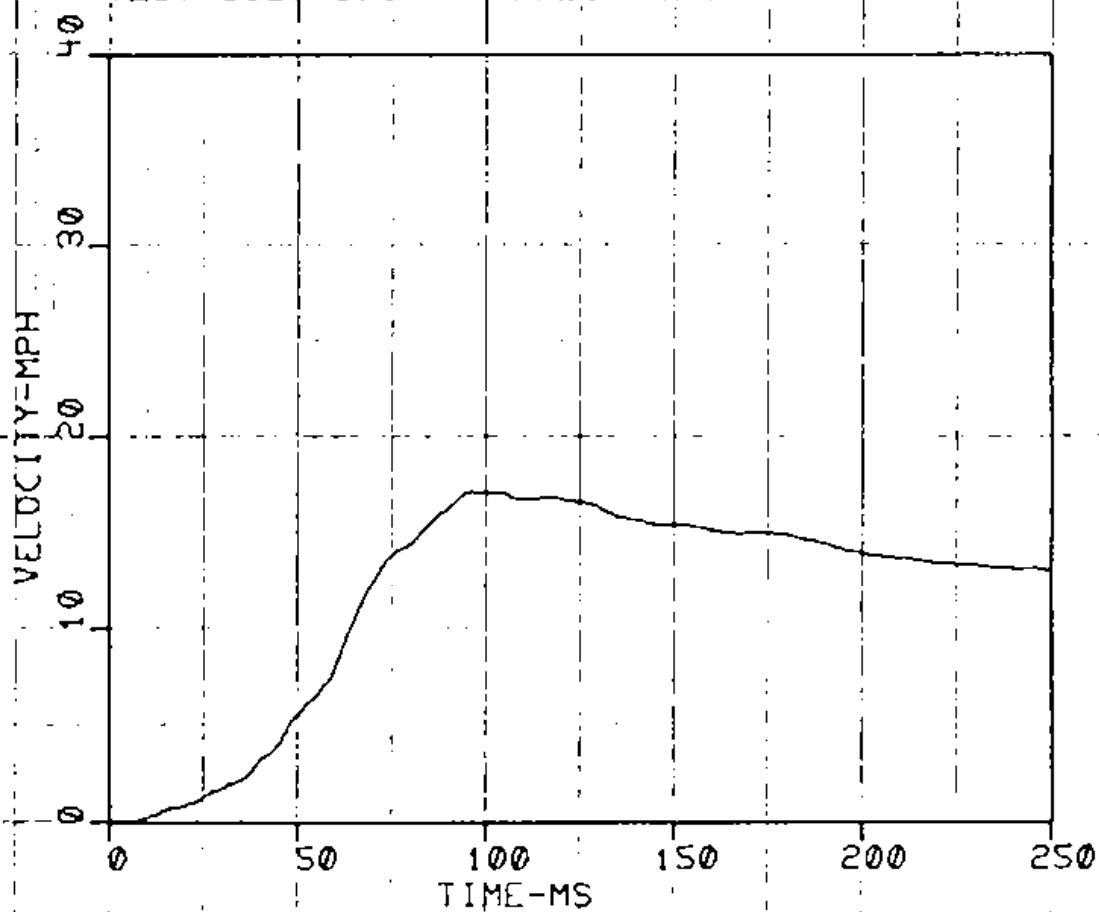
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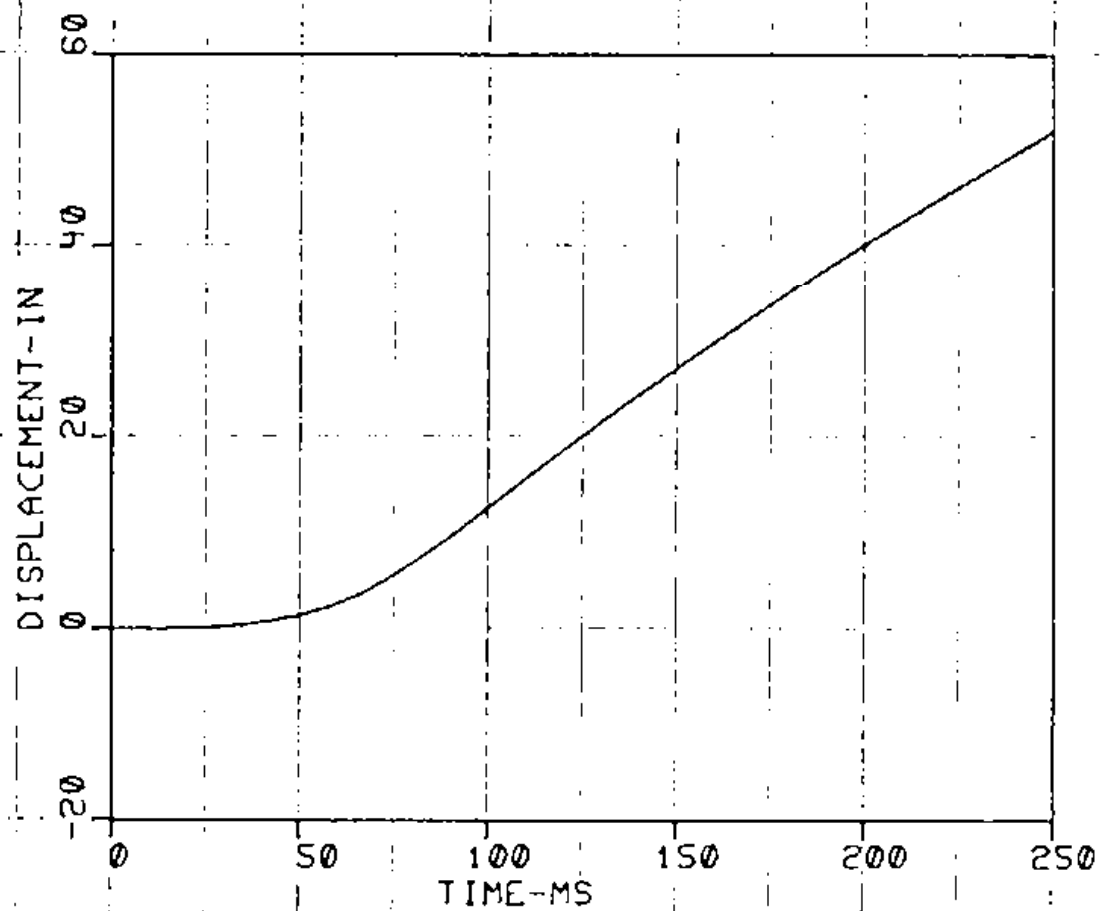
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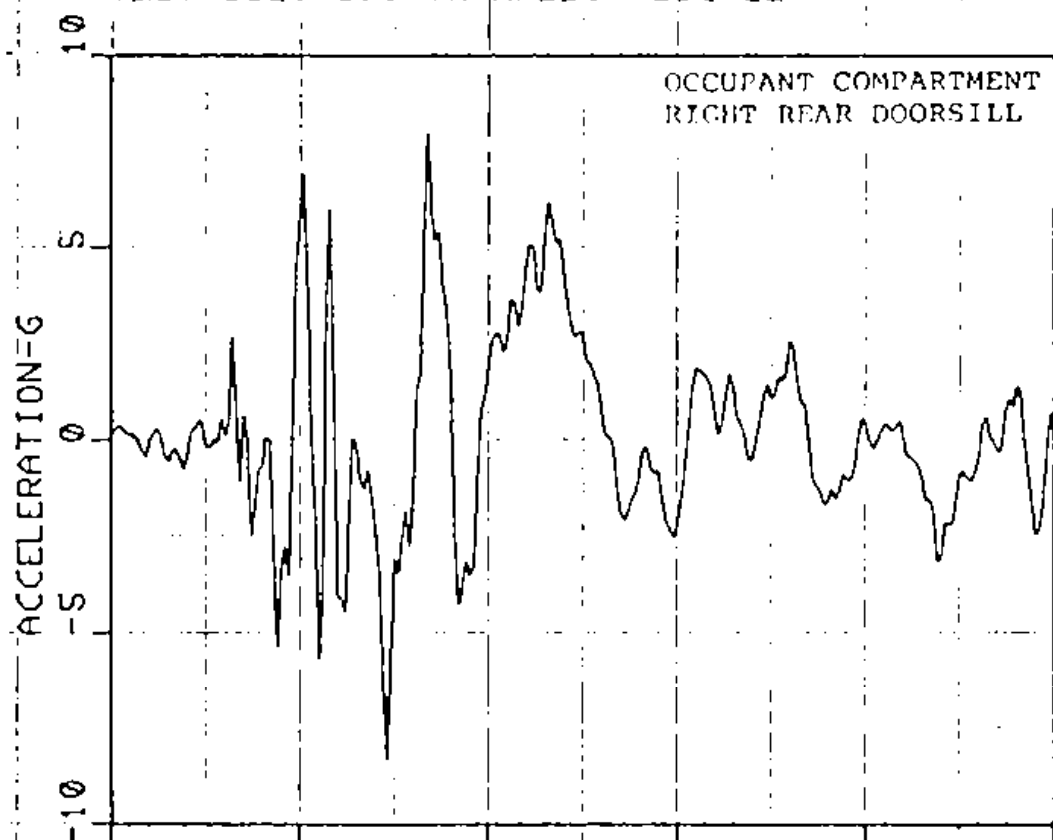
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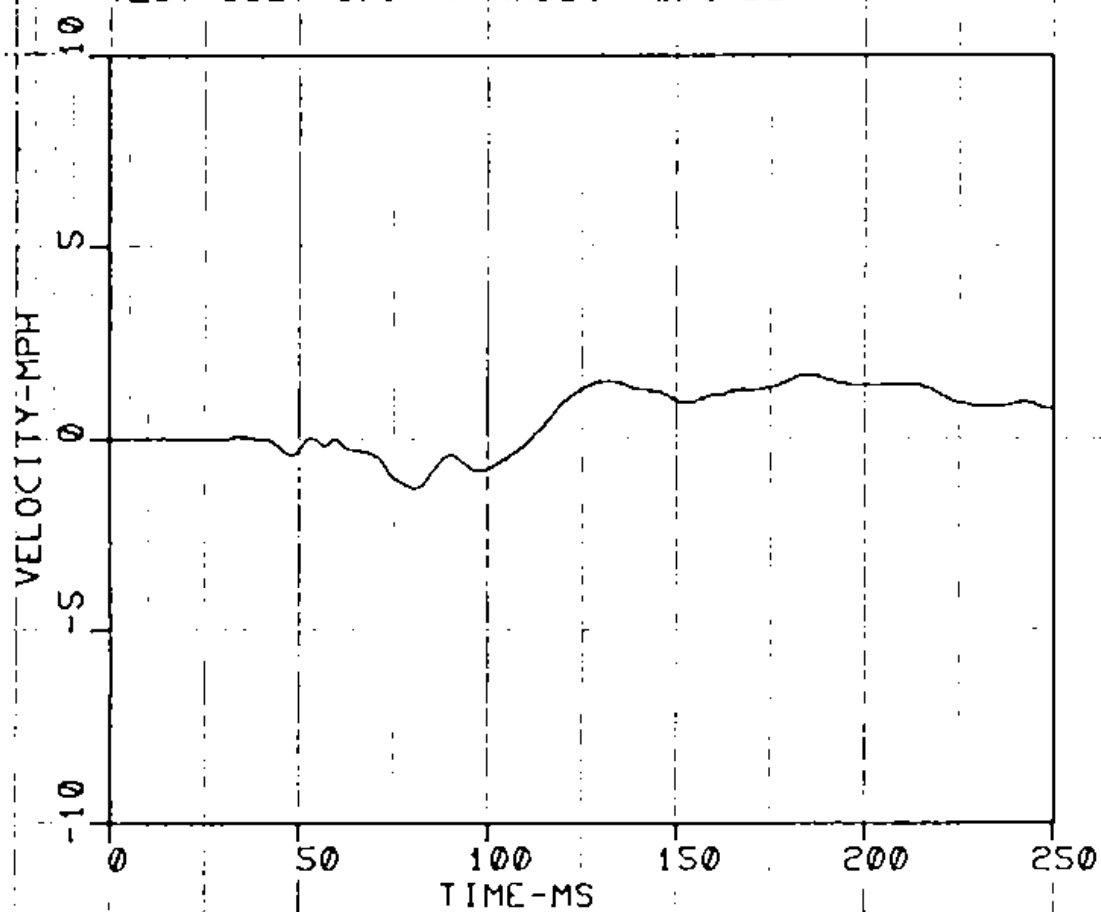
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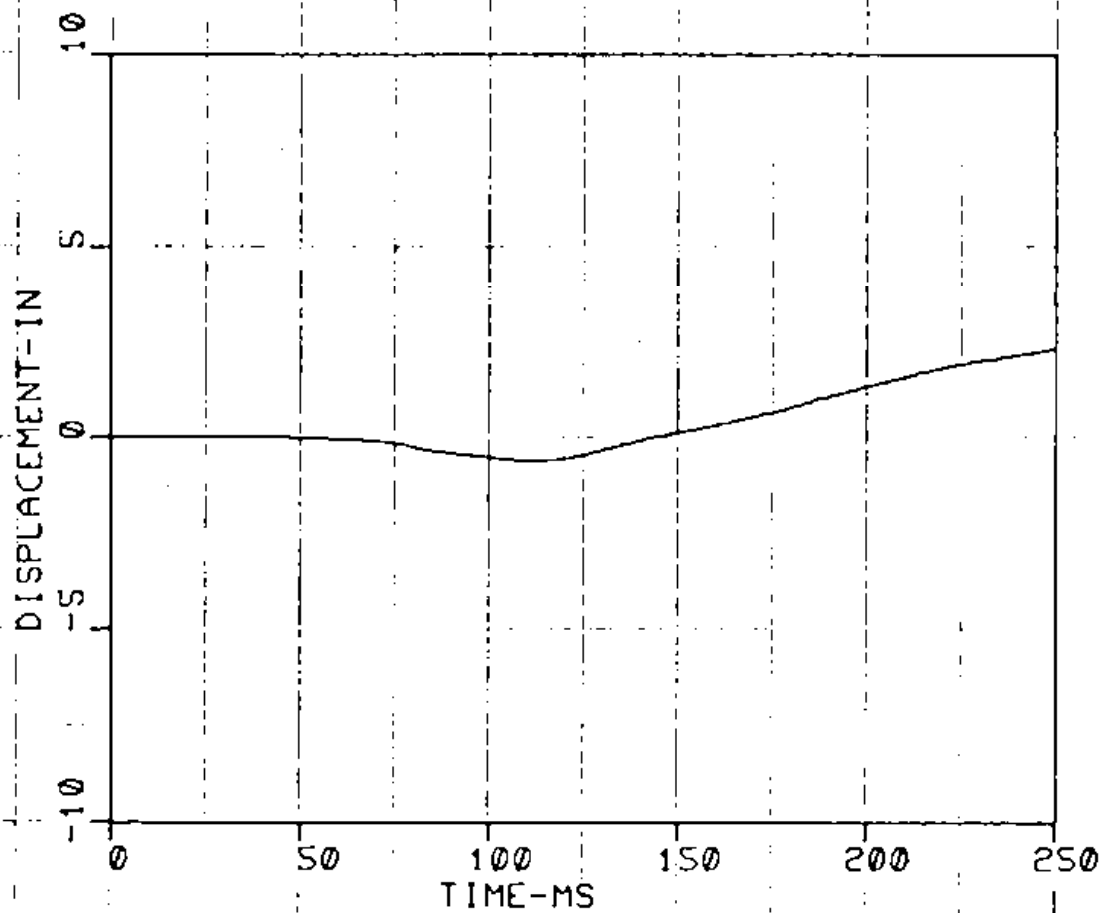
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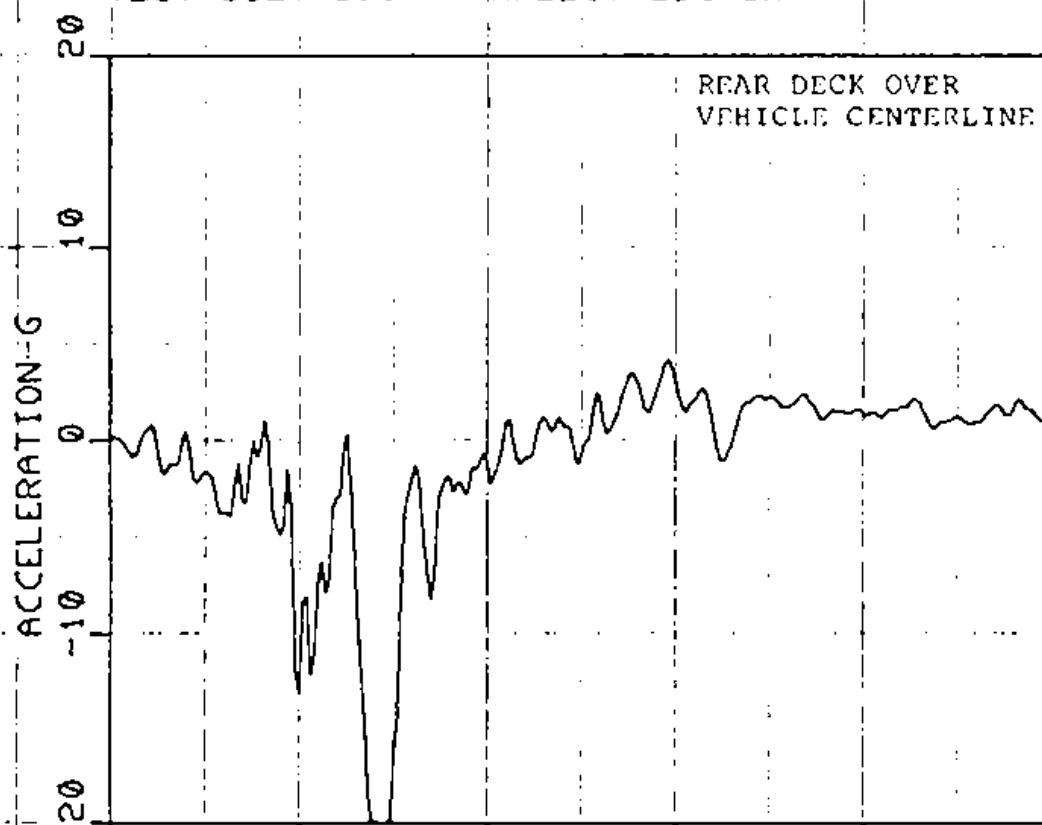
TEST#8327-6.1 VW RABBIT LOC 2Z



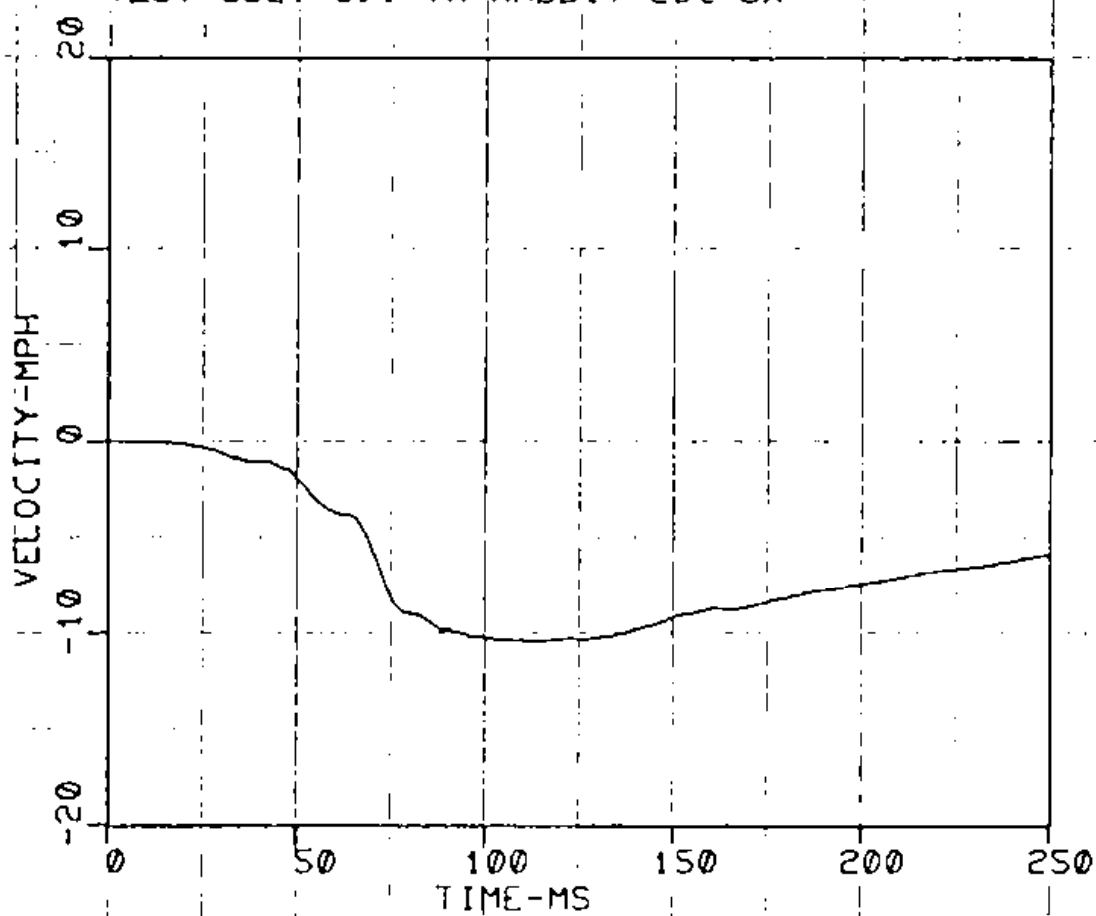
TEST#8327-6.1 VW RABBIT LOC 2Z



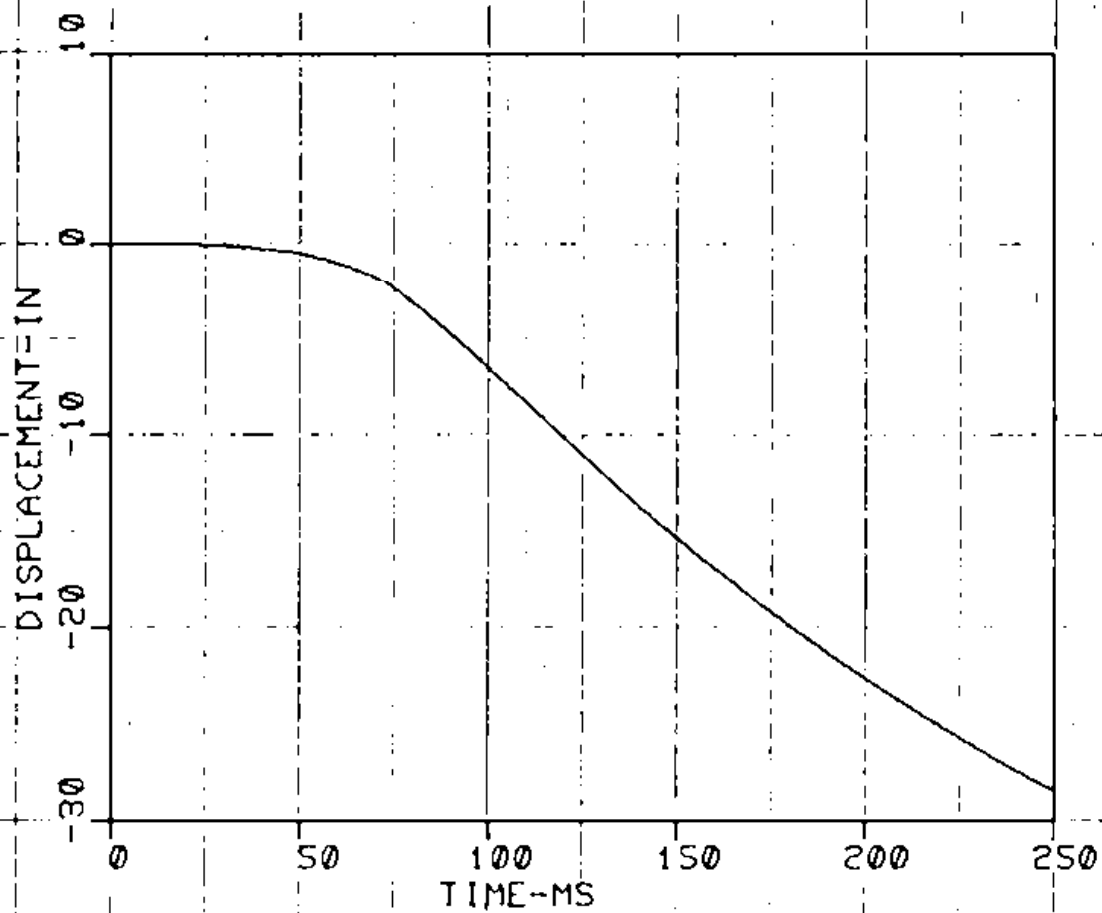
TEST#8327-6.1 VW RABBIT LOC 3X



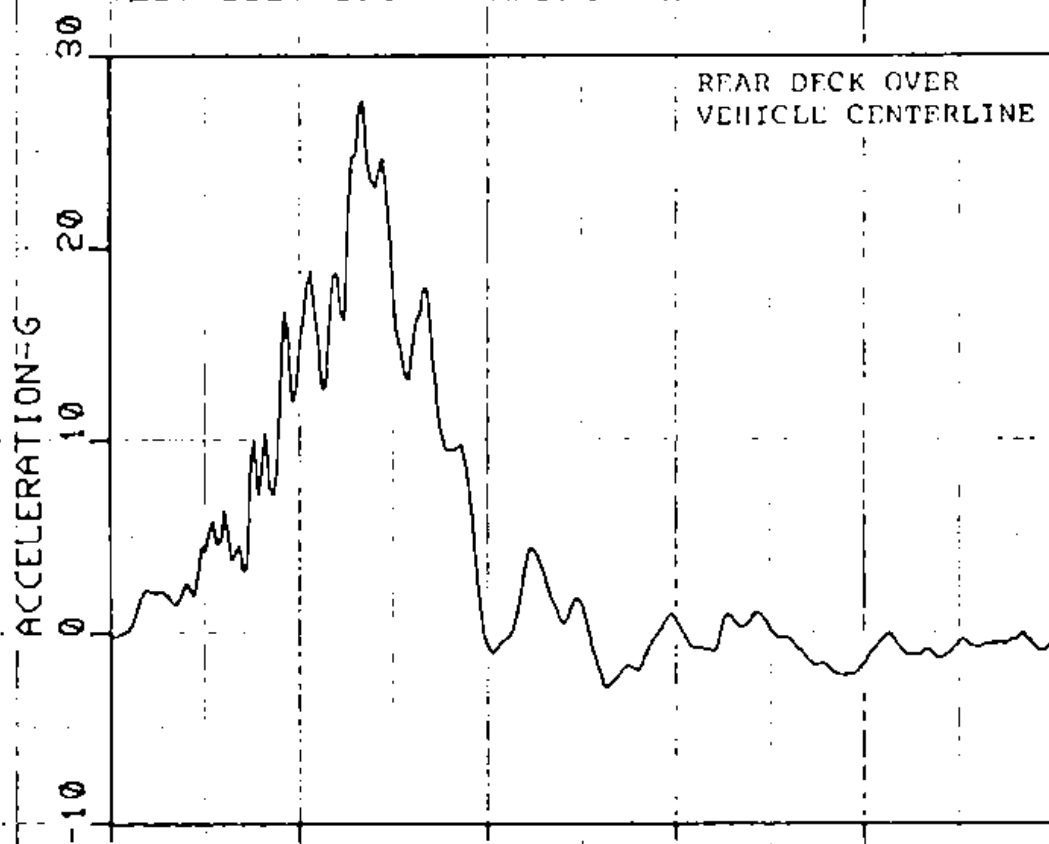
TEST#8327-6.1 VW RABBIT LOC 3X



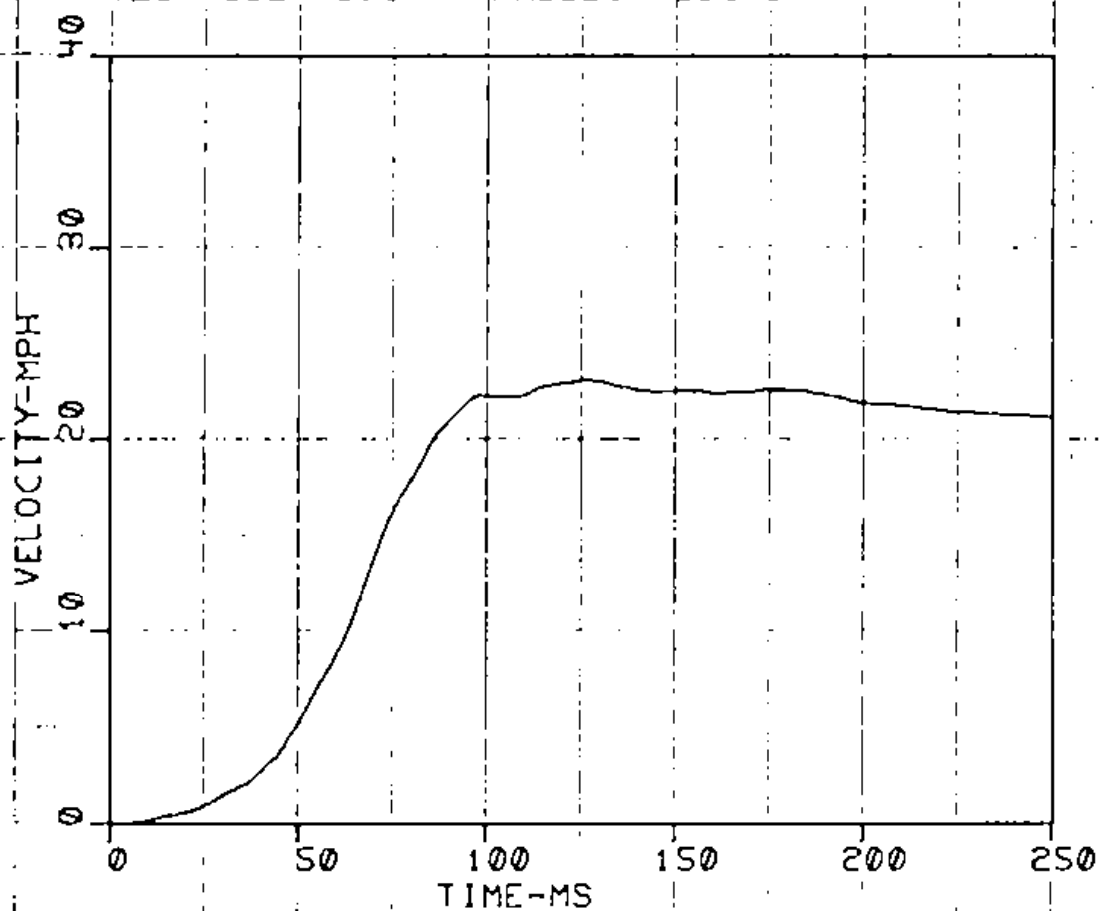
TEST#8327-6.1 VW RABBIT LOC 3X



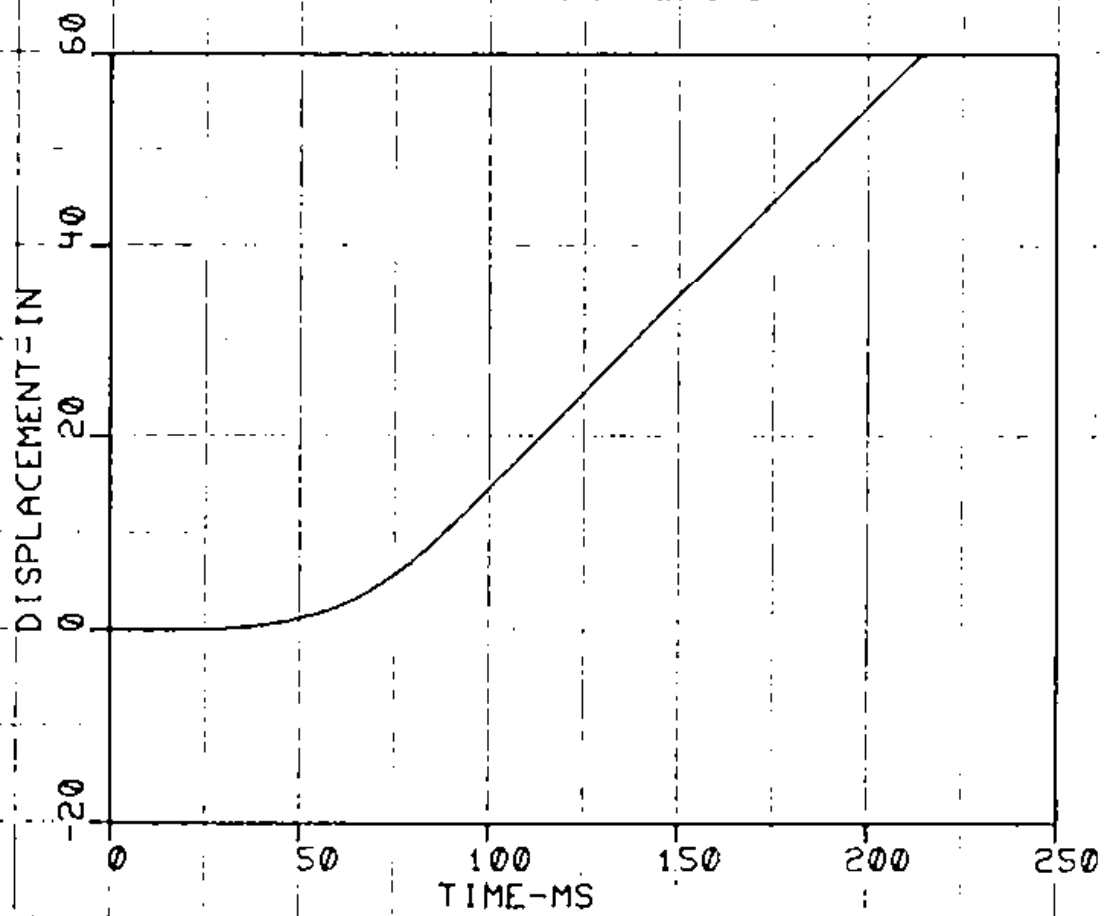
TEST#8327-6.1 VW RABBIT LOC 3Y



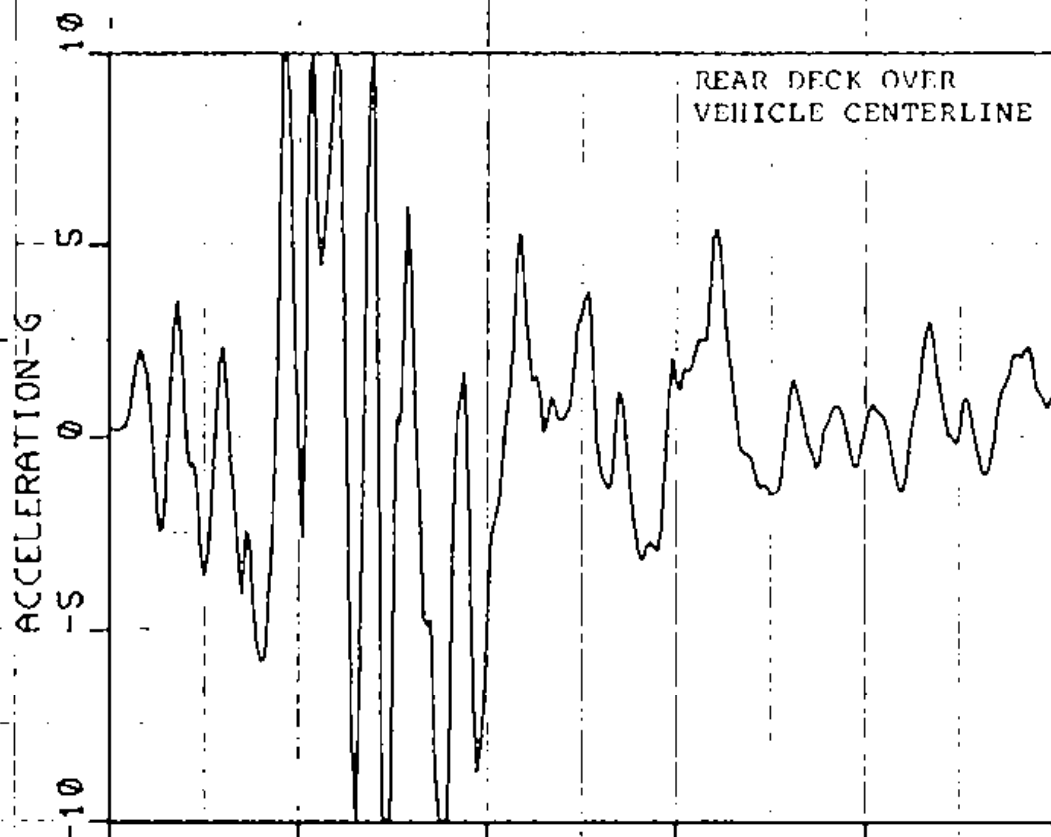
TEST#8327-6.1 VW RABBIT LOC 3Y



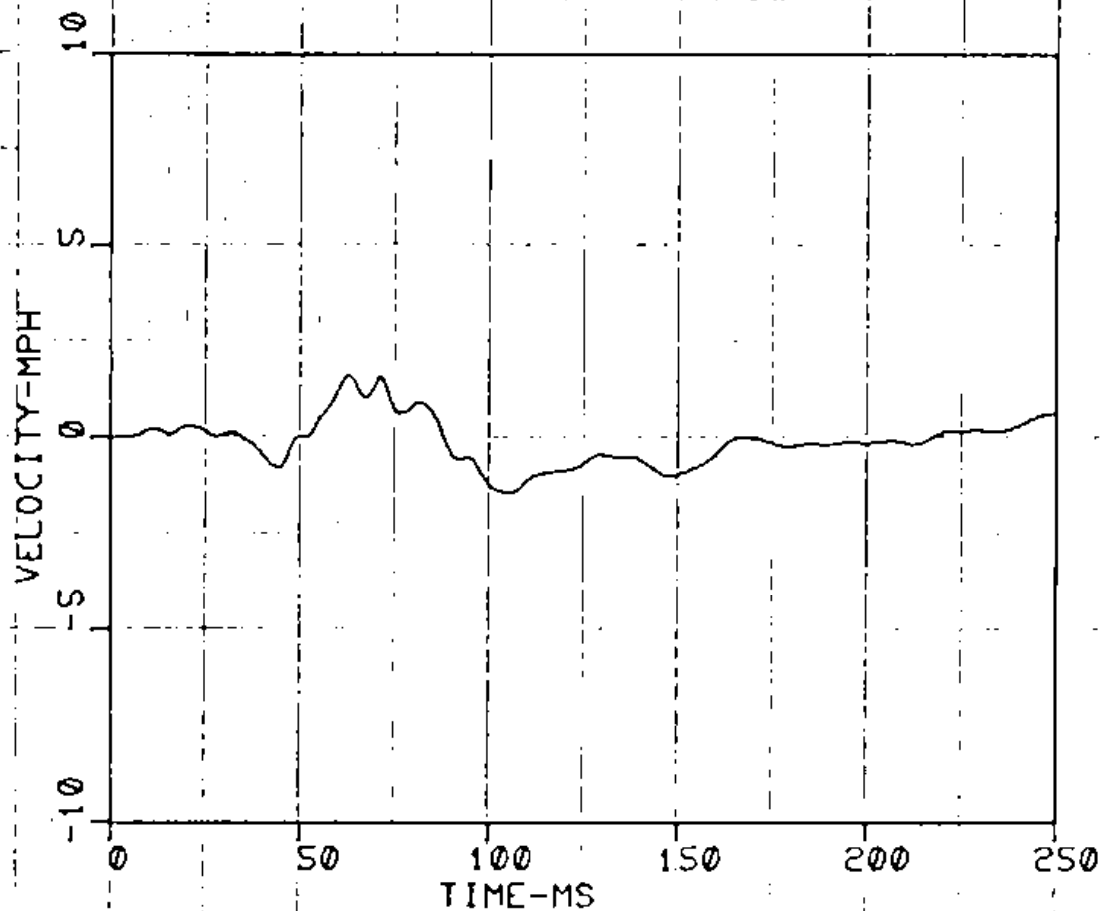
TEST#8327-6.1 VW RABBIT LOC 3Y



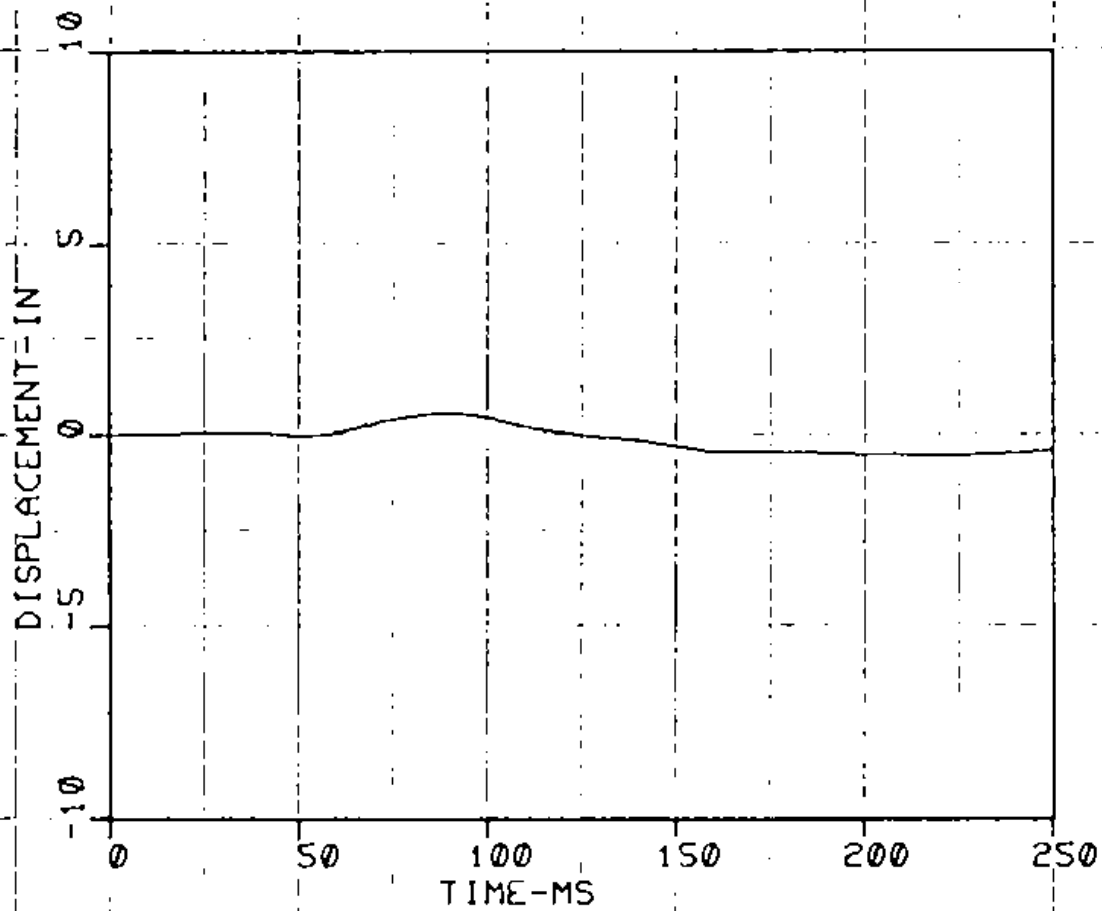
TEST#8327-6.1 VW RABBIT LOC 3Z



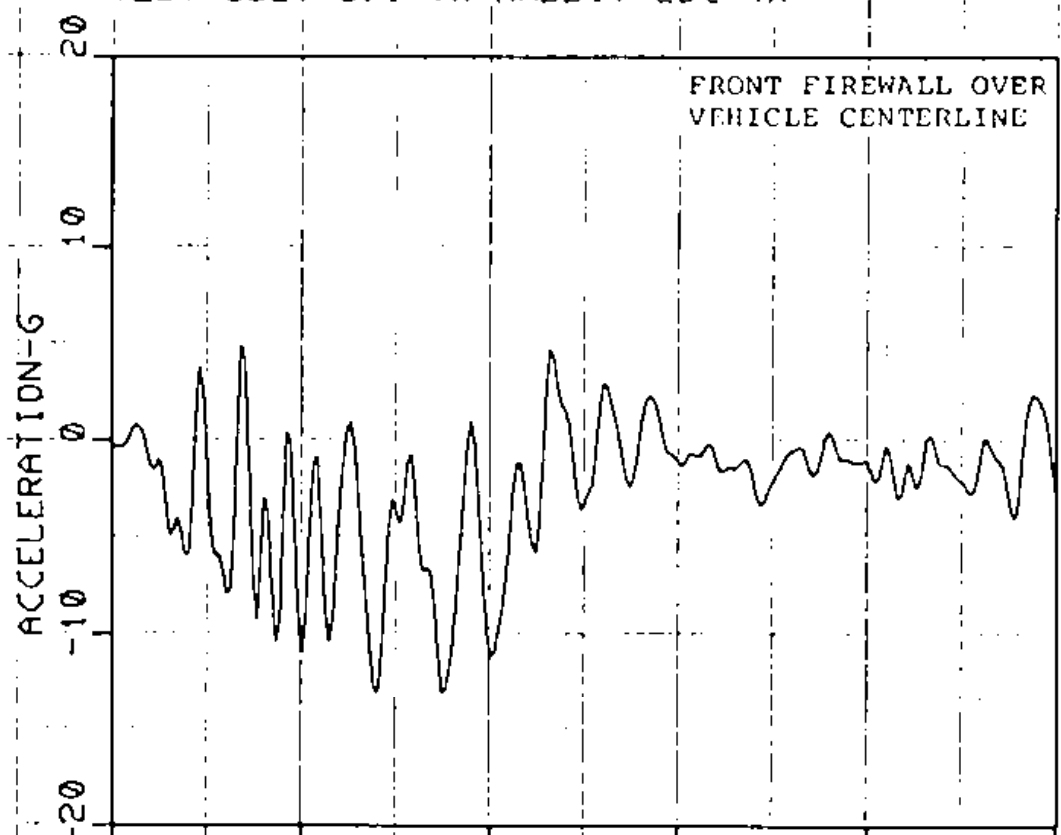
TEST#8327-6.1 VW RABBIT LOC 3Z



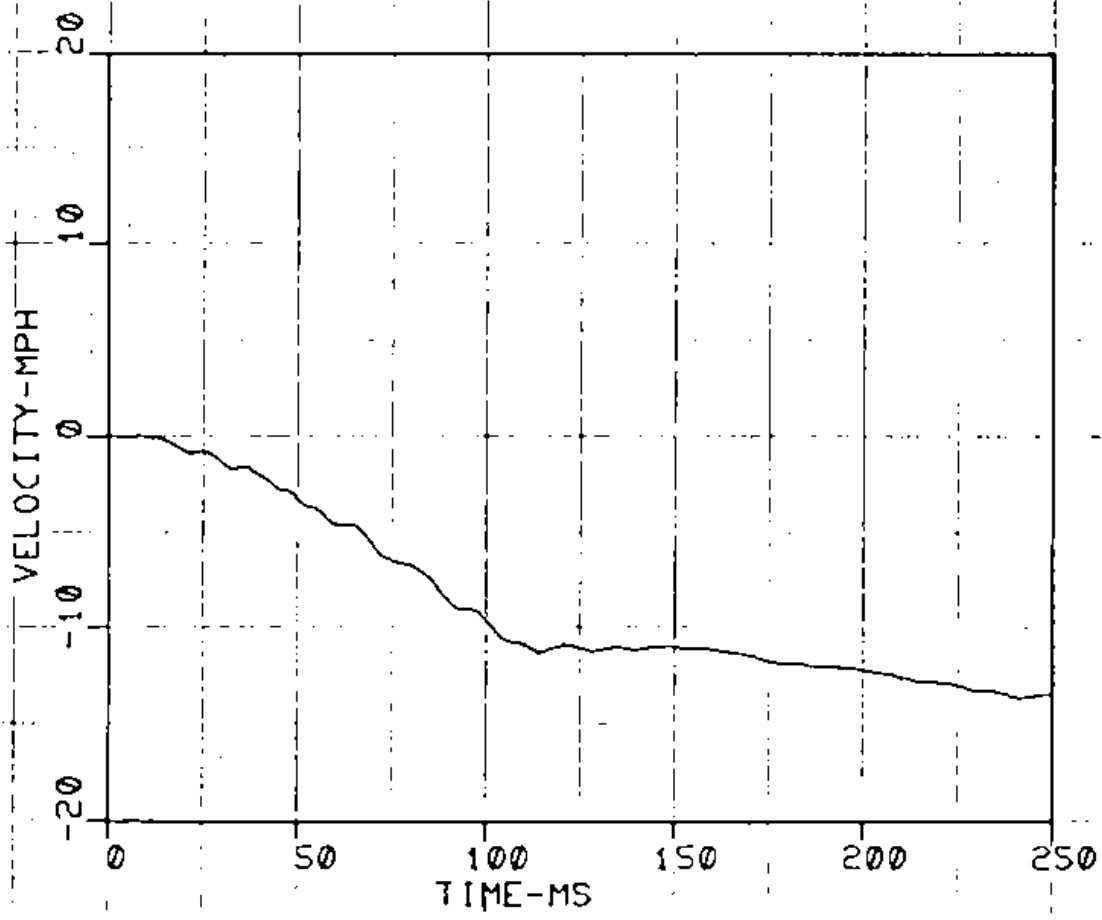
TEST#8327-6.1 VW RABBIT LOC 3Z



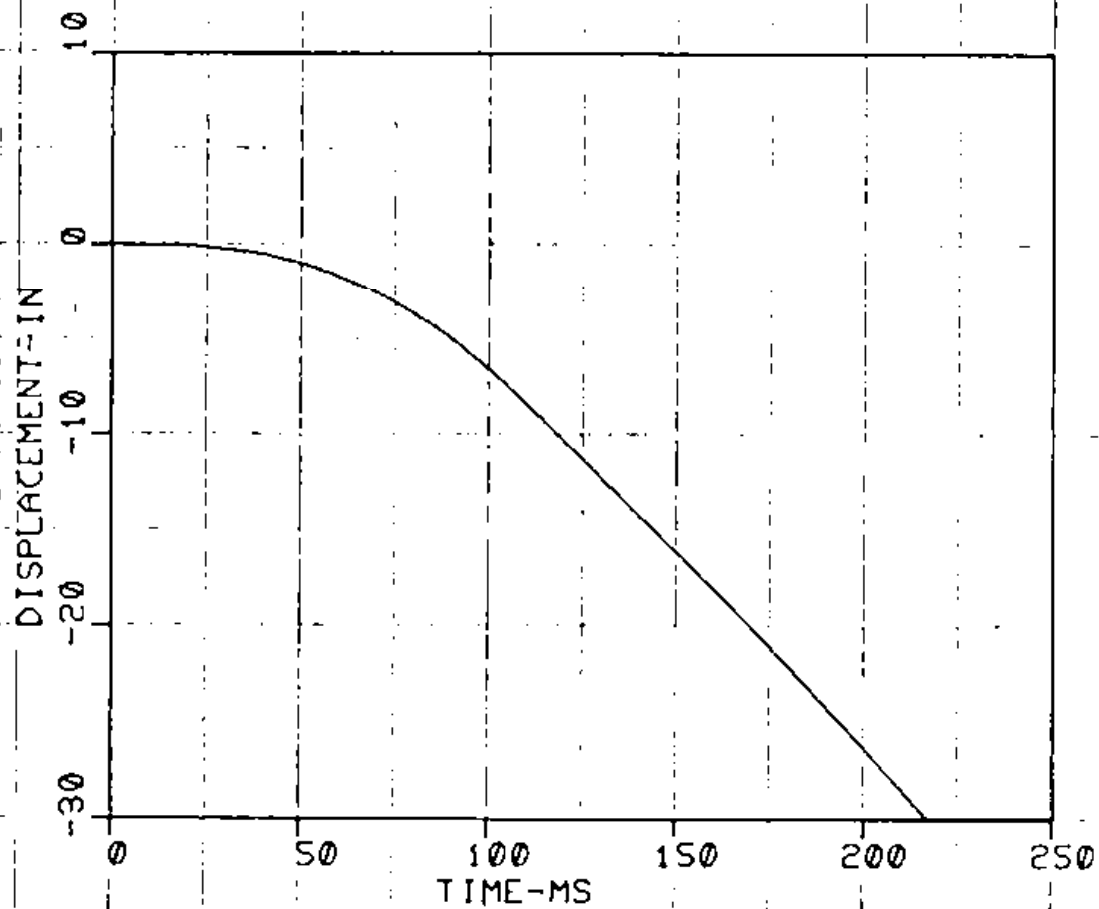
TEST#8327-6.1 VW RABBIT LOC 4X



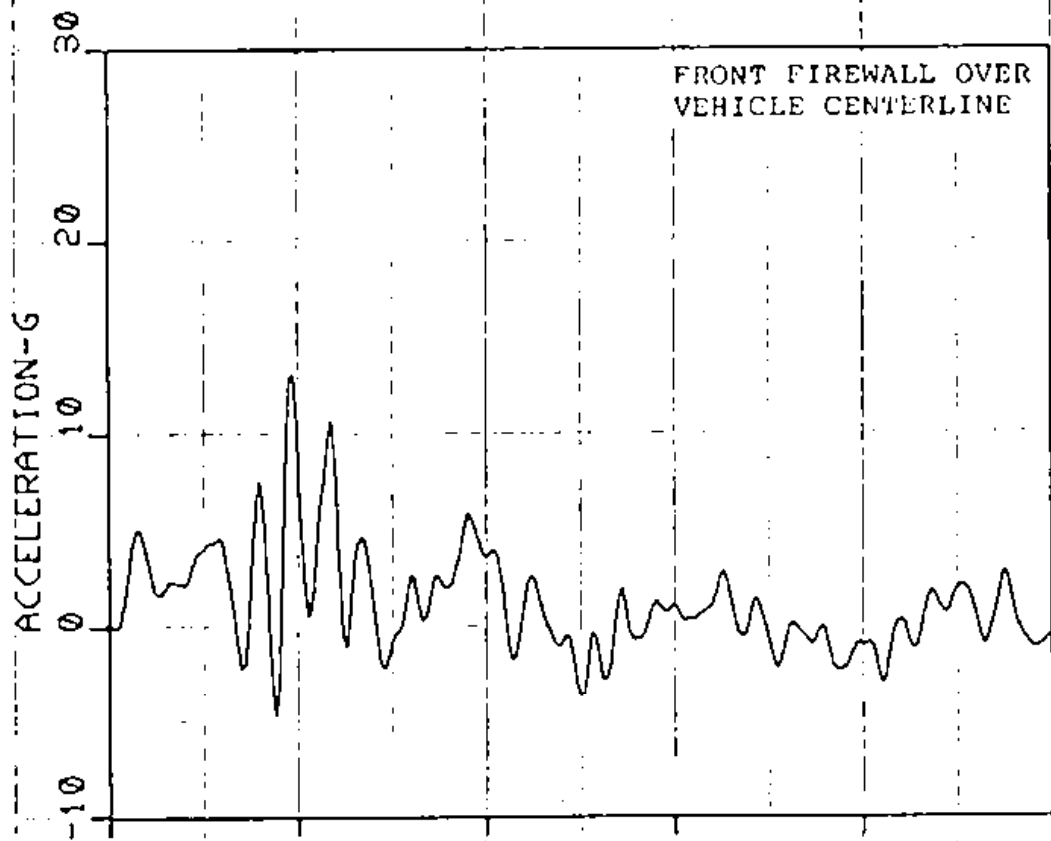
TEST#8327-6.1 VW RABBIT LOC 4X



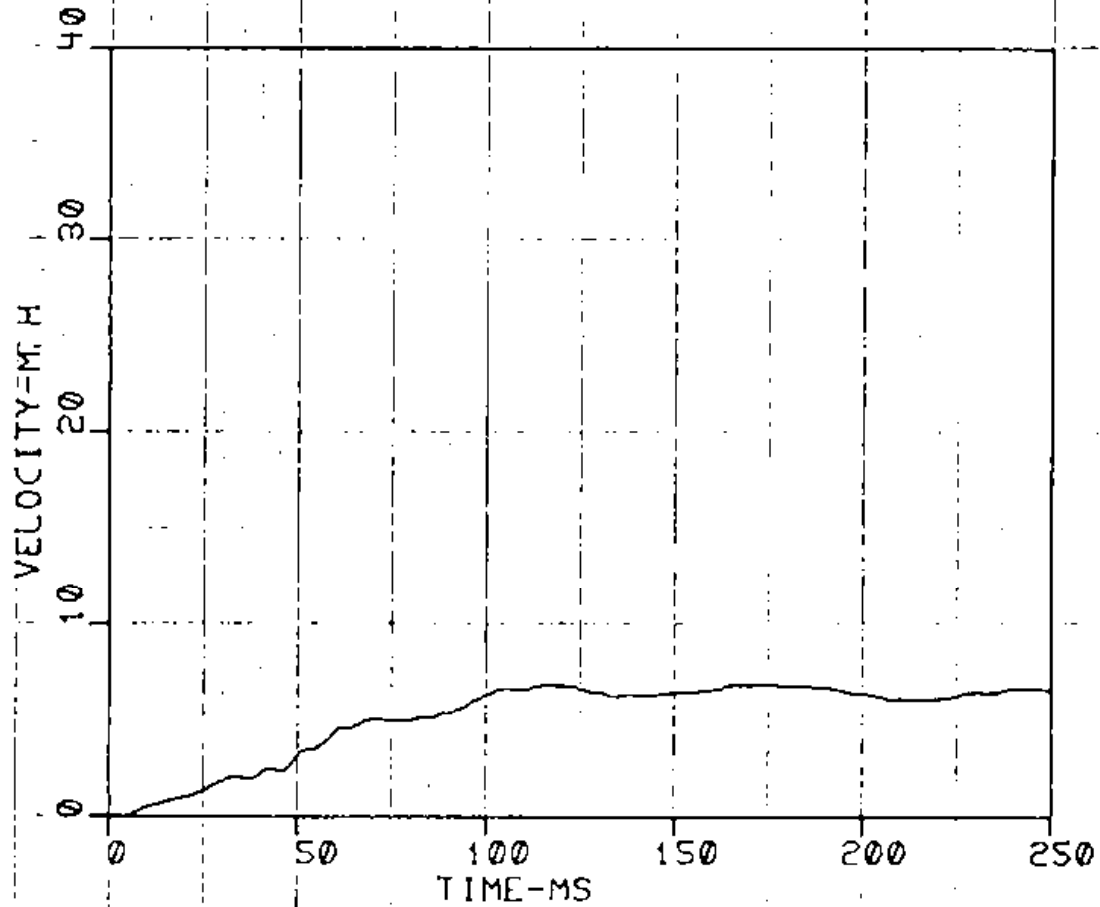
TEST#8327-6.1 VW RABBIT LOC 4X



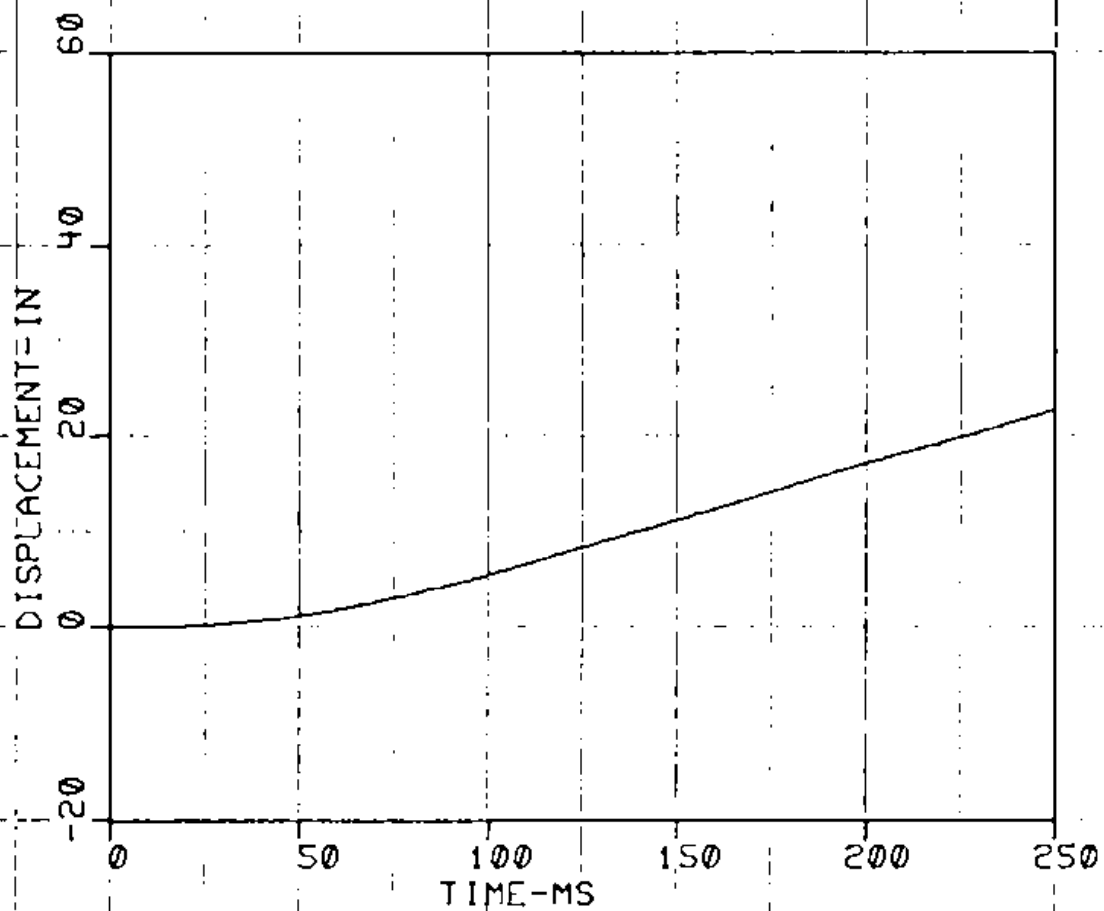
TEST#8327-6.1 VW RABBIT LOC 4Y



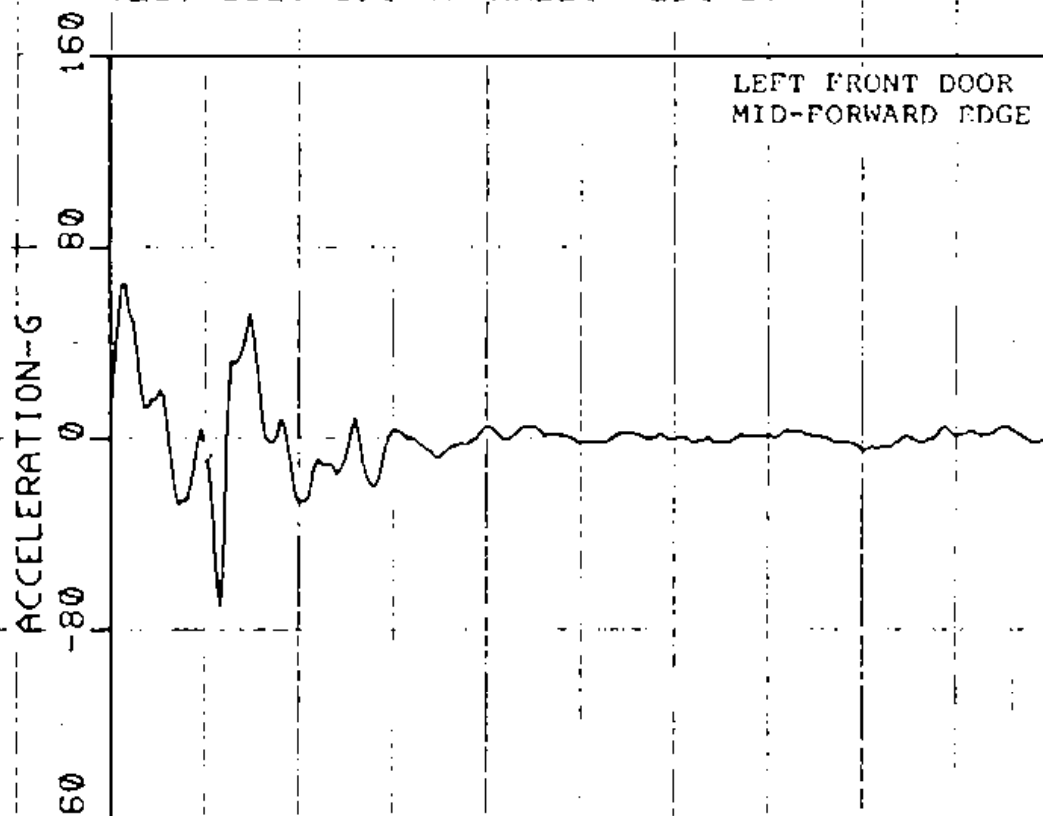
TEST#8327-6.1 VW RABBIT LOC 4Y



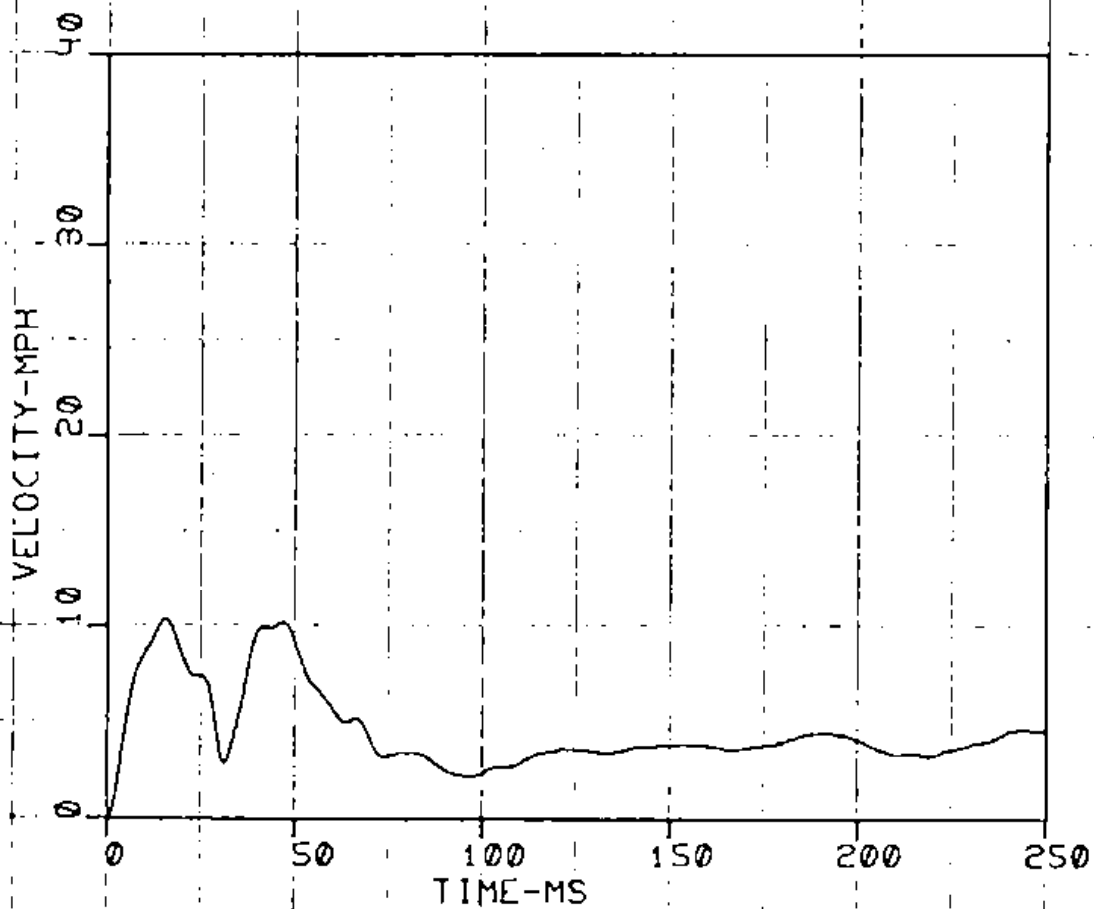
TEST#8327-6.1 VW RABBIT LOC 4Y



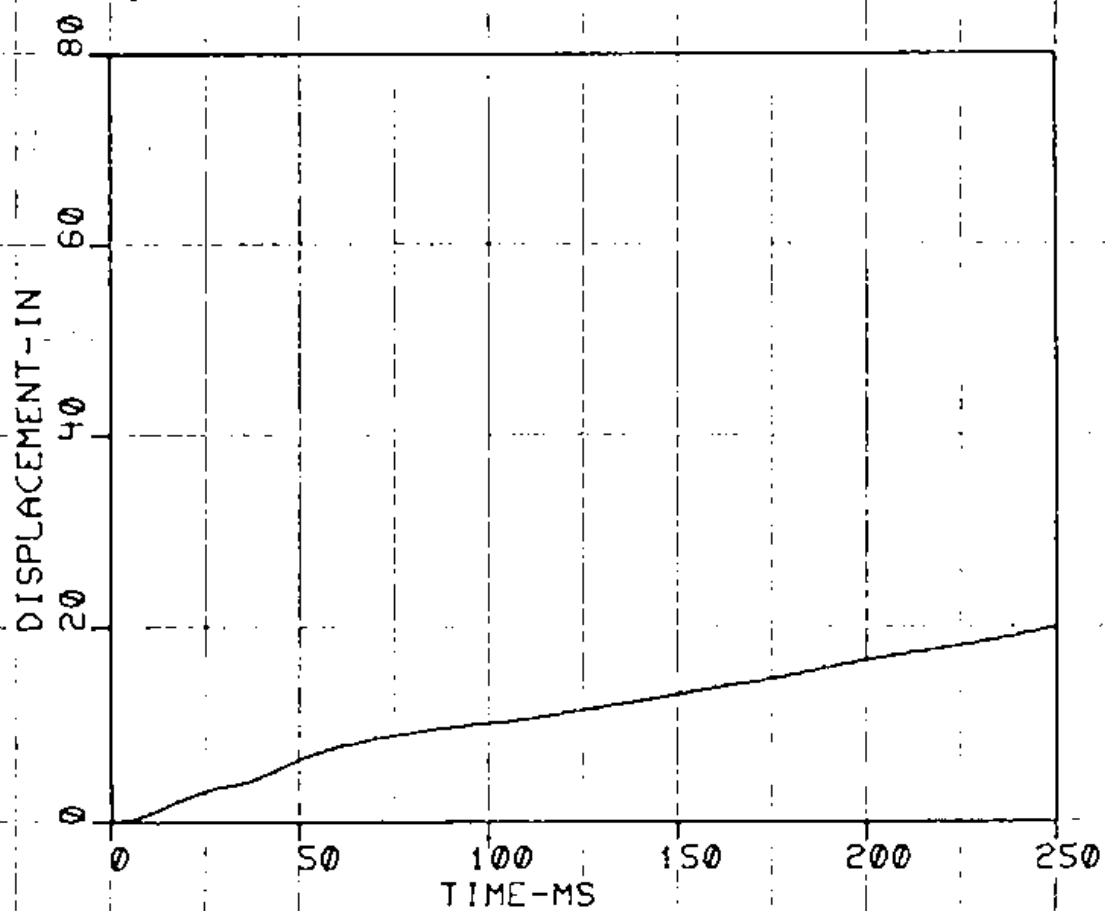
TEST#8327-6.1 VW RABBIT LOC SY



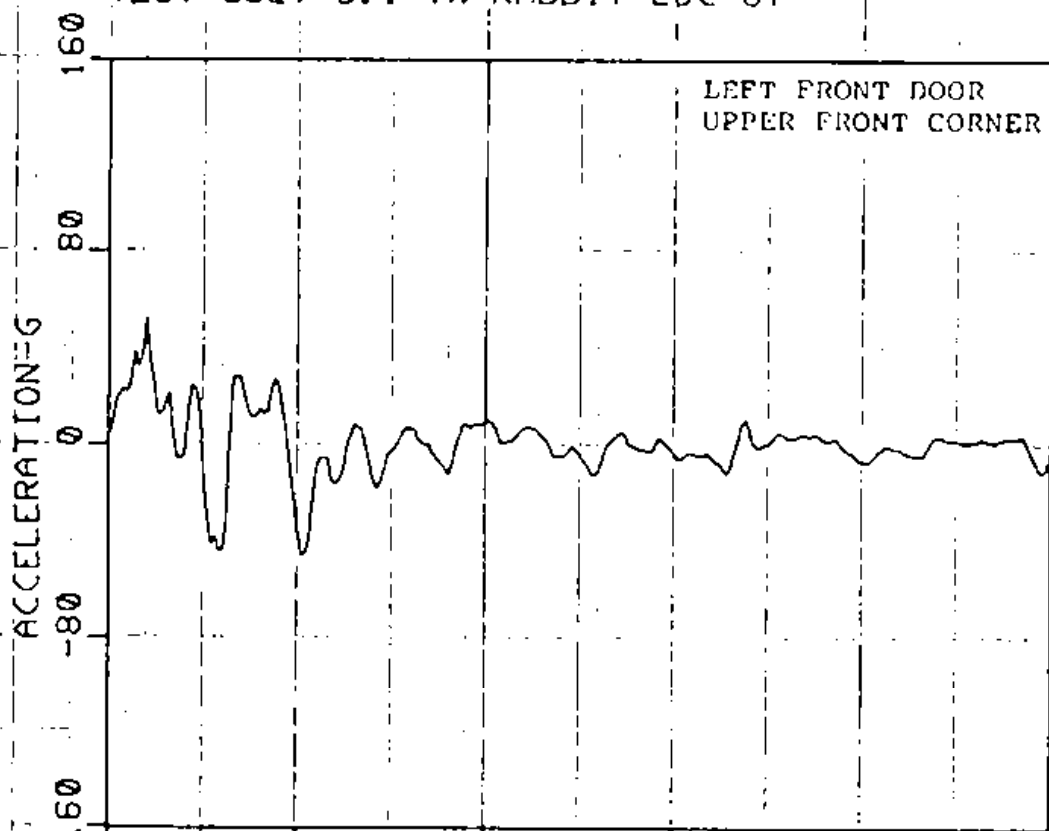
TEST#8327-6.1 VW RABBIT LOC SY



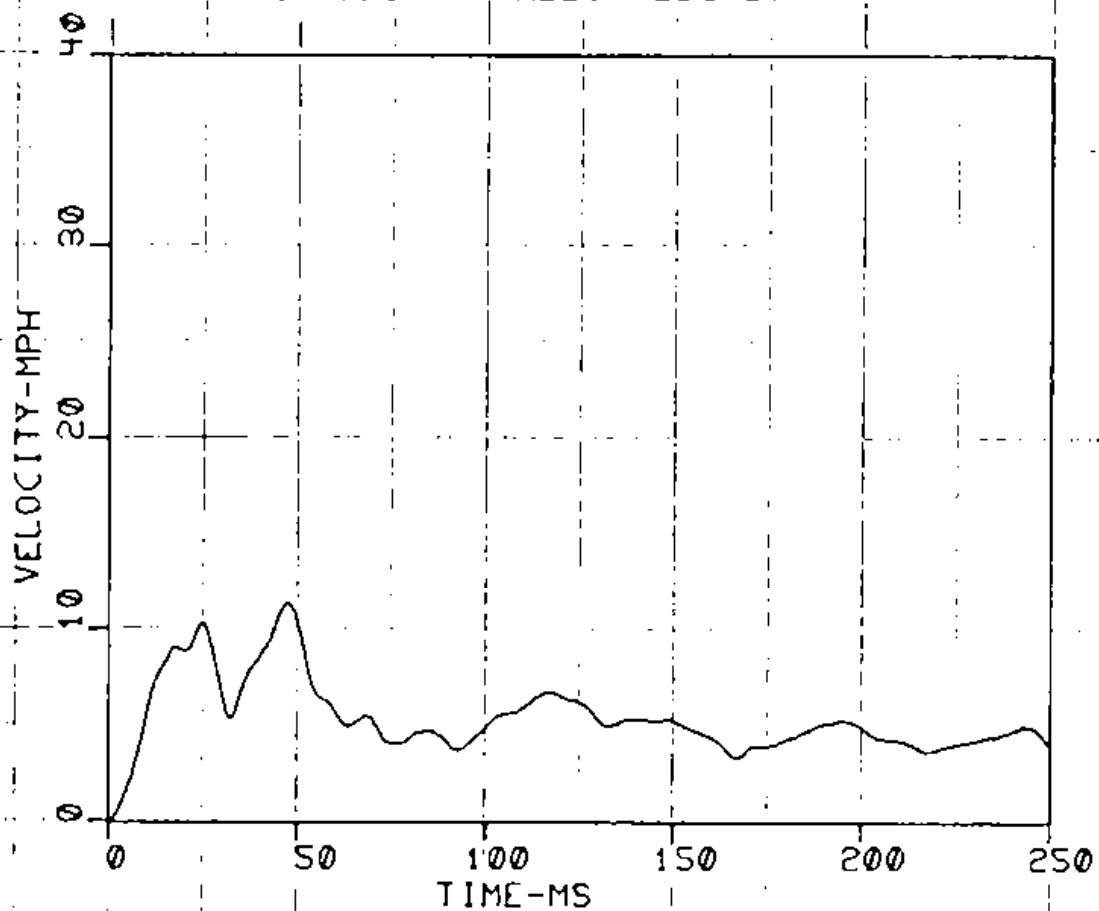
TEST#8327-6.1 VW RABBIT LOC SY



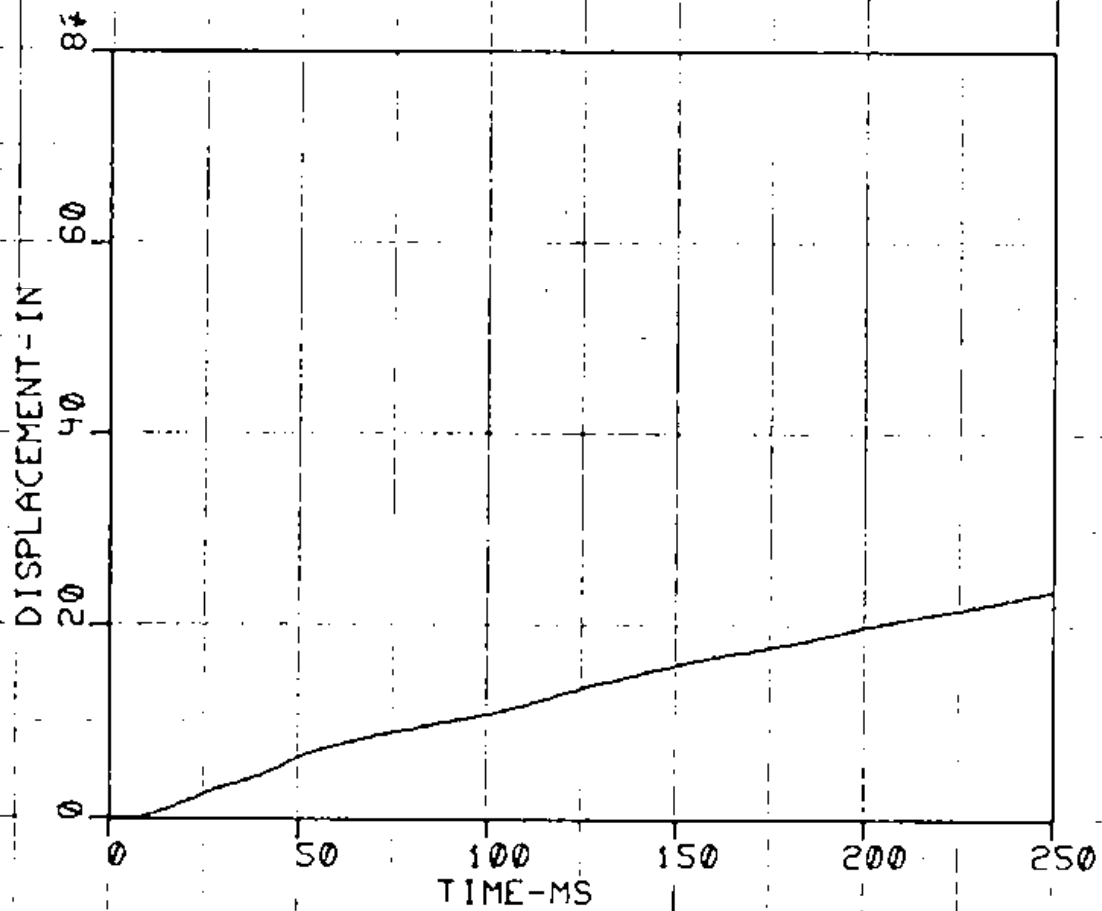
TEST#8327-6.1 VW RABBIT LOC 6Y



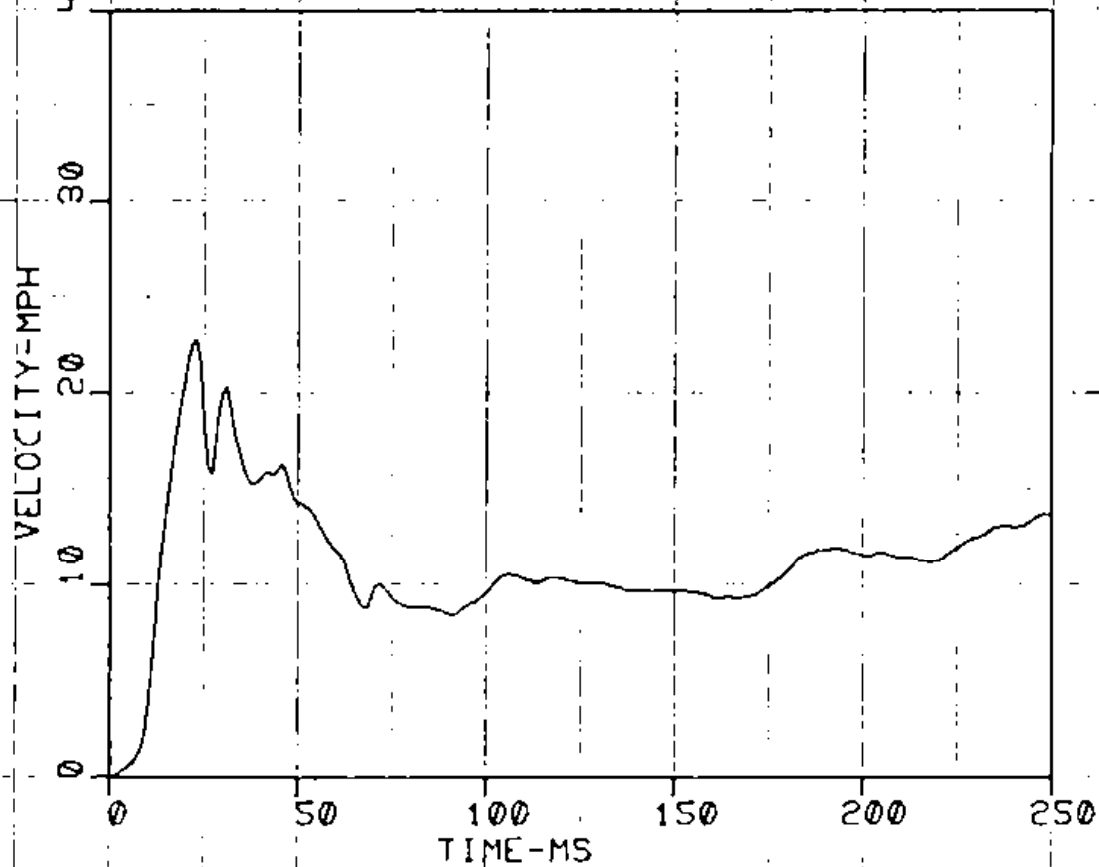
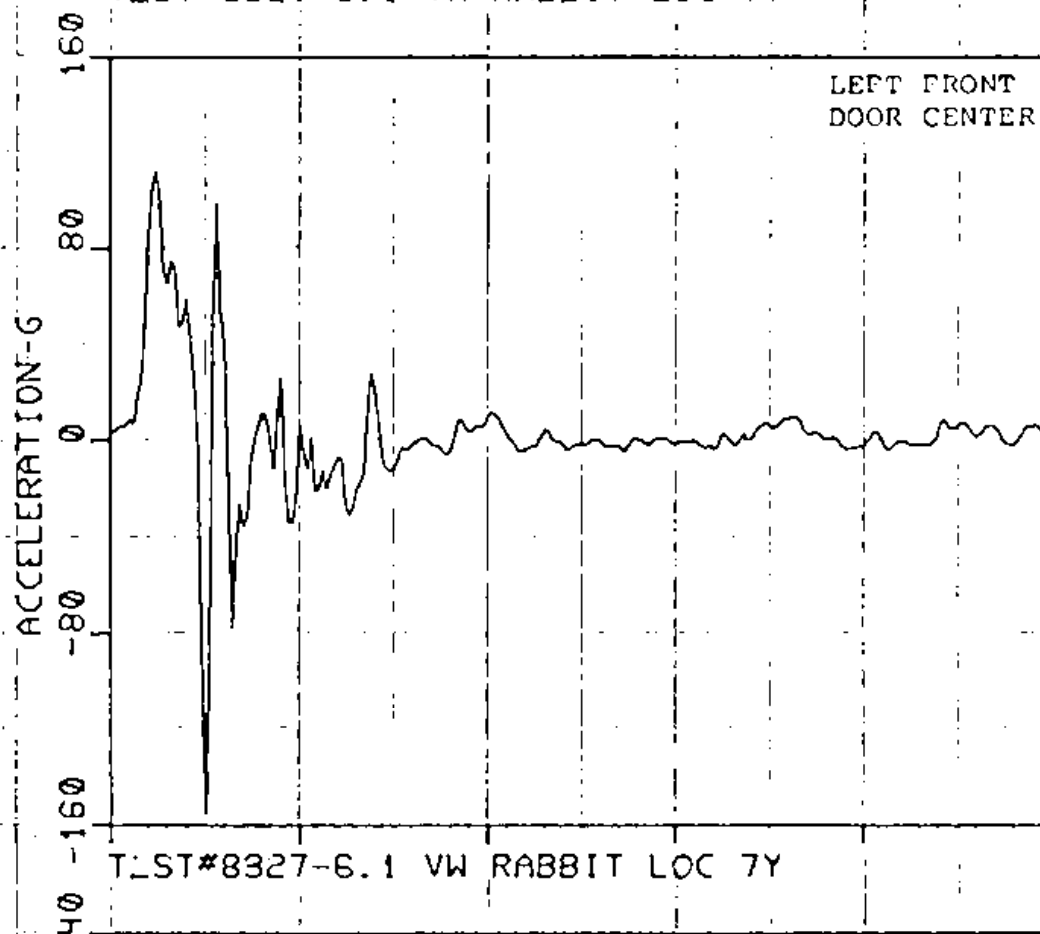
TEST#8327-6.1 VW RABBIT LOC 6Y



TEST#8327-6.1 VW RABBIT LOC 6Y



TEST#8327-6.1 VW RABBIT LOC 7Y



TEST#8327-6.1 VW RABBIT LOC 7Y

DISPLACEMENT-IN

80

60

40

20

0

0

50

100

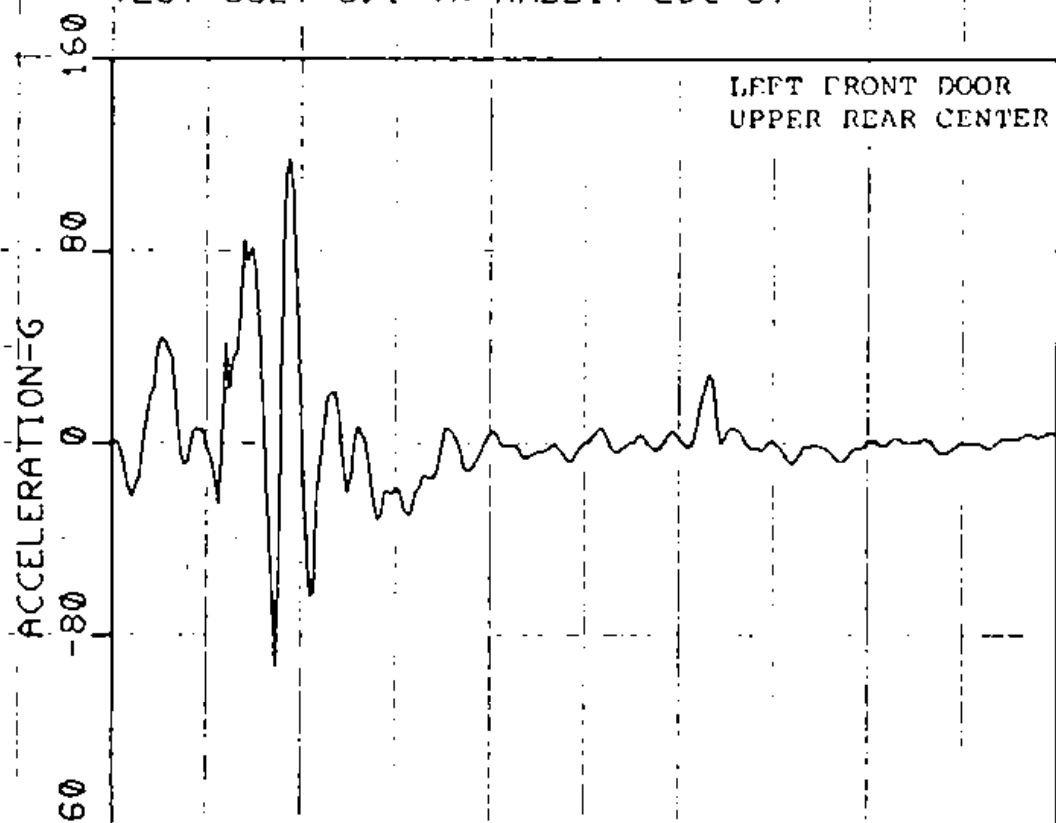
150

200

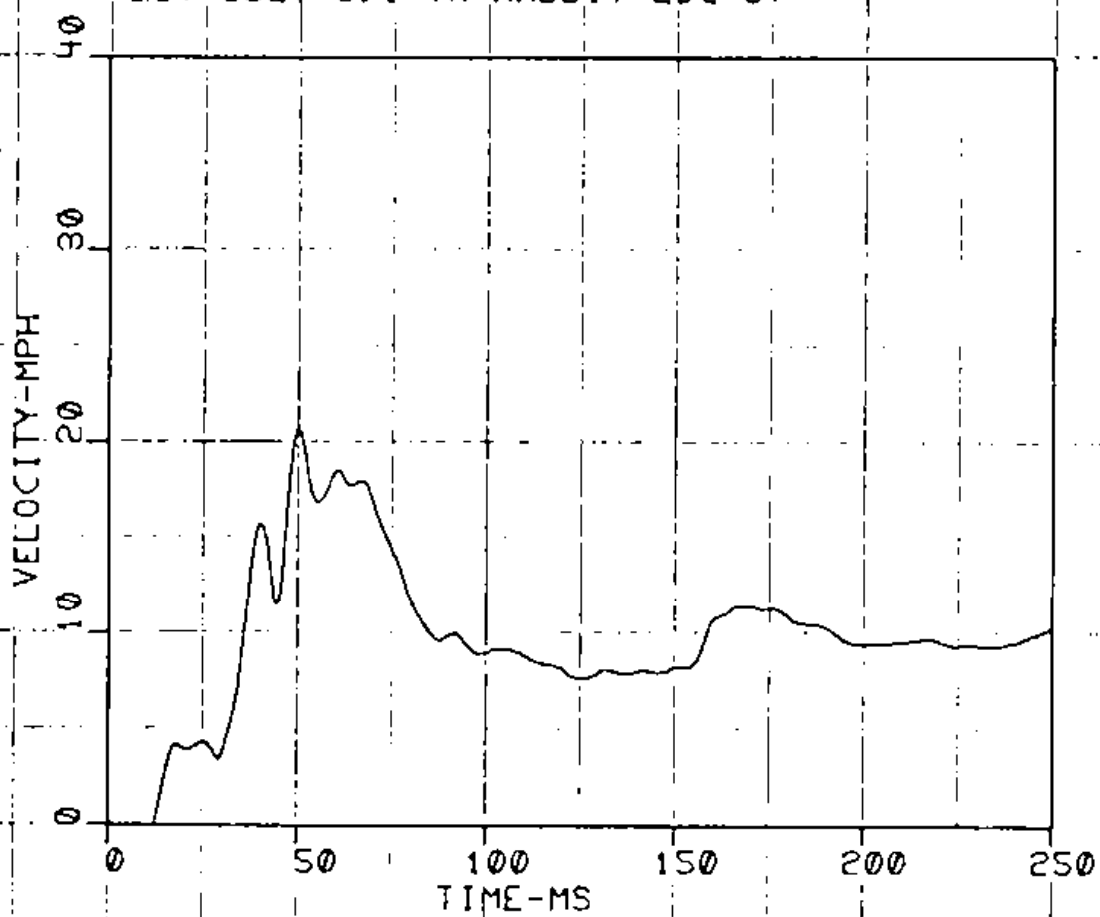
250

TIME-MS

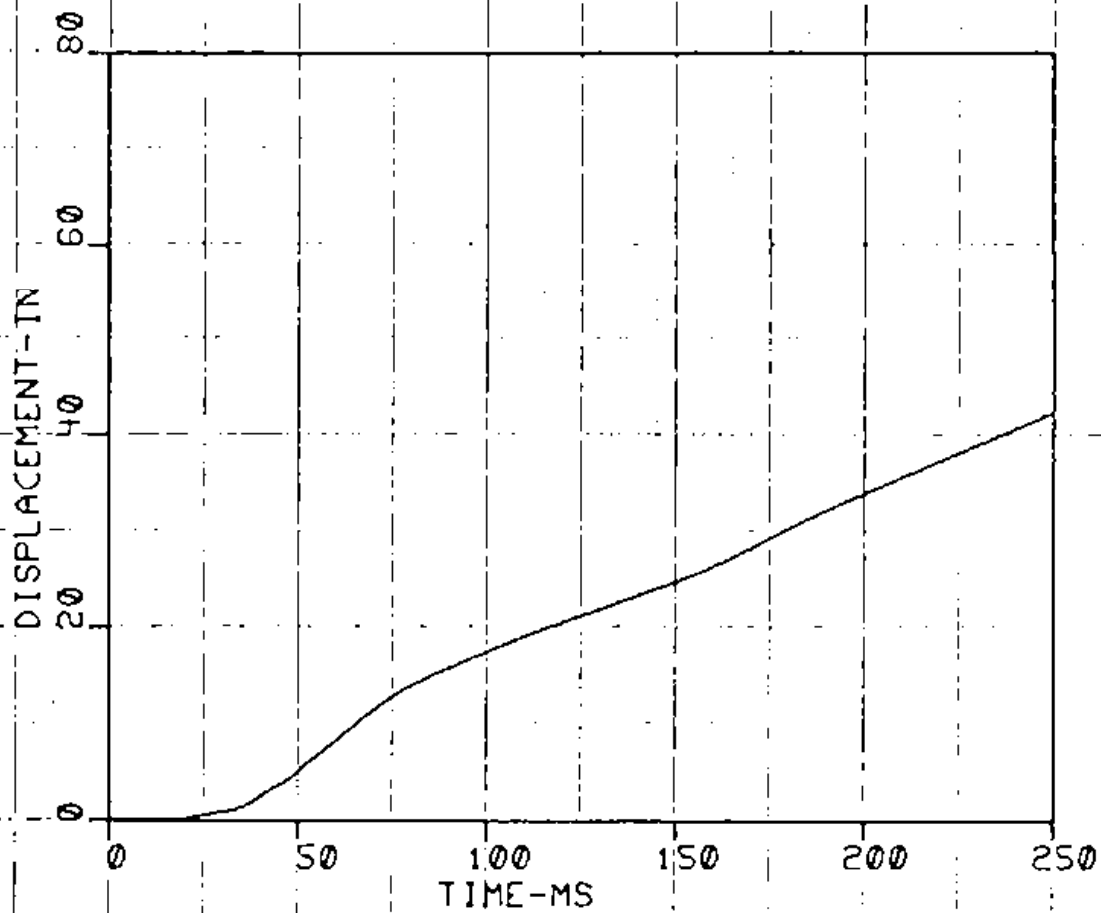
TEST#8327-6.1 VW RABBIT LOC 8Y



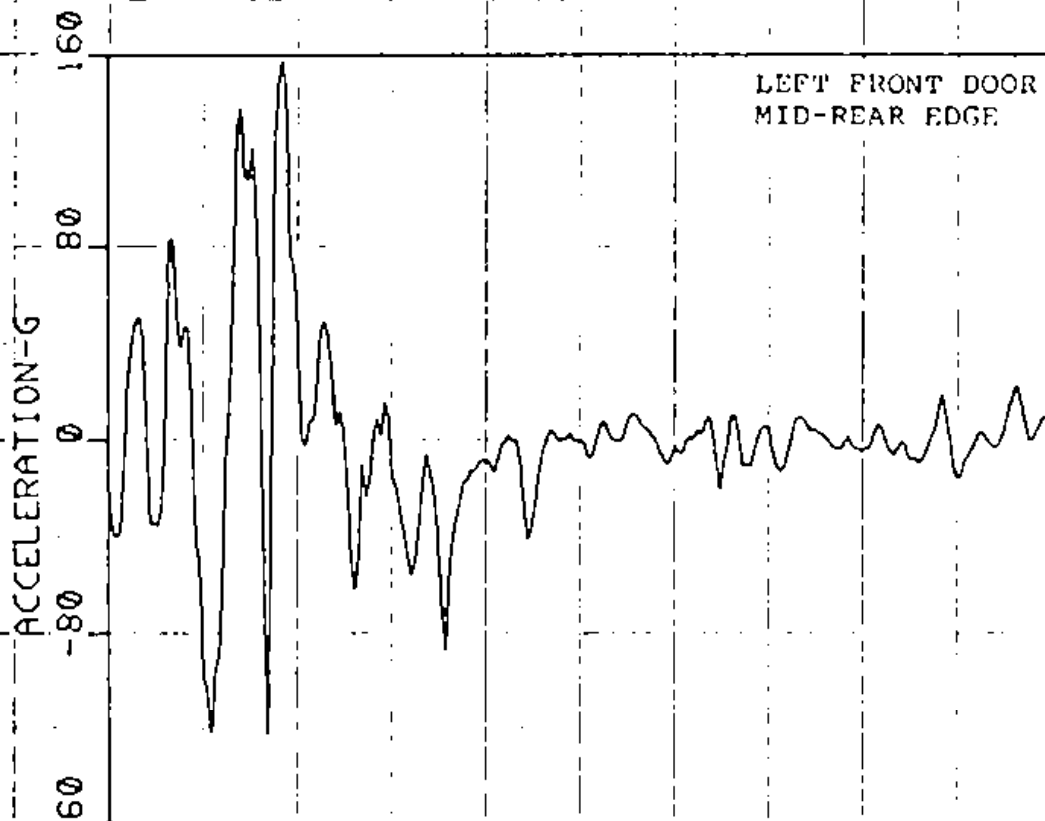
TEST#8327-6.1 VW RABBIT LOC 8Y



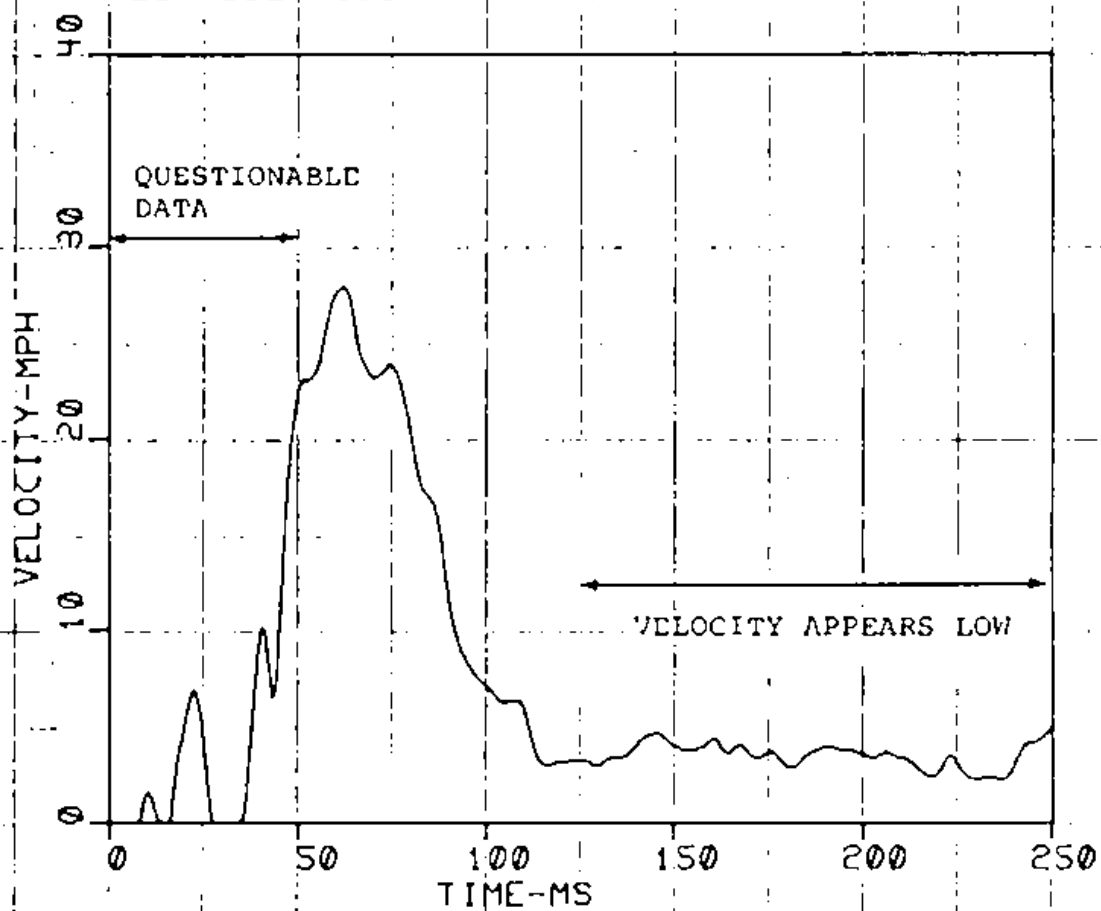
TEST#8327-6.1 VW RABBIT LOC 8Y

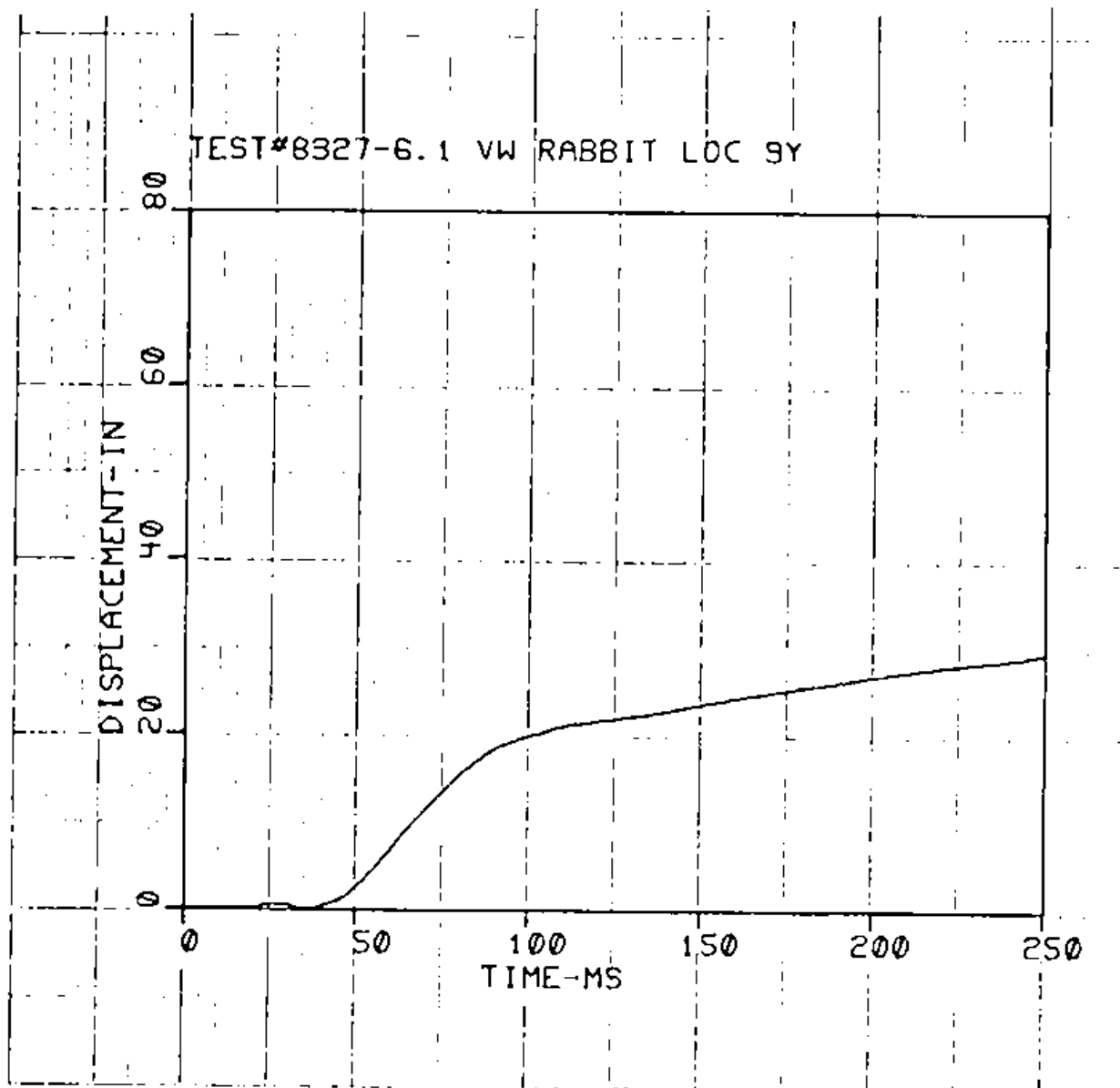


TEST#8327-6.1 VW RABBIT LOC 9Y

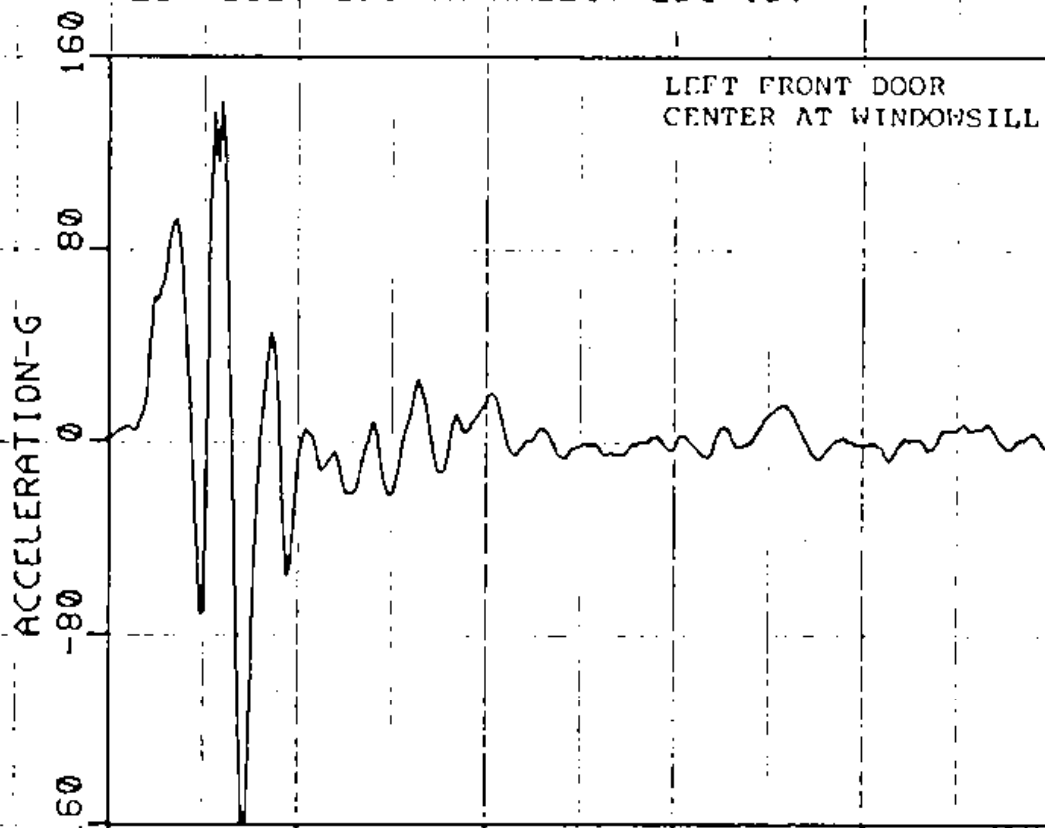


TEST#8327-6.1 VW RABBIT LOC 9Y

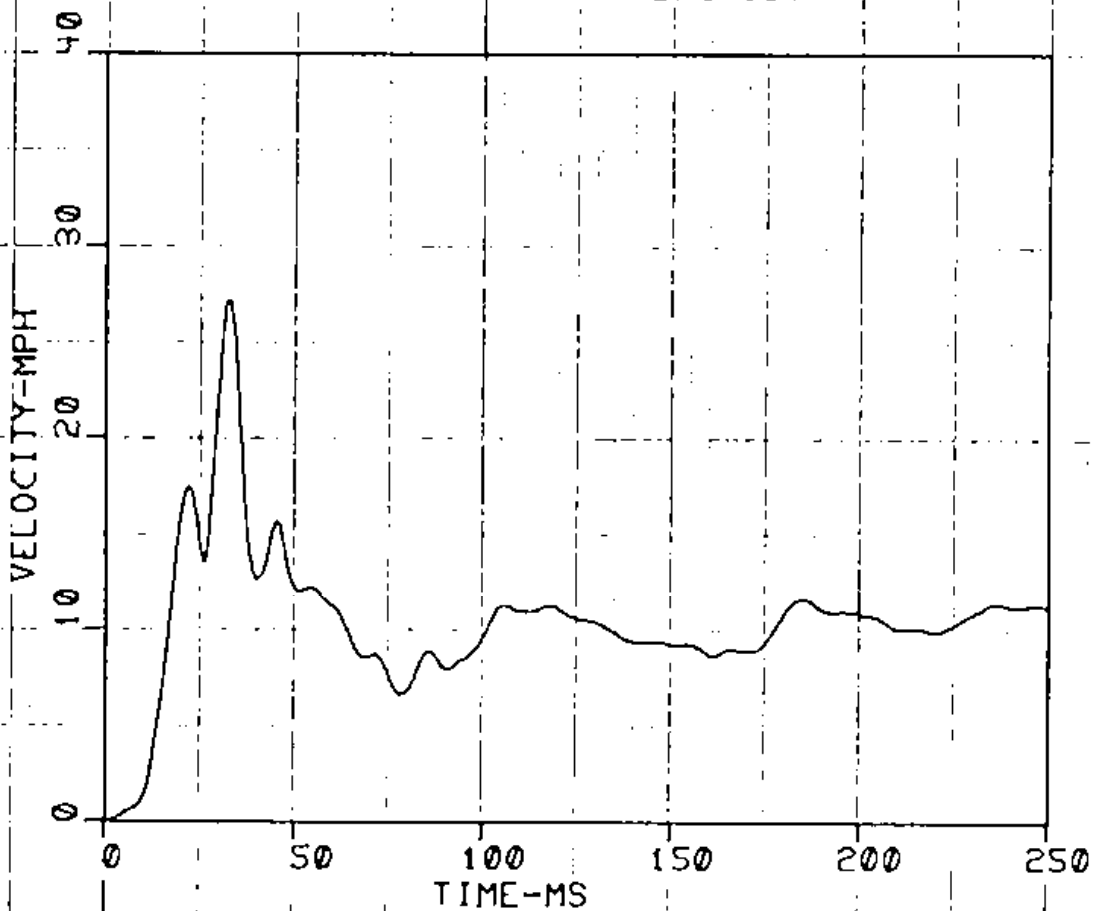




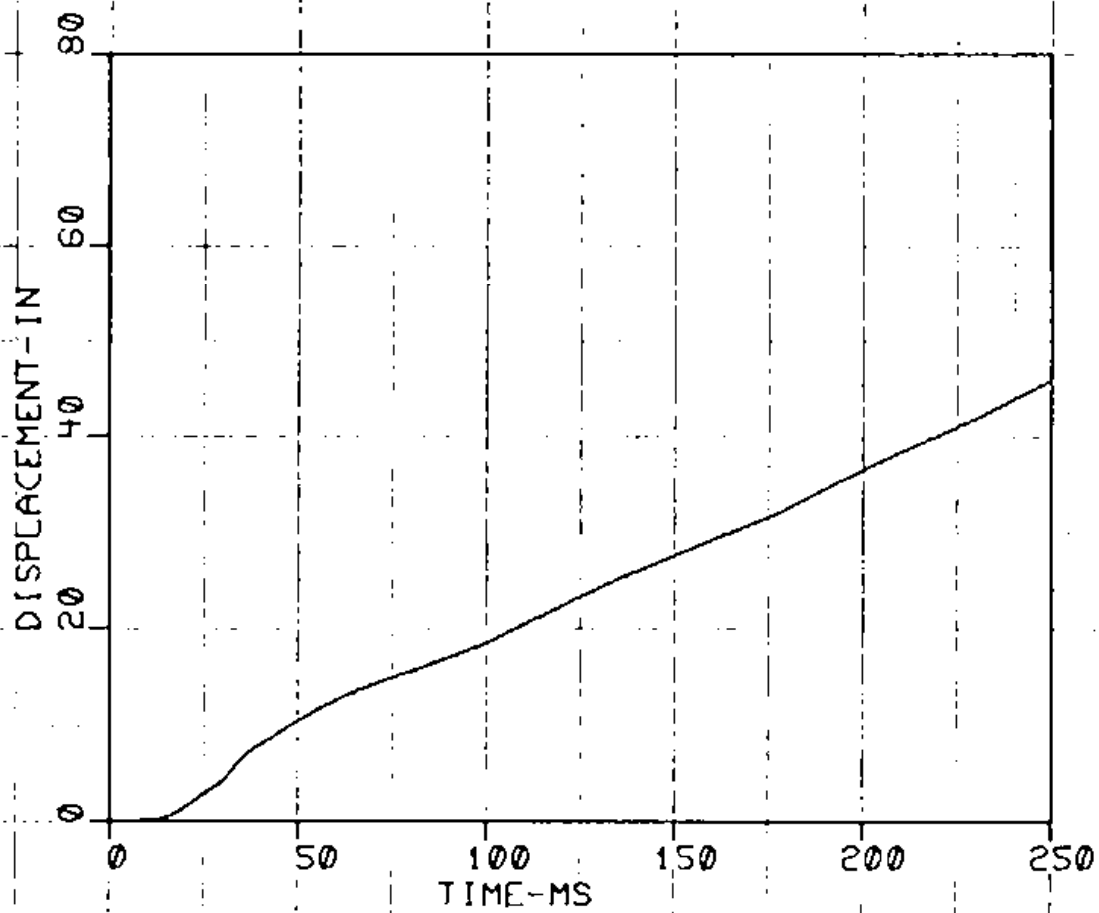
TEST#8327-6.1 VW RABBIT LOC 10Y



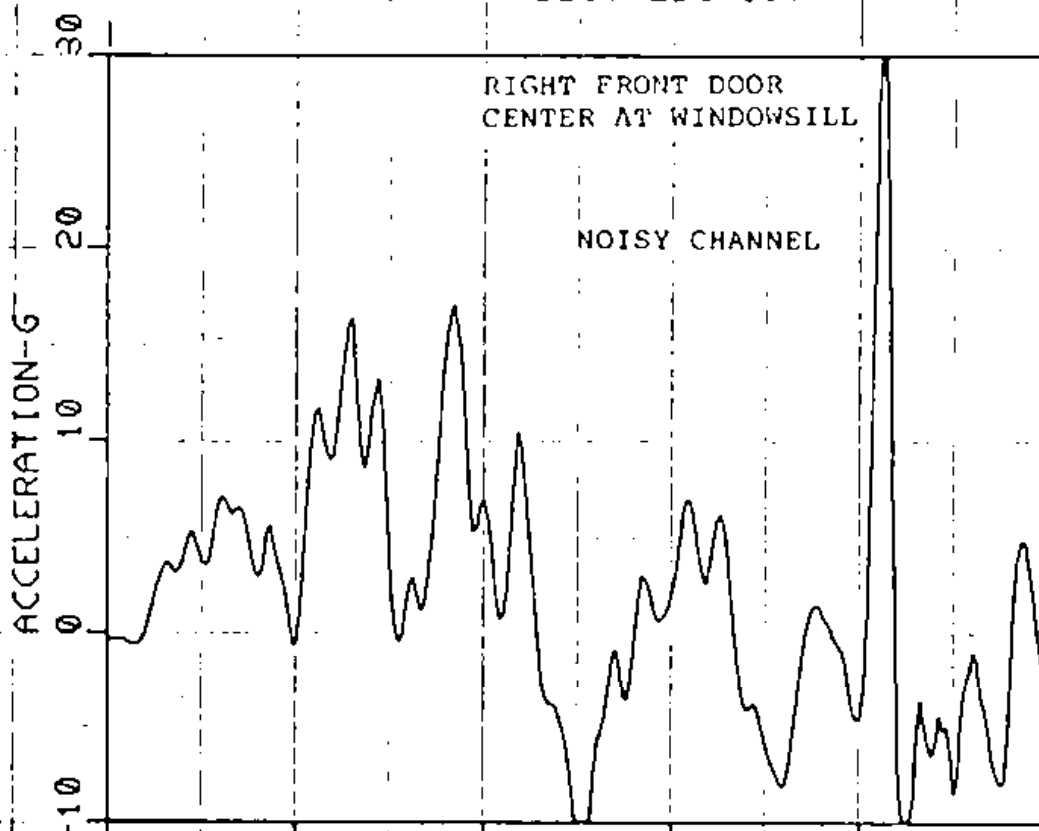
TEST#8327-6.1 VW RABBIT LOC 10Y



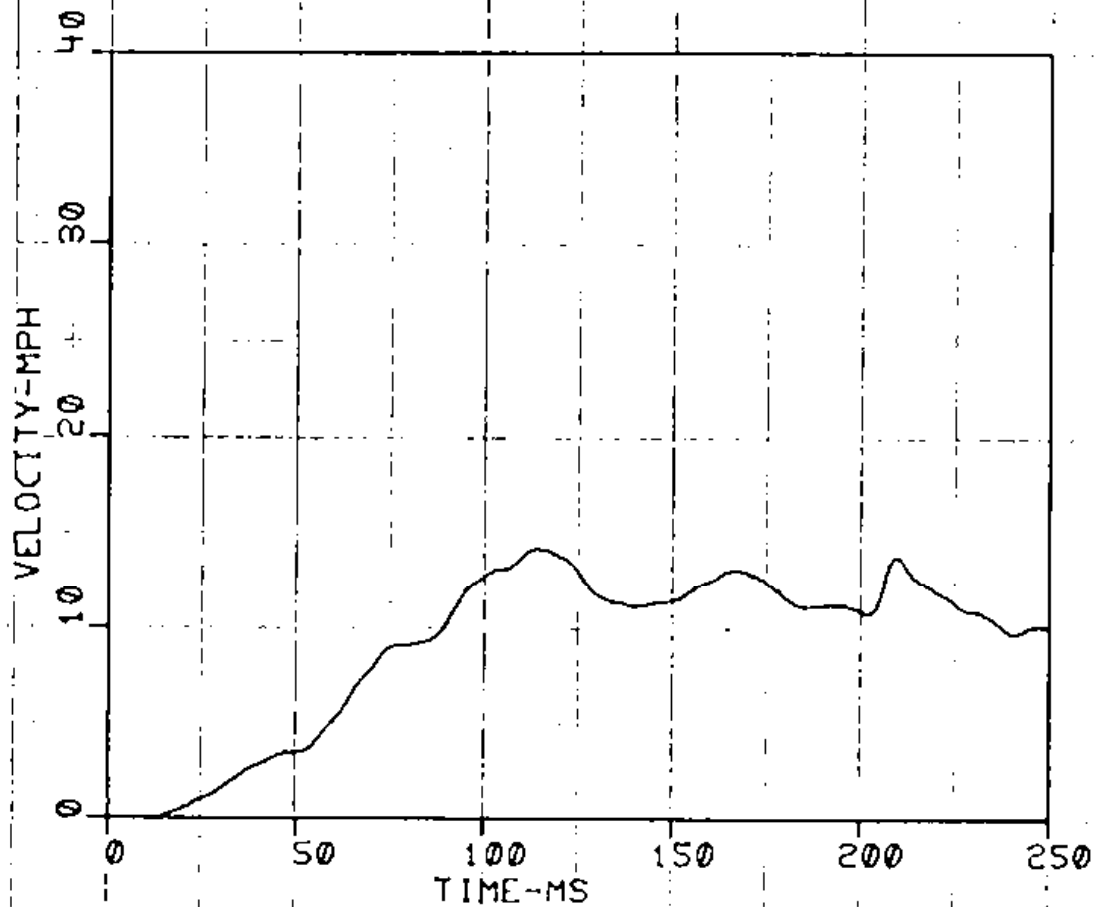
TEST#8327-6.1 VW RABBIT LOC 10Y



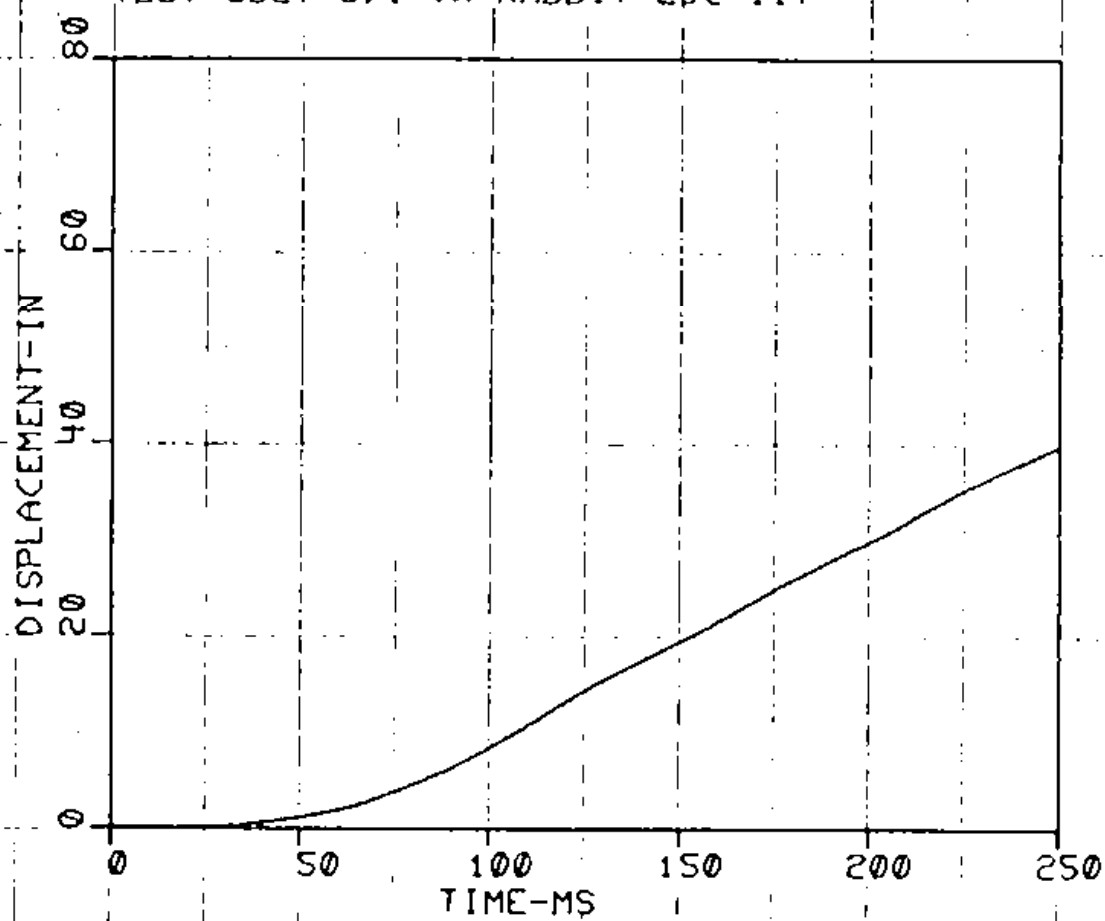
TEST#8327-6.1 VW RABBIT LOC 11Y



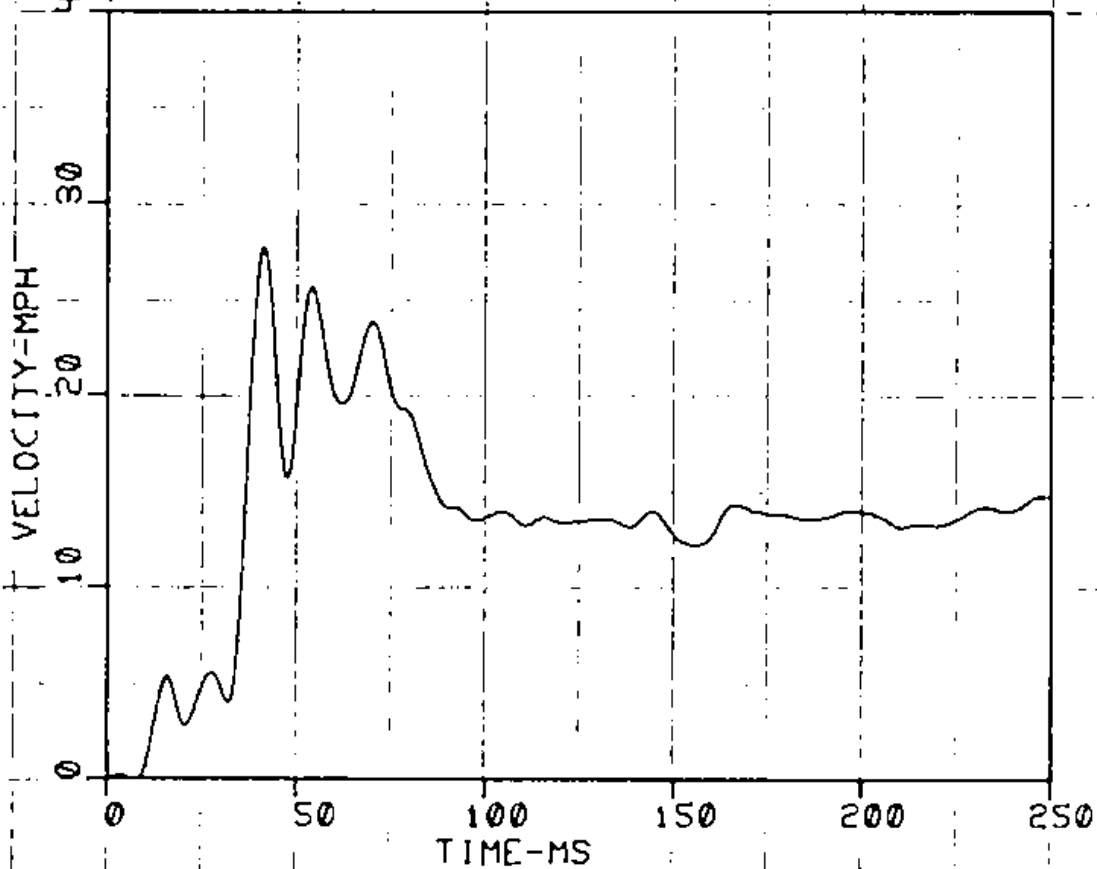
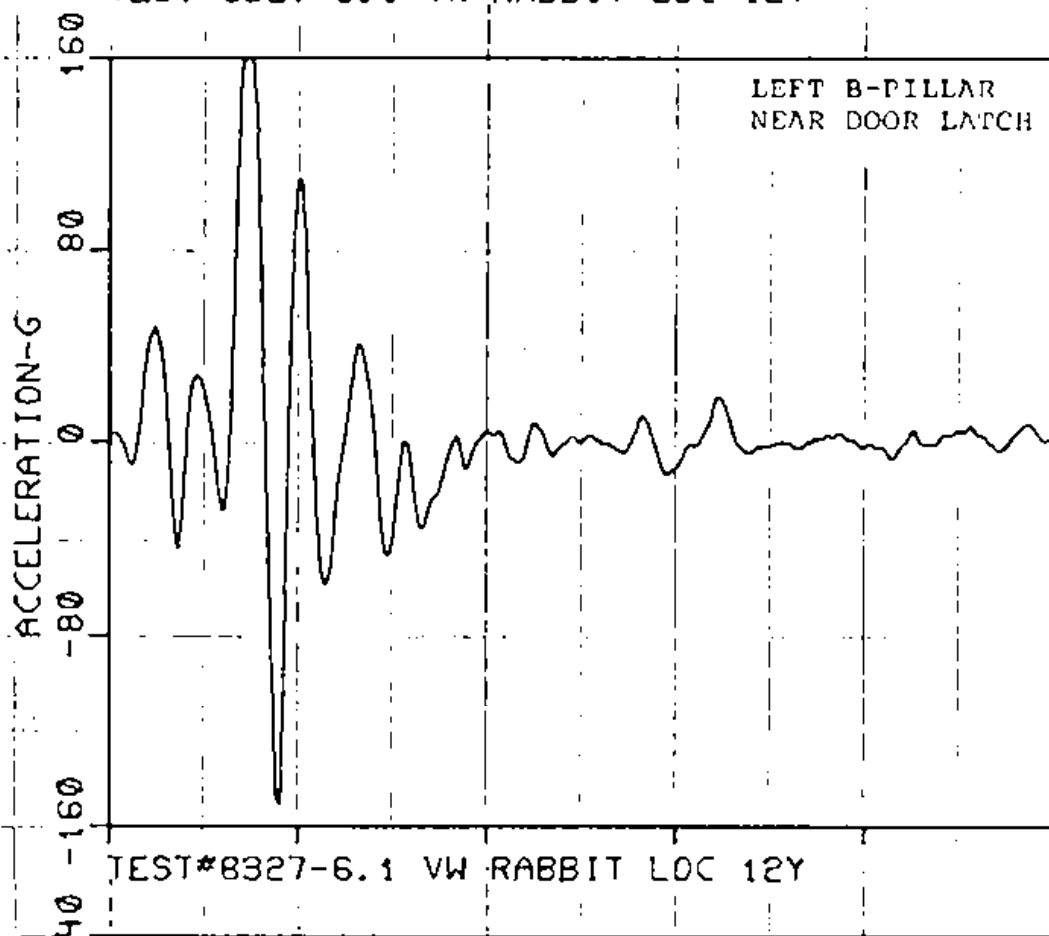
TEST#8327-6.1 VW RABBIT LOC 11Y



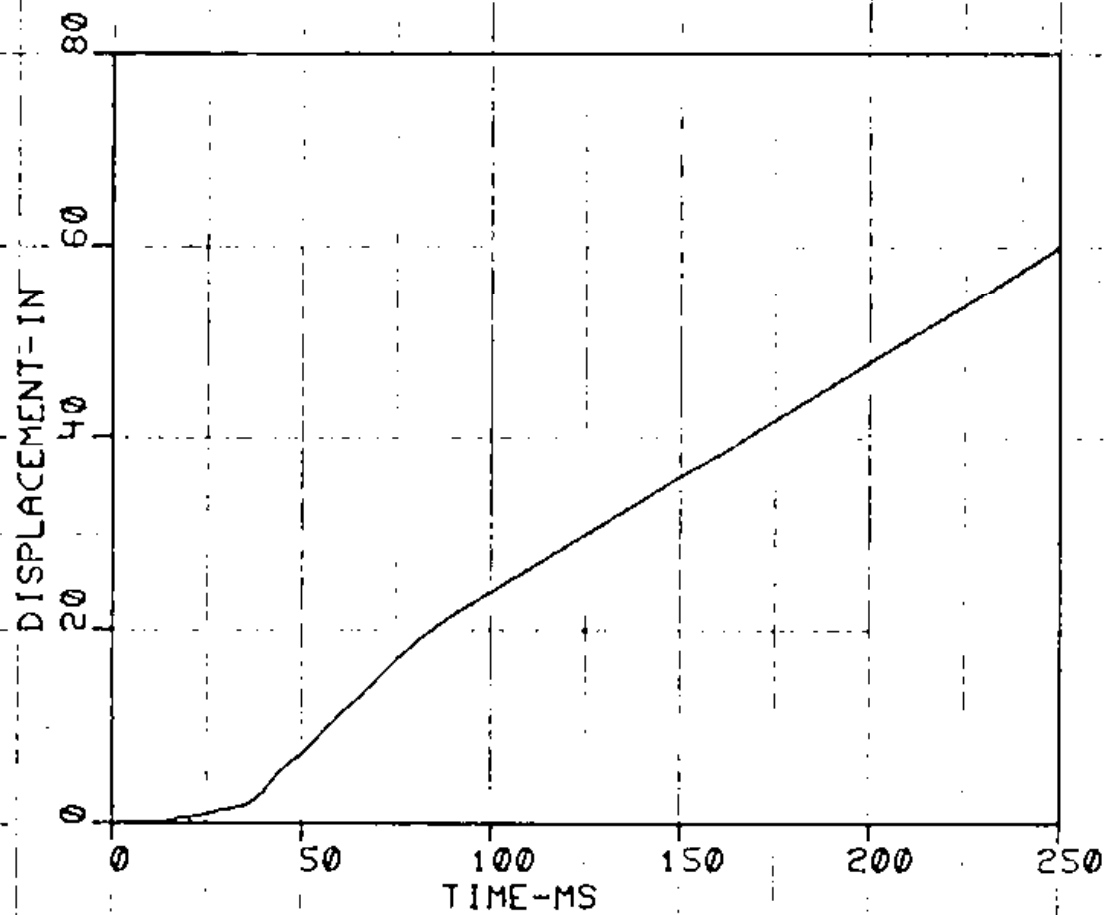
TEST#8327-6.1 VW RABBIT LOC 11Y



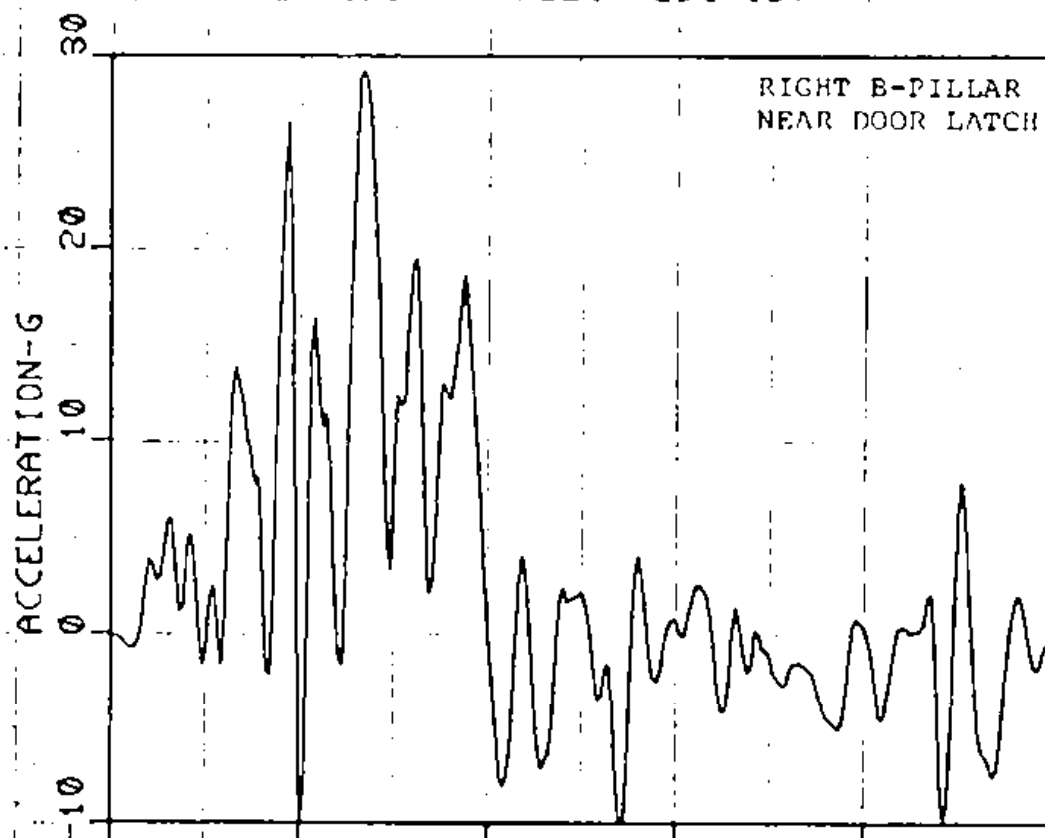
TEST#8327-6.1 VW RABBIT LOC 12Y



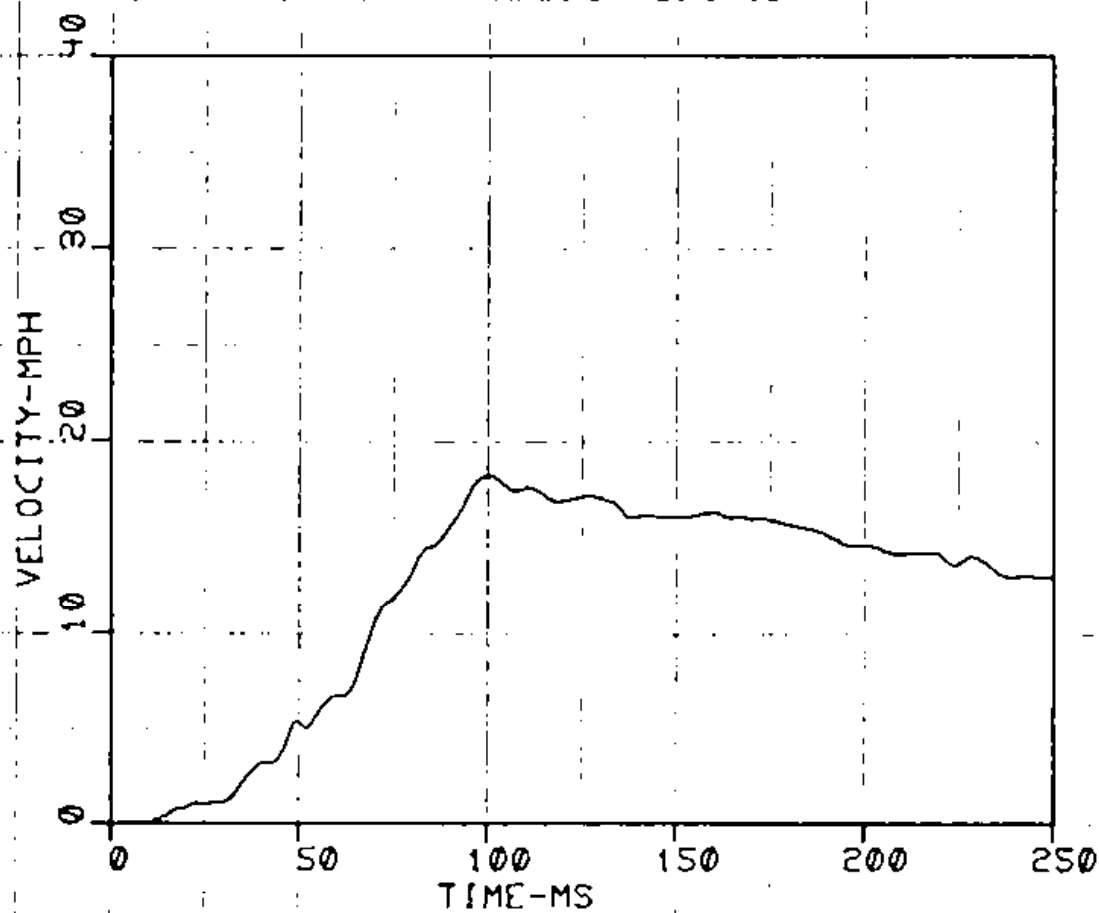
TEST#8327-6.1 VW RABBIT LOC 12Y



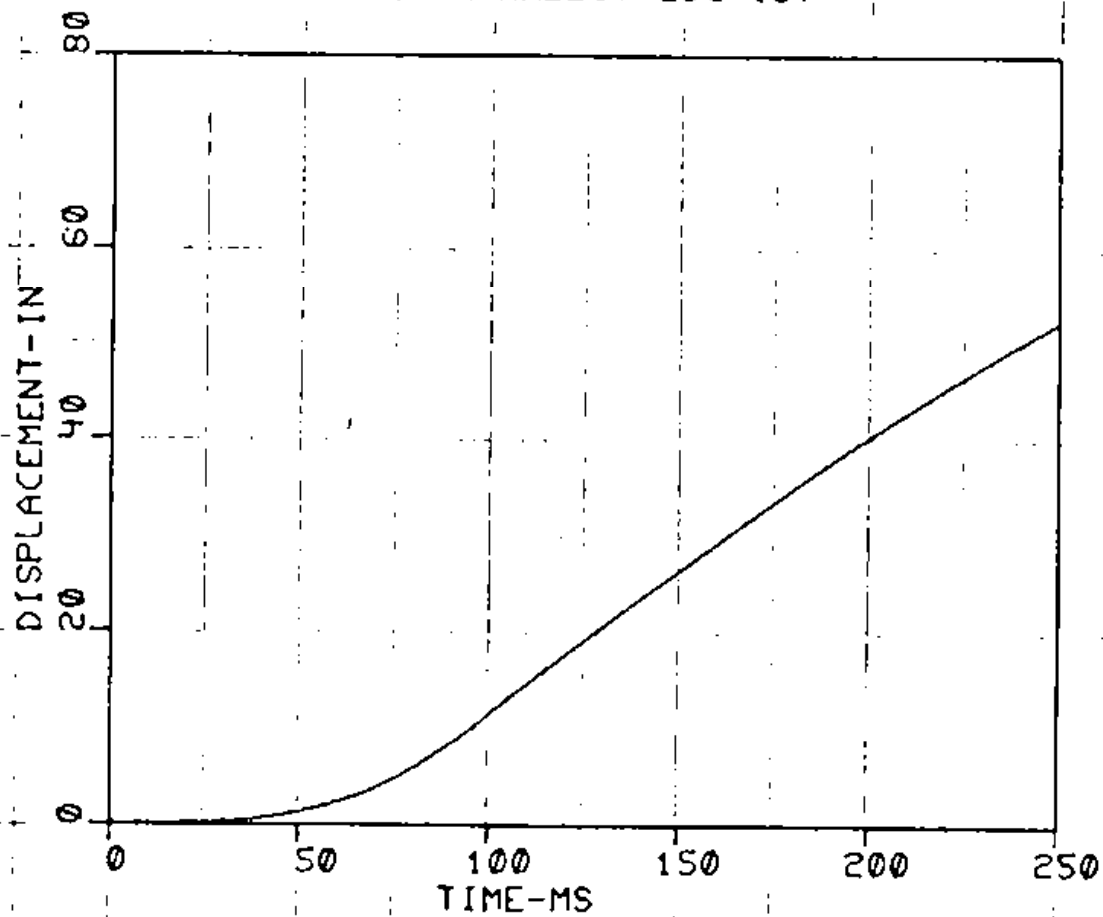
TEST#8327-6.1 VW RABBIT LOC 13Y



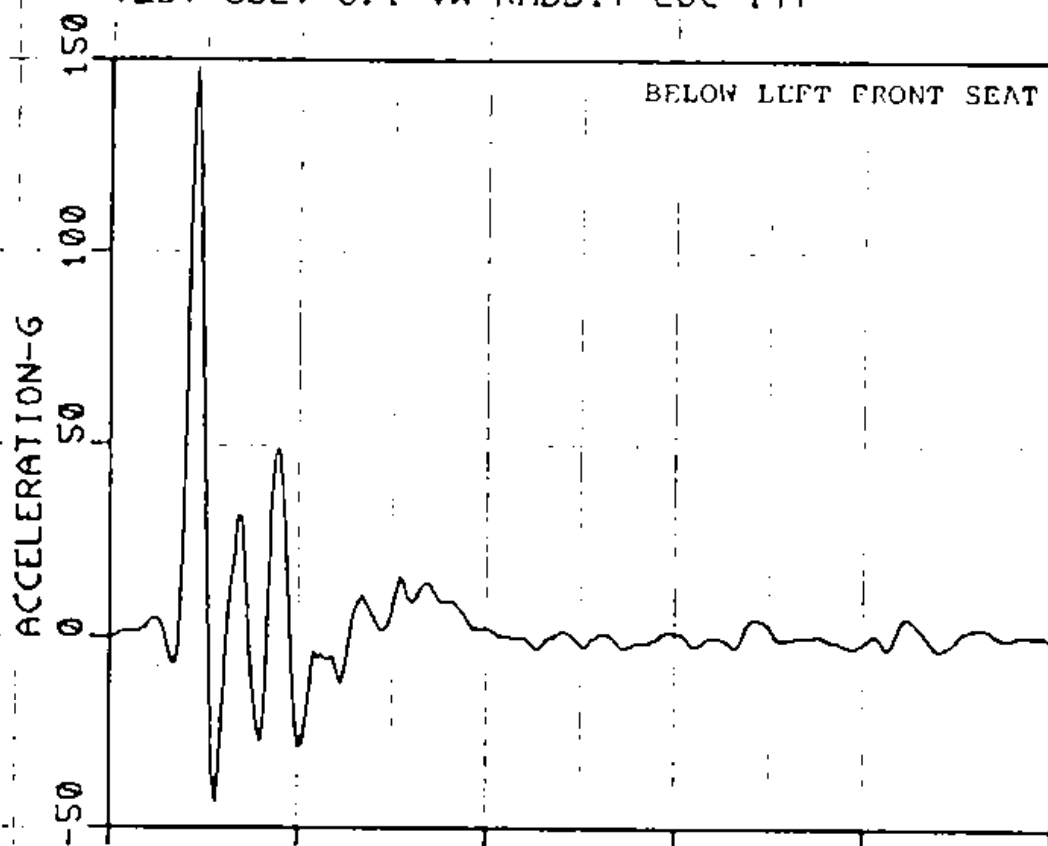
TEST#8327-6.1 VW RABBIT LOC 13Y



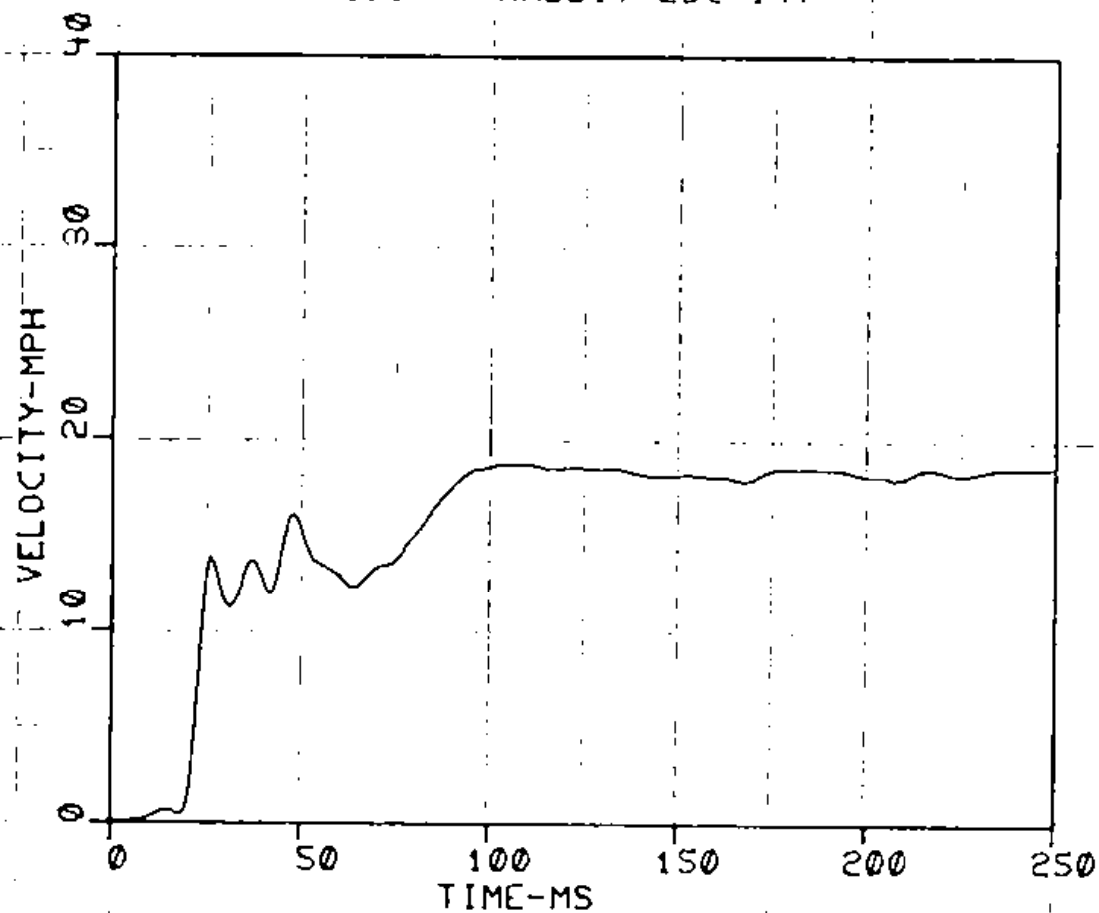
TEST#8327-6.1 VW RABBIT LOC 13Y



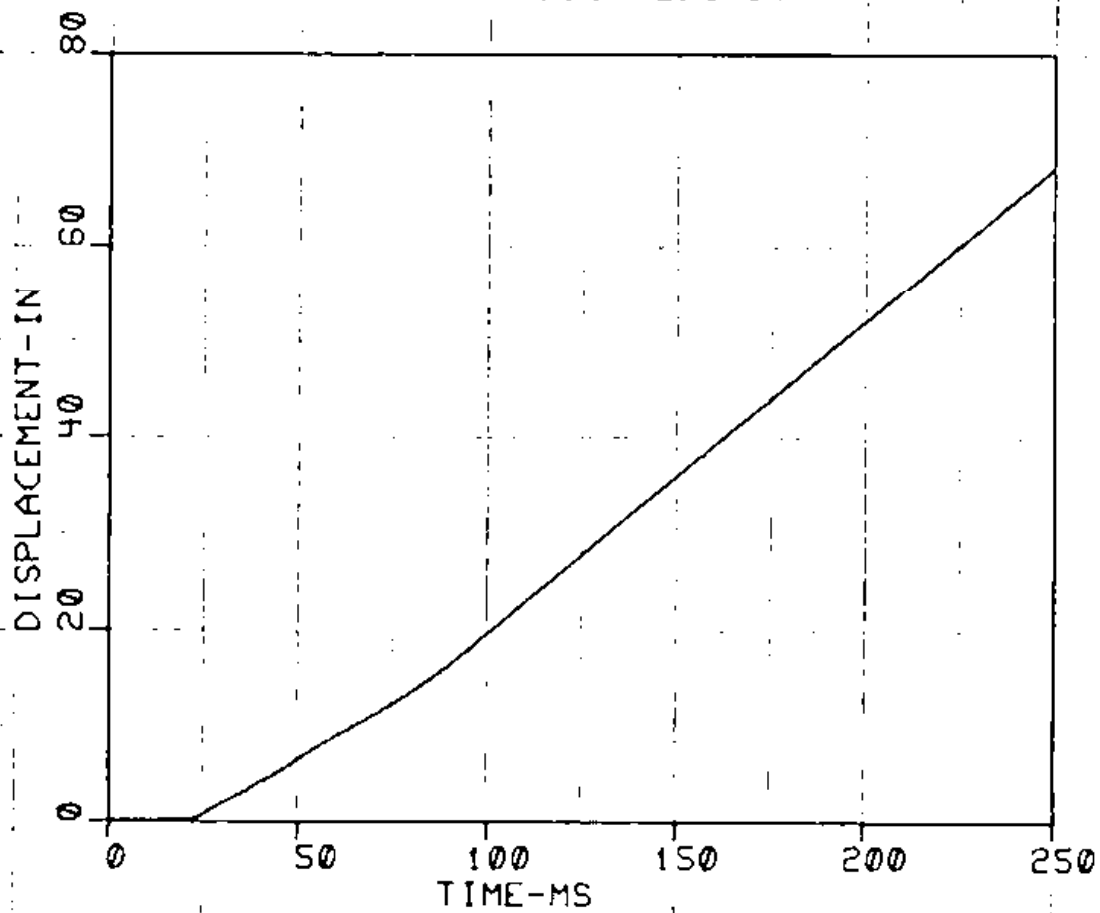
TEST#8327-6.1 VW RABBIT LOC 14Y



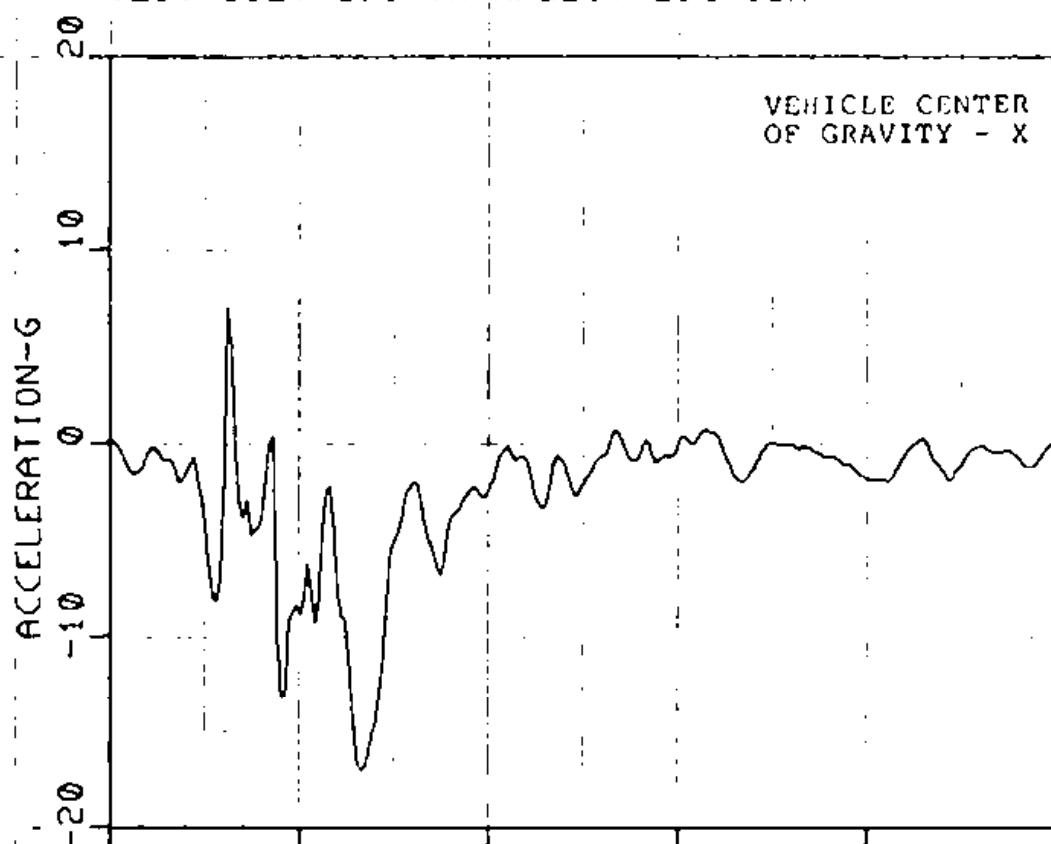
TEST#8327-6.1 VW RABBIT LOC 14Y



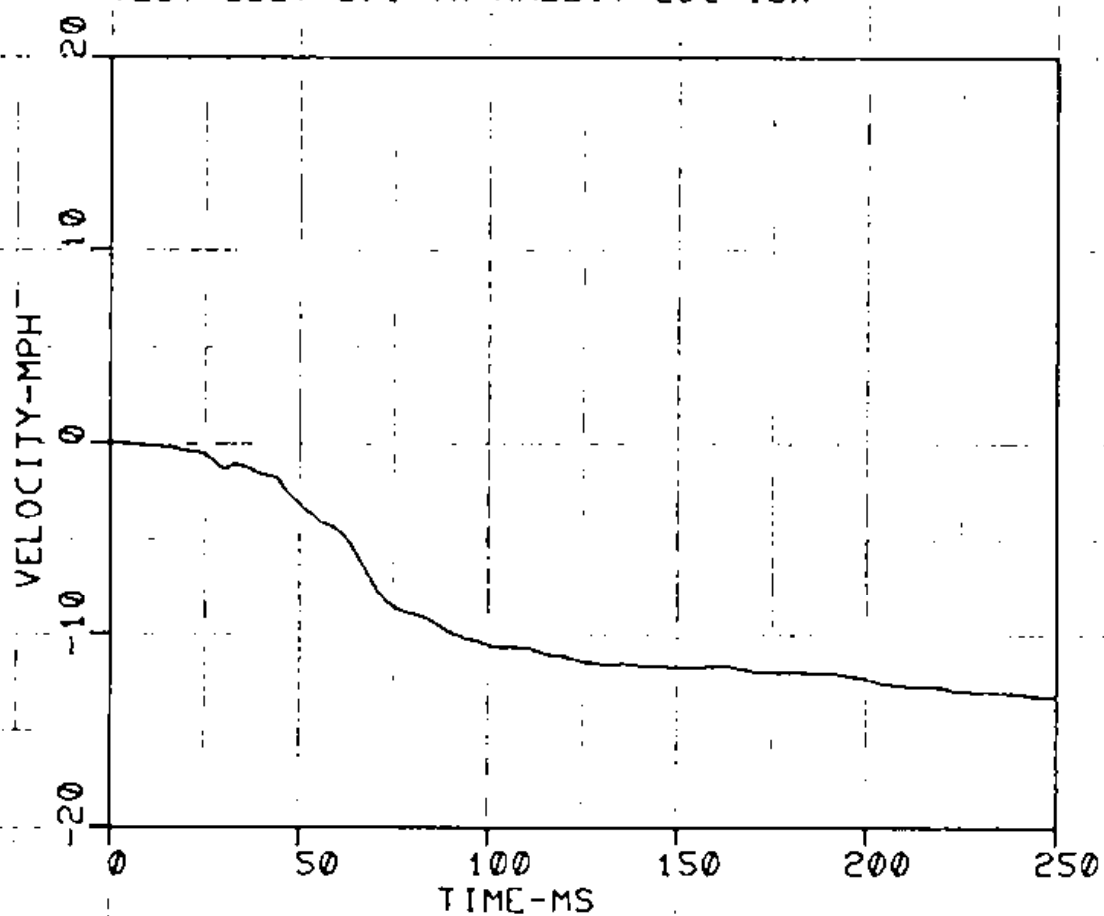
TEST#8327-6.1 VW RABBIT LOC 14Y



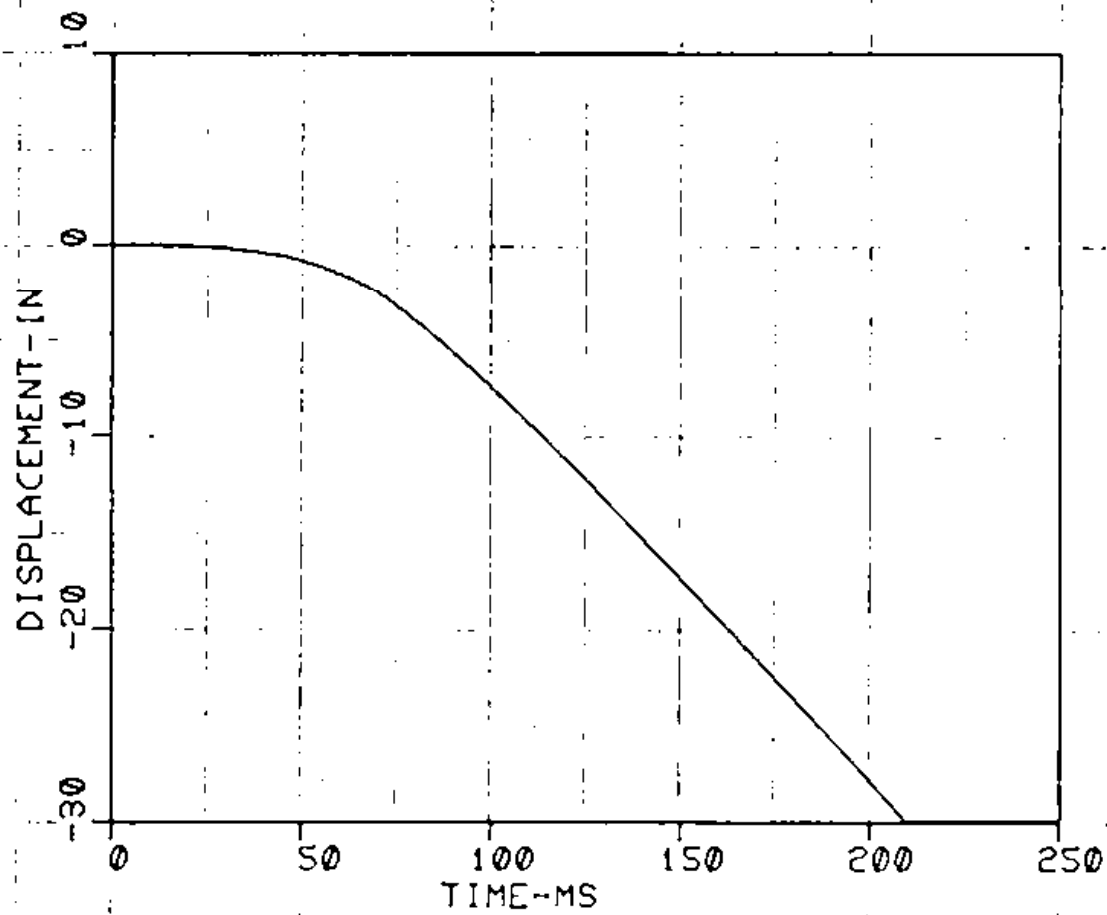
TEST#8327-6.1 VW RABBIT LOC 15X



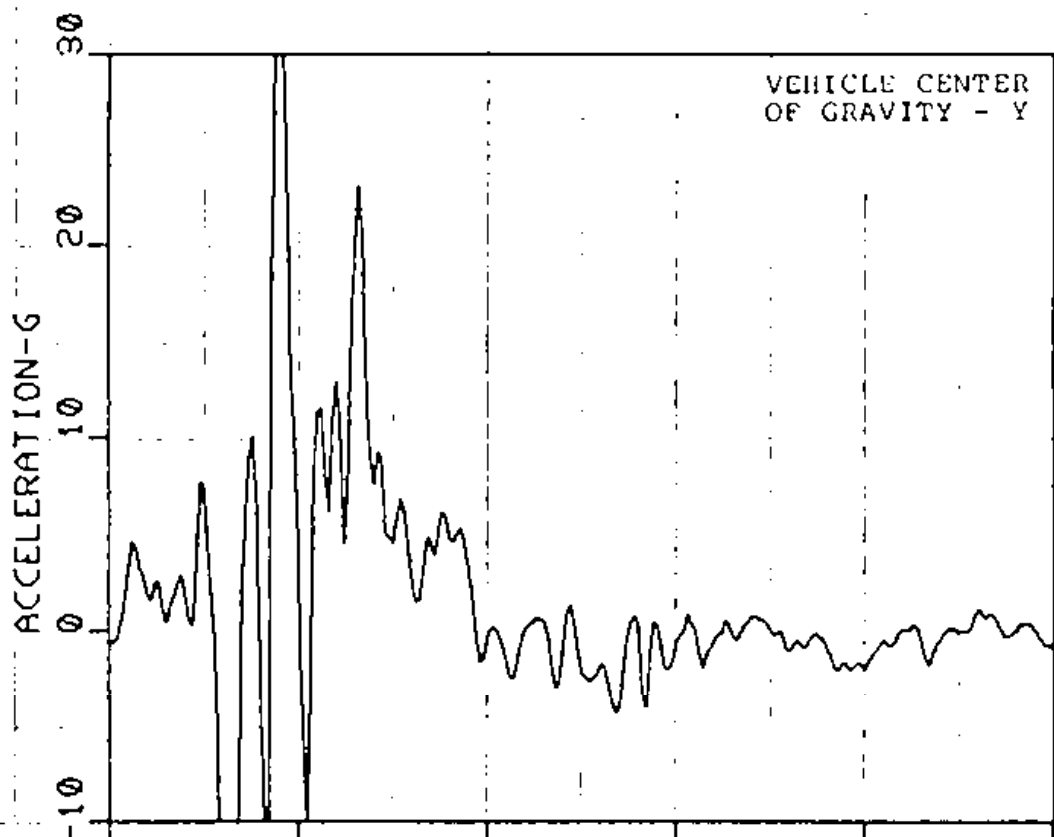
TEST#8327-6.1 VW RABBIT LOC 15X



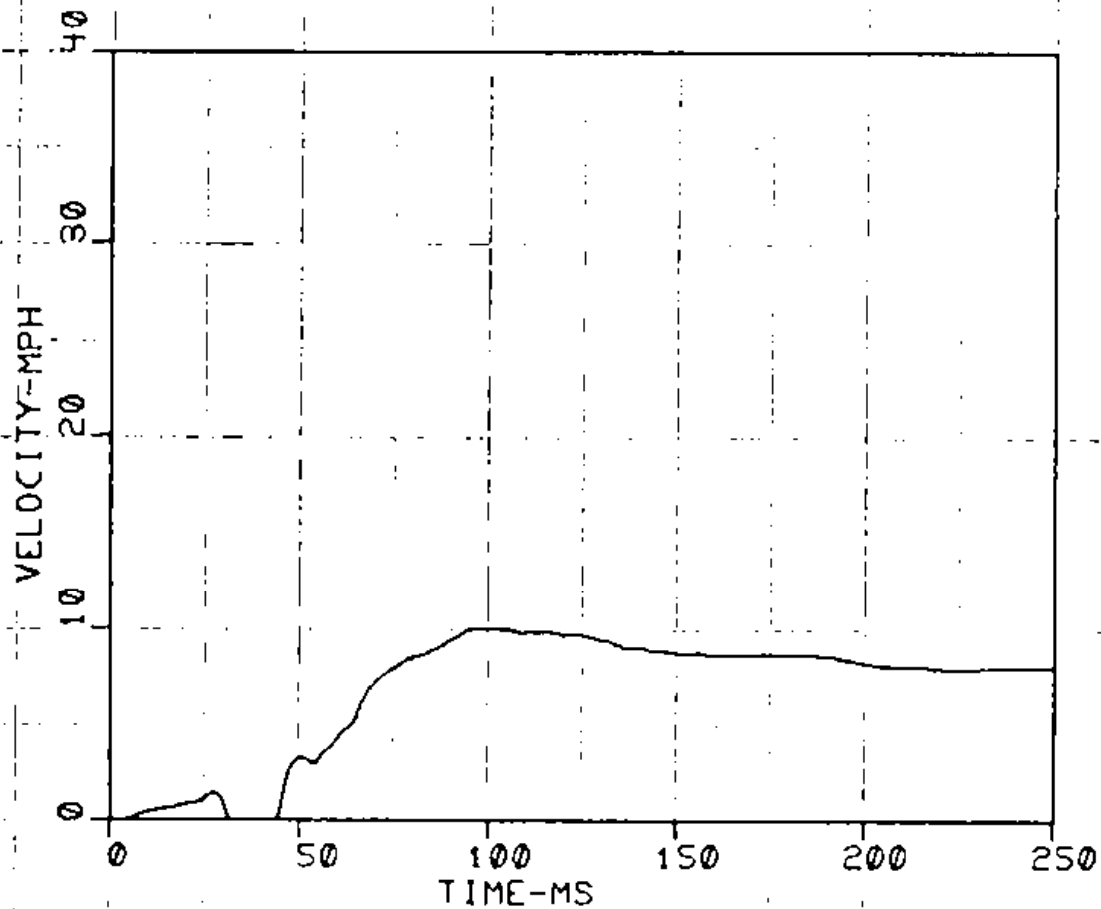
TEST#8327-6.1 VW RABBIT LOC 15X



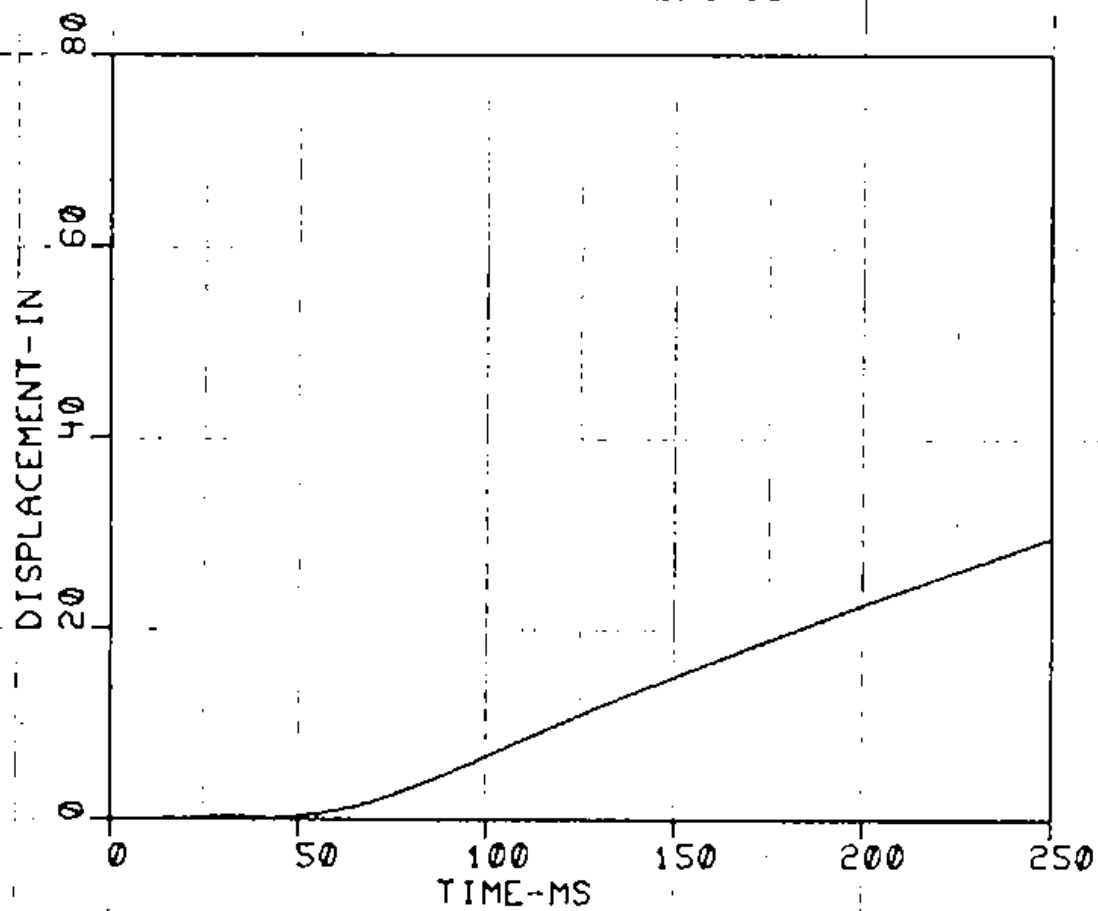
TEST#8327-6.1 VW RABBIT LOC 15Y



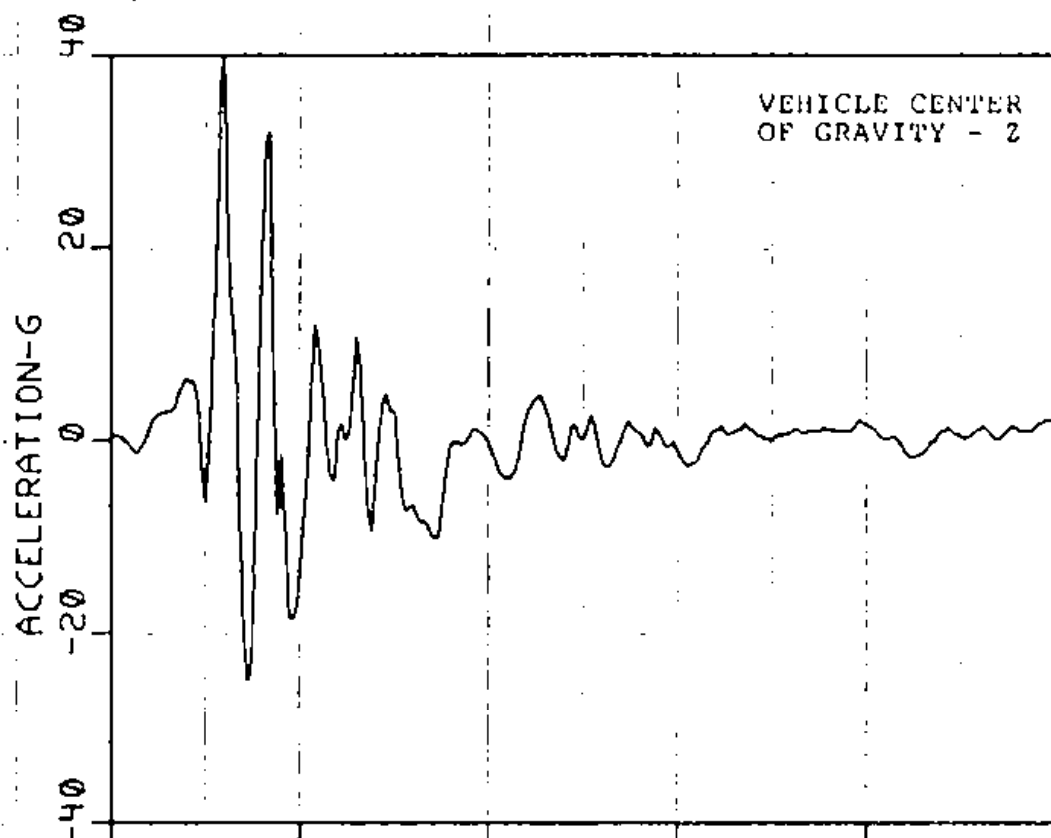
TEST#8327-6.1 VW RABBIT LOC 15Y



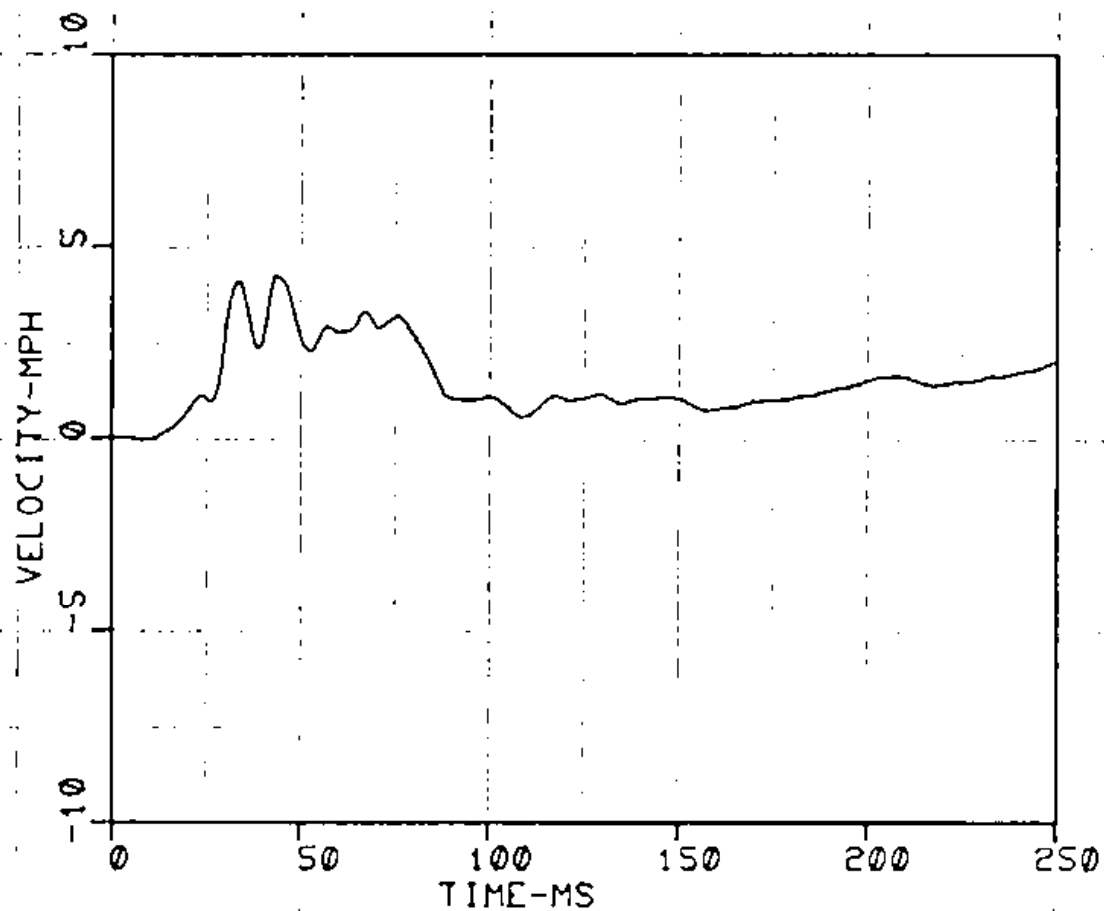
TEST#8327-6.1 VW RABBIT LOC 15Y



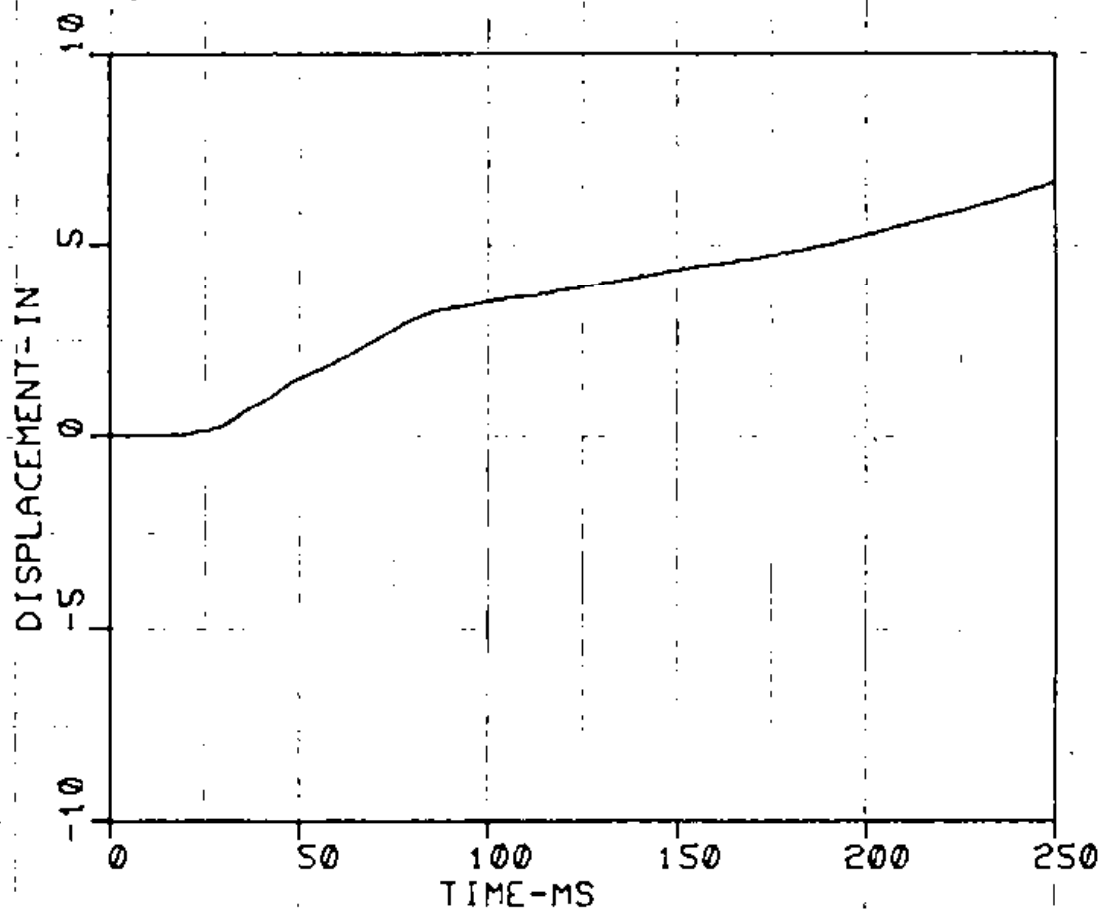
TEST#8327-6.1 VW RABBIT LOC 15Z



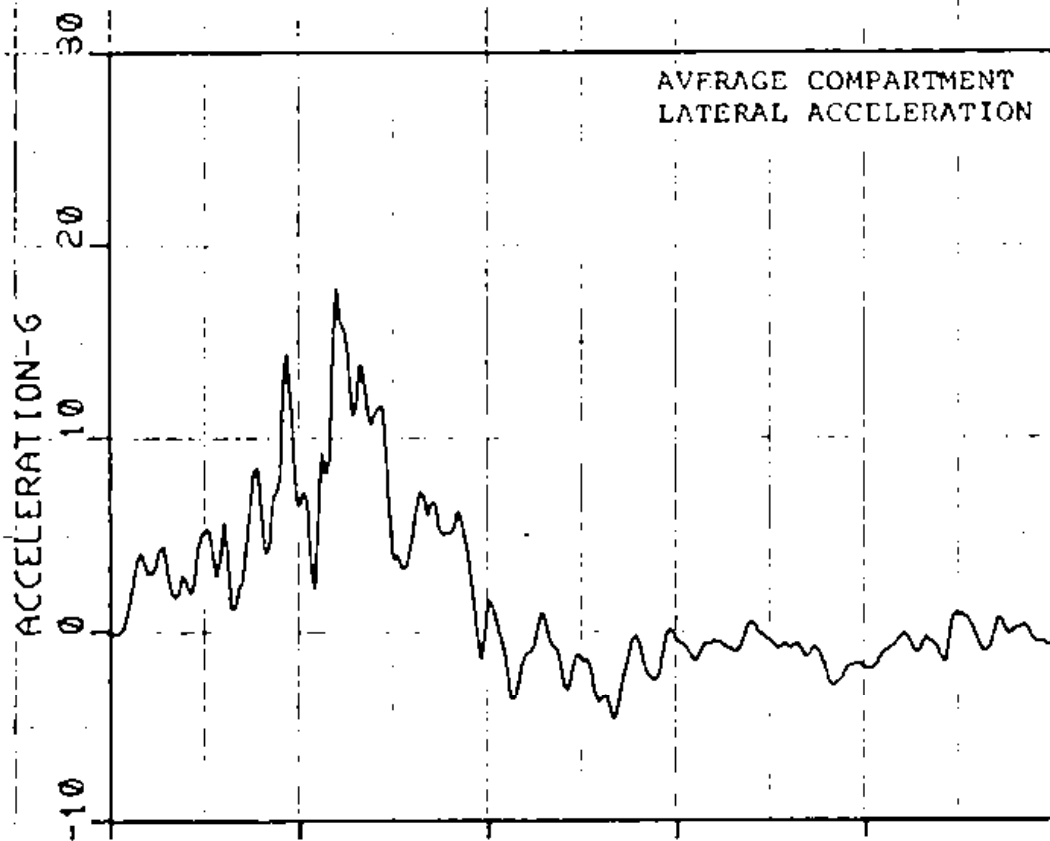
TEST#8327-6.1 VW RABBIT LOC 15Z



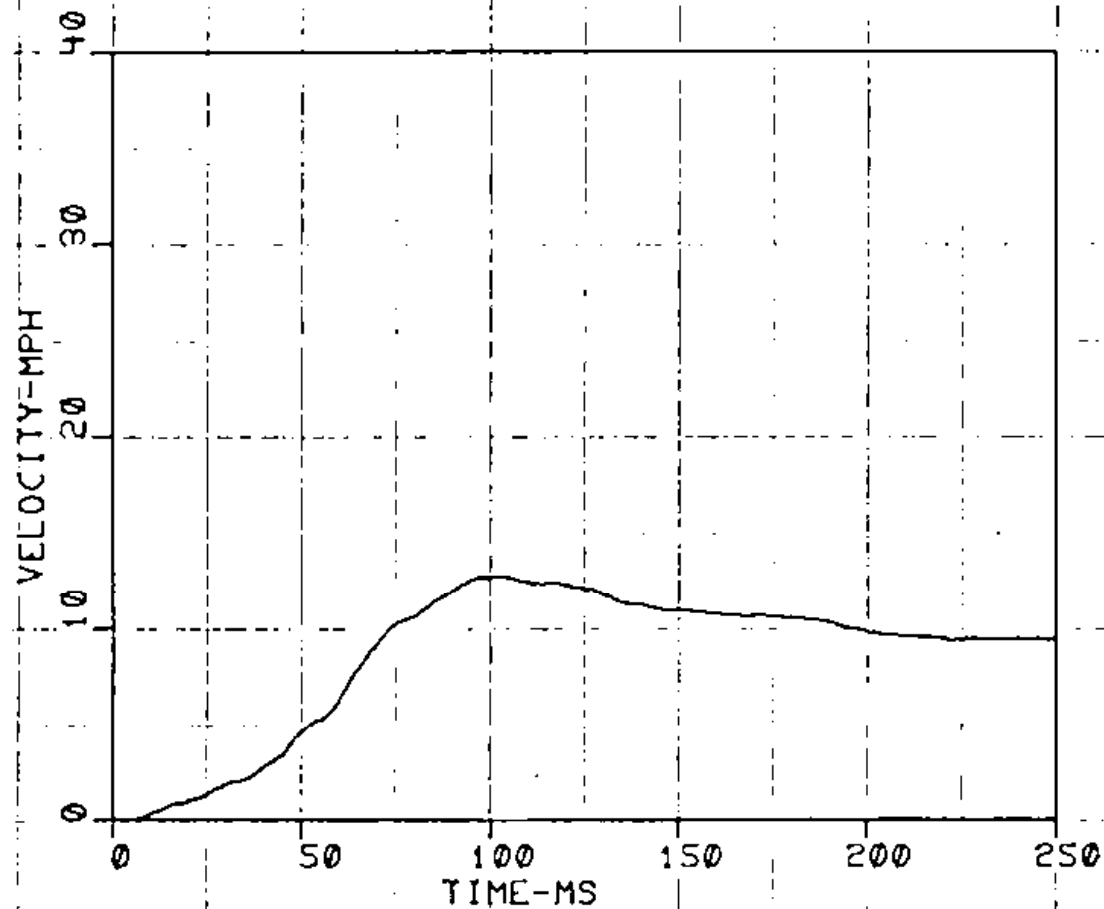
TEST#8327-6.1 VW RABBIT LOC 15Z



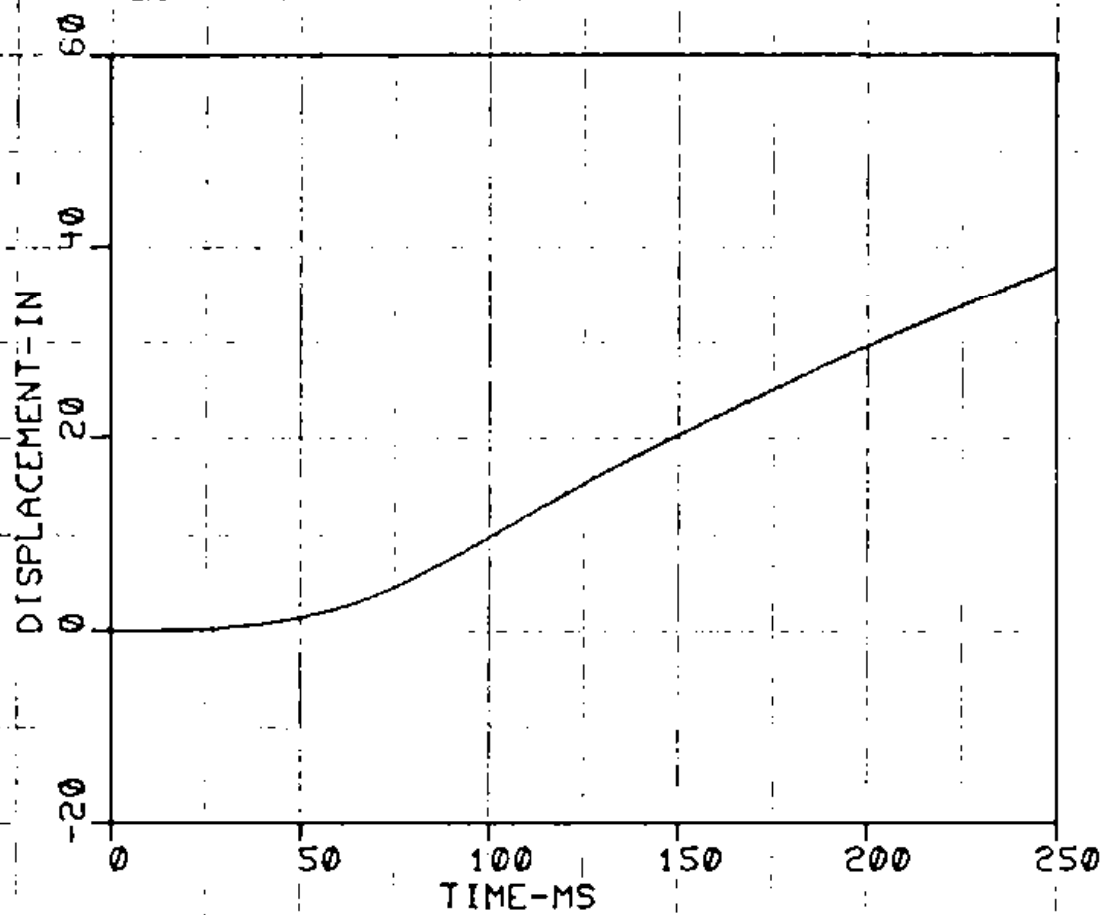
TEST#8327-6.1 VW RABBIT AVG.LOC.1&2Y



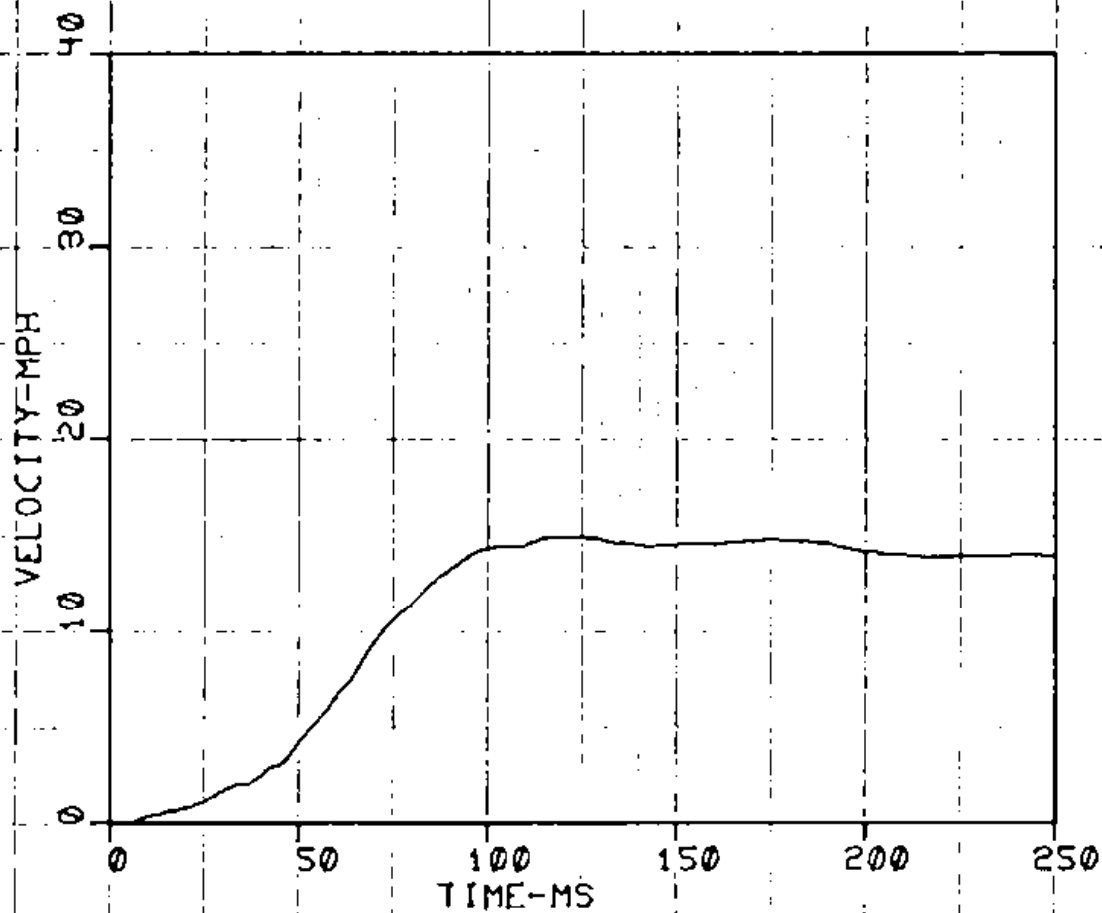
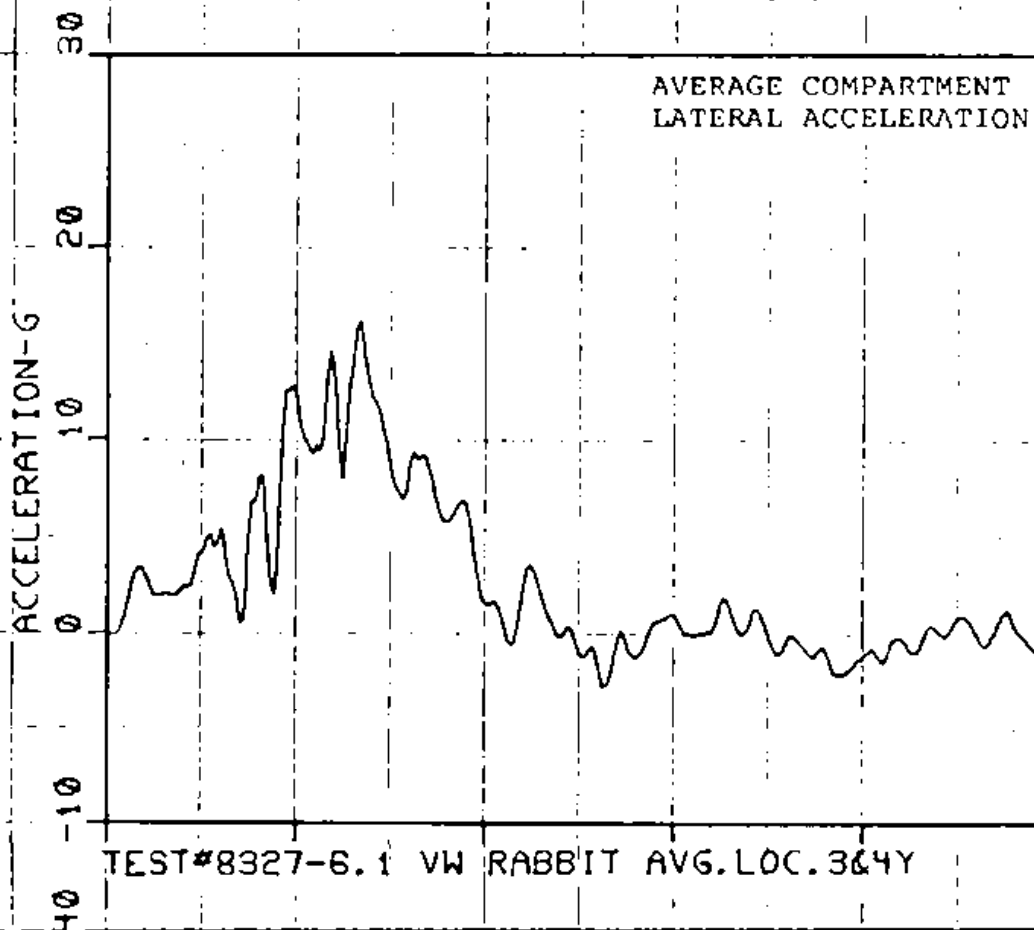
TEST#8327-6.1 VW RABBIT AVG.LOC.1&2Y



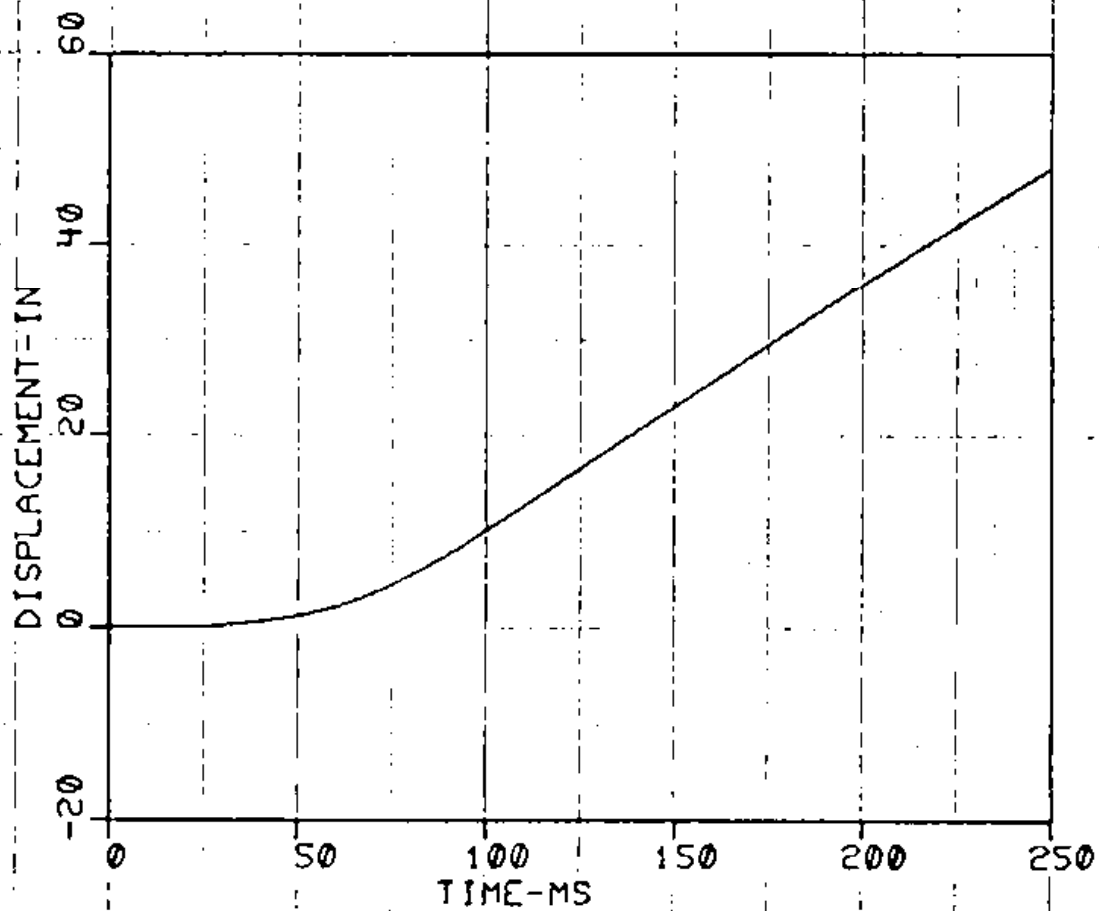
TEST#8327-6.1 VW RABBIT AVG.LOC.162Y



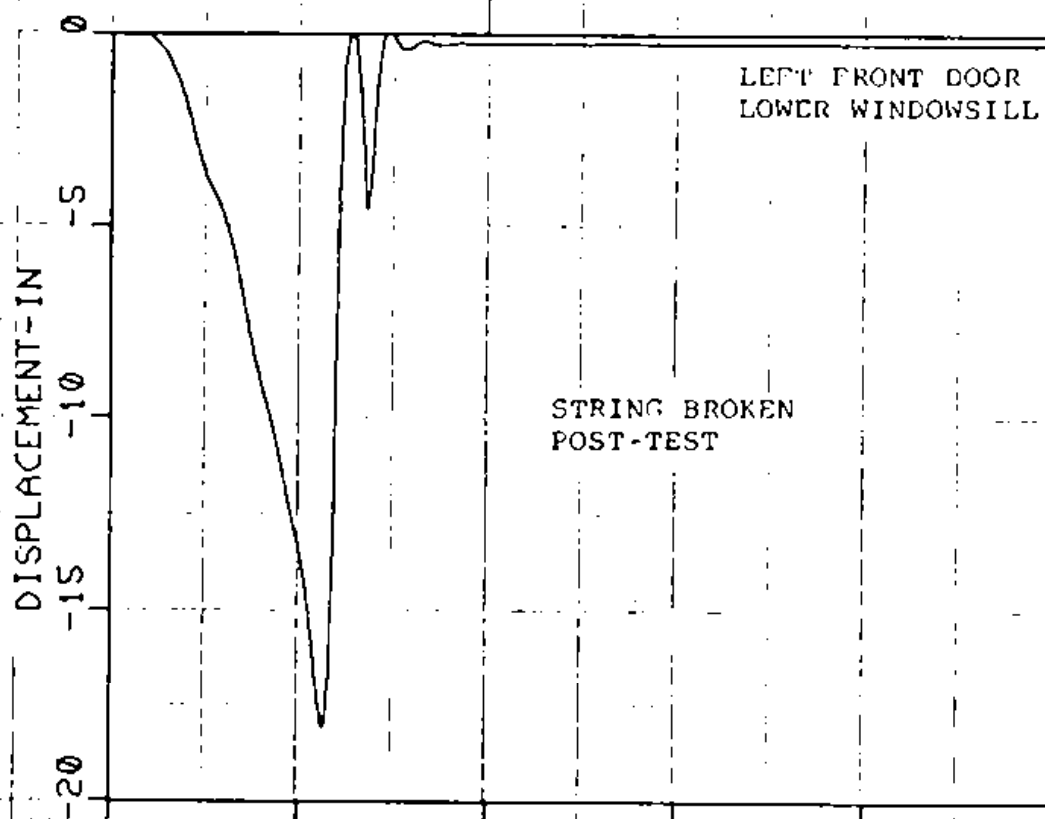
TEST#8327-6.1 VW RABBIT AVG.LOC.3&4Y



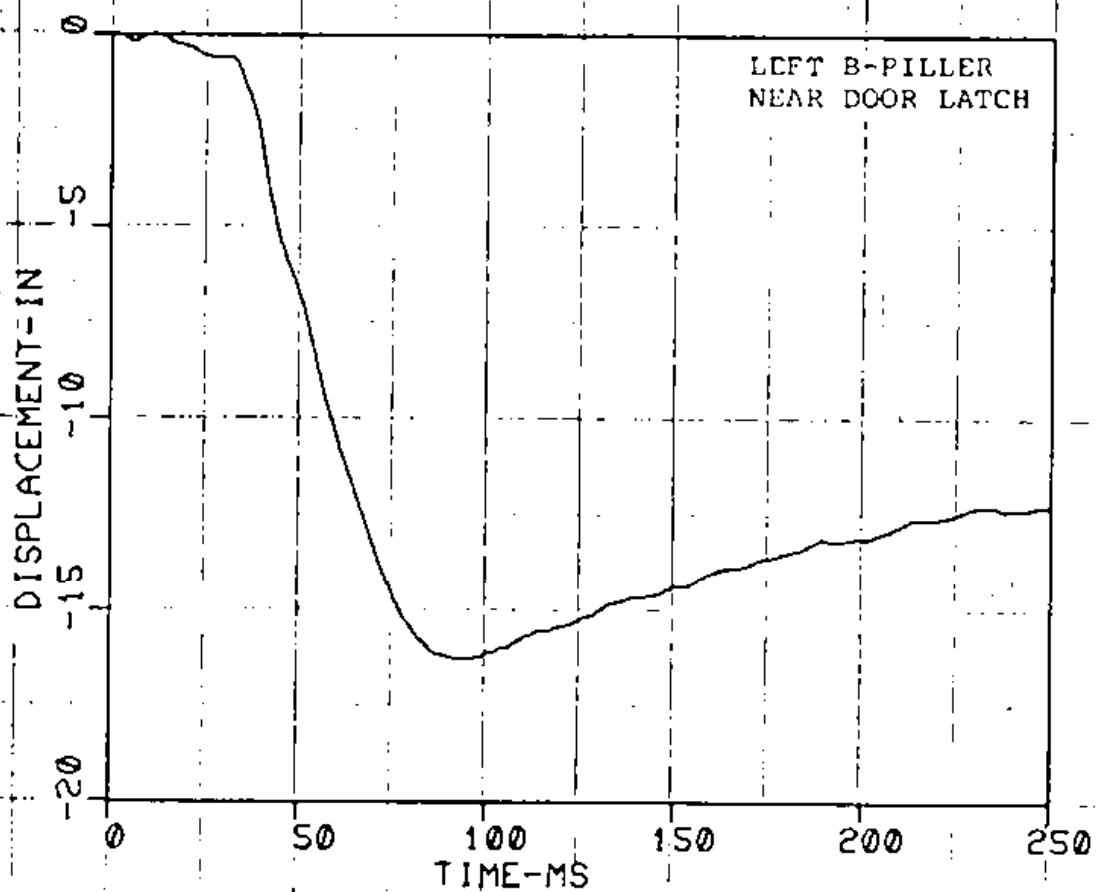
TEST#8327-6.1 VW RABBIT AVG.LOC.364Y



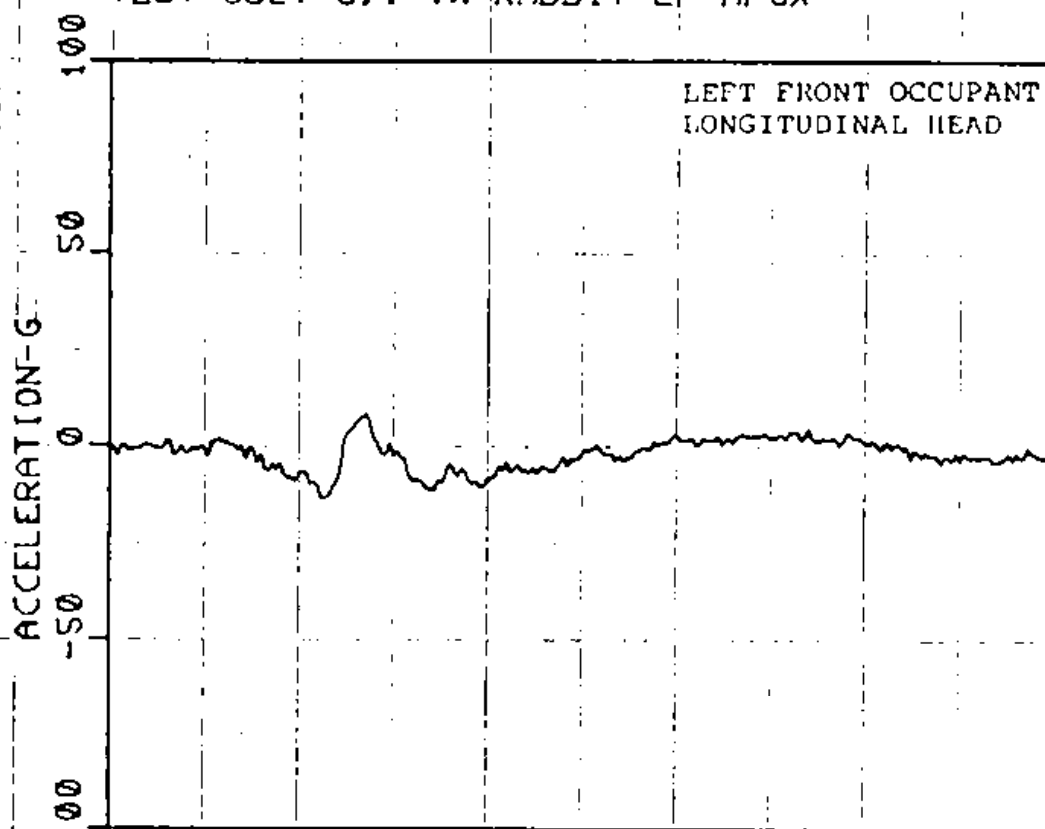
TEST#8327-6.1 VW RABBIT S.P.#1



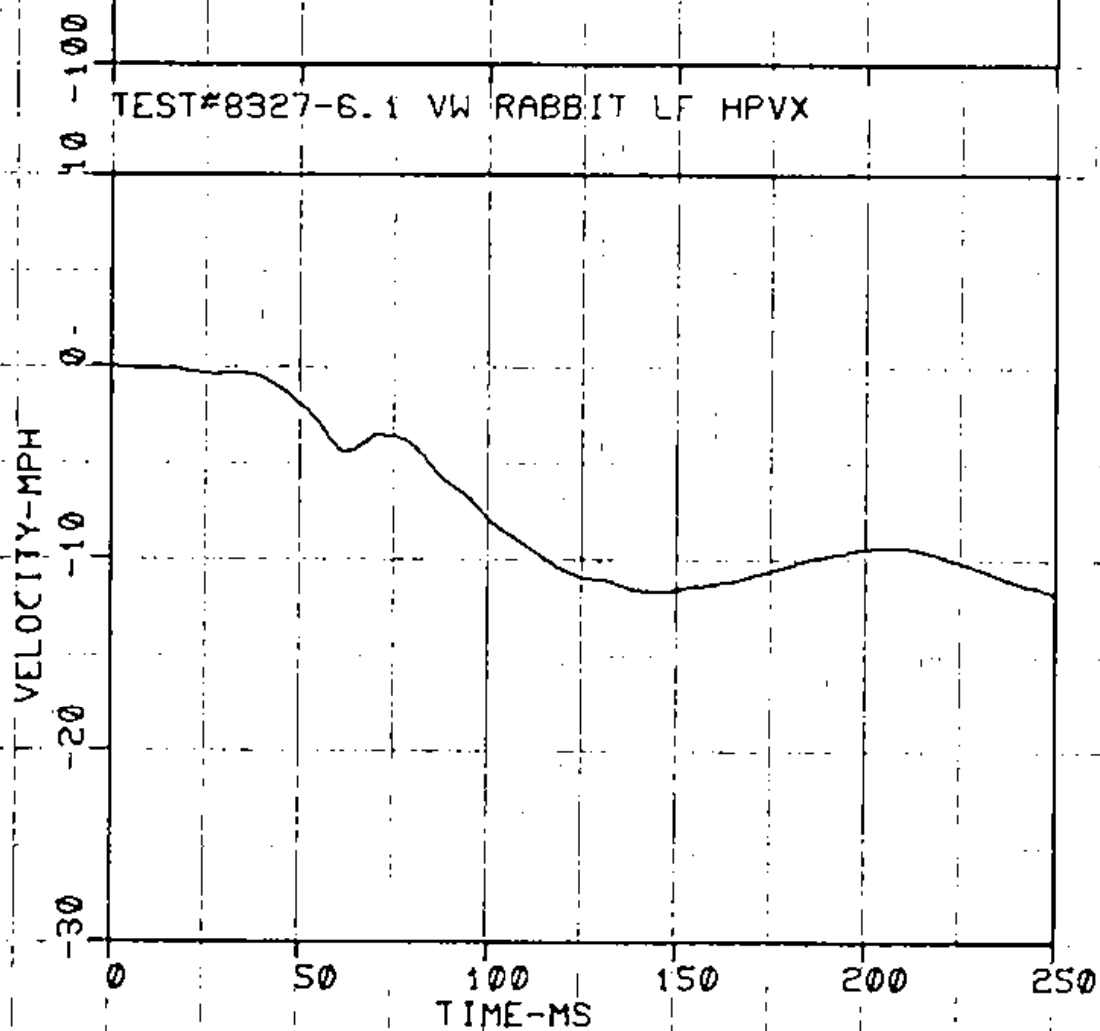
TEST#8327-6.1 VW RABBIT D.T.#2



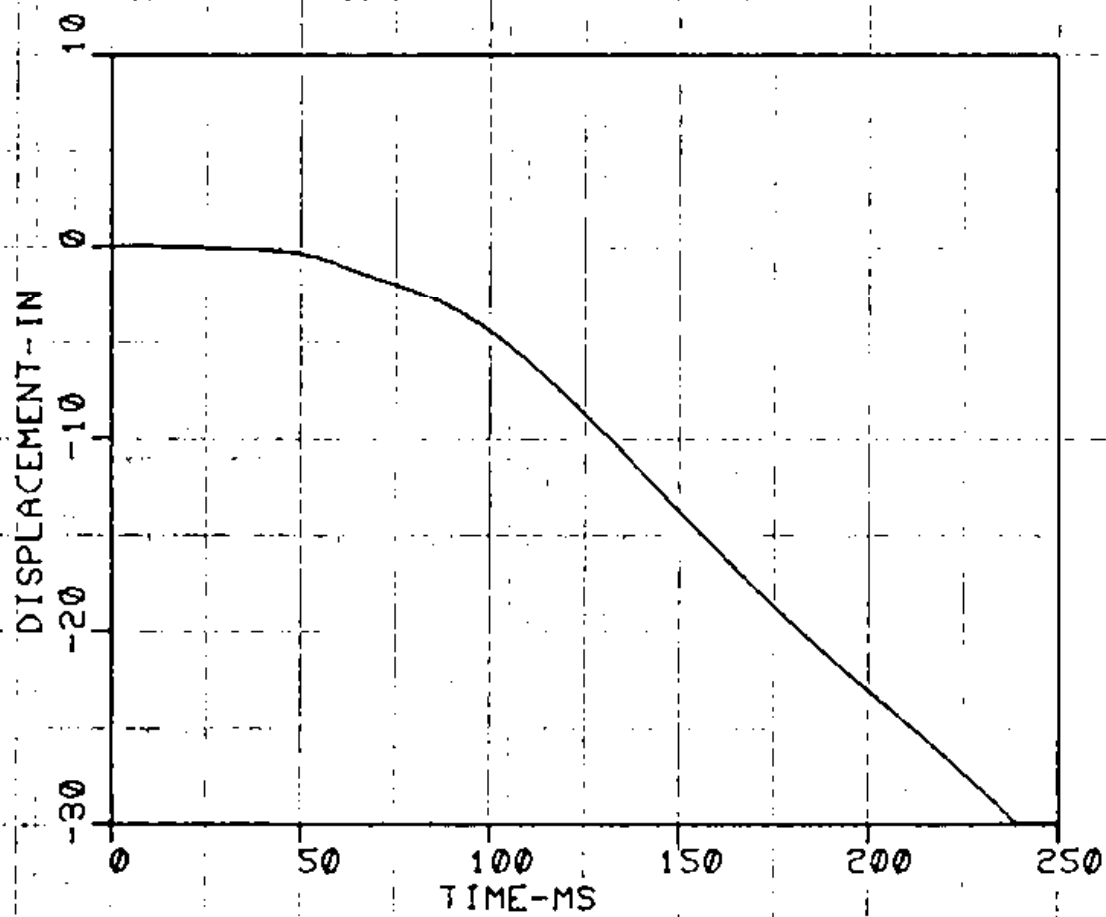
TEST#8327-6.1 VW RABBIT LF HPGX



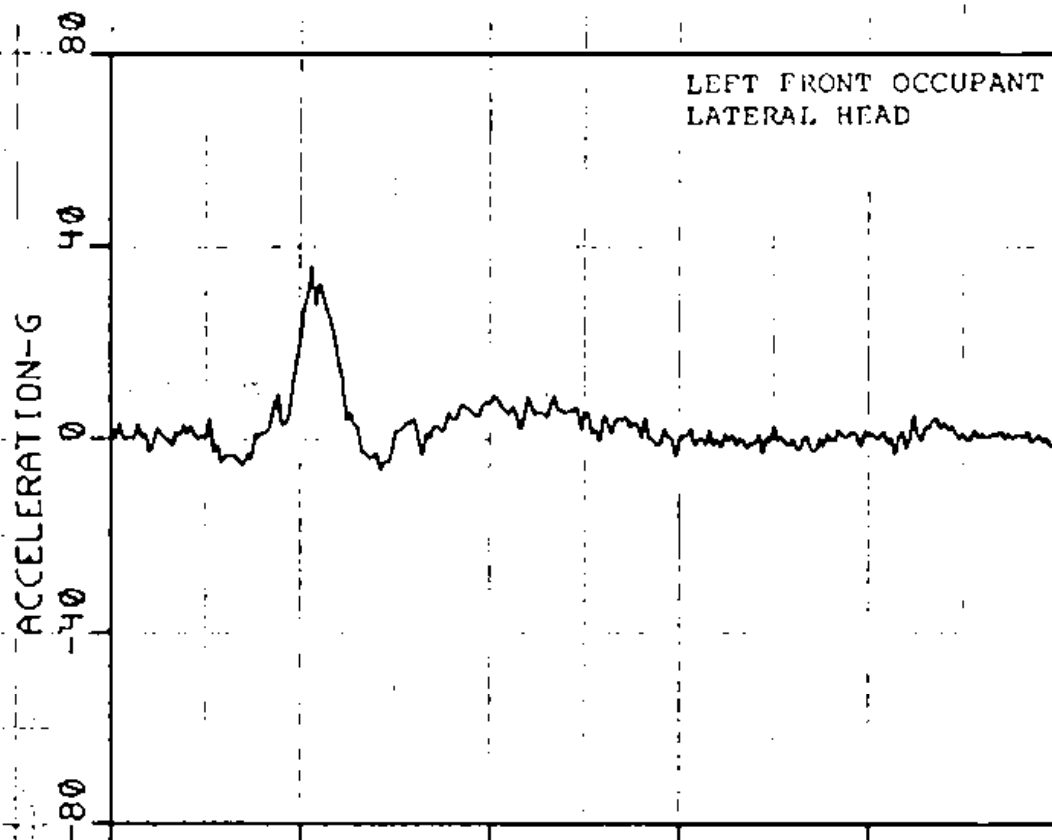
TEST#8327-6.1 VW RABBIT LF HPVX



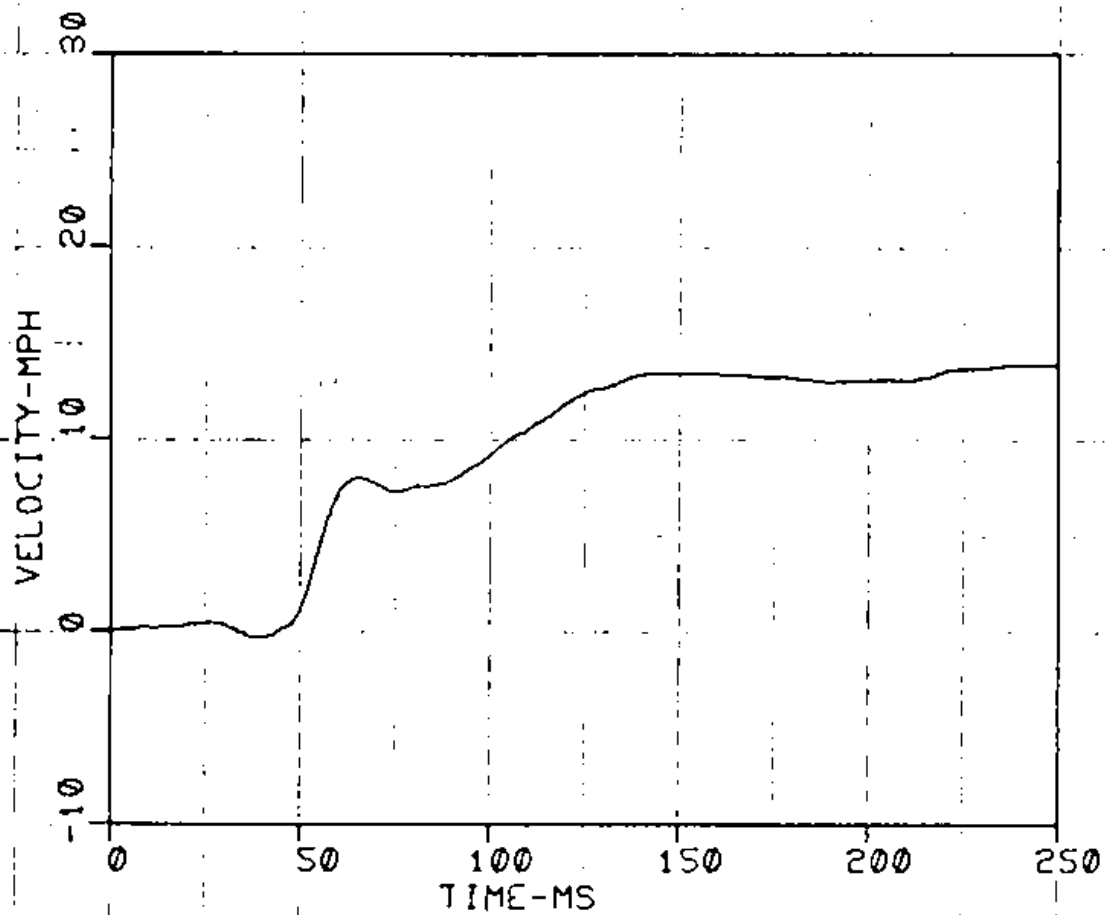
TEST#8327-6.1 VW RABBIT LF HPSX



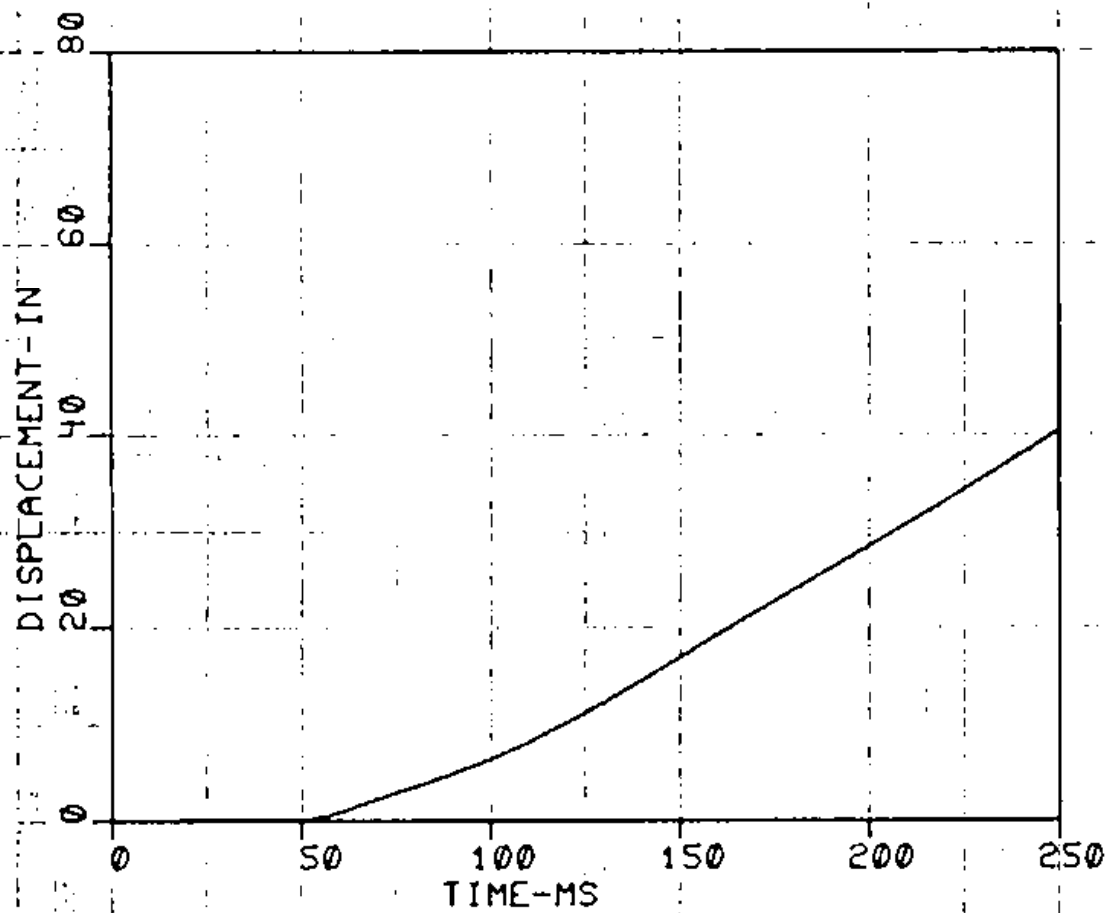
TEST#8327-6.1 VW RABBIT LF HRGY



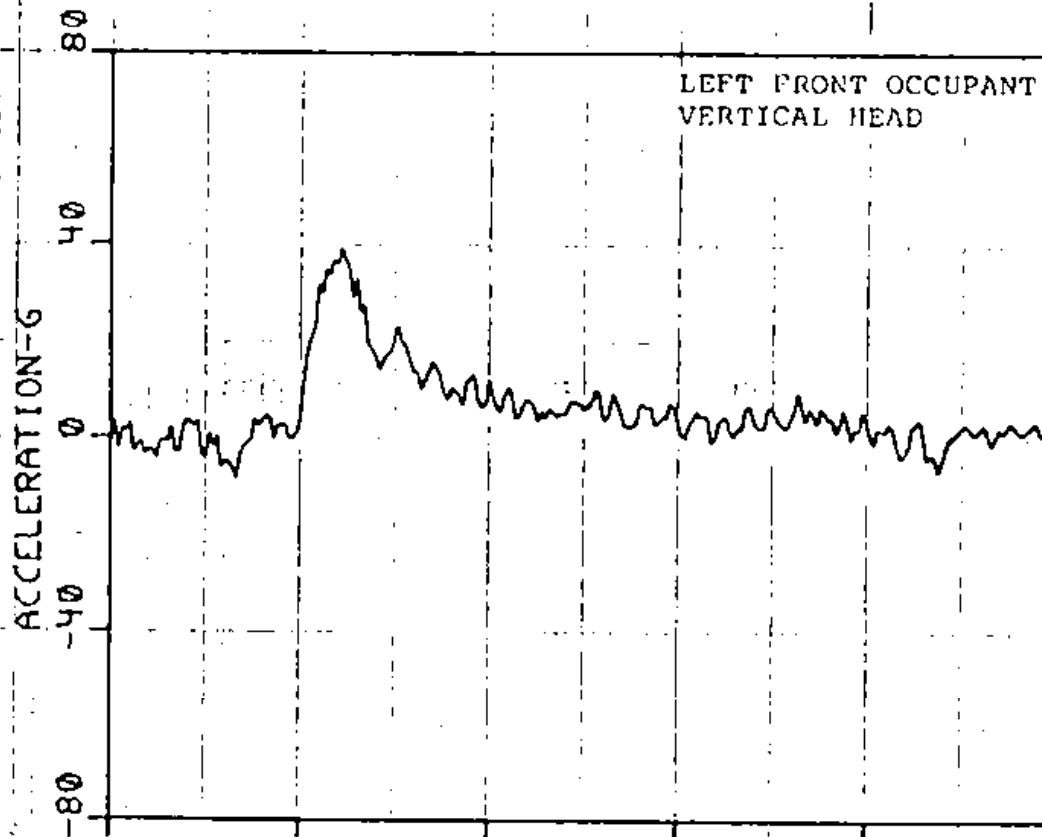
TEST#8327-6.1 VW RABBIT LF HRVY



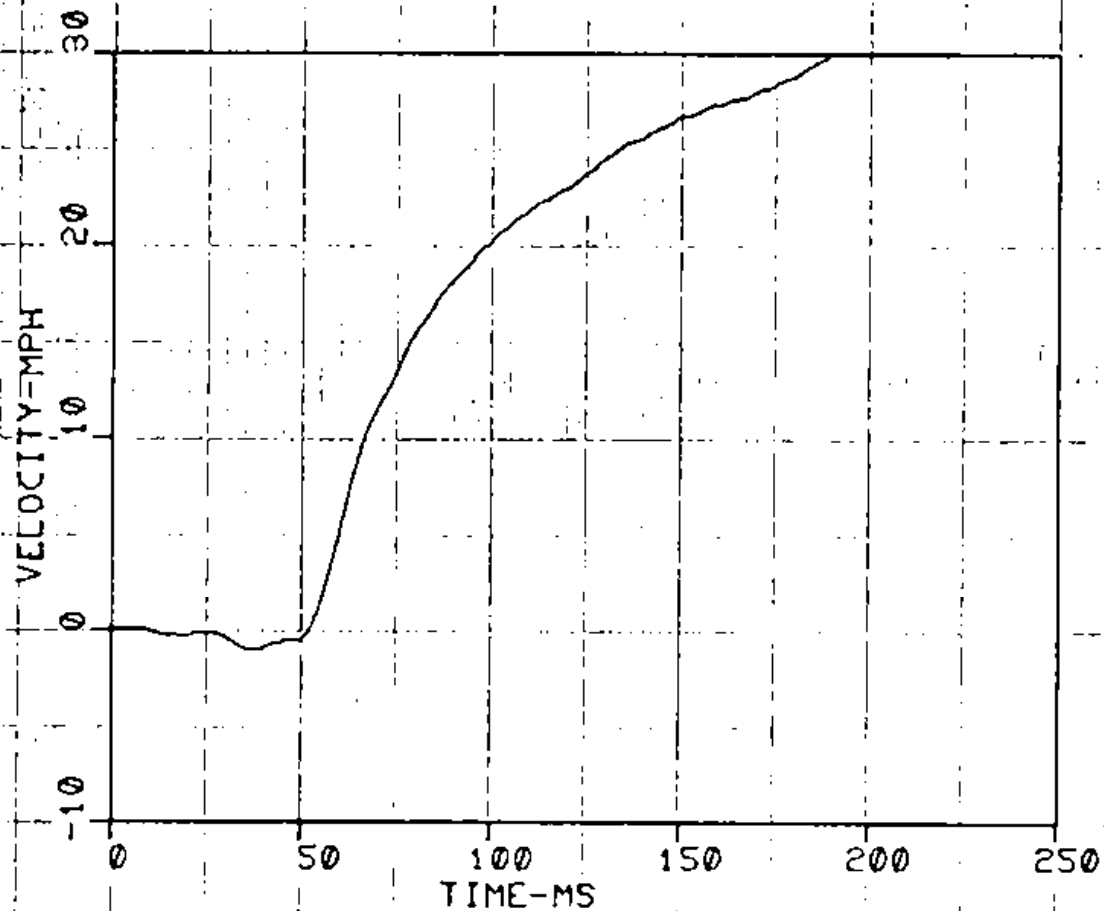
TEST#8327-6.1 VW RABBIT LF HRSY



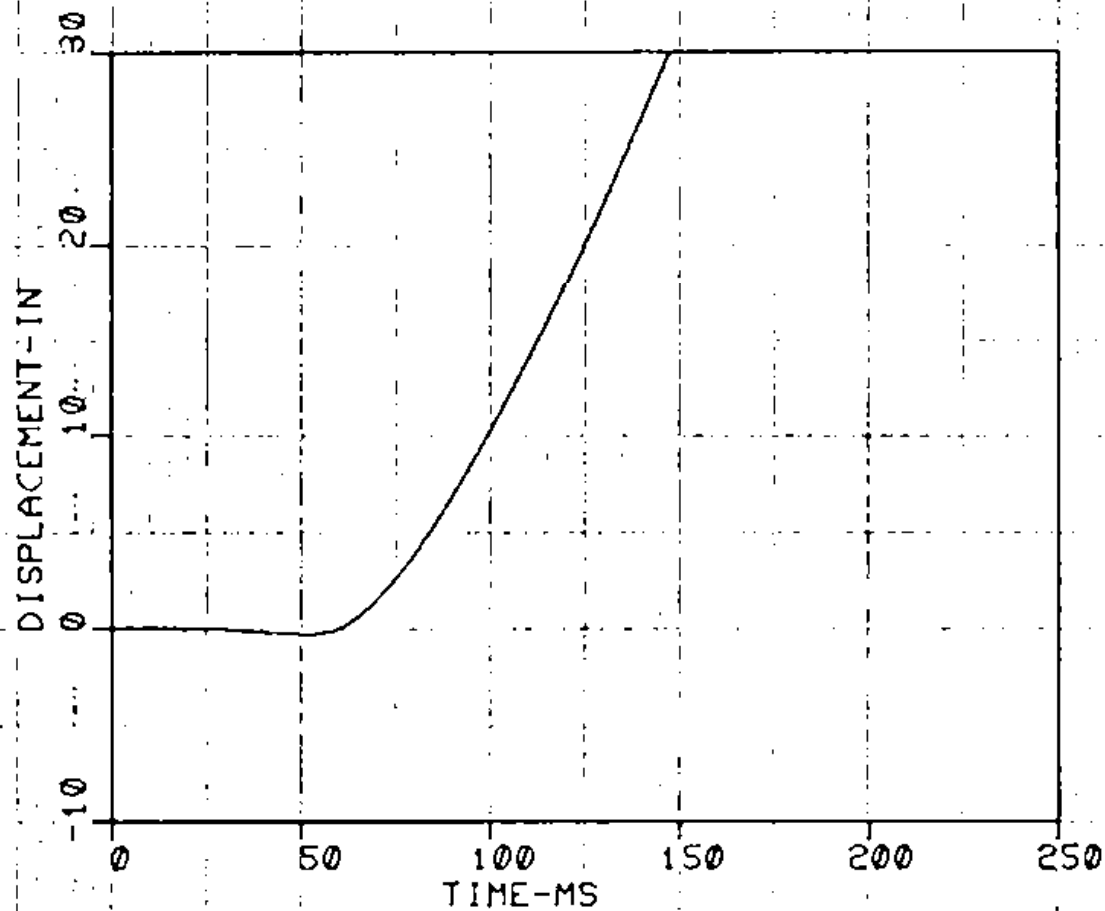
TEST#8327-6.1 VW RABBIT LF HIGZ



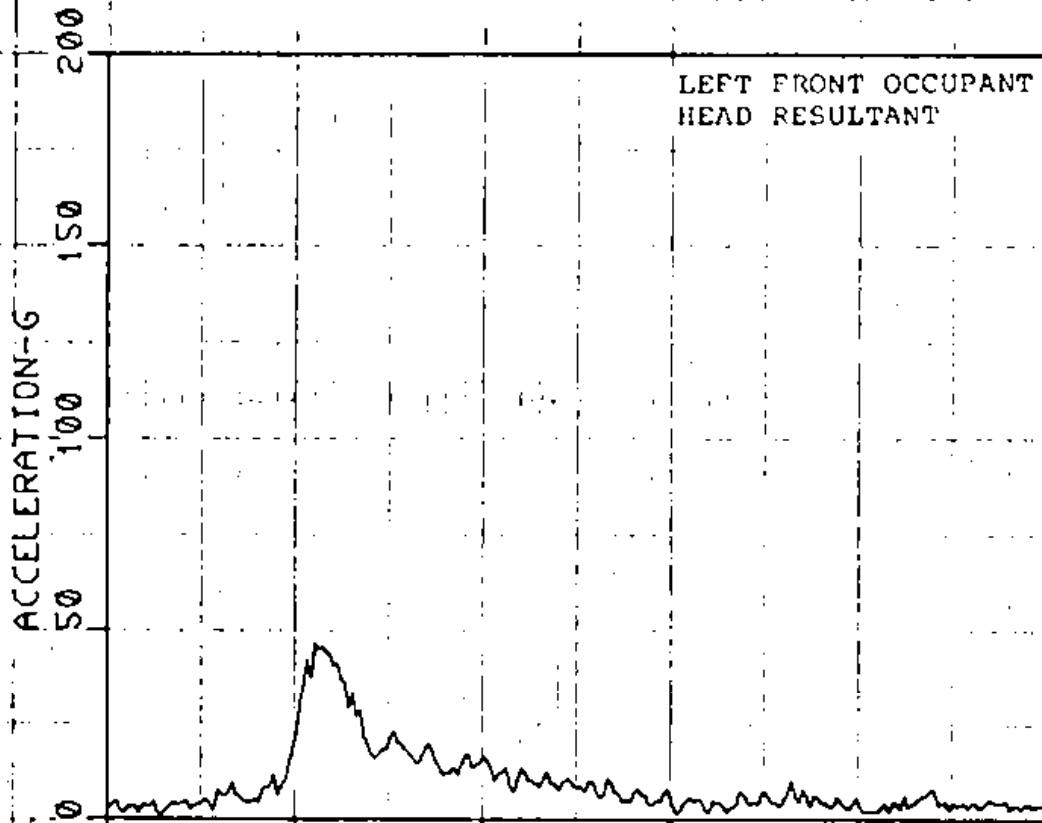
TEST#8327-6.1 VW RABBIT LF HIGZ



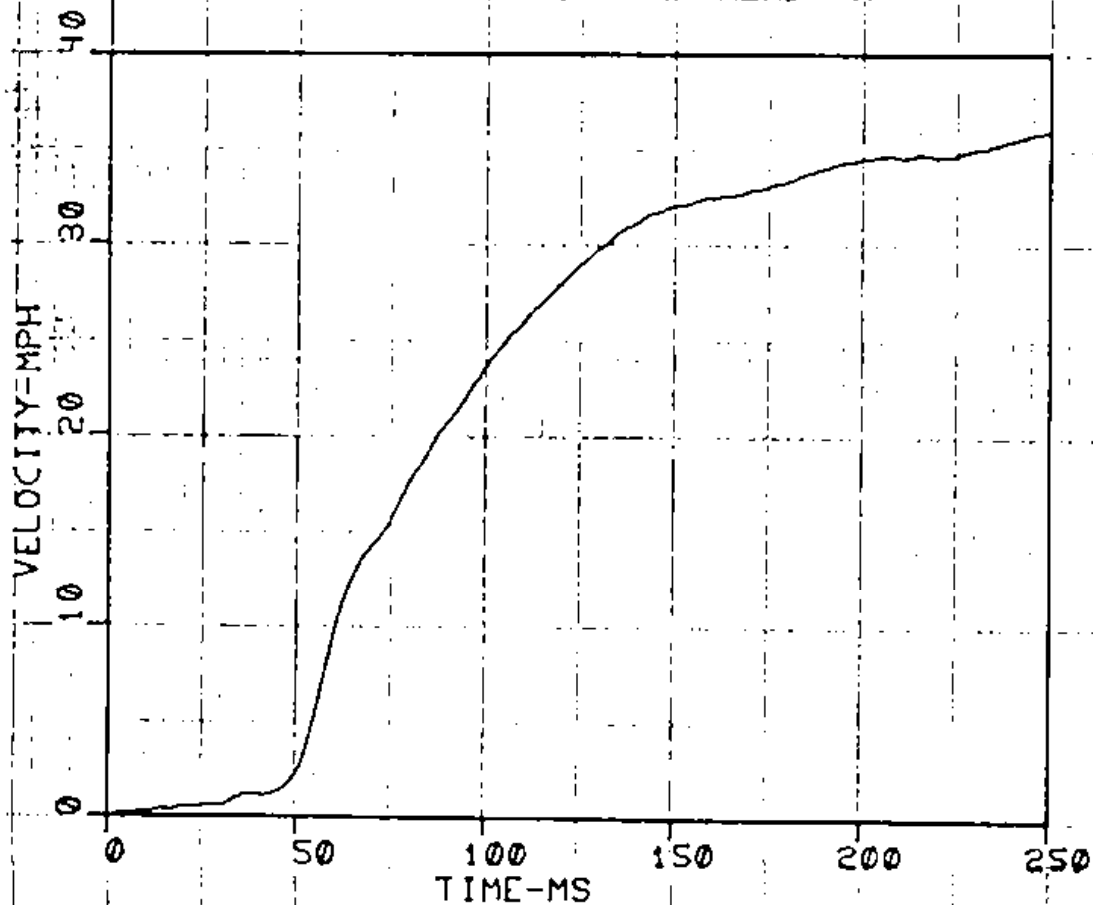
TEST#8327-6.1 VW RABBIT LF HISZ

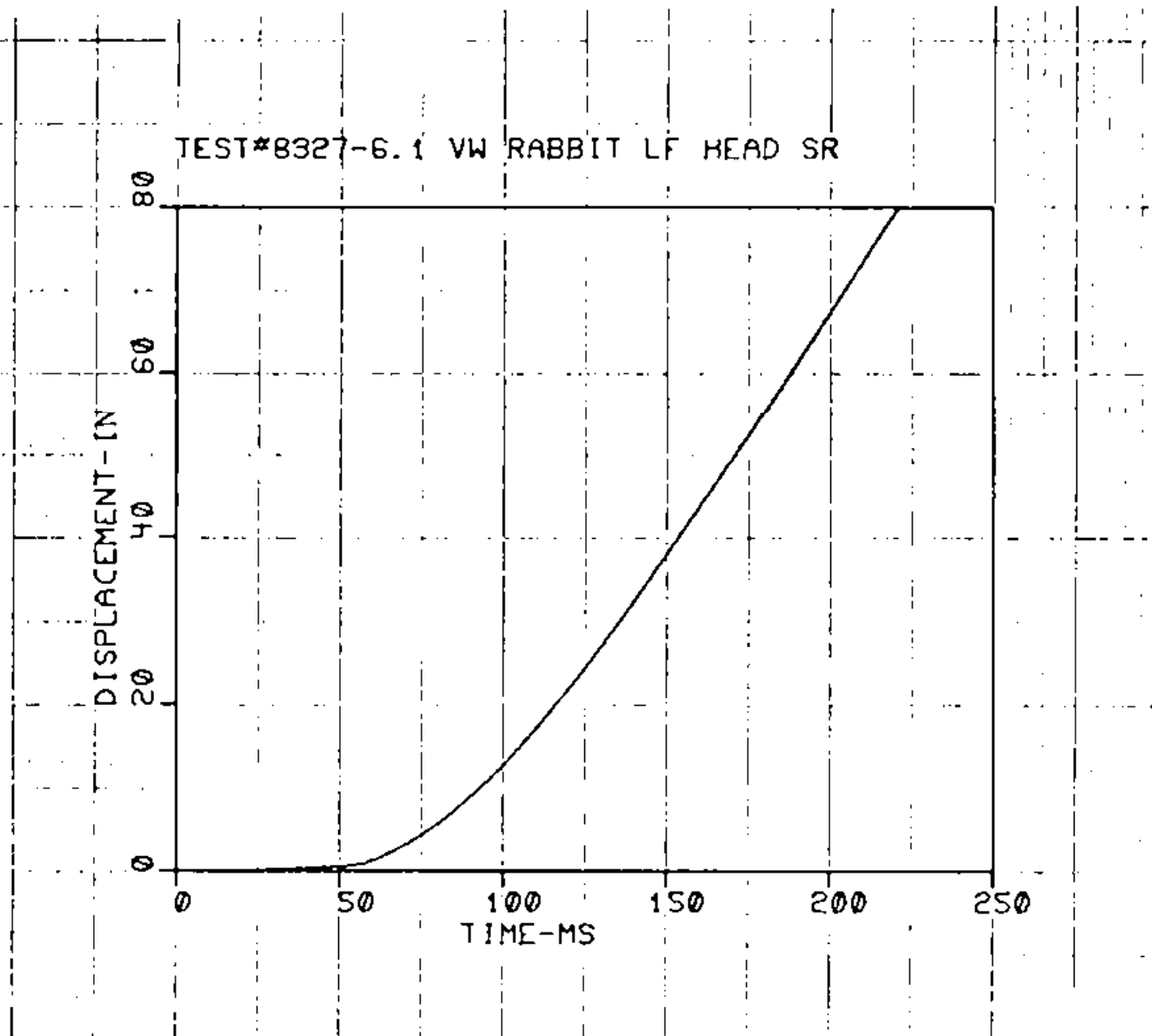


TEST#8327-6.1 VW RABBIT LF HEAD RESULT.

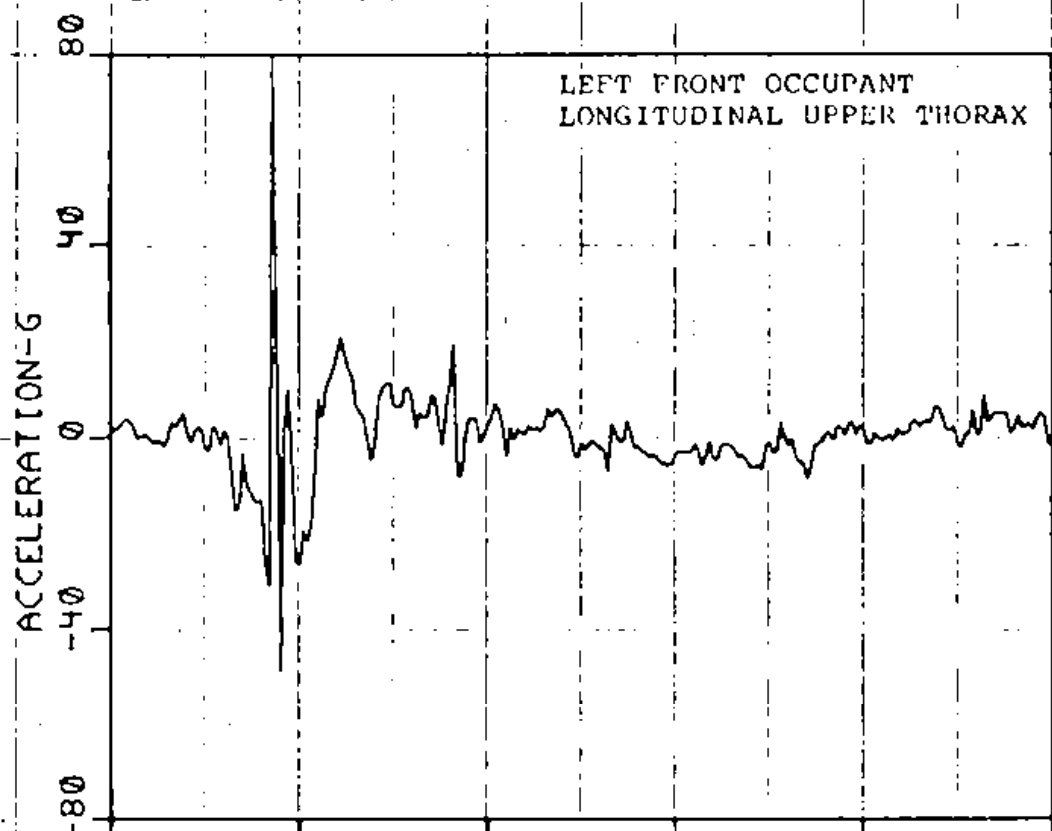


TEST#8327-6.1 VW RABBIT LF HEAD VR

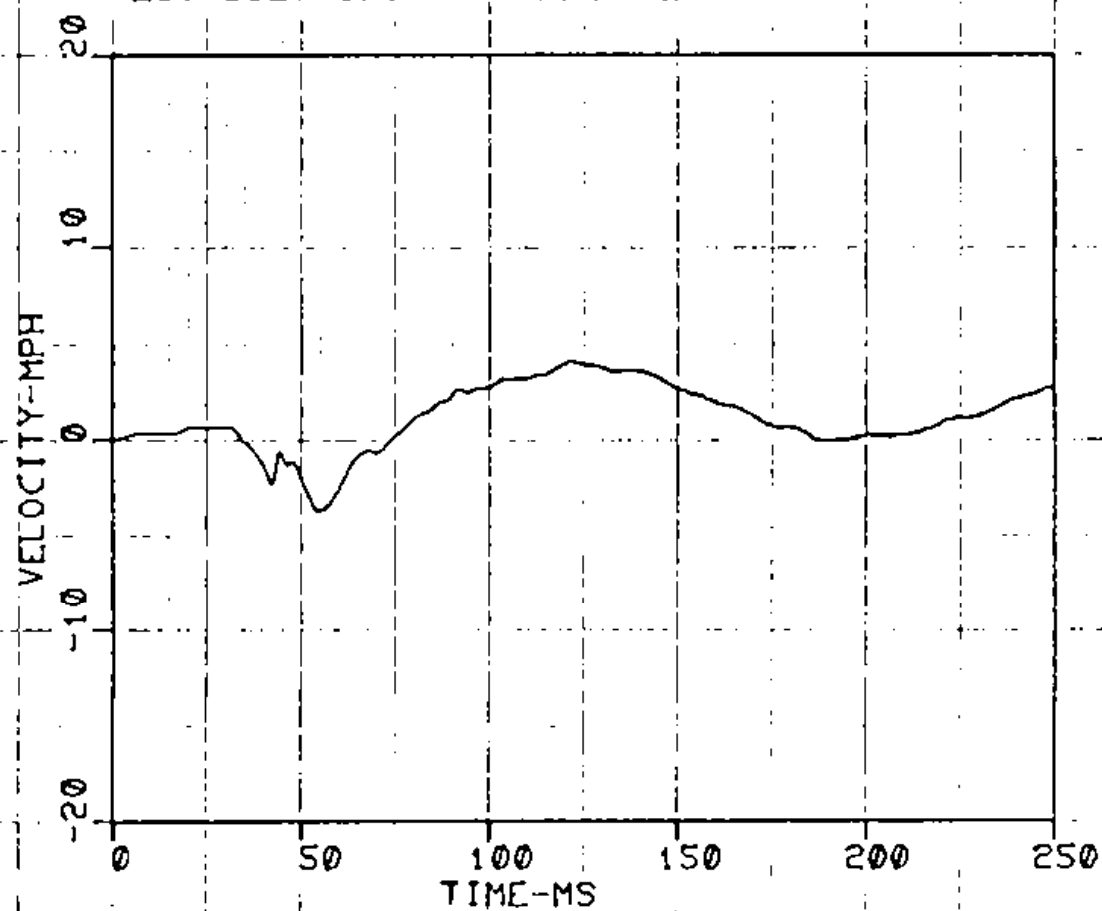




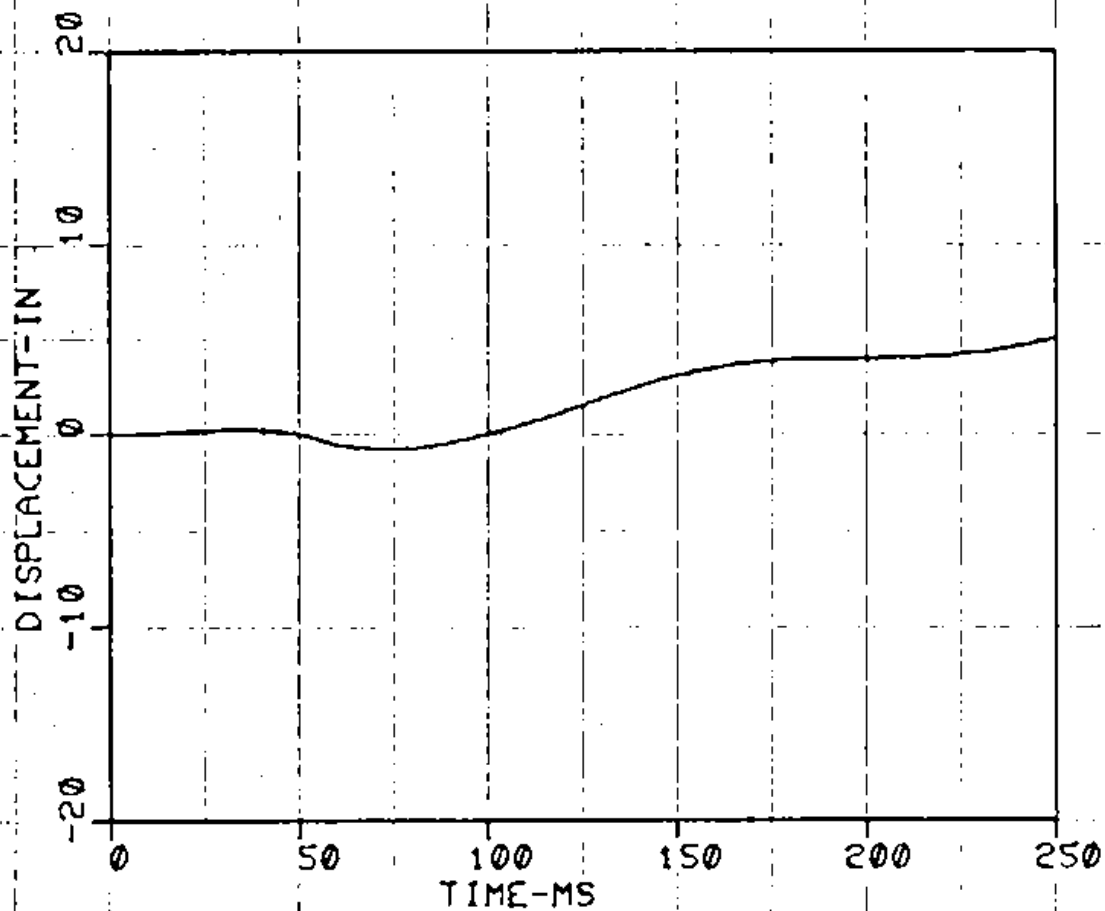
TEST#8327-6.1 VW RABBIT LF 1PGX



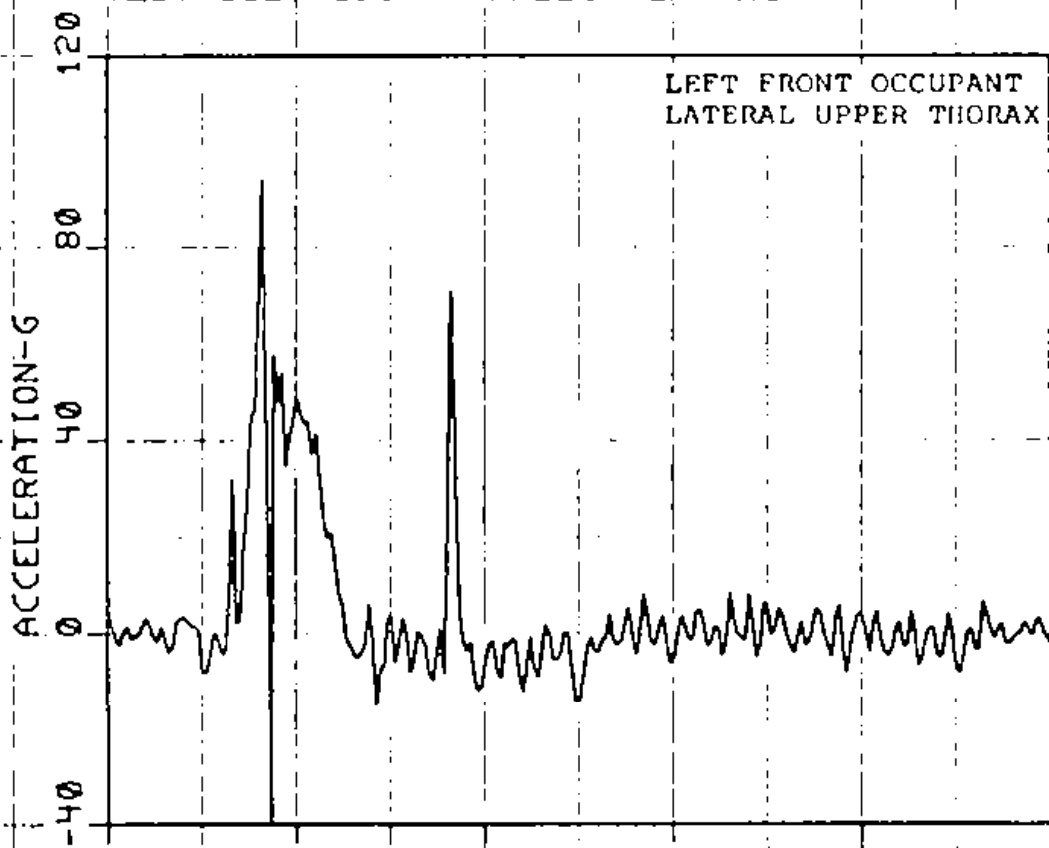
TEST#8327-6.1 VW RABBIT LF 1PVX



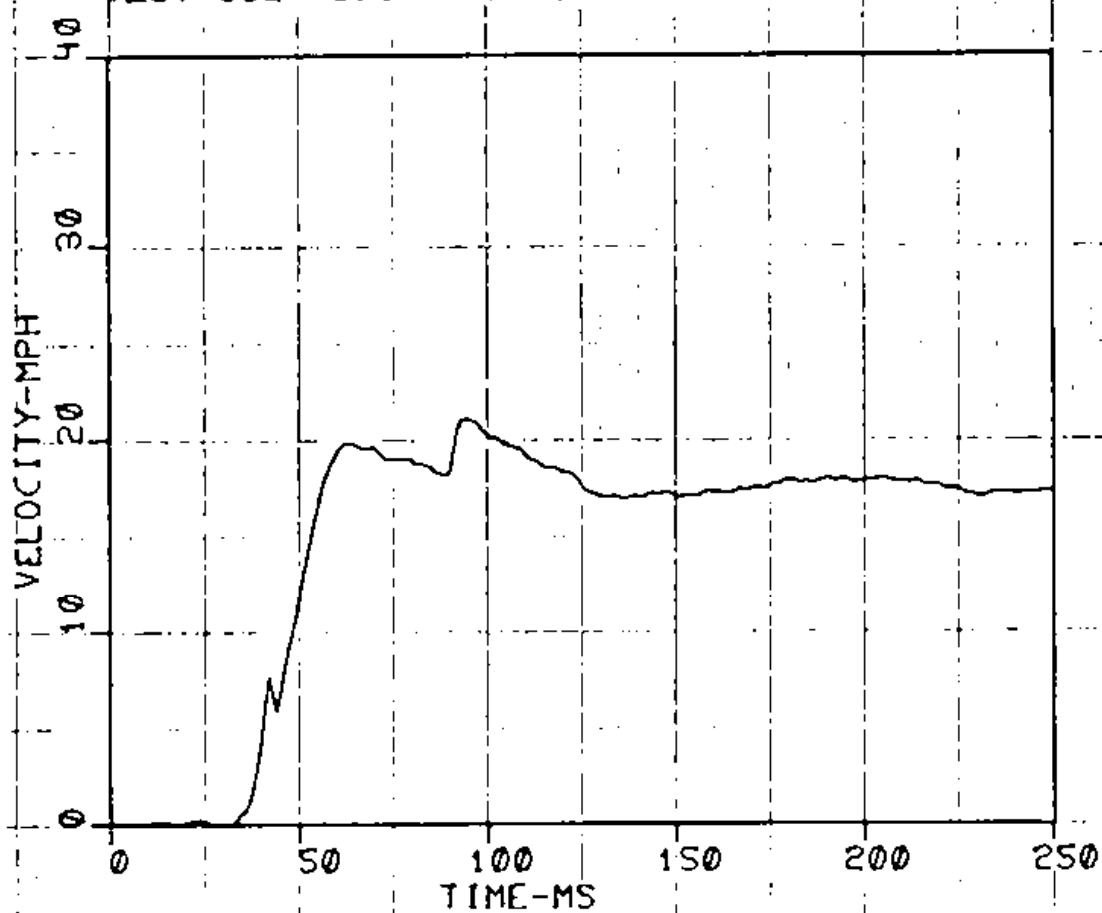
TEST#8327-6.1 VW RABBIT LF 1PSX



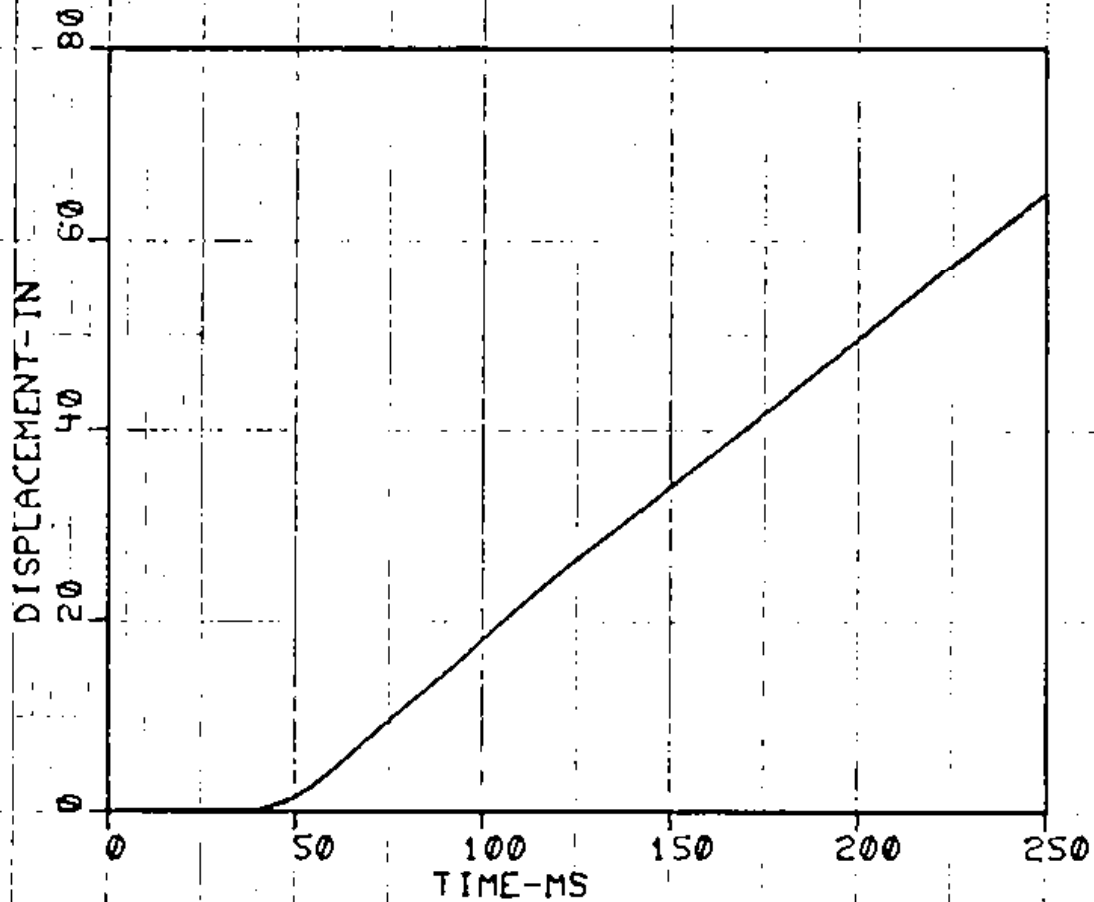
TEST#8327-6.1 VW RABBIT LF 1RGY

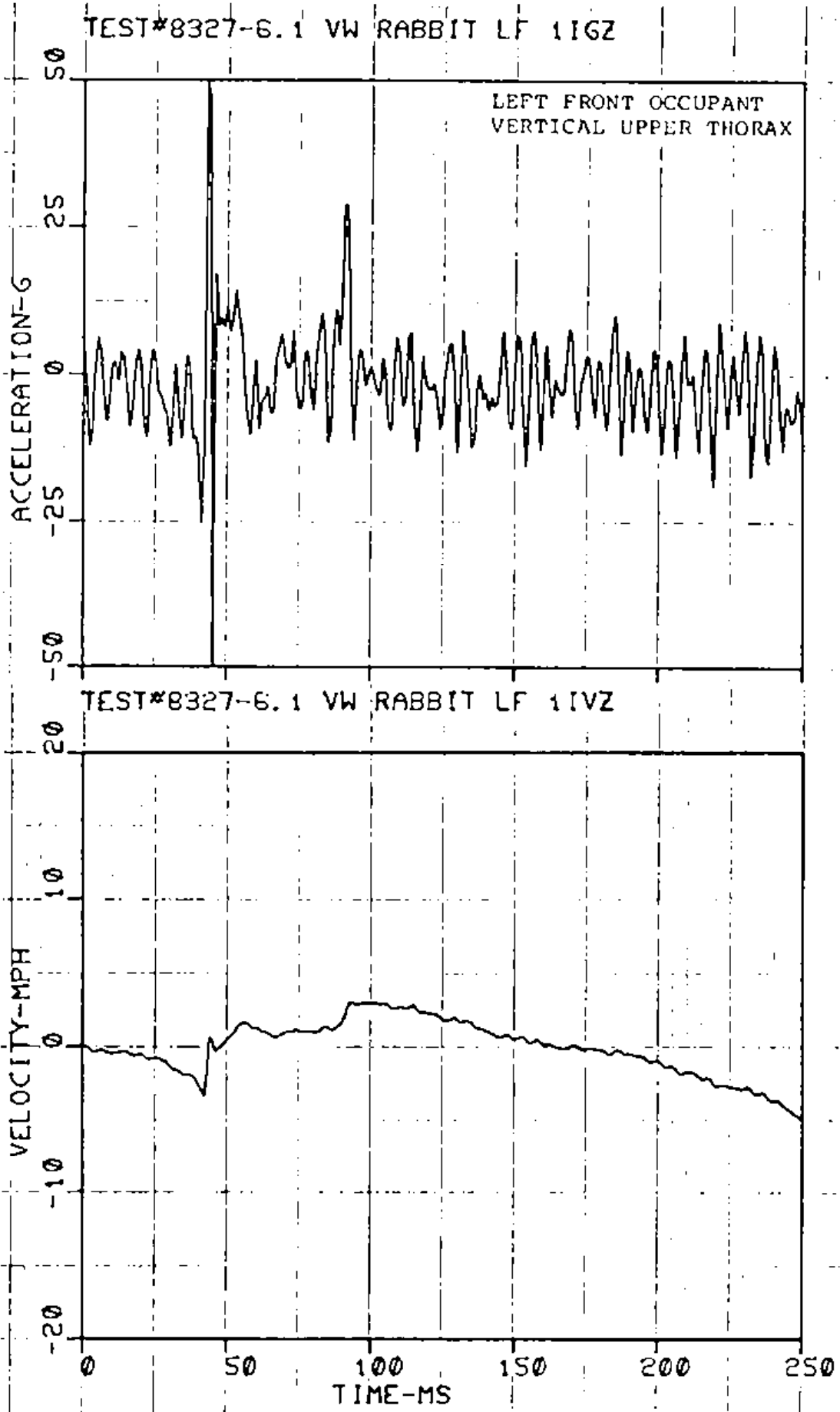


TEST#8327-6.1 VW RABBIT LF 1RVY

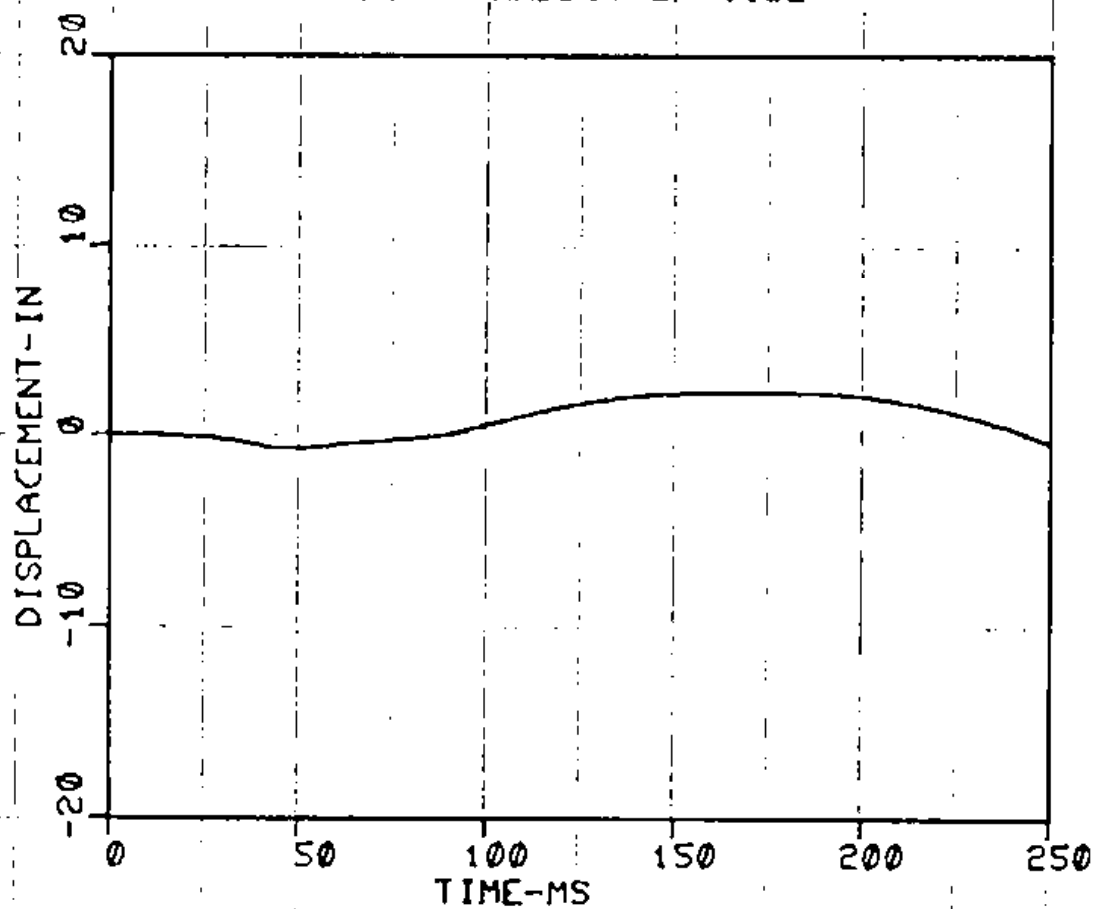


TEST#8327-6.1 VW RABBIT LF 1RSY

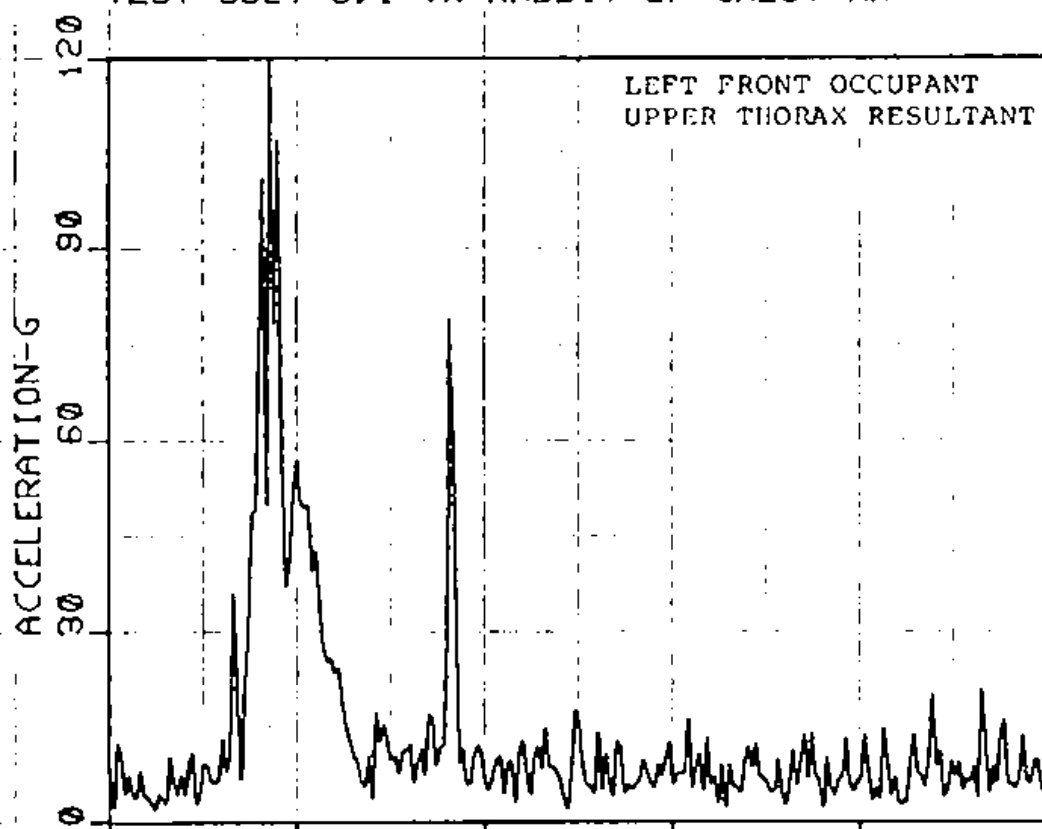




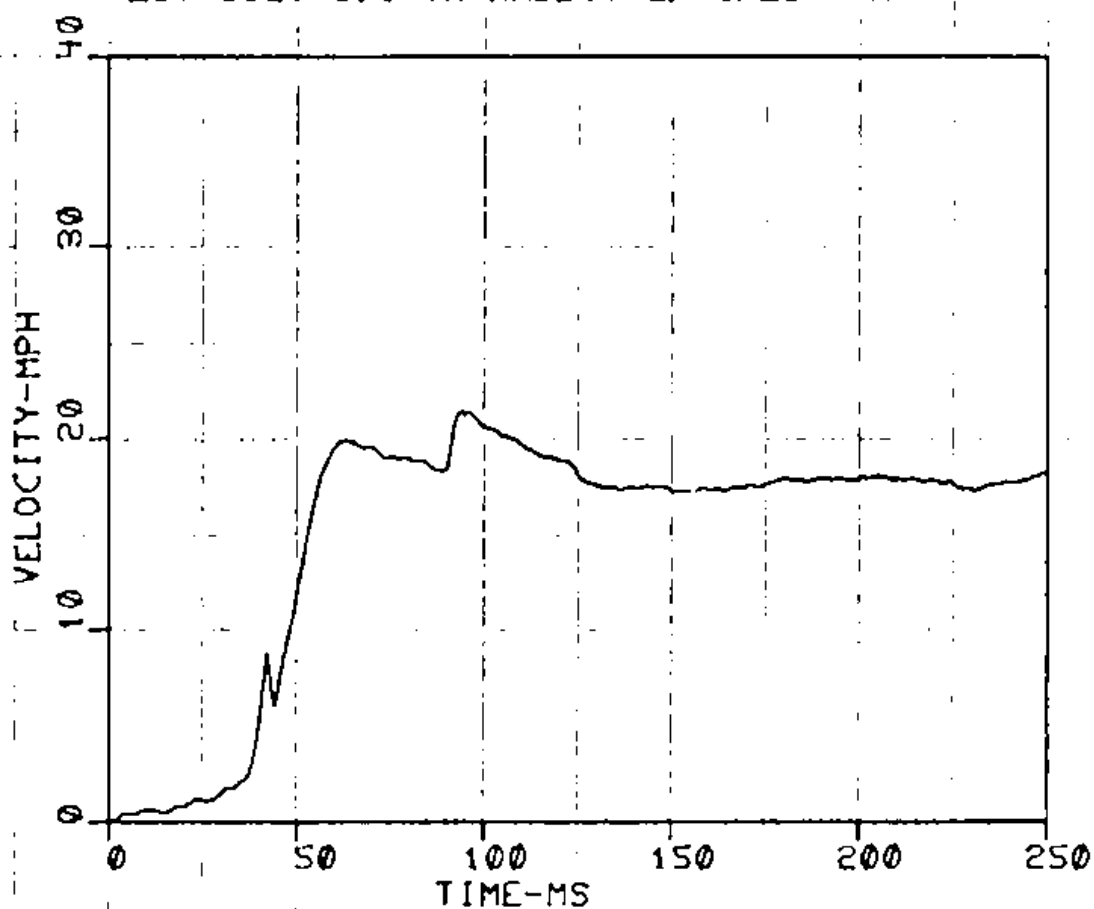
TEST#8327-6.1 VW RABBIT LF 1ISZ



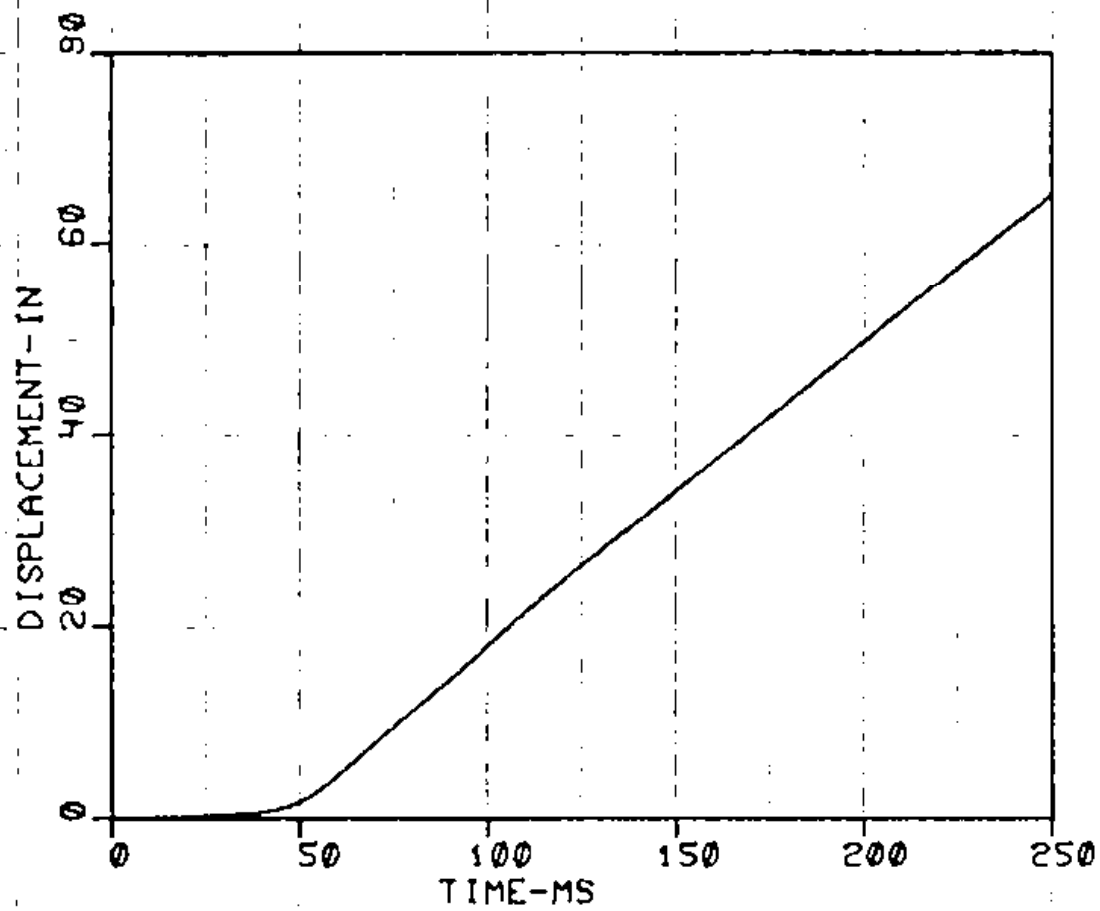
TEST#8327-6.1 VW RABBIT LF CHEST AR



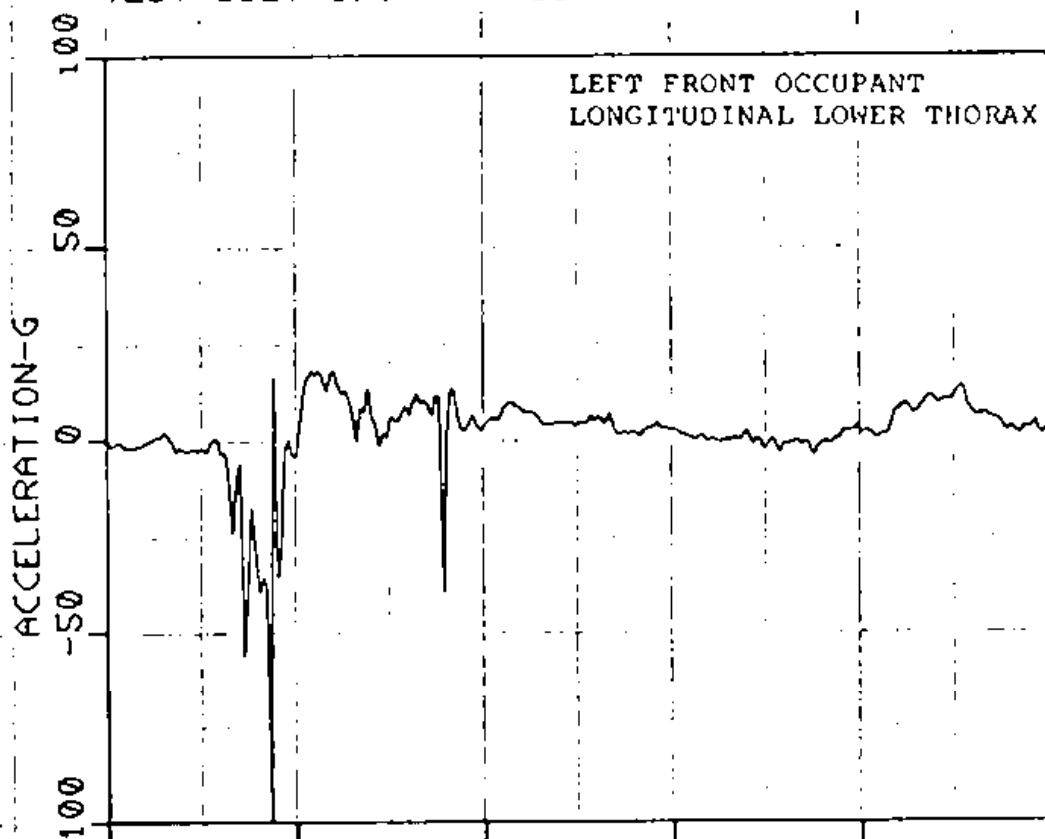
TEST#8327-6.1 VW RABBIT LF CHEST VR



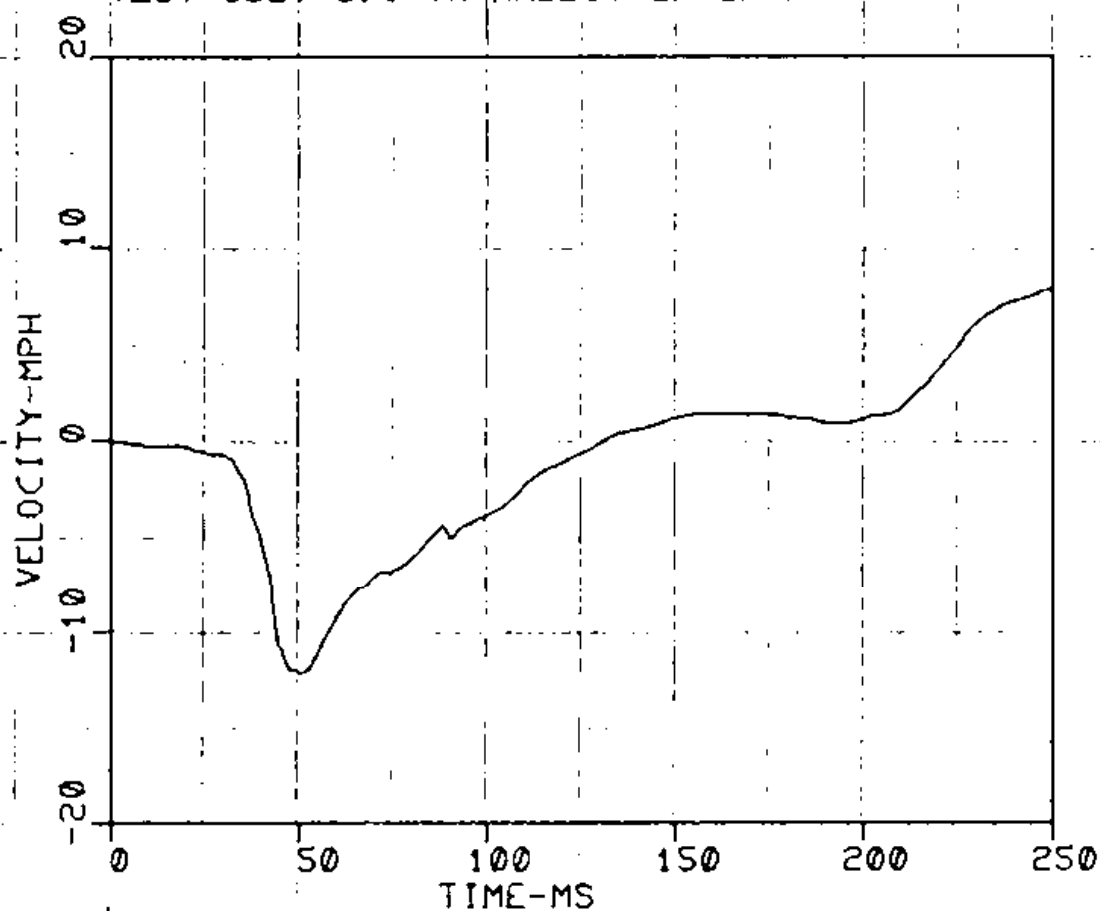
TEST#8327-6.1 VW RABBIT LF CHEST SR



TEST#8327-6.1 VW RABBIT LF 2PGX

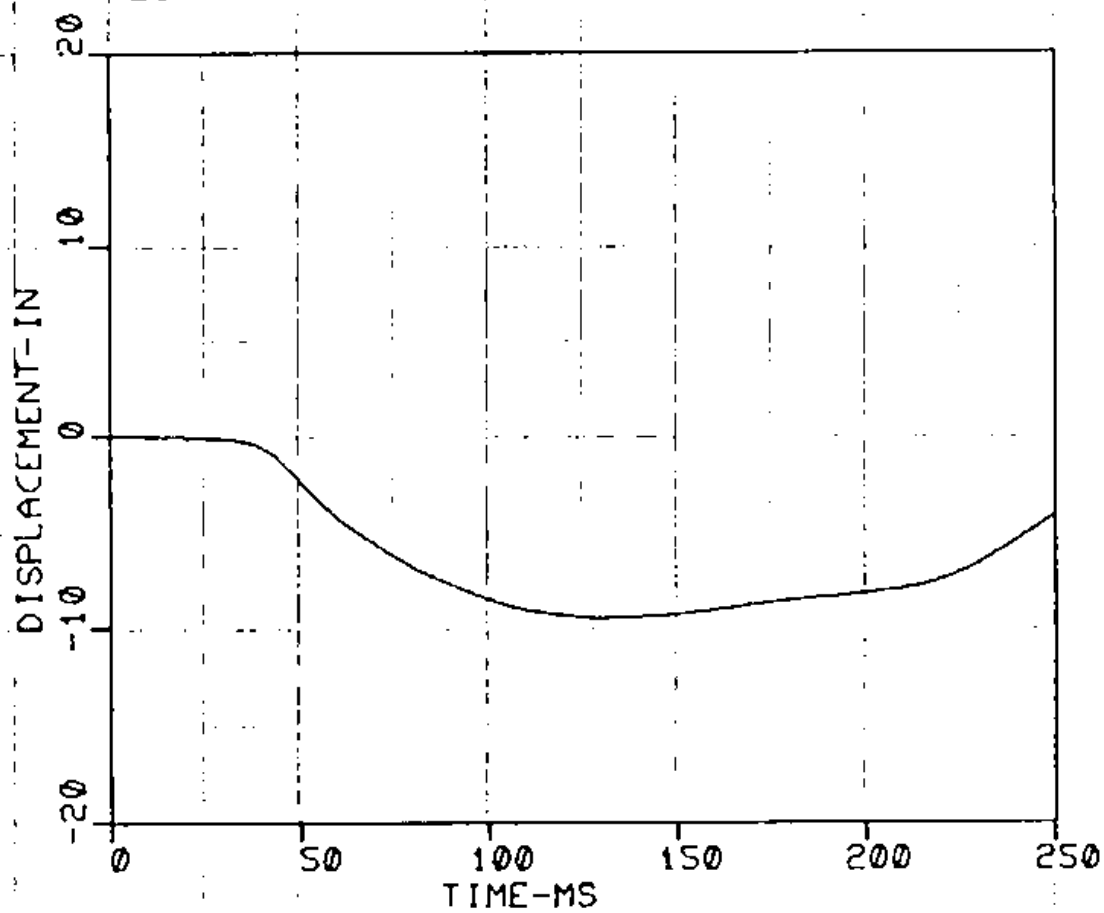


TEST#8327-6.1 VW RABBIT LF 2PVX

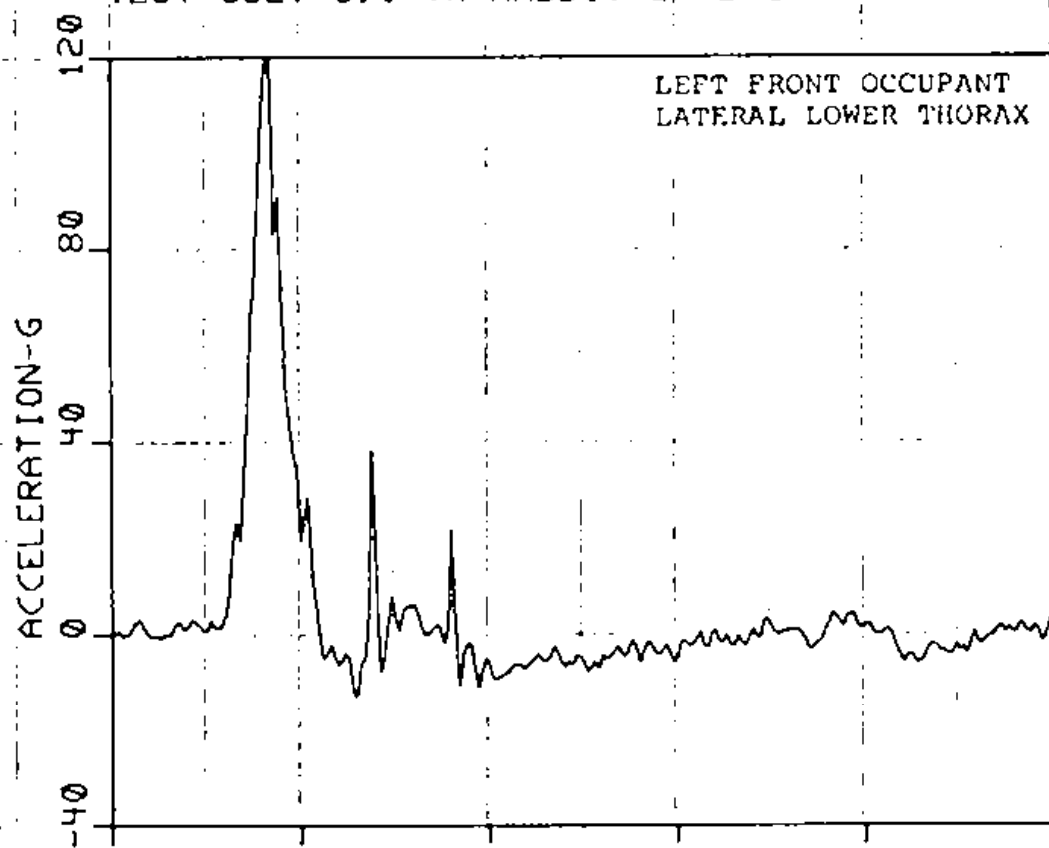


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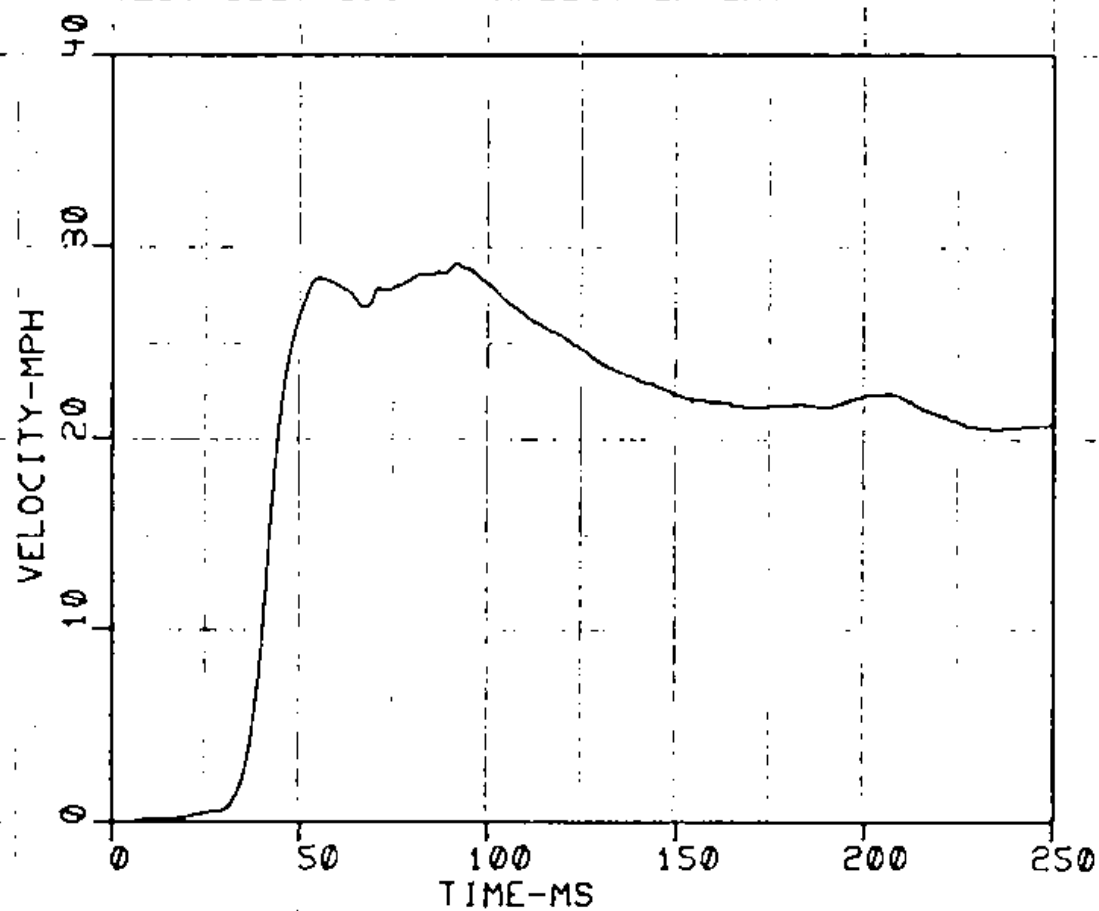
TEST#8327-6.1 VW RABBIT LF 2PSX



TEST#8327-6.1 VW RABBIT LF 2RGY

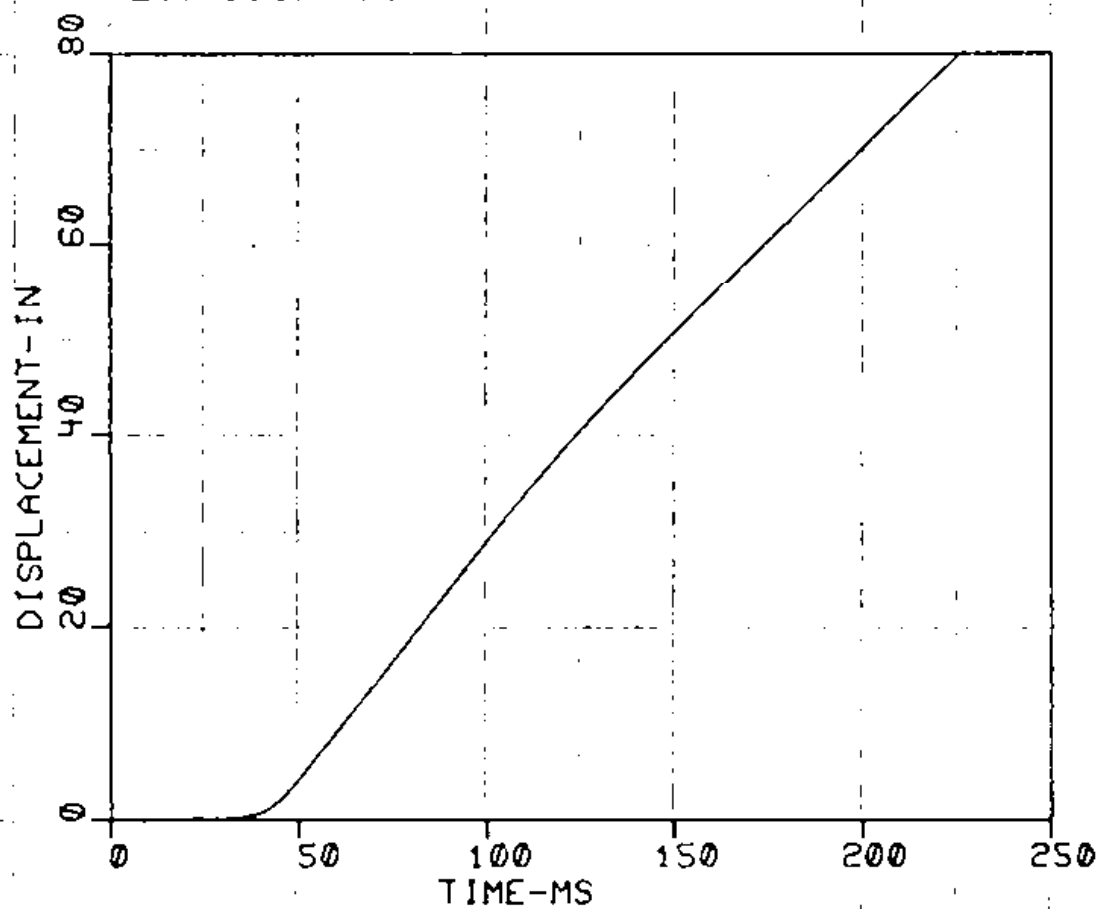


TEST#8327-6.1 VW RABBIT LF 2RVY



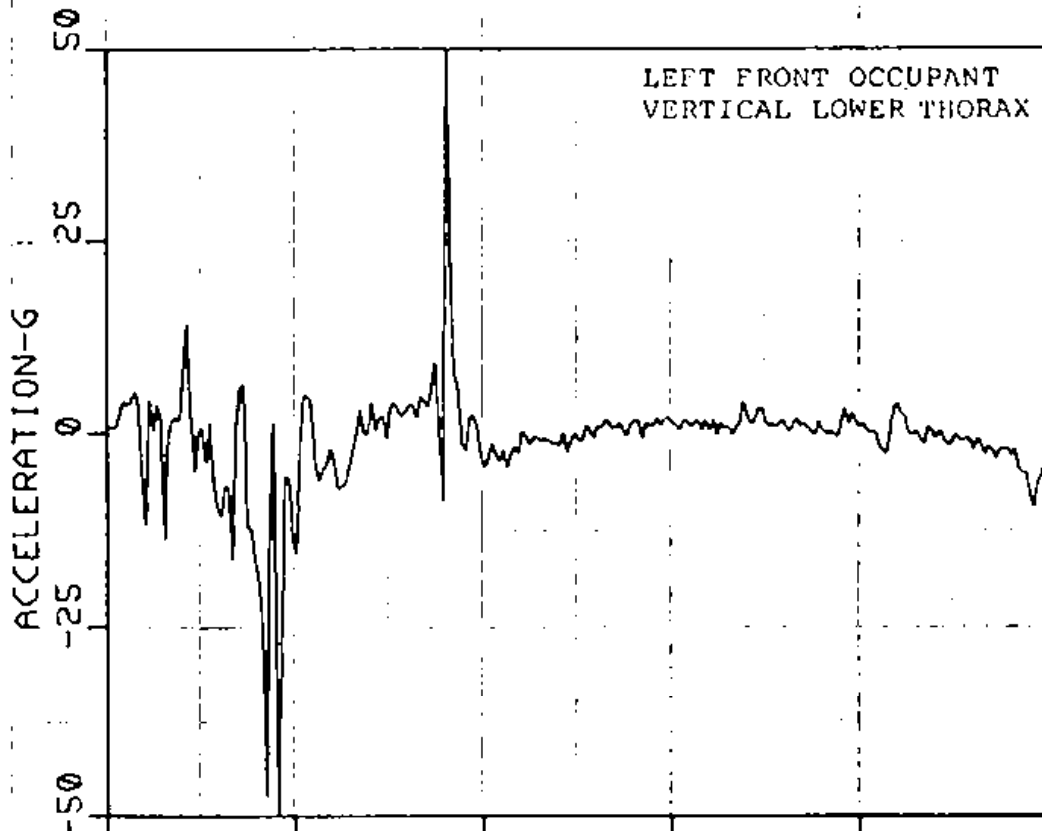
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TEST#8327-6.1 VW RABBIT LF 2RSY

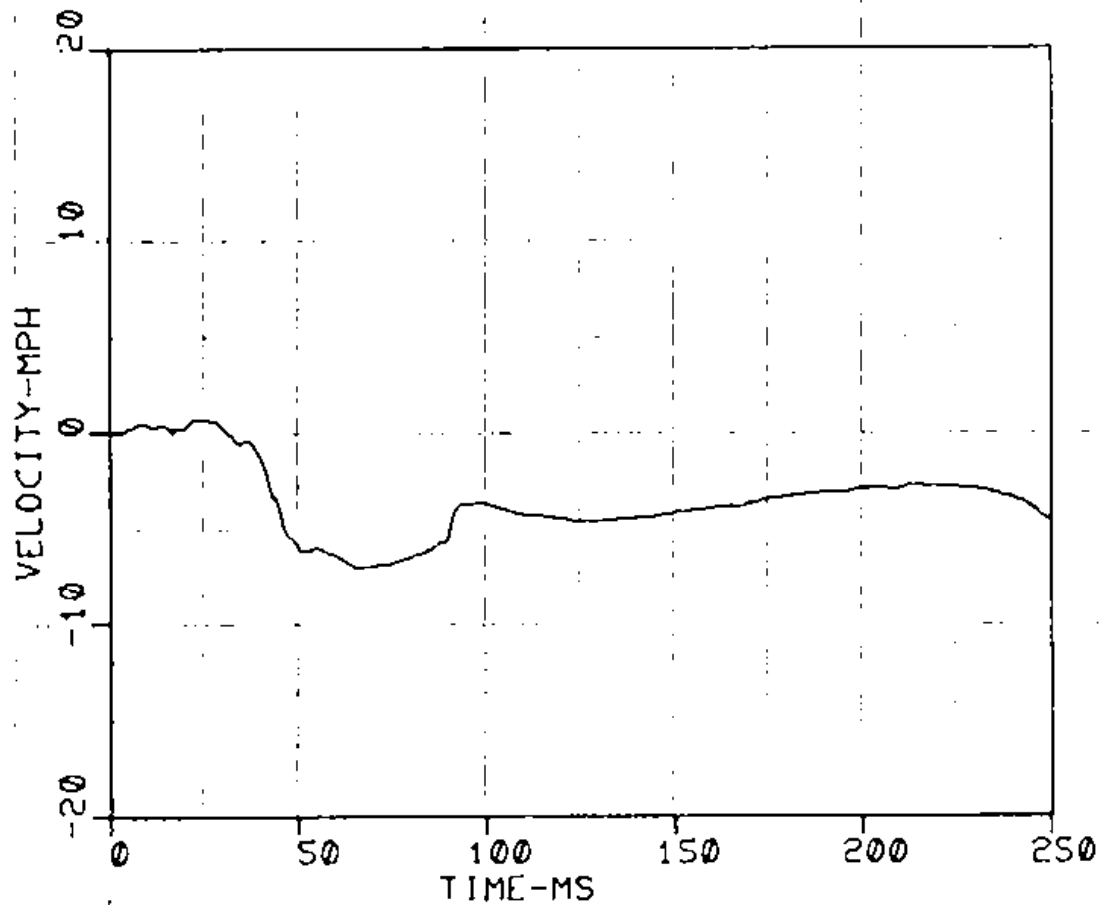


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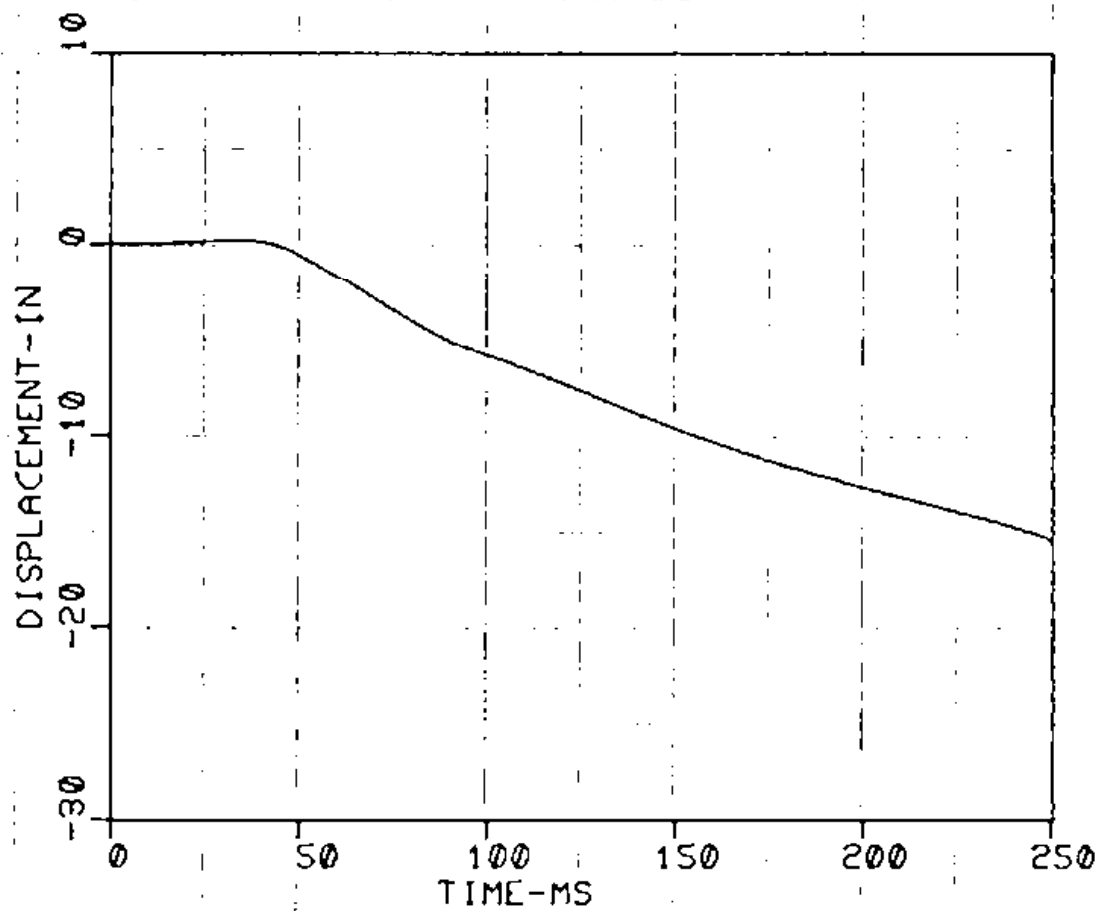
TEST#8327-6.1 VW RABBIT LF 21GZ



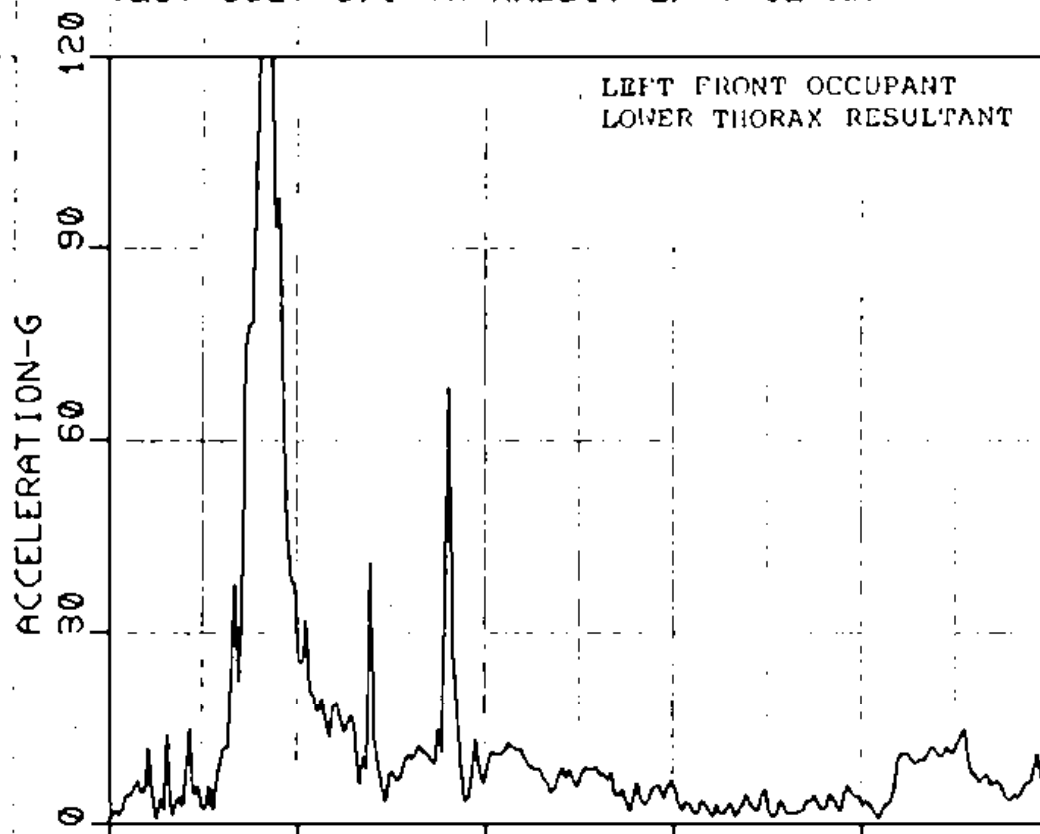
TEST#8327-6.1 VW RABBIT LF 21VZ



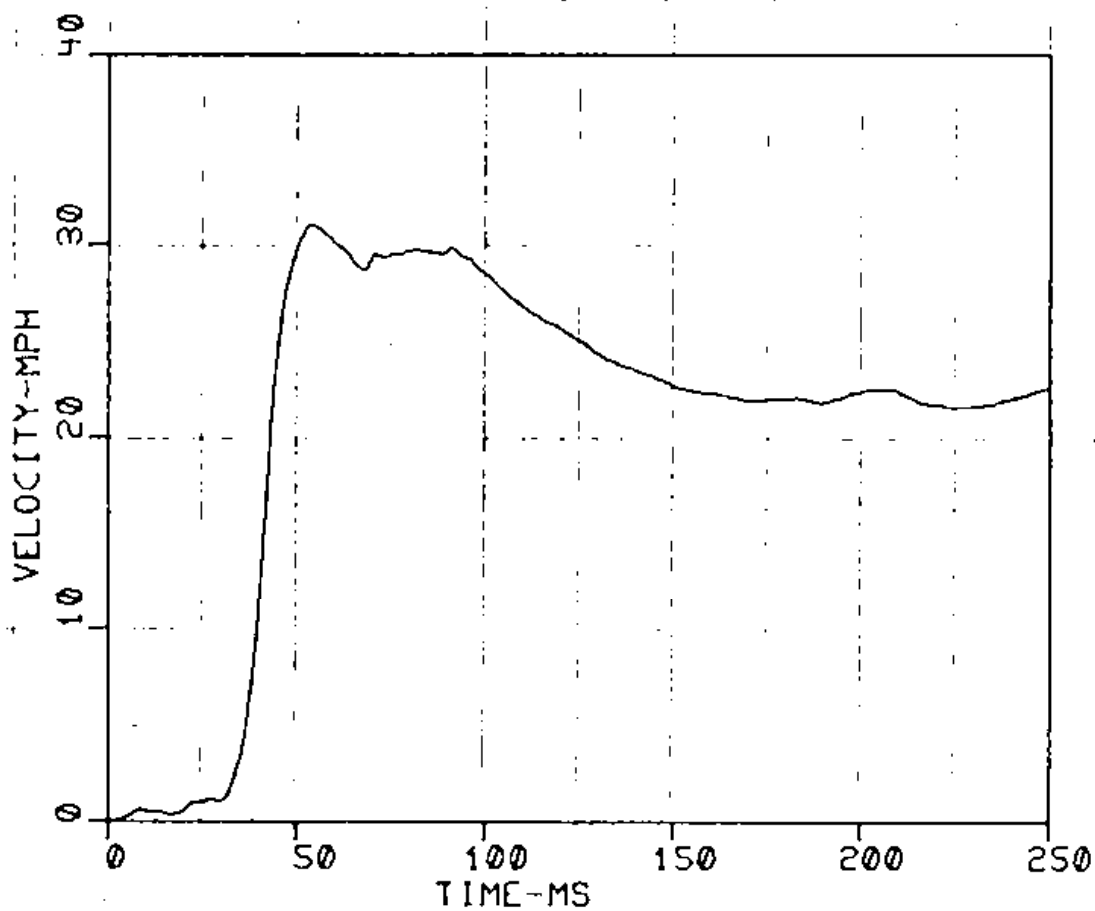
TEST#8327-6.1 VW RABBIT 2ISZ



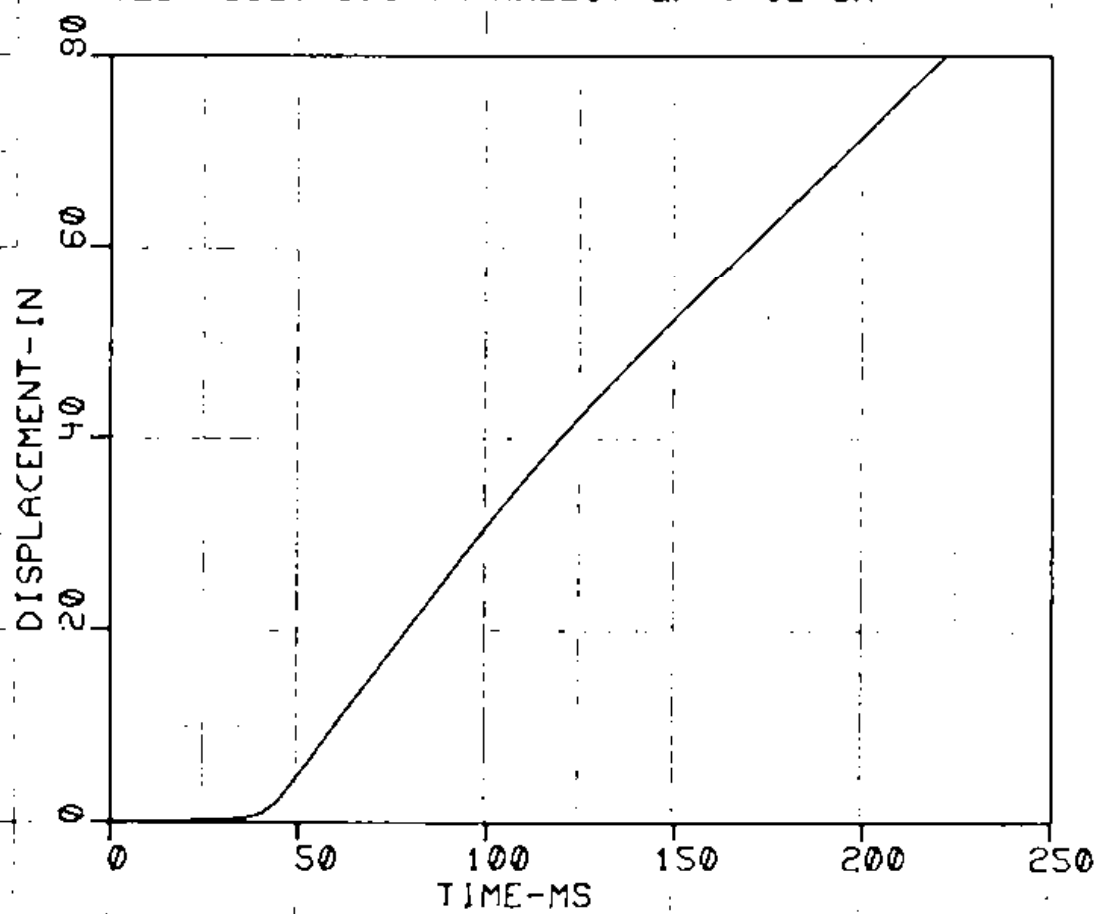
TEST#8327-6.1 VW RABBIT LF T-12 AR



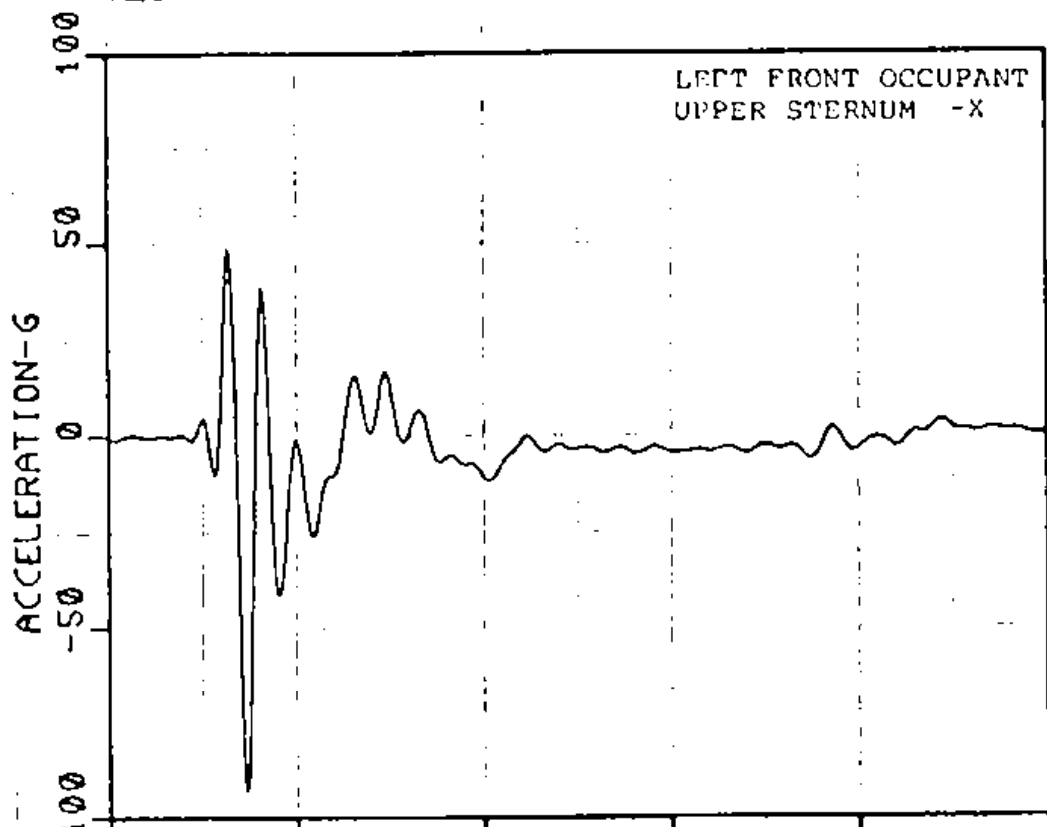
TEST#8327-6.1 VW RABBIT LF T-12 VR



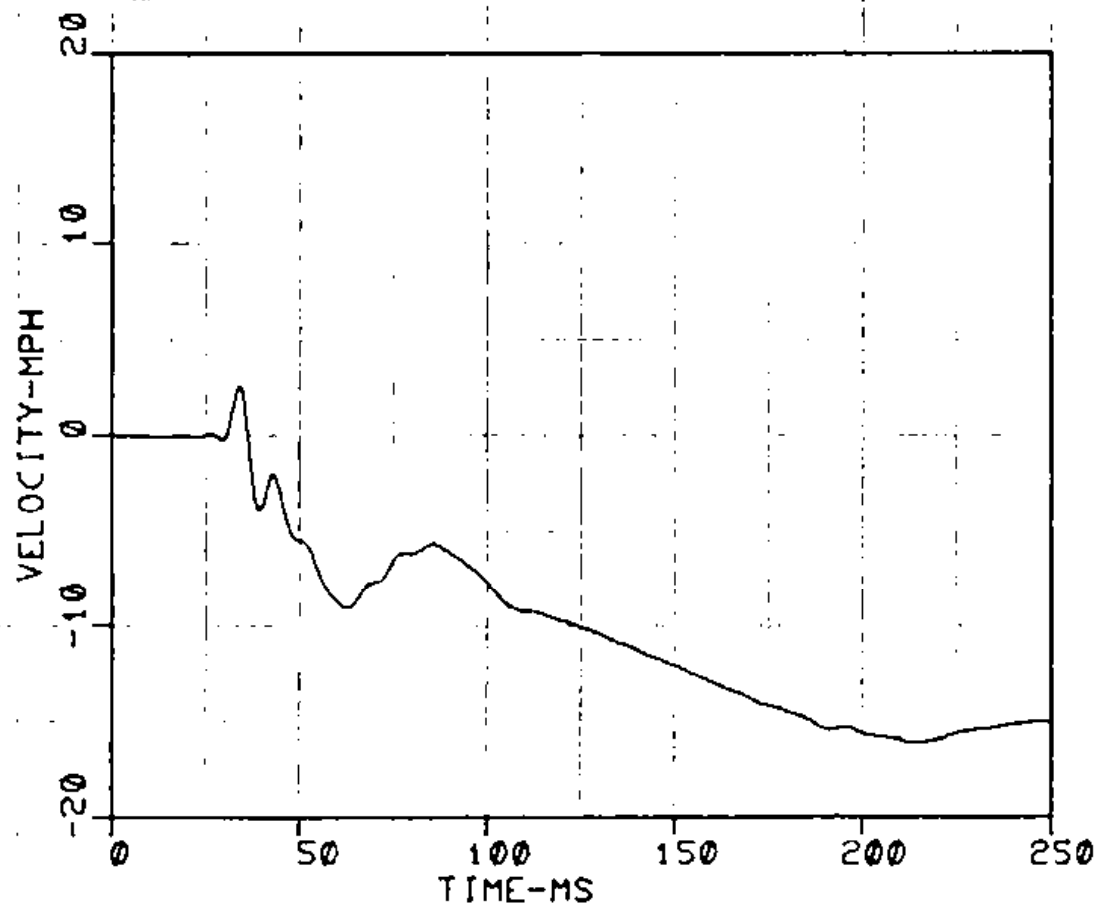
TEST#8327-6.1 VW RABBIT LF T-12 SR



TEST#8327-6.1 VW RABBIT LF USGX

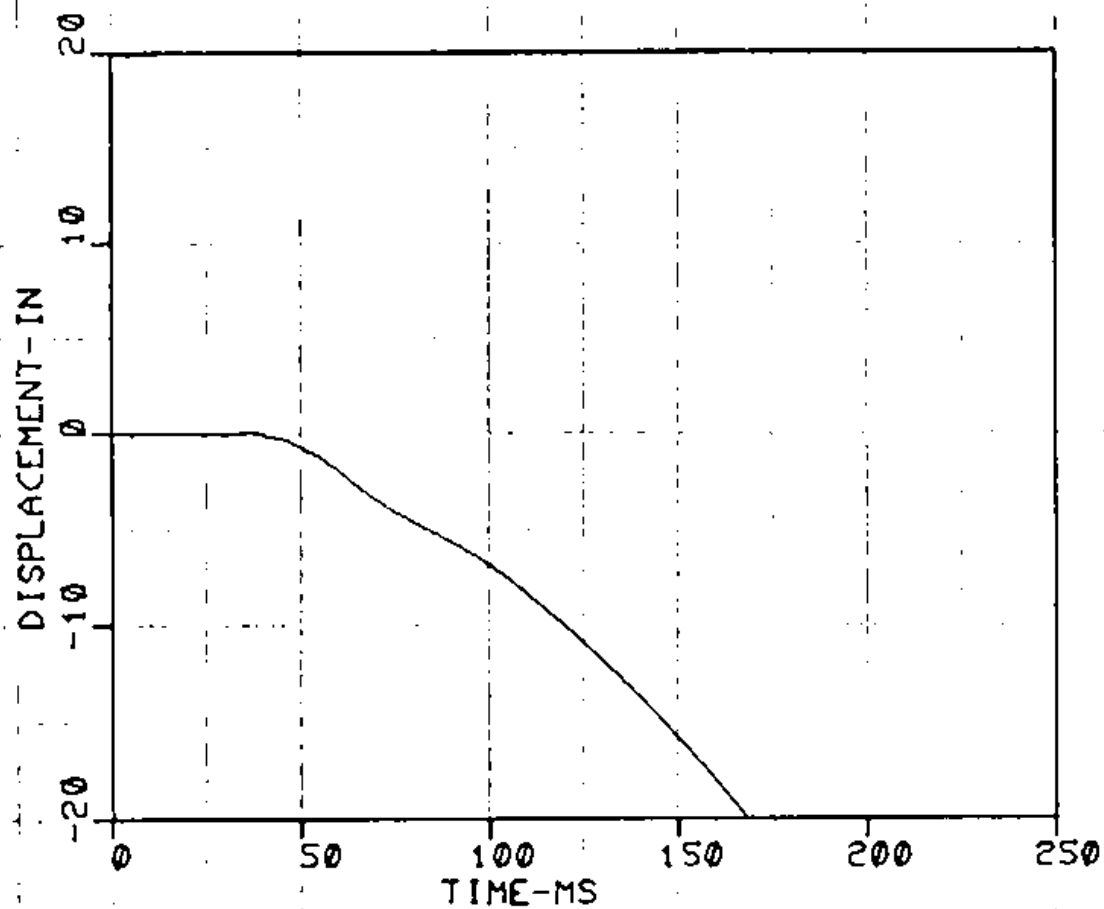


TEST#8327-6.1 VW RABBIT LF USVX

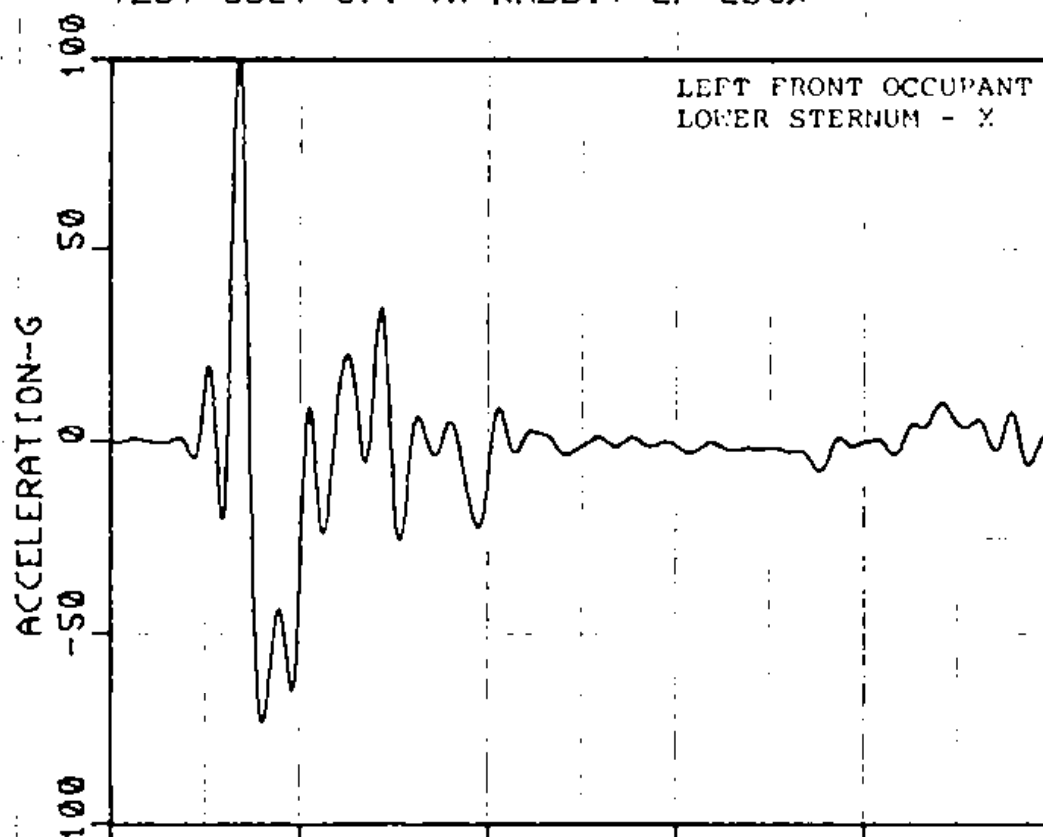


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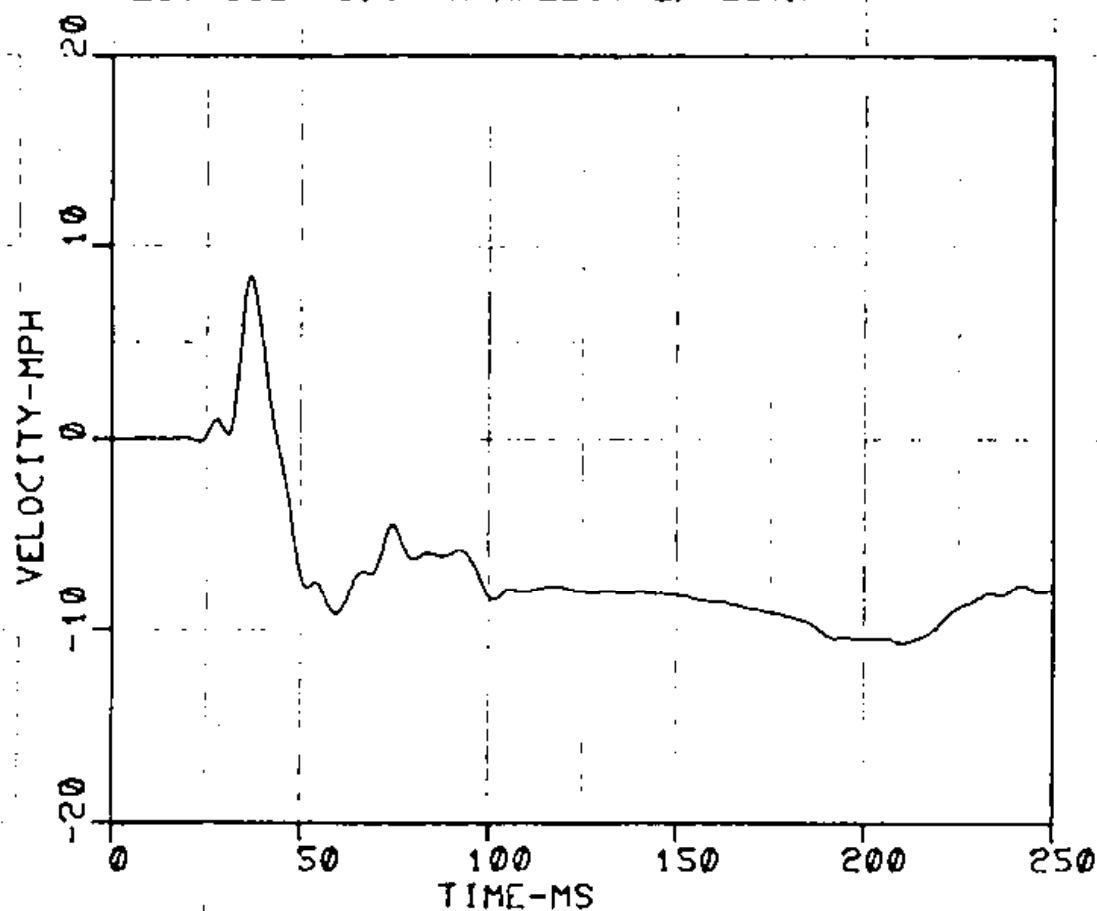
TEST#8327-6.1 VW RABBIT LF USSX



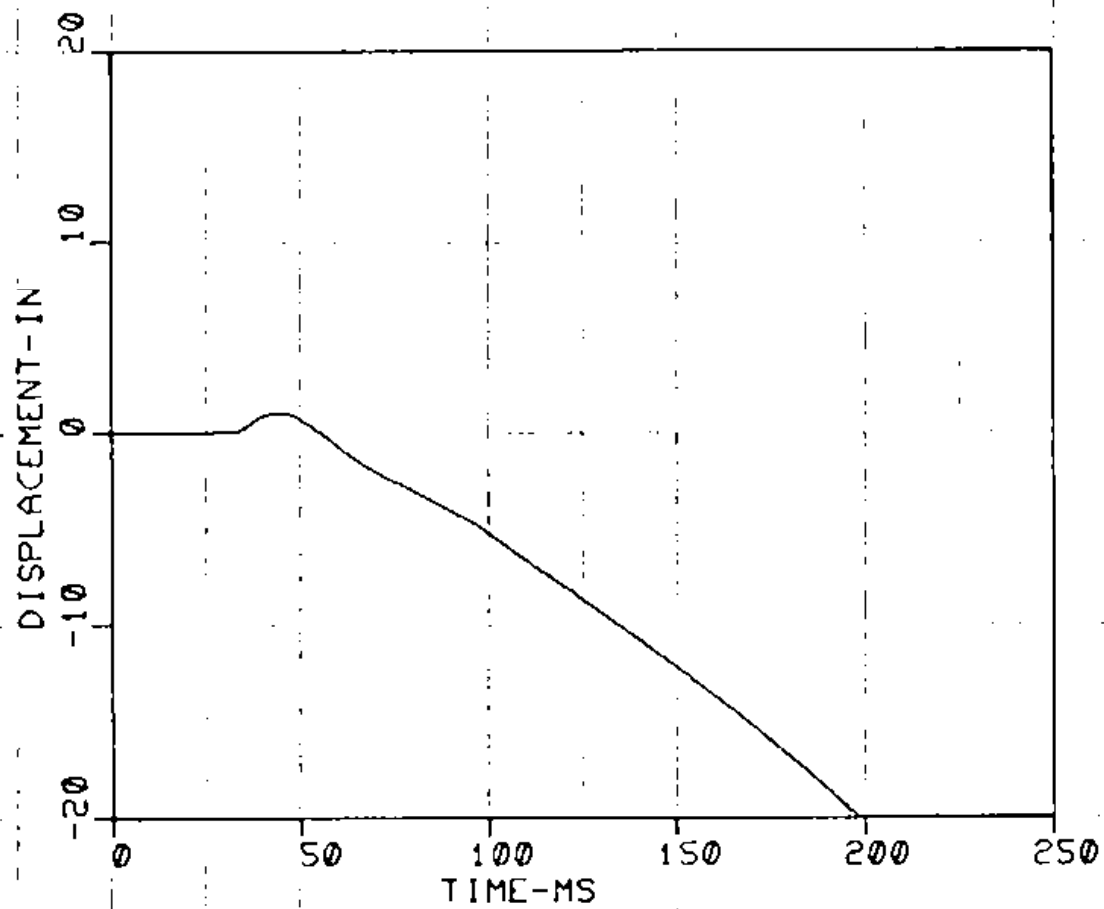
TEST#8327-6.1 VW RABBIT LF LSGX



TEST#8327-6.1 VW RABBIT LF LSVX

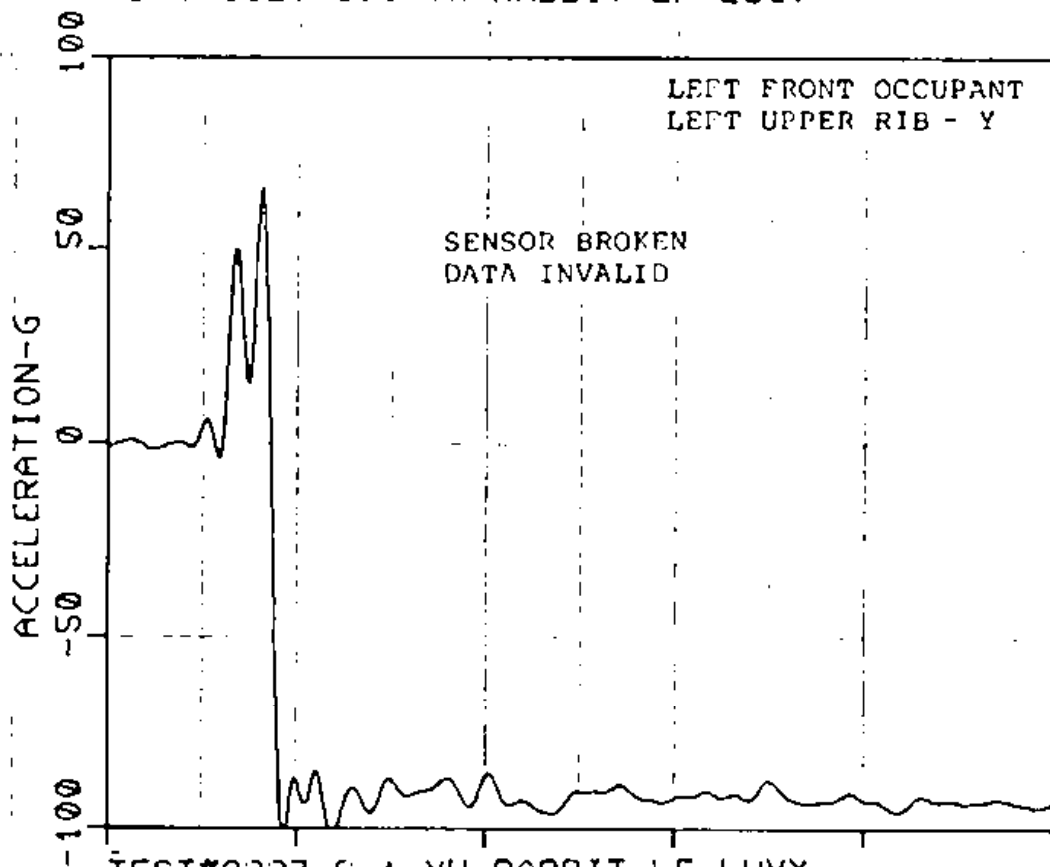


TEST#8327-6.1 VW RABBIT LF LSSX

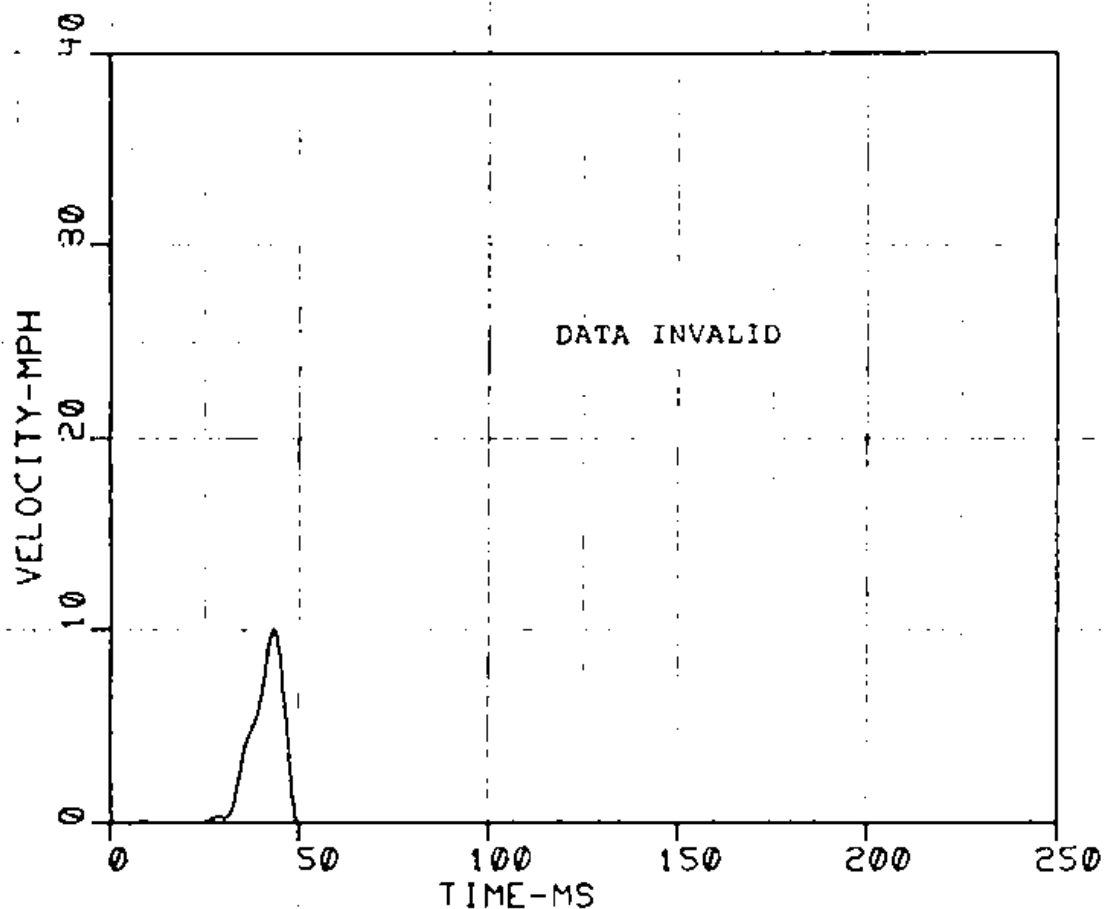


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TEST#8327-6.1 VW RABBIT LF LUGY

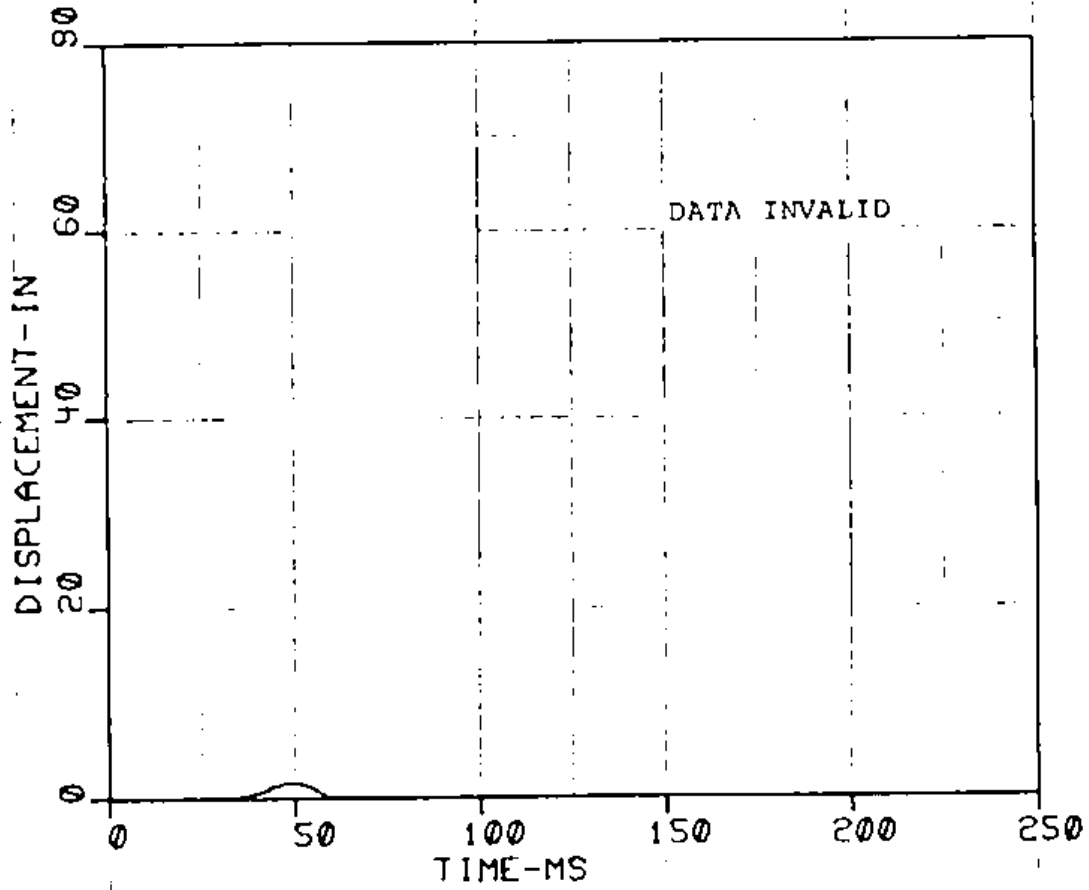


TEST#8327-6.1 VW RABBIT LF LUVY

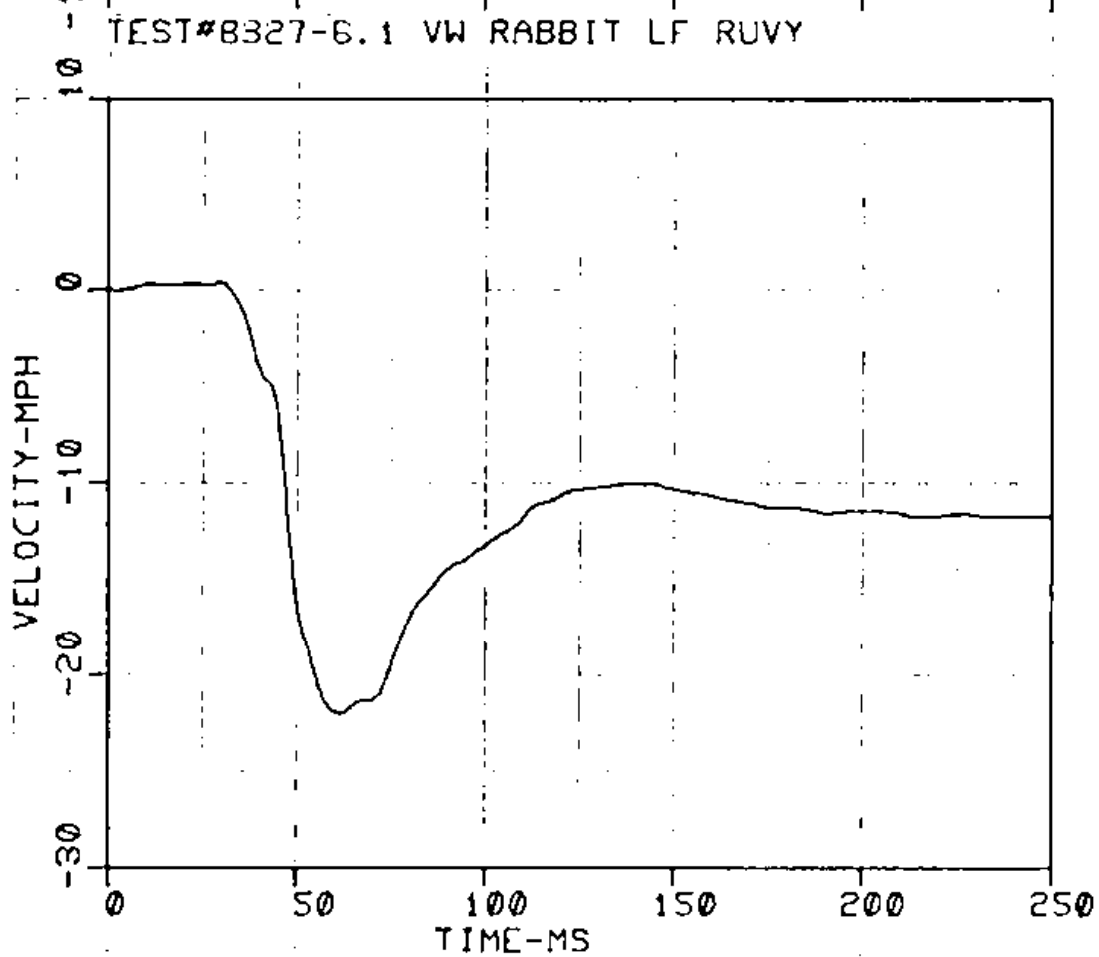
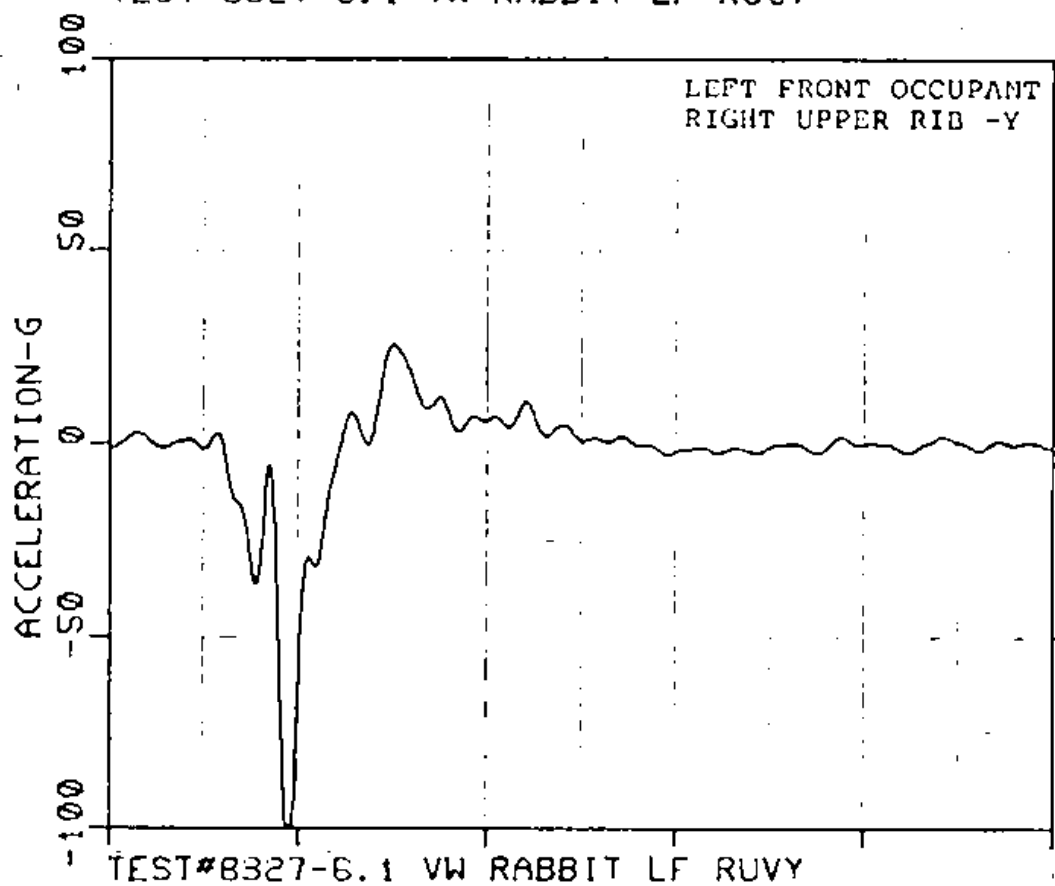


LF

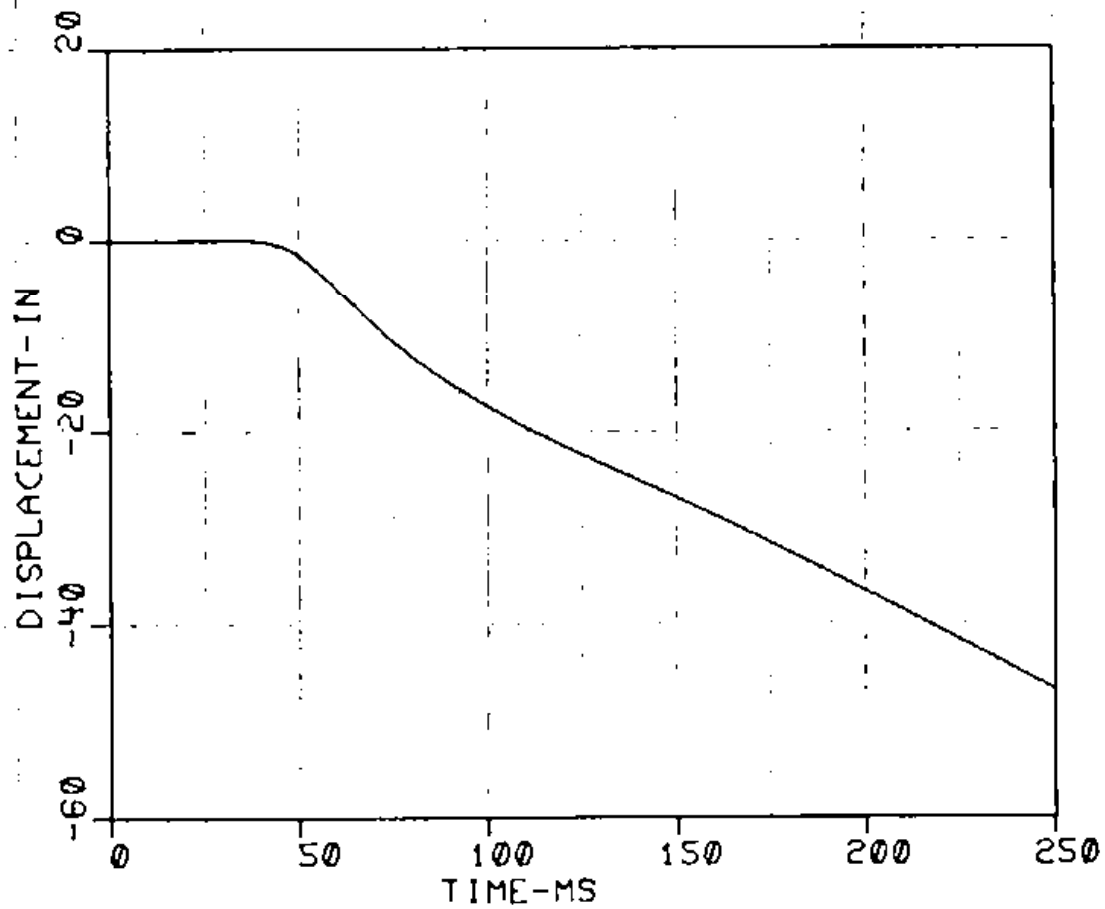
TEST#8327-6.1 VW RABBIT LUSY



TEST#8327-6.1 VW RABBIT LF RUGY

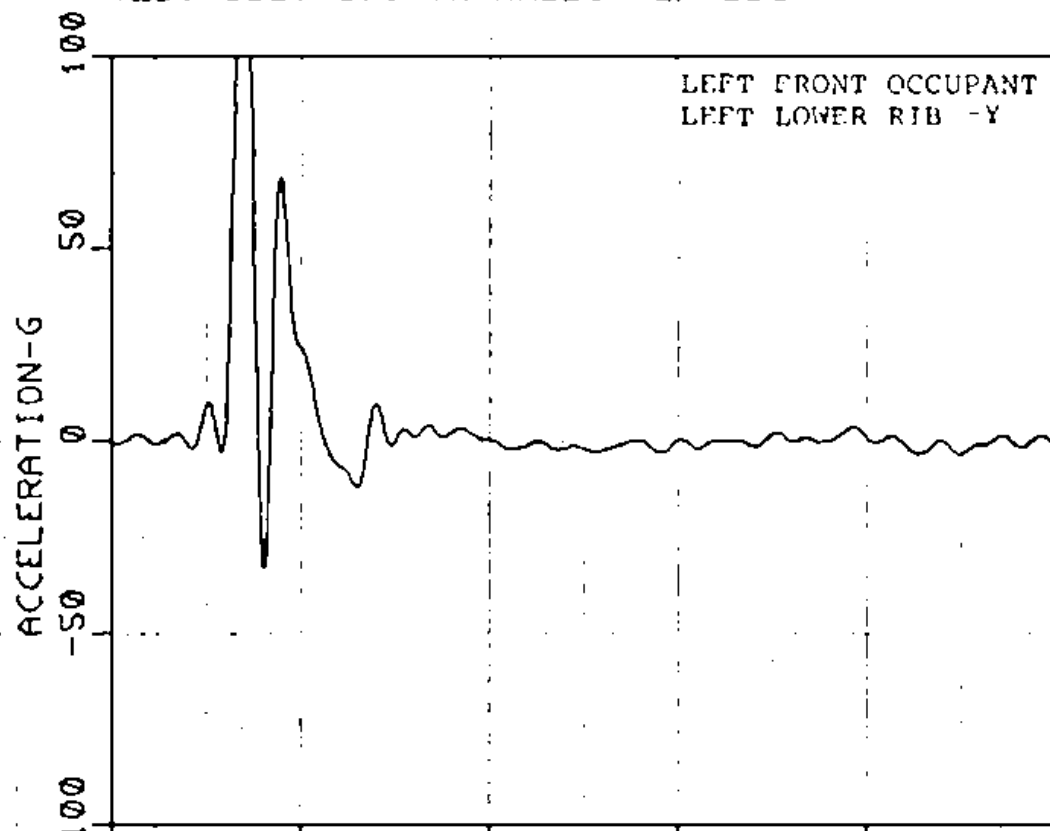


TEST#8327-6.1 VW RABBIT LF RUSY

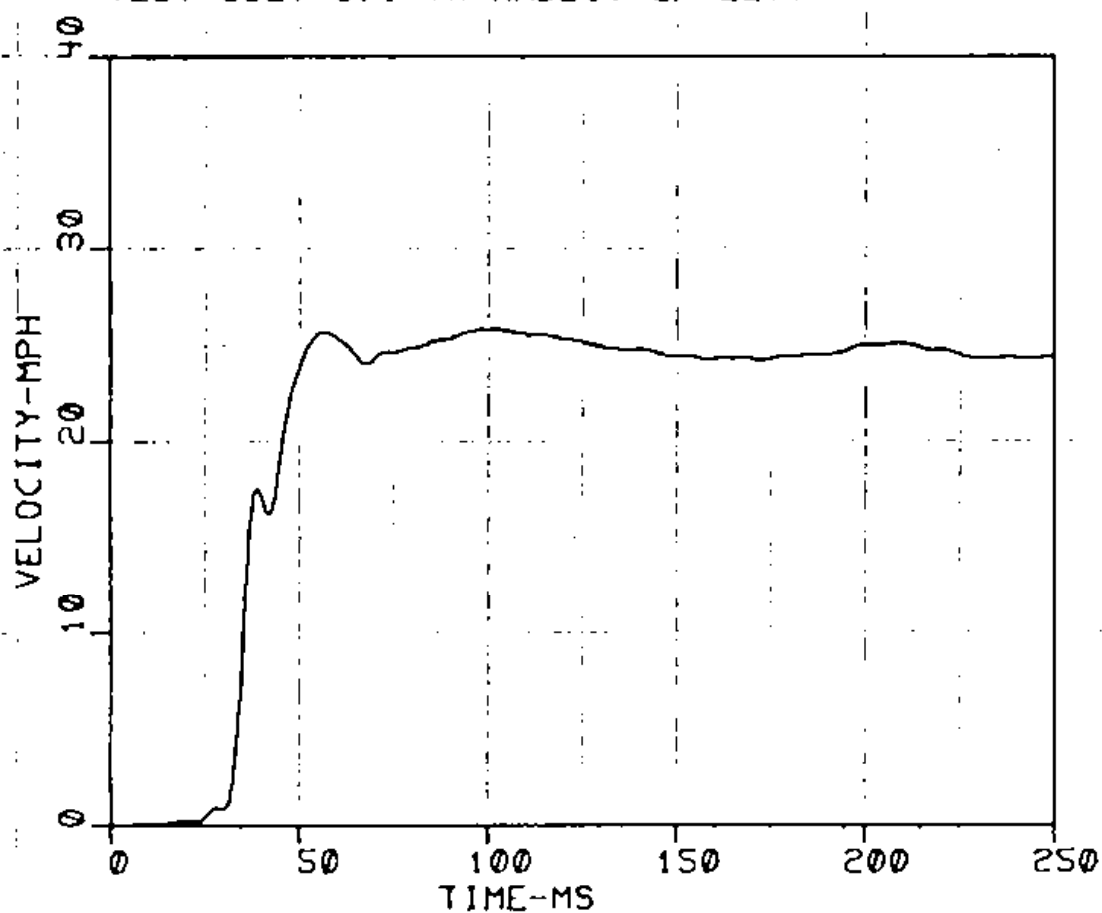


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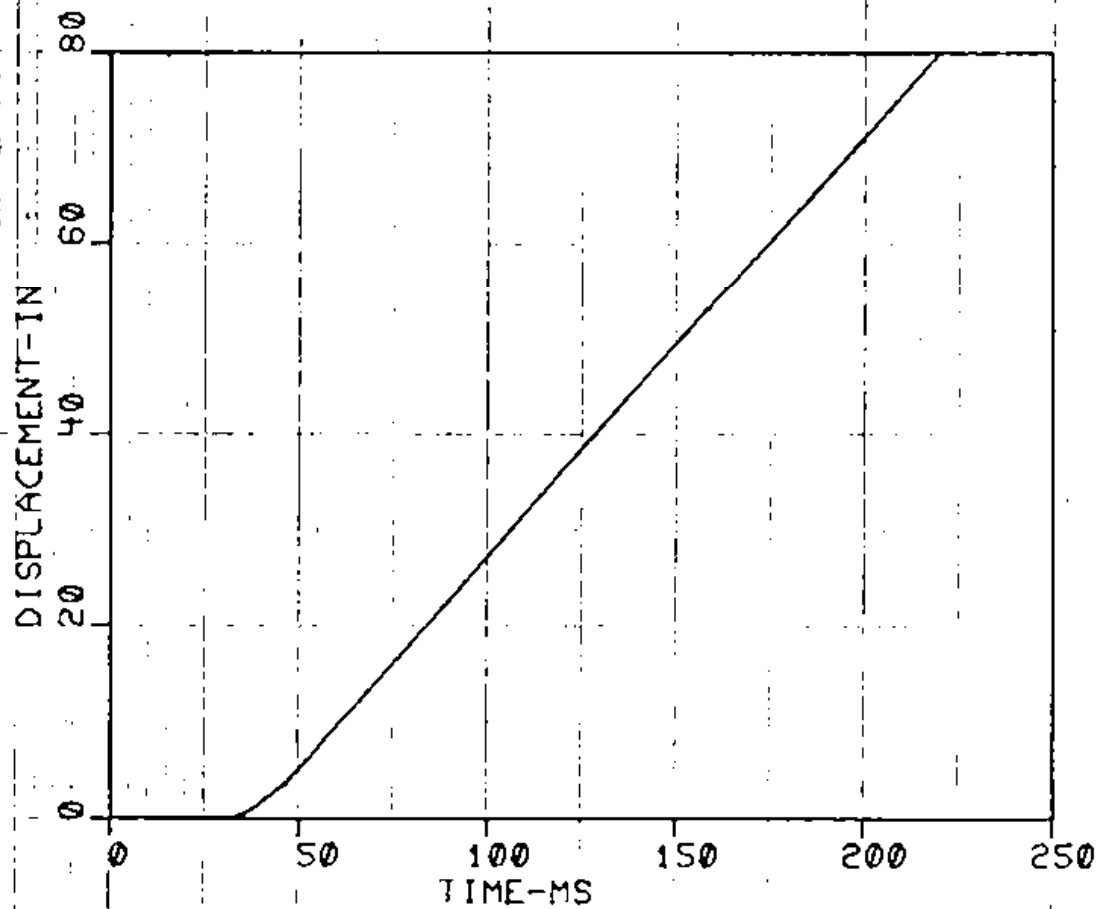
TEST#8327-6.1 VW RABBIT LF LLGY



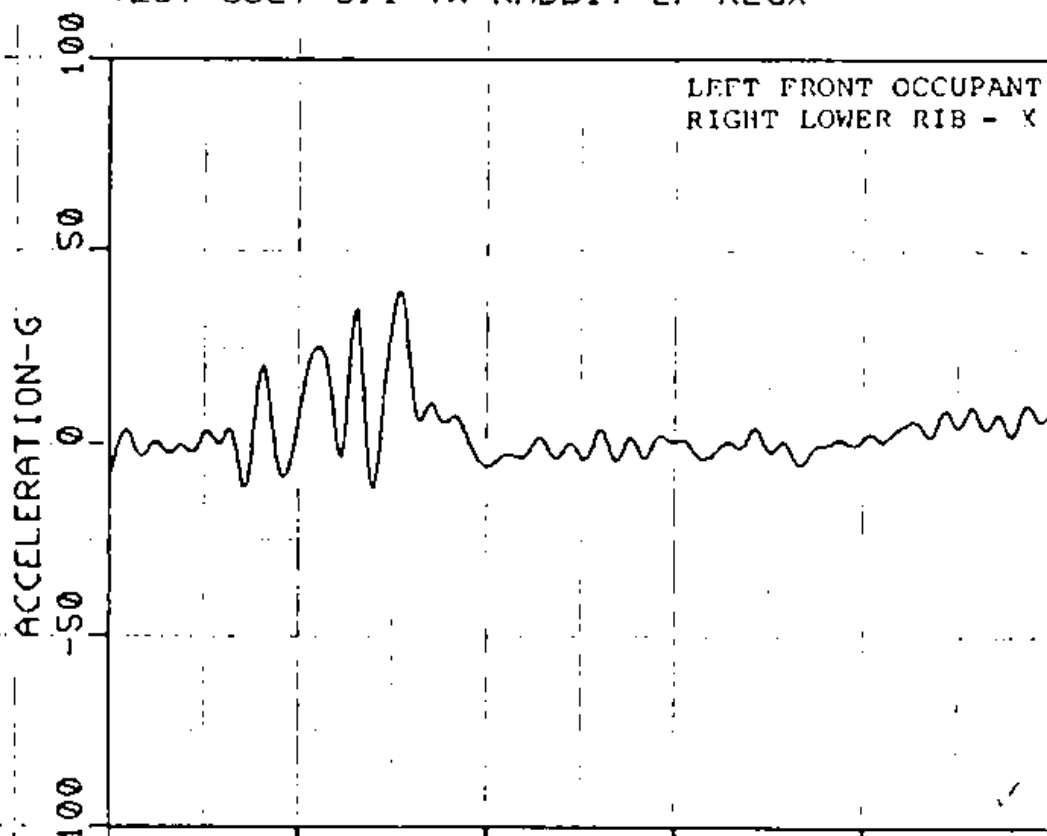
TEST#8327-6.1 VW RABBIT LF LLVY



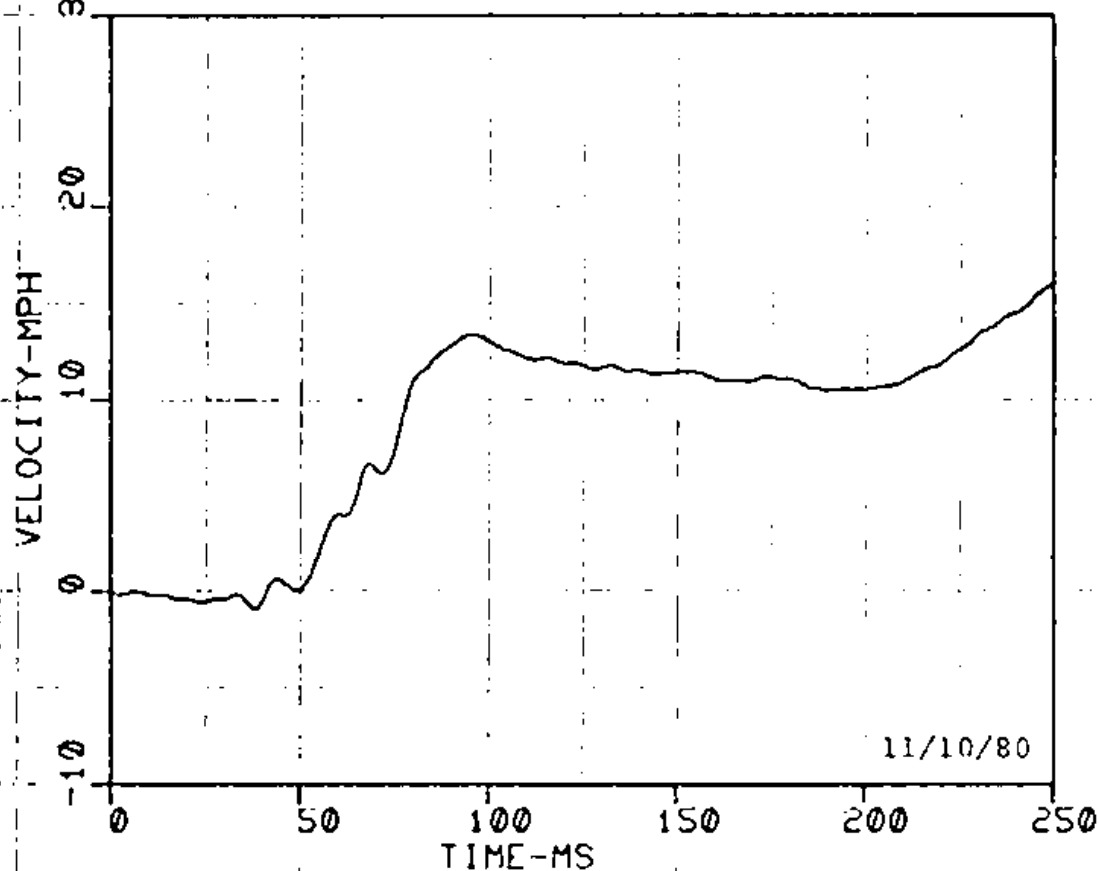
TEST#8327-6.1 VW RABBIT LF LLSY



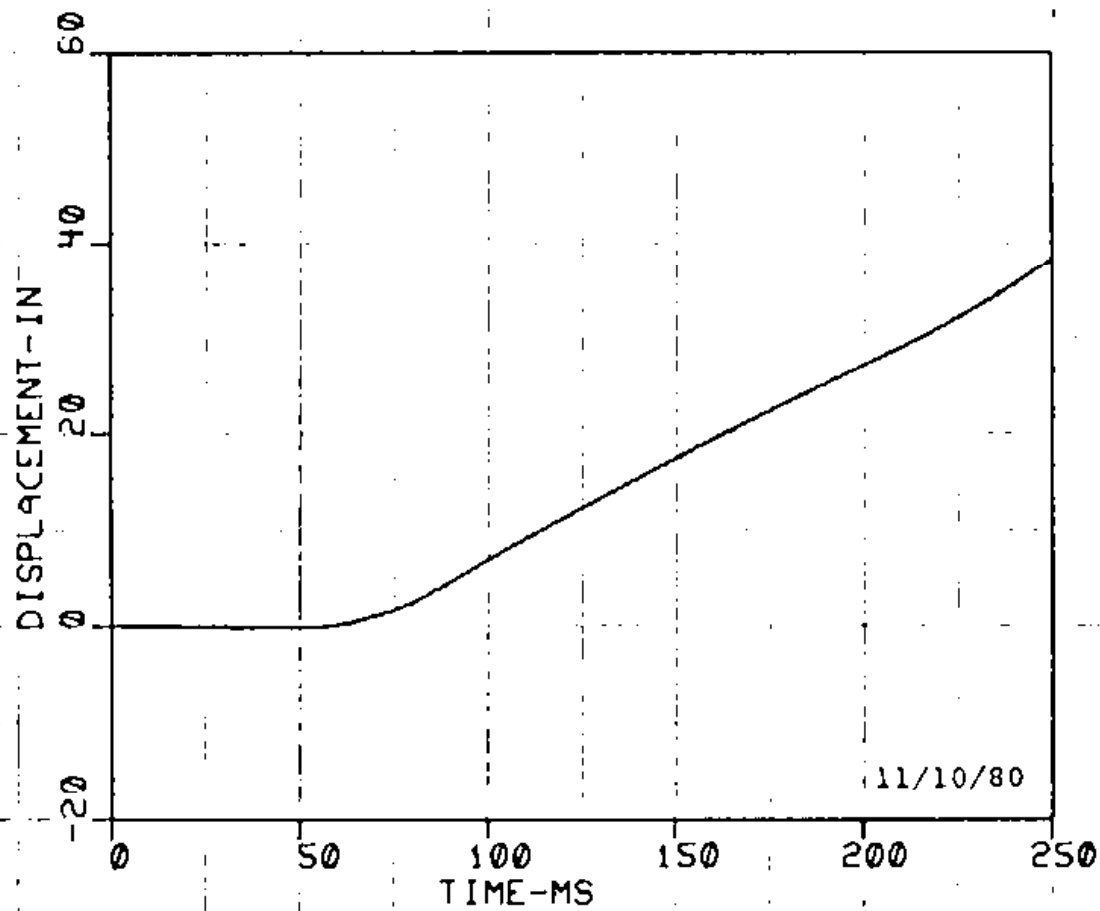
TEST#8327-6.1 VW RABBIT LF RLGX



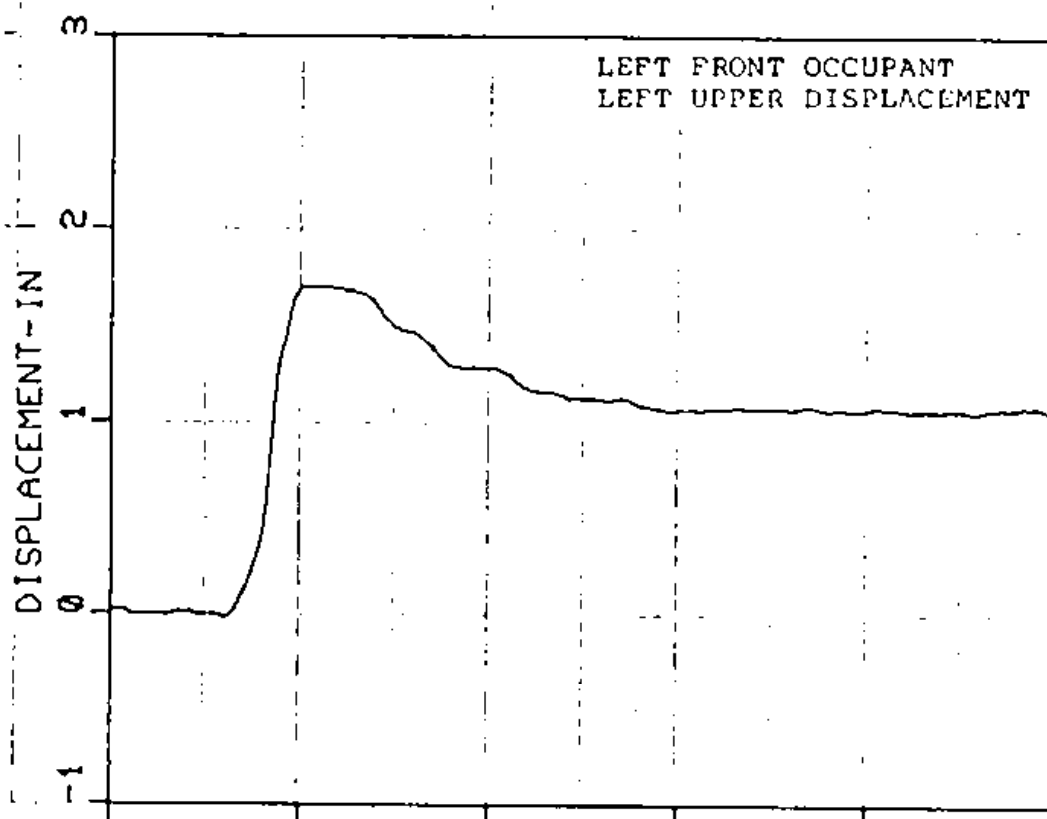
TEST#8327-6.1 VW RABBIT LF RLVX



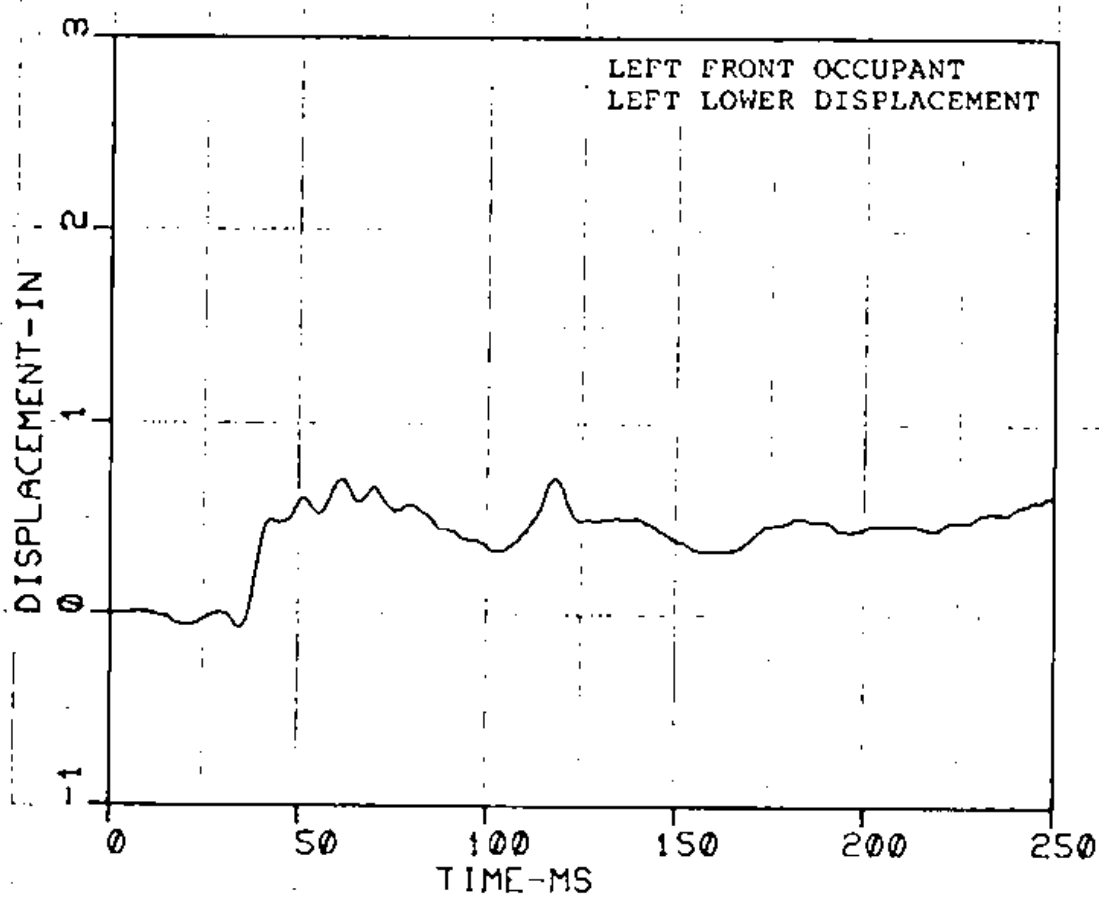
TEST#8327-6.1 VW RABBIT LF RLSX



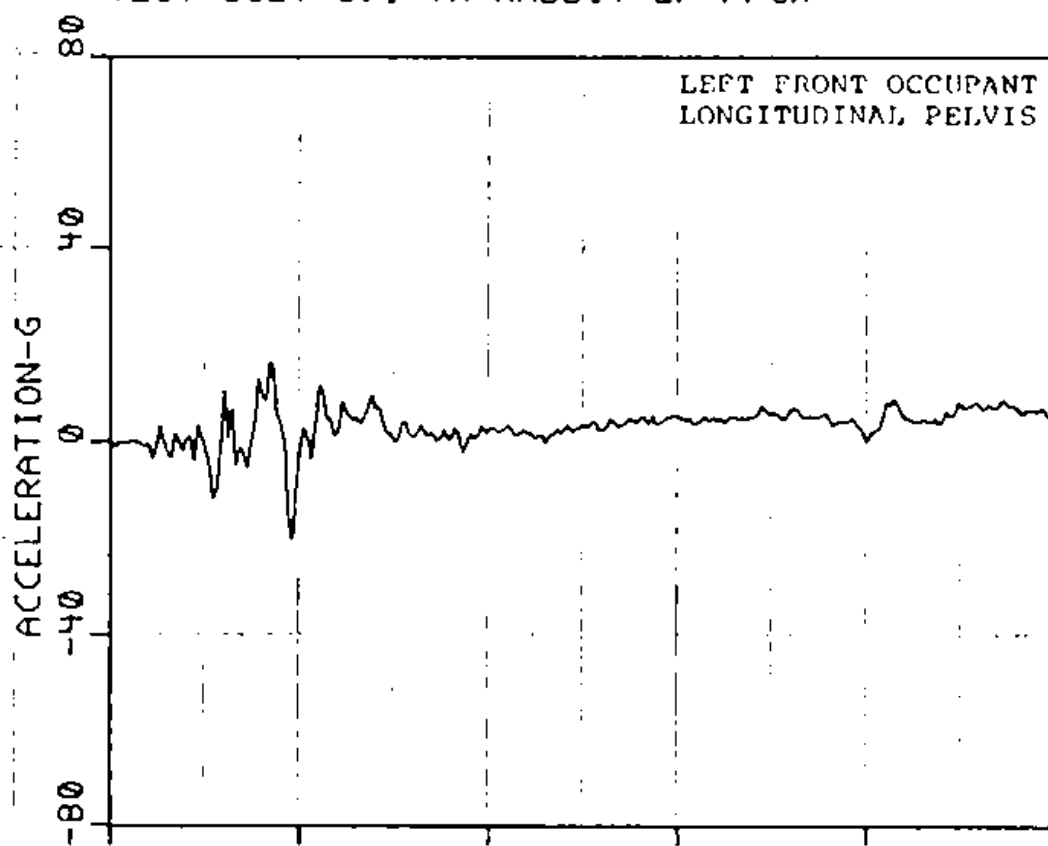
TEST#8327-6.1 VW RABBIT LF LUDY



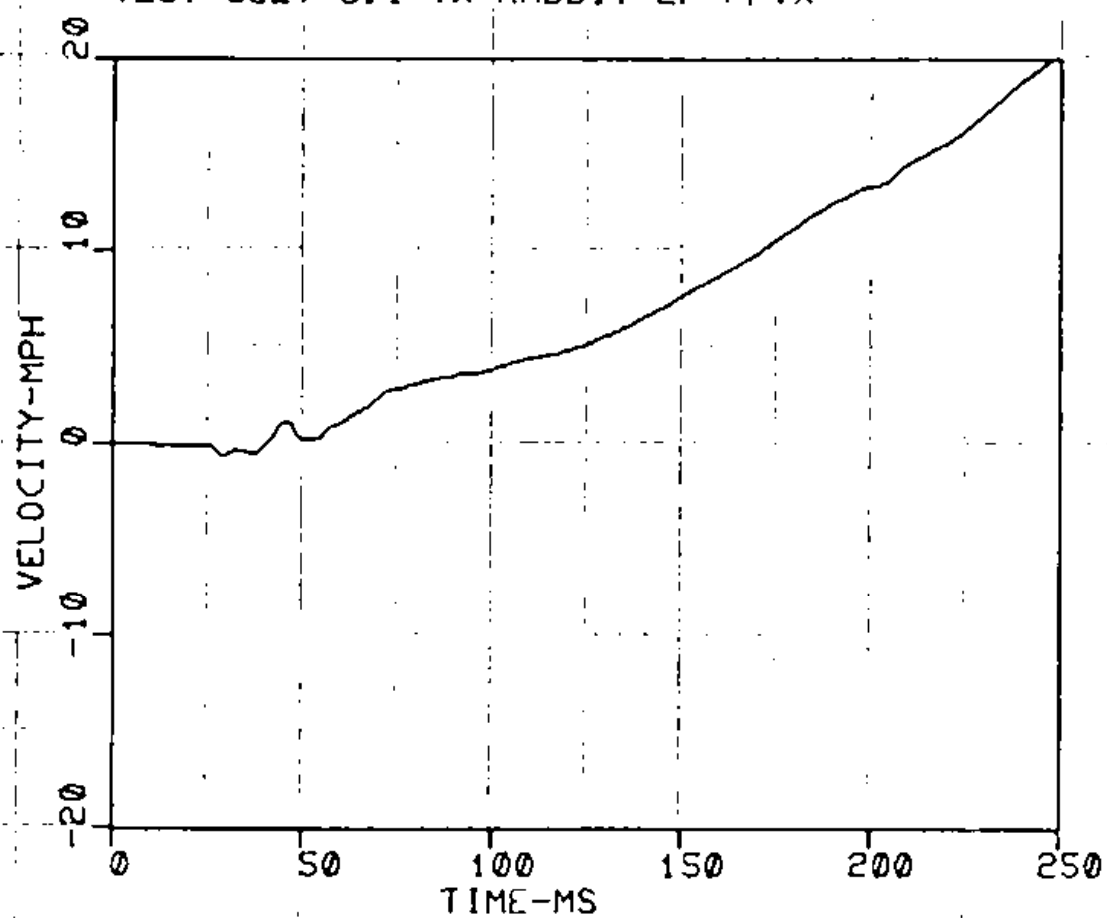
TEST#8327-6.1 VW RABBIT LF LLDY



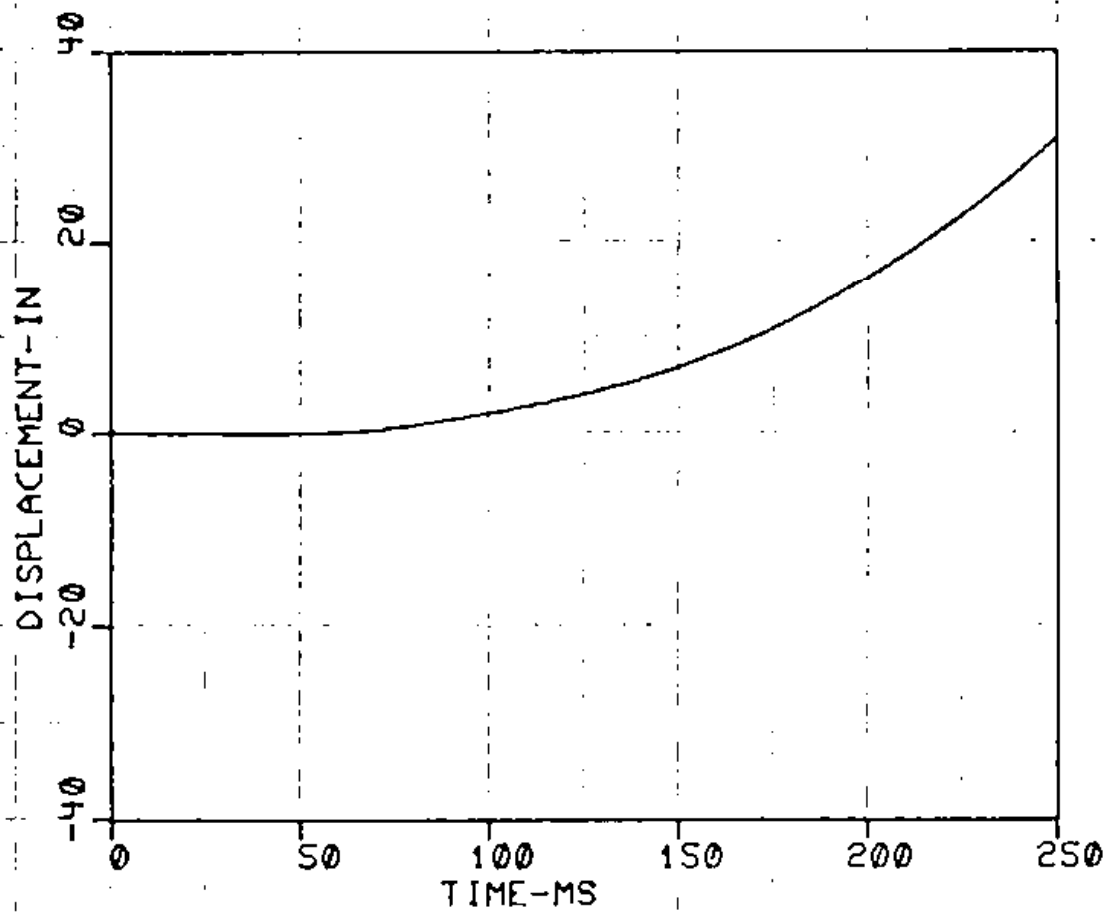
TEST#8327-6.1 VW RABBIT LF PPGX



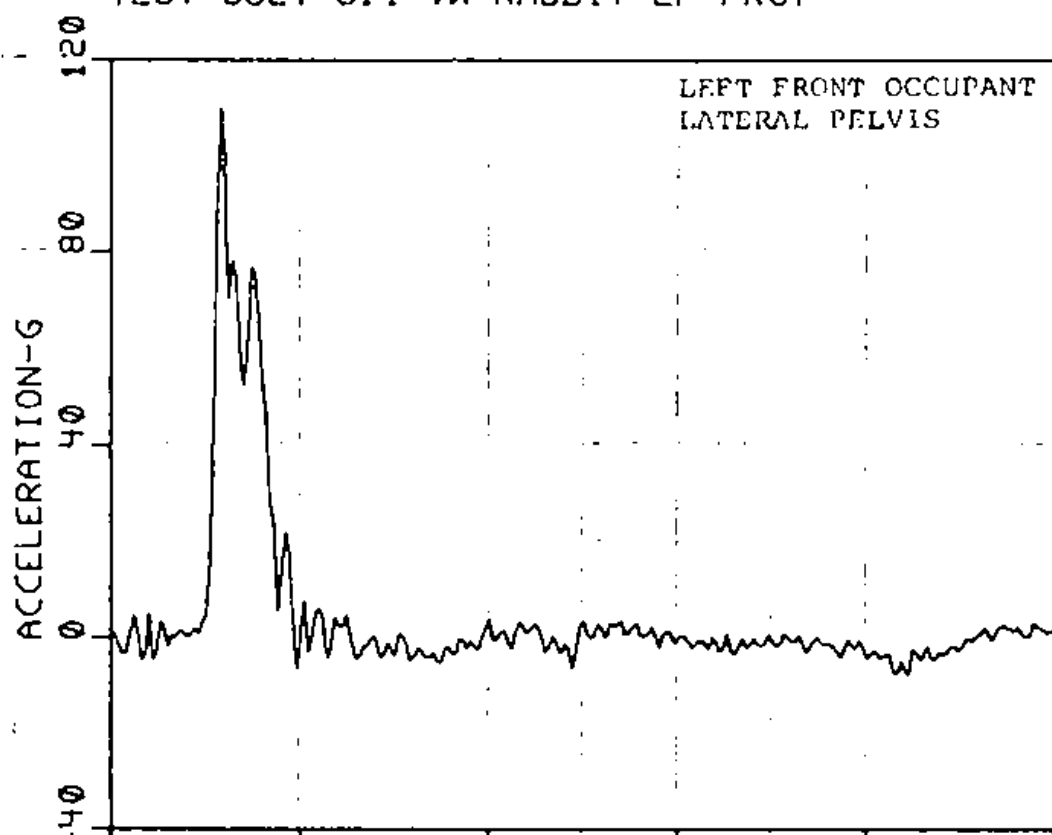
TEST#8327-6.1 VW RABBIT LF PPVX



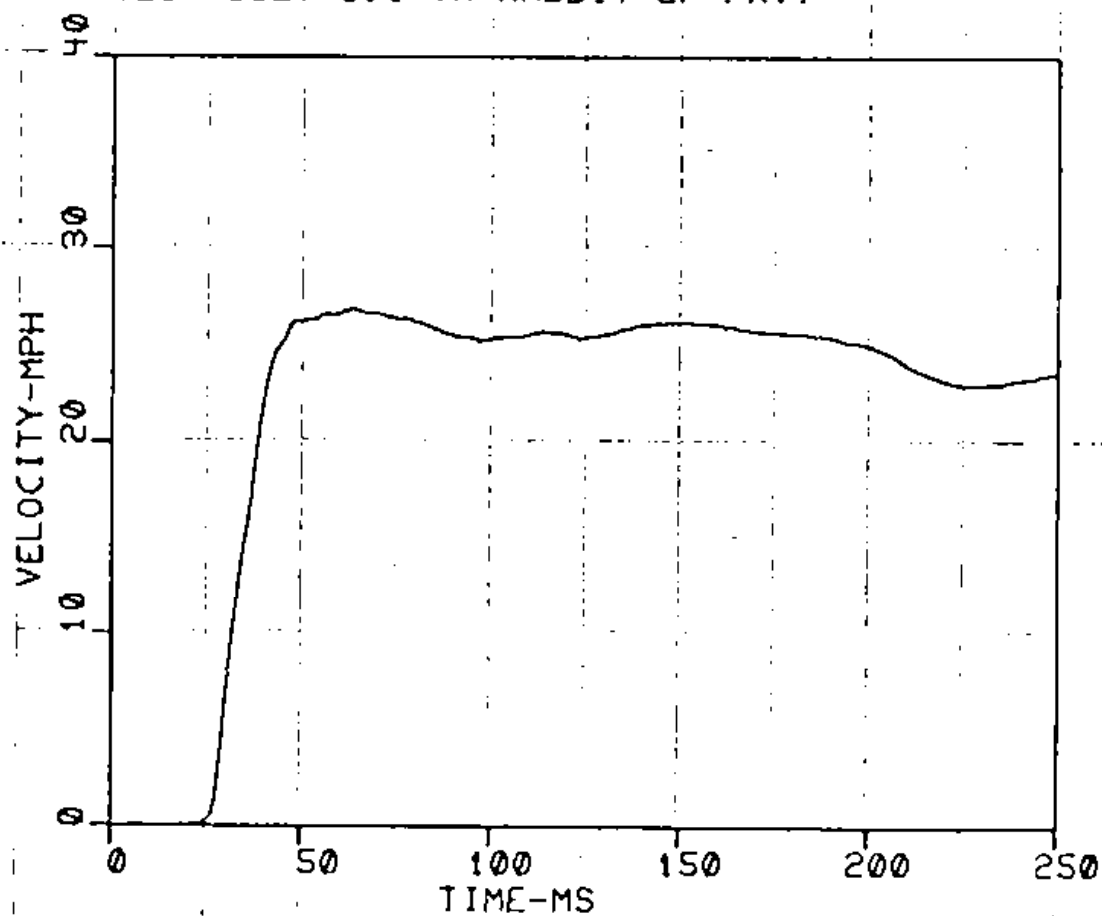
TEST#8327-6.1 VW RABBIT LF PPSX



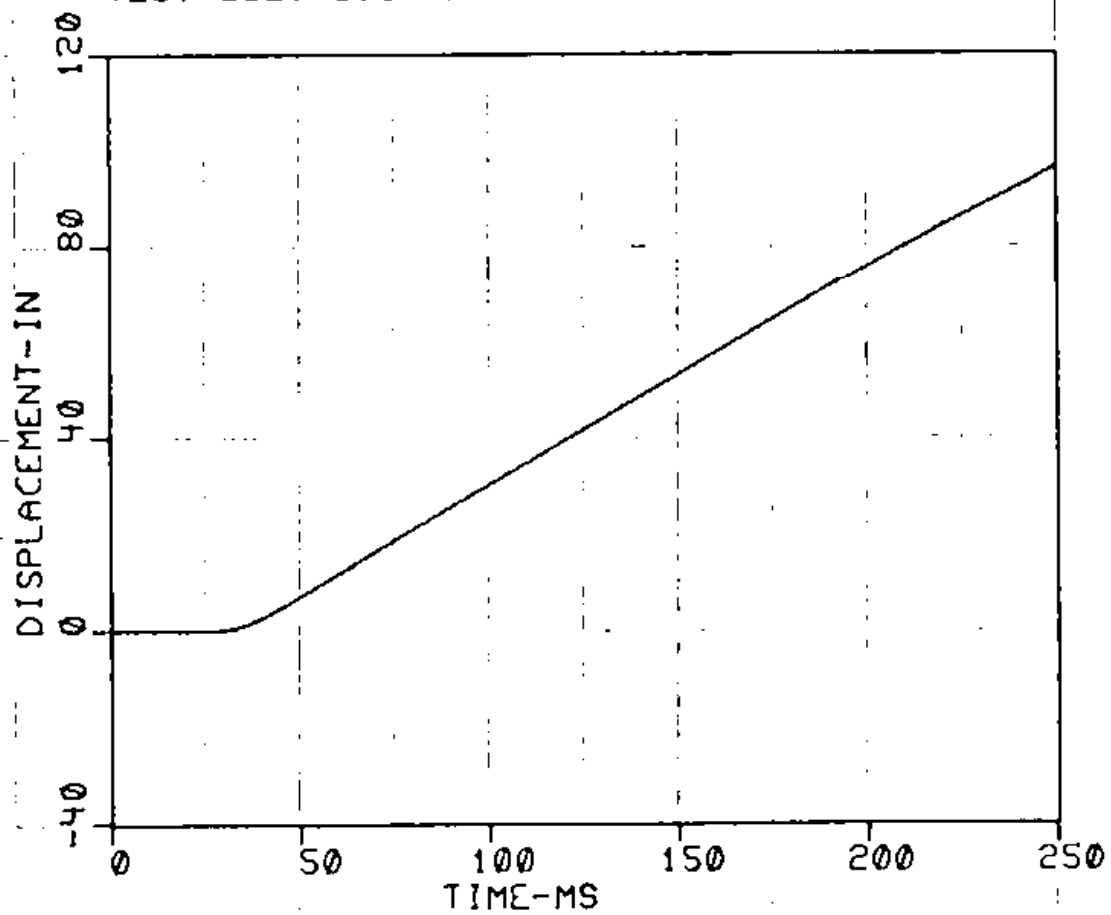
TEST#8327-6.1 VW RABBIT LF PRGY



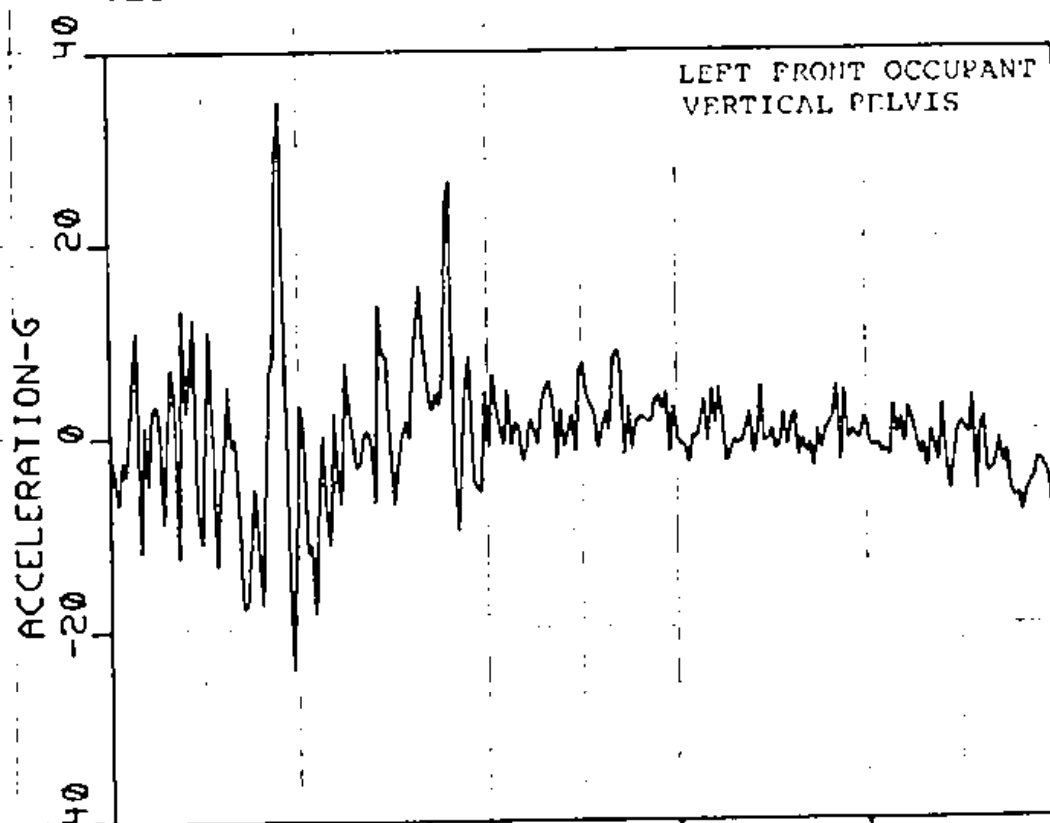
TEST#8327-6.1 VW RABBIT LF PRVY



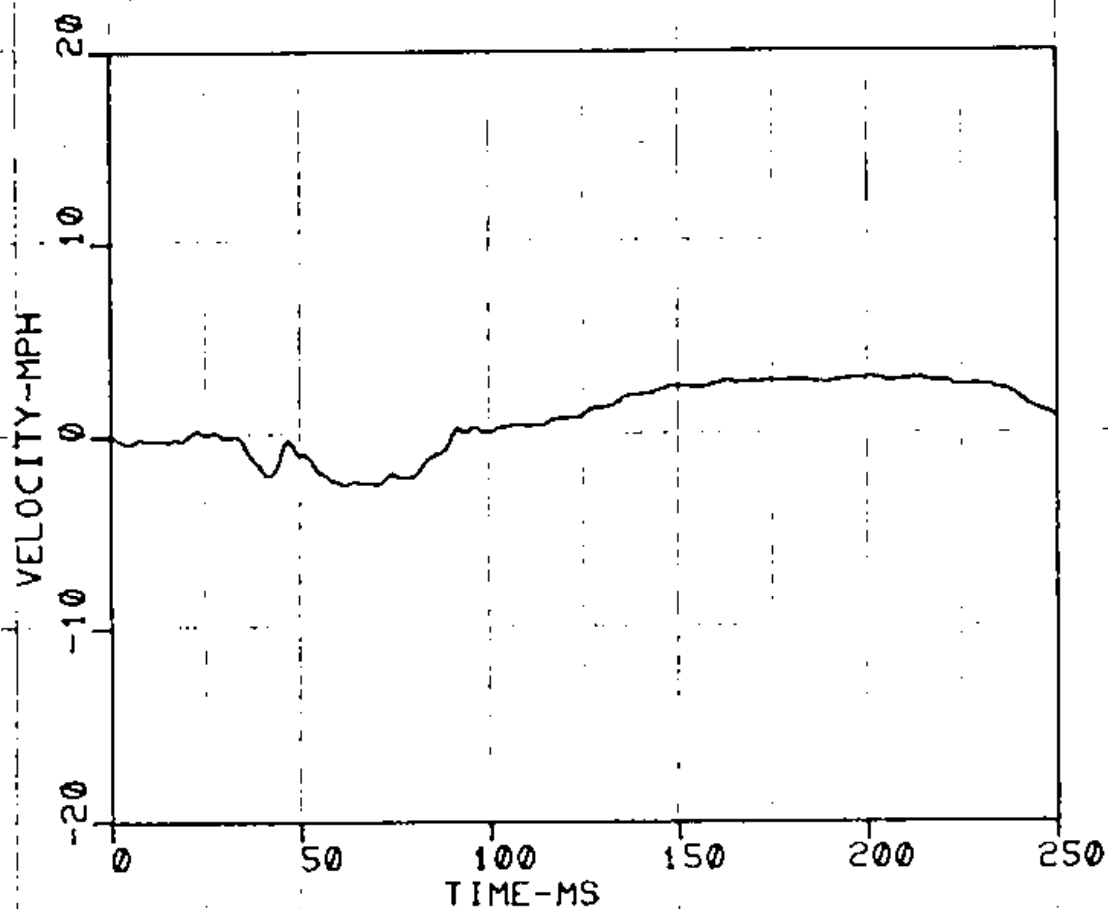
TEST#8327-6.1 VW RABBIT LF PRSY



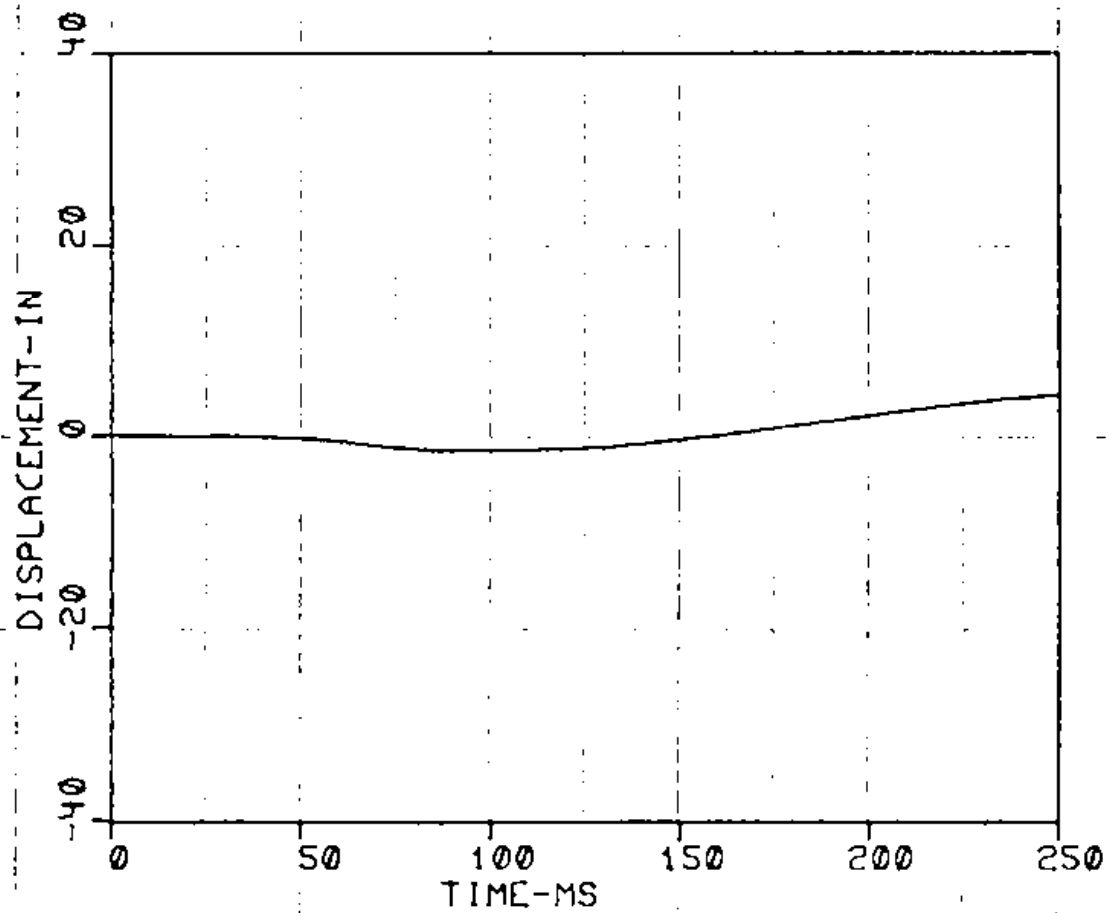
TEST#8327-6.1 VW RABBIT LF PIGZ



TEST#8327-6.1 VW RABBIT LF PIVZ

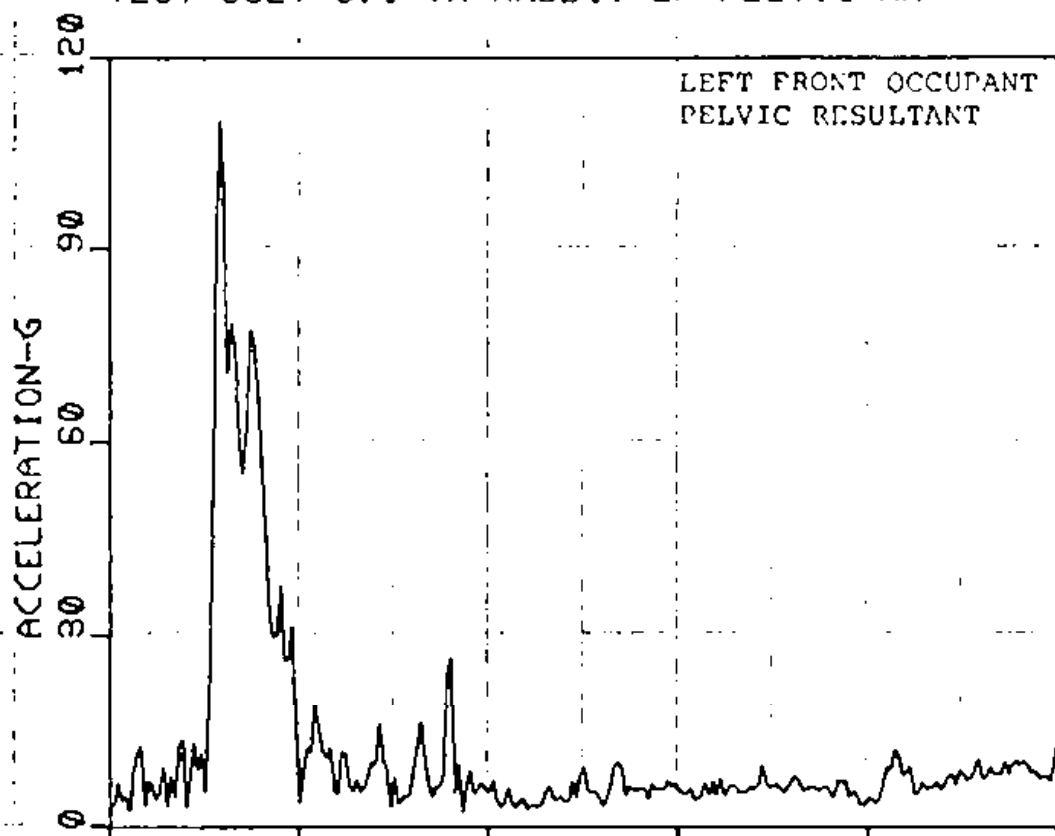


TEST#8327-6.1 VW RABBIT LF PISZ

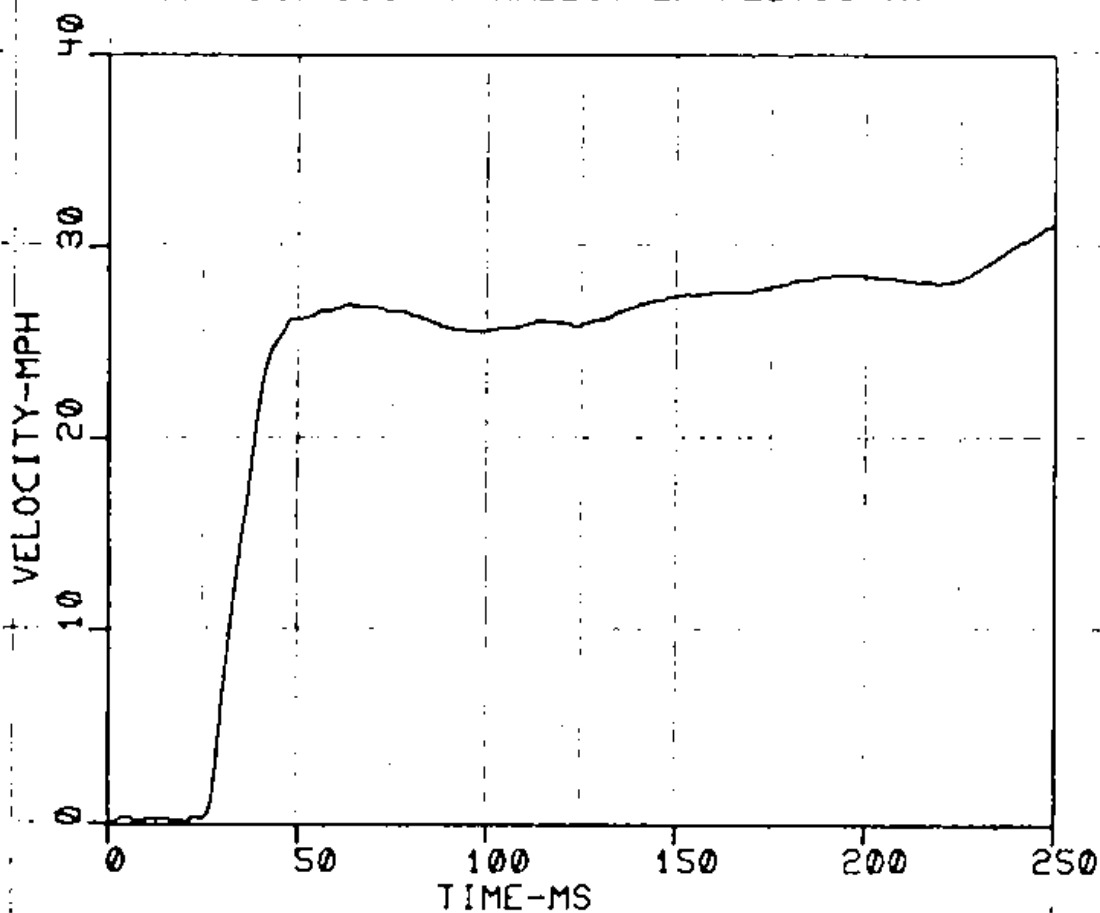


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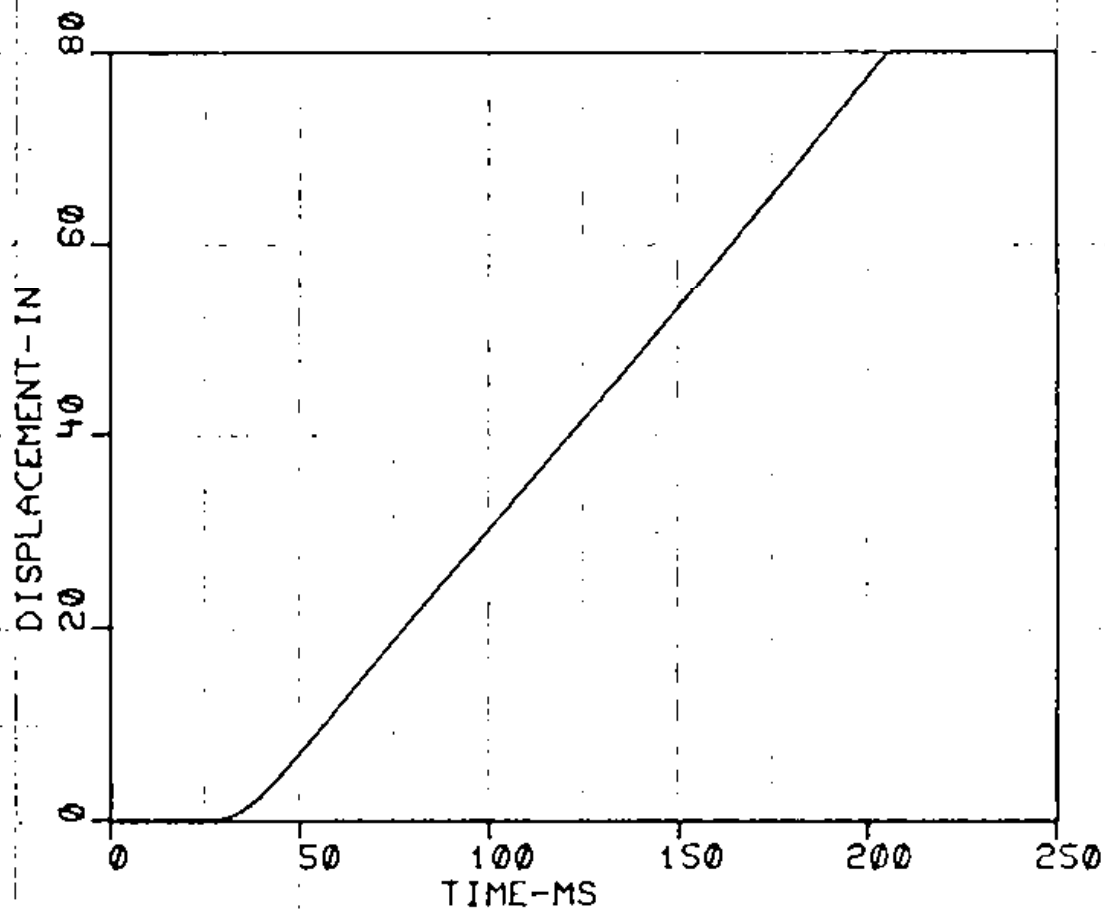
TEST#8327-6.1 VW RABBIT LF PELVIC AR



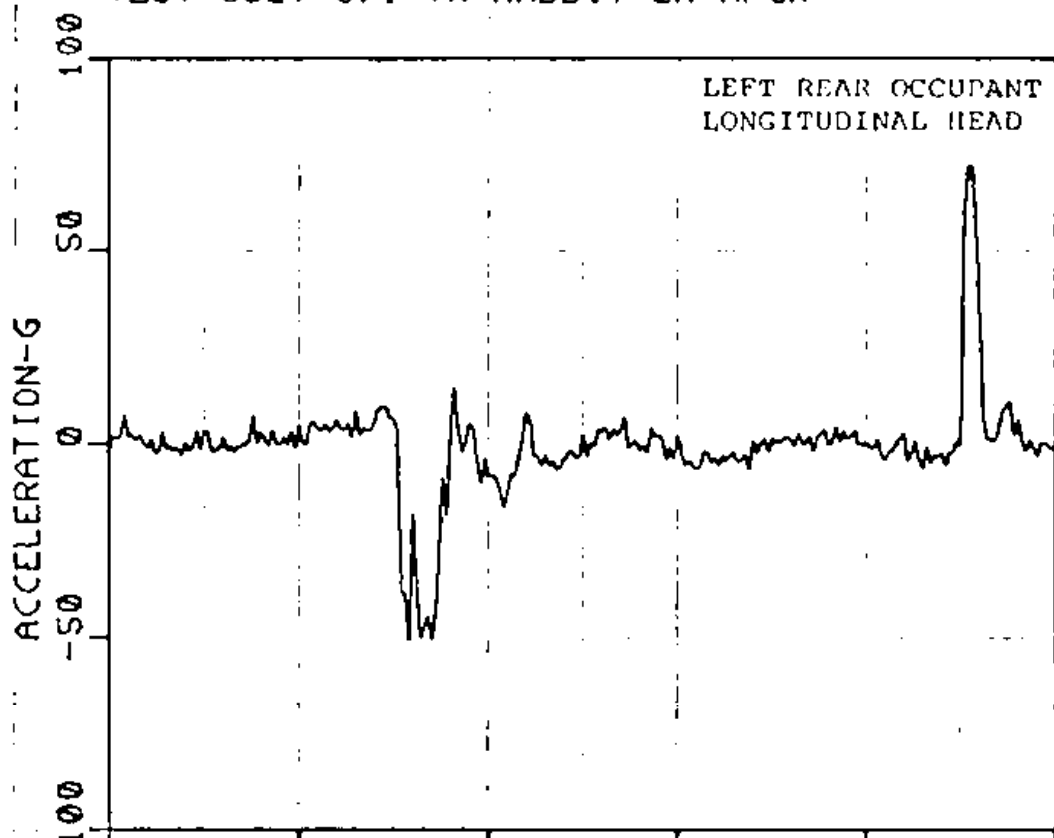
TEST#8327-6.1 VW RABBIT LF PELVIC VR



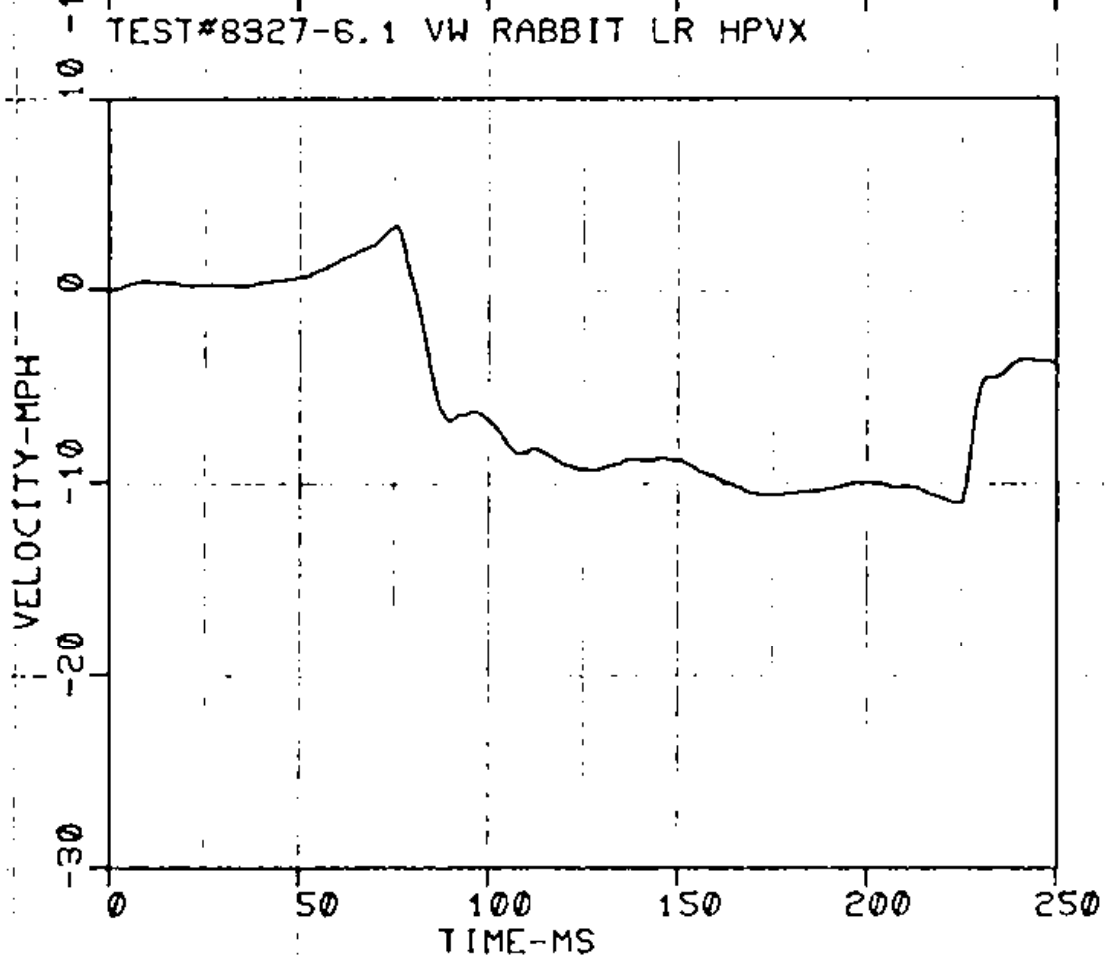
TEST#8327-6.1 VW RABBIT LF PELVIC SR



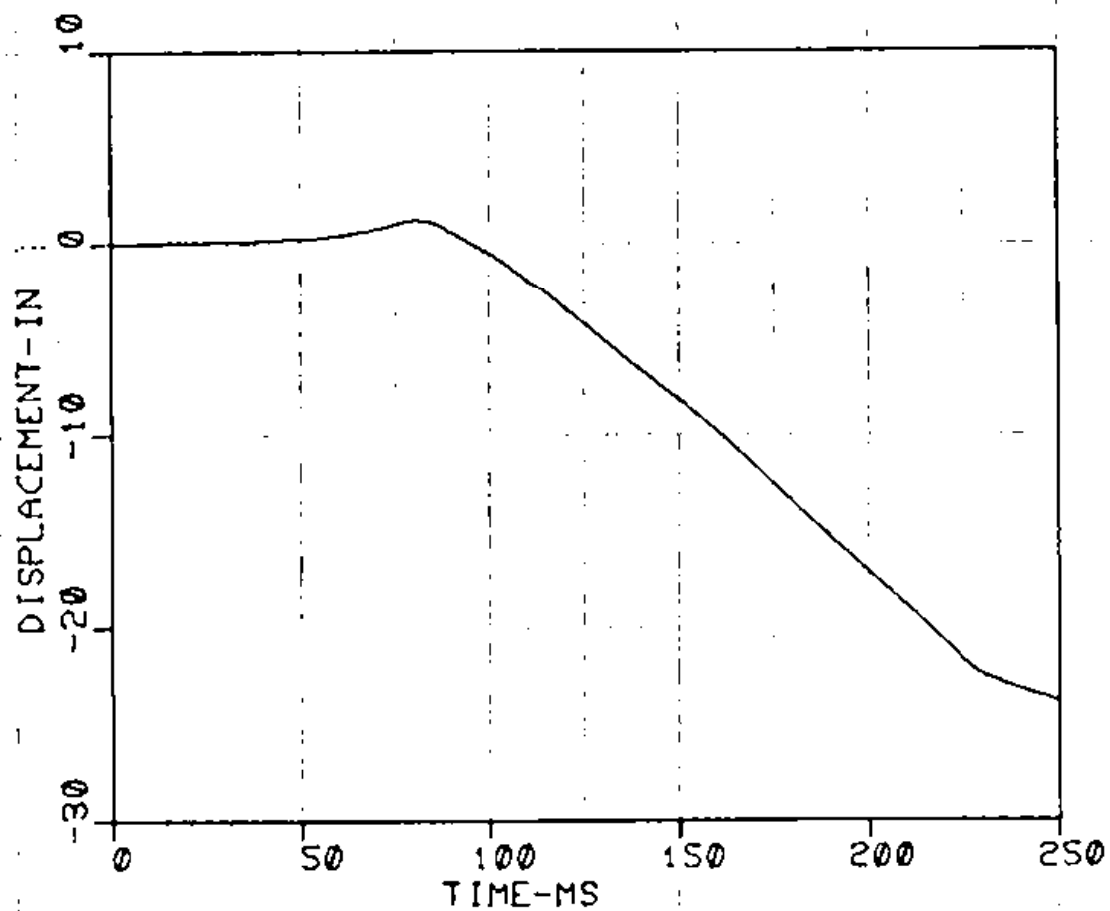
TEST#8327-6.1 VW RABBIT LR HPGX



TEST#8327-6.1 VW RABBIT LR HPVX

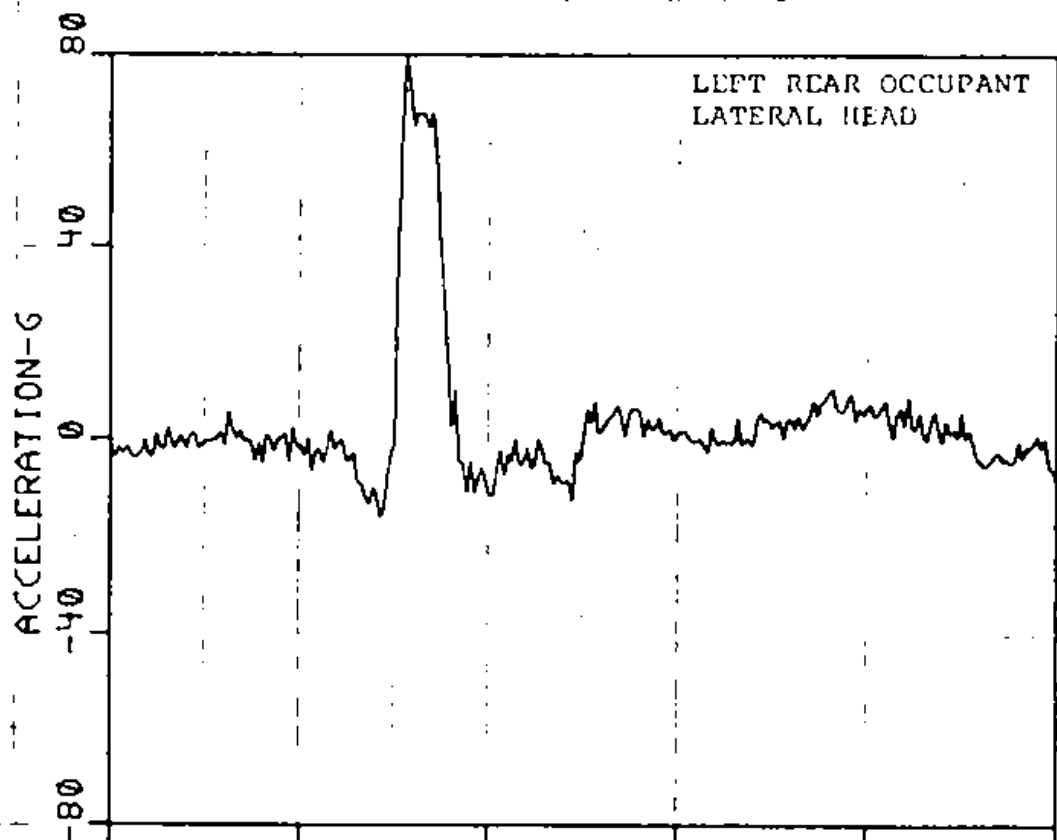


TEST#8327-6.1 VW RABBIT LR HPSX

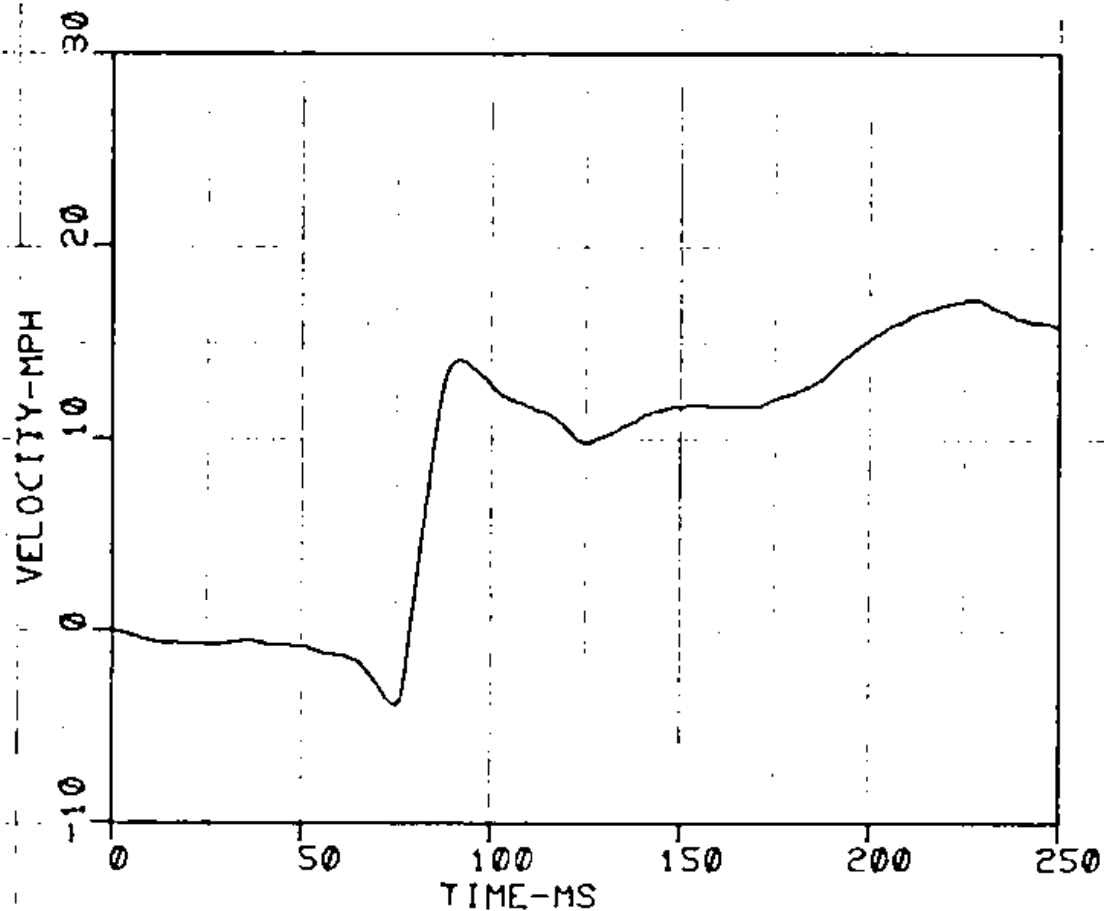


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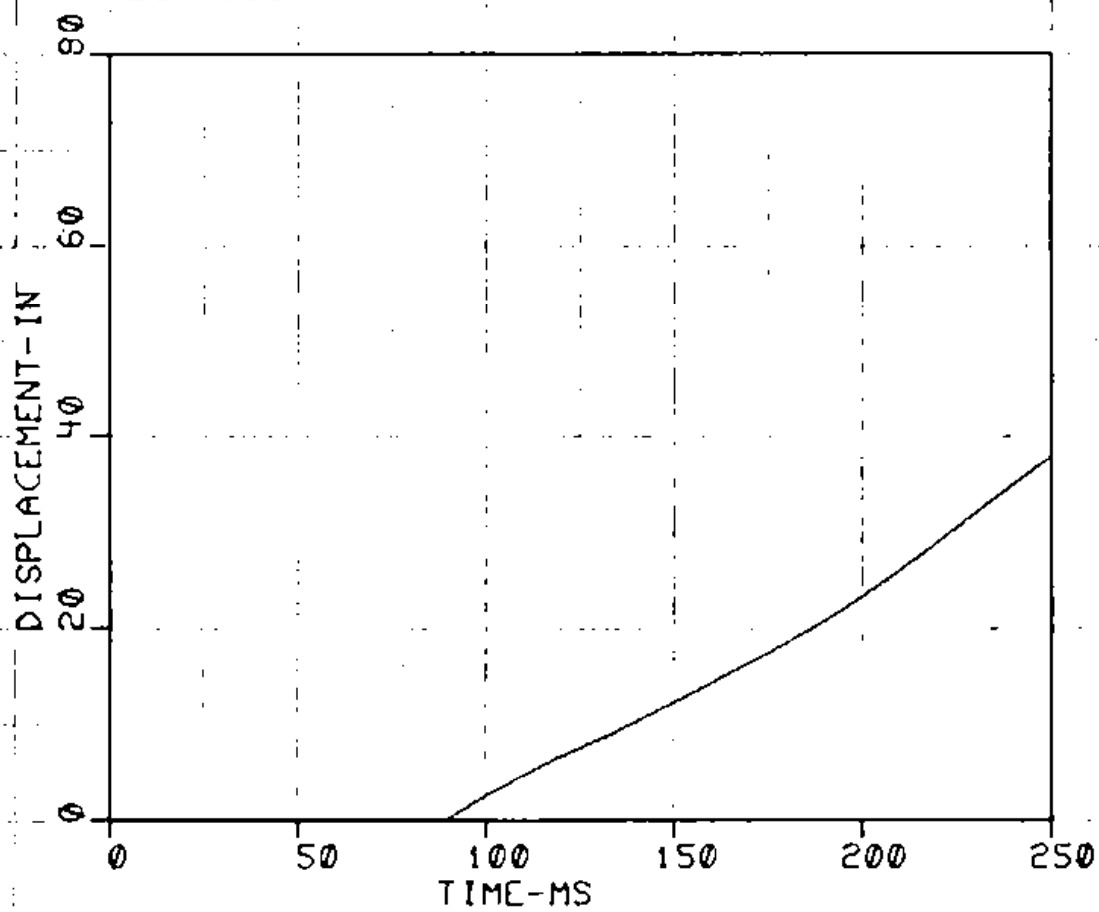
TEST#8327-6.1 VW RABBIT LR HRGY



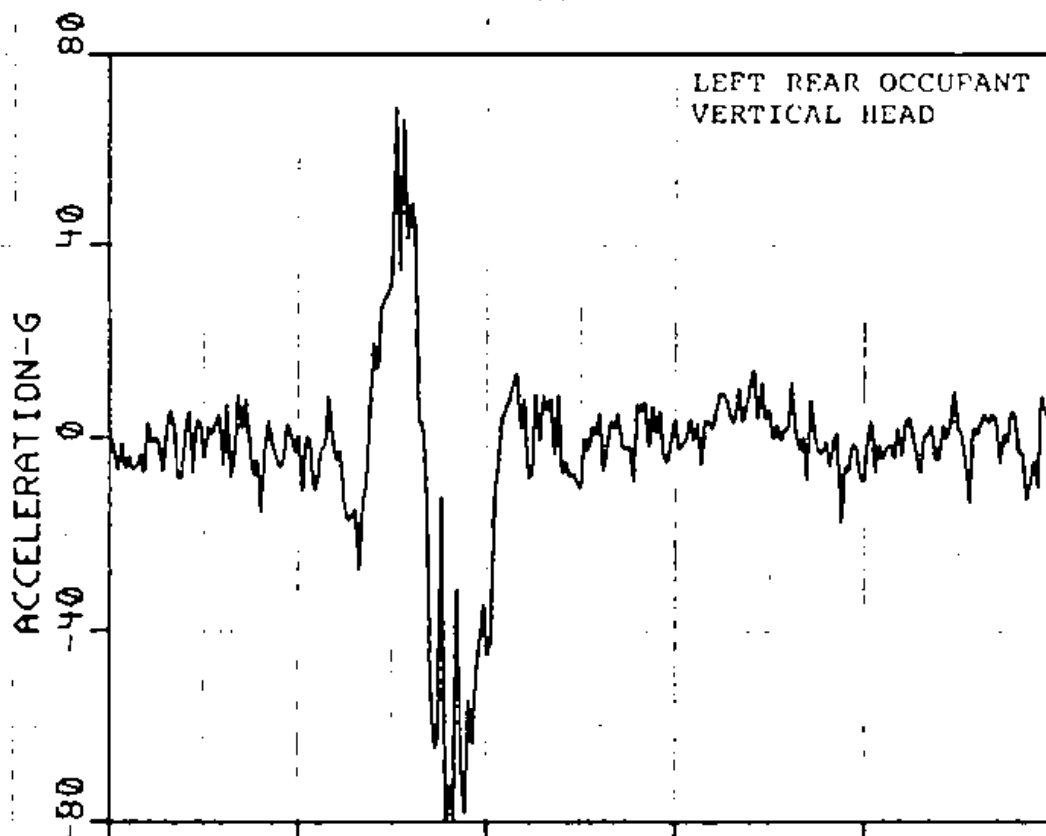
TEST#8327-6.1 VW RABBIT LR HRVY



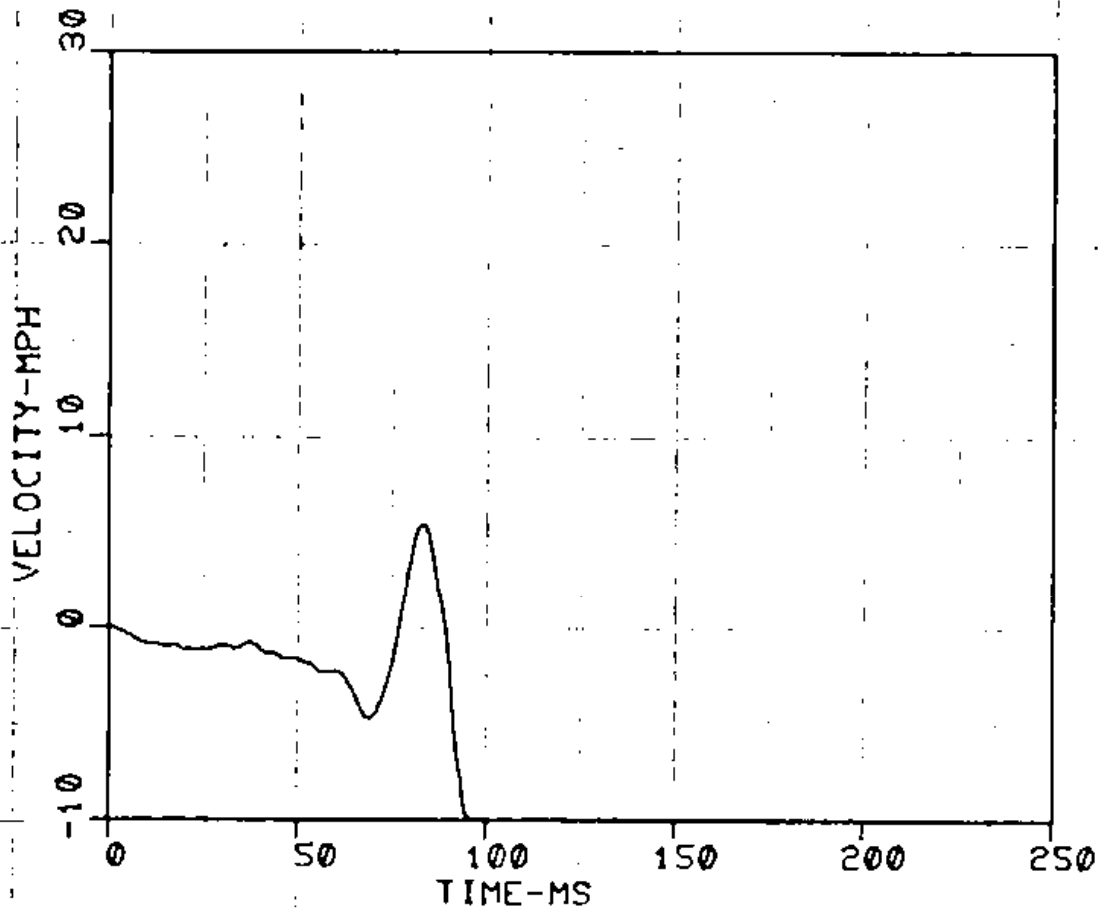
TEST#8327-6.1 VW RABBIT LR HRSY



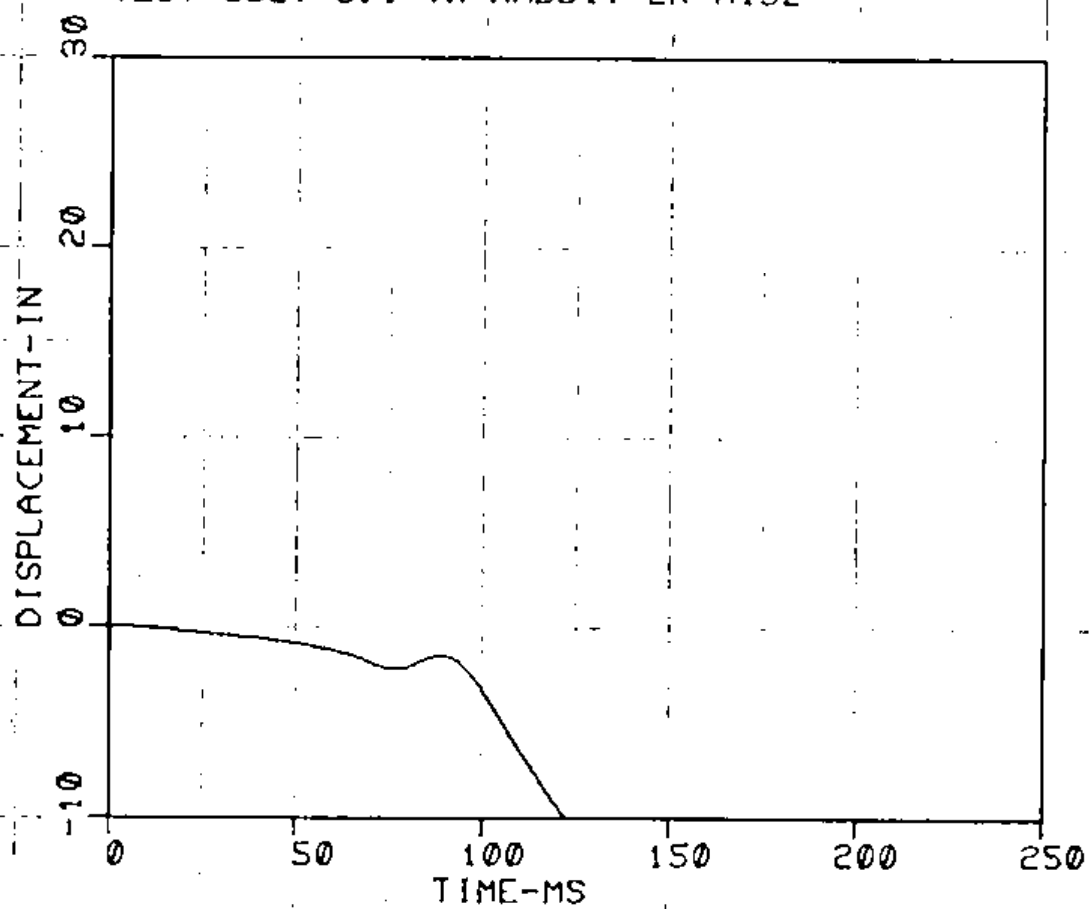
TEST#8327-6.1 VW RABBIT LR HIGZ



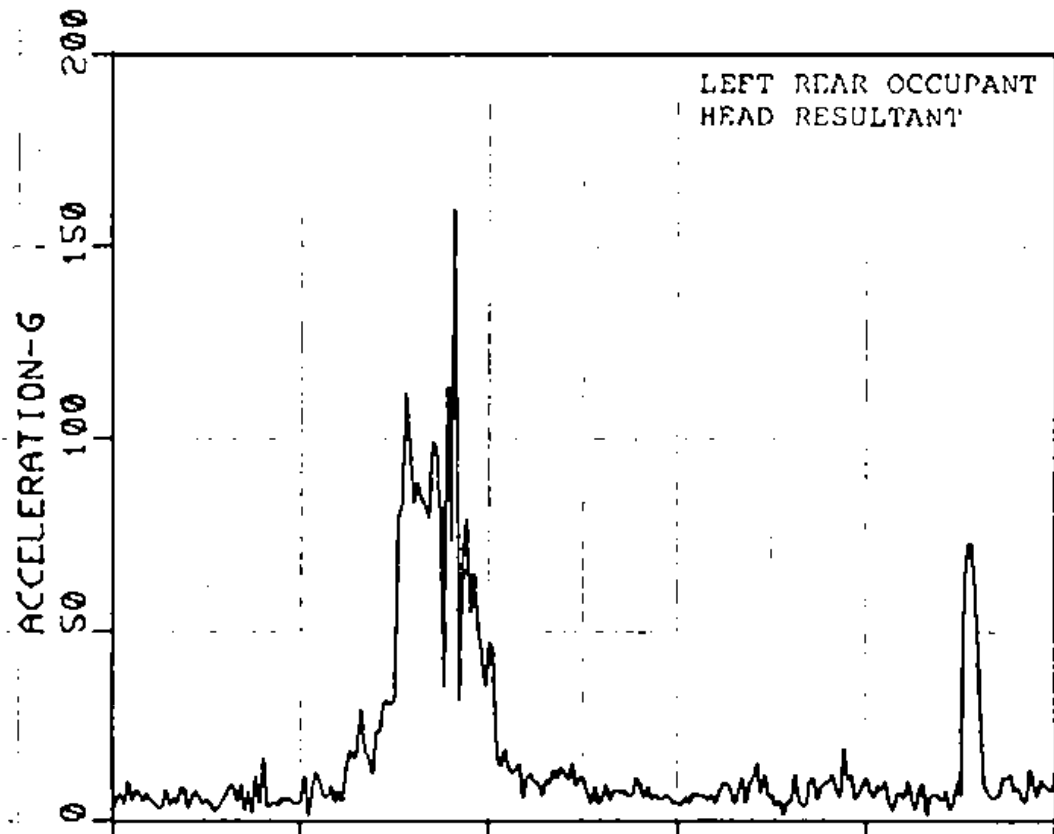
TEST#8327-6.1 VW RABBIT LR HIVZ



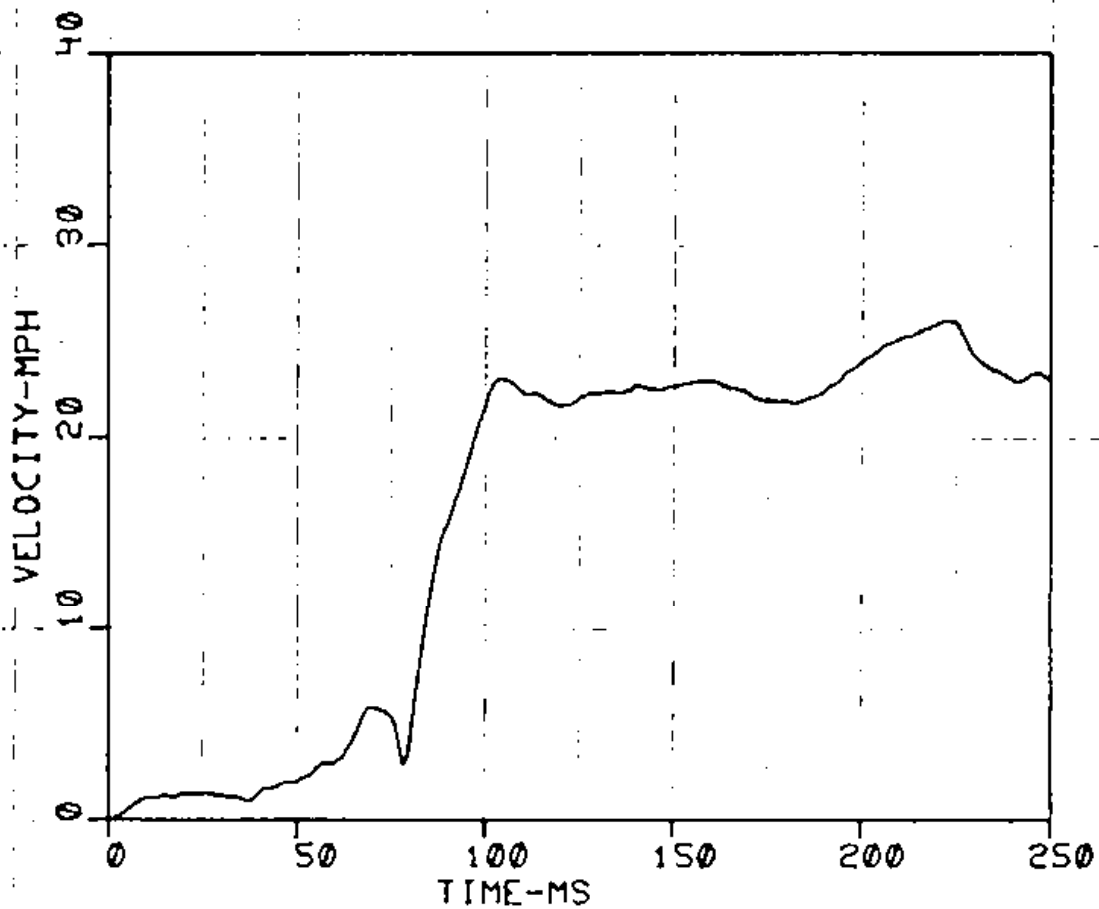
TEST#8327-6.1 VW RABBIT LR HISZ



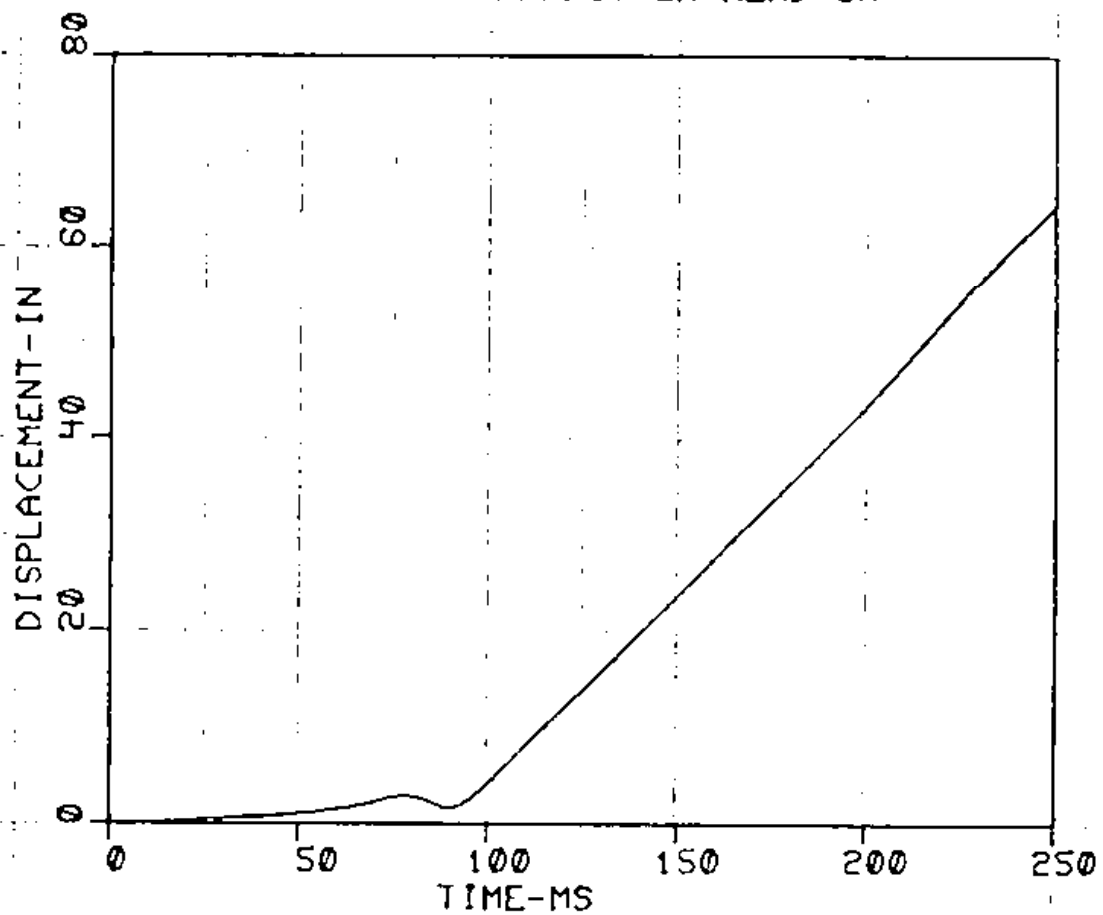
TEST#8327-6.1 VW RABBIT LR HEAD AR



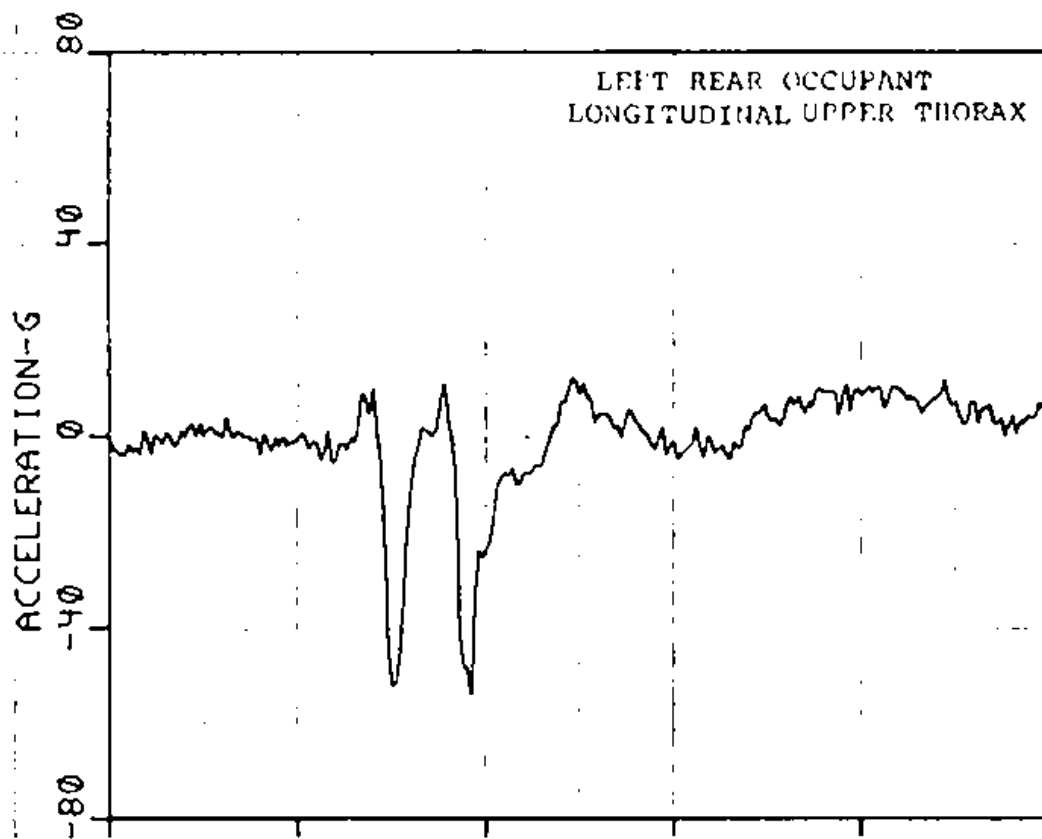
TEST#8327-6.1 VW RABBIT LR HEAD VR



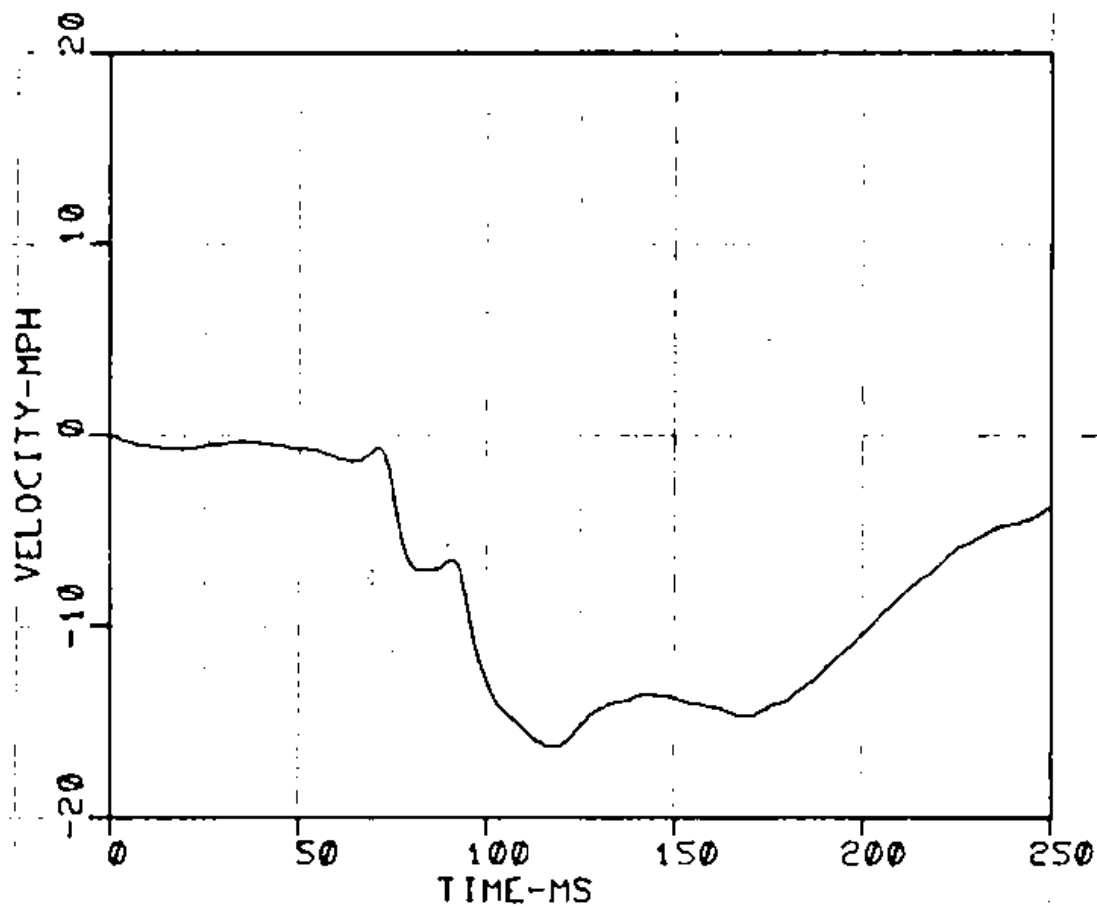
TEST#8327-6.1 VW RABBIT LR HEAD SR



TEST#8327-6.1 VW RABBIT LR 1PGX

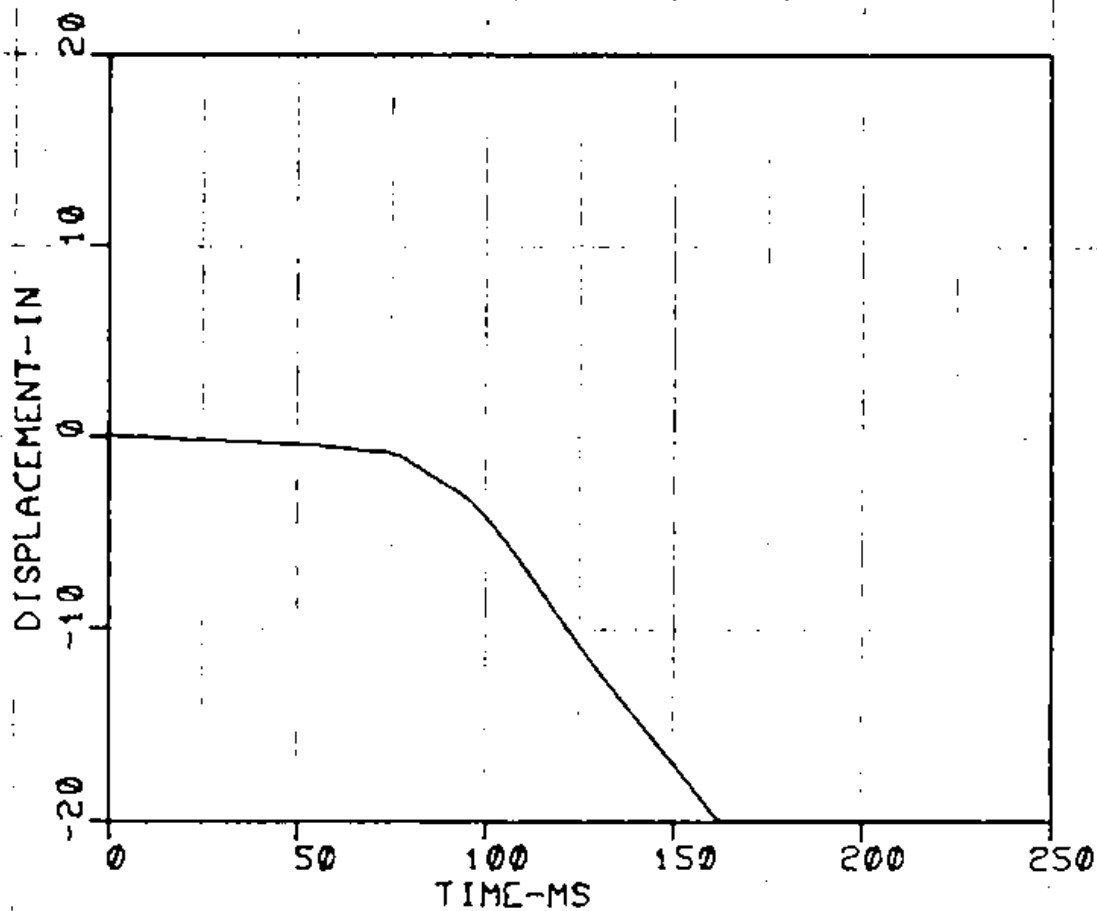


TEST#8327-6.1 VW RABBIT LR 1PVX



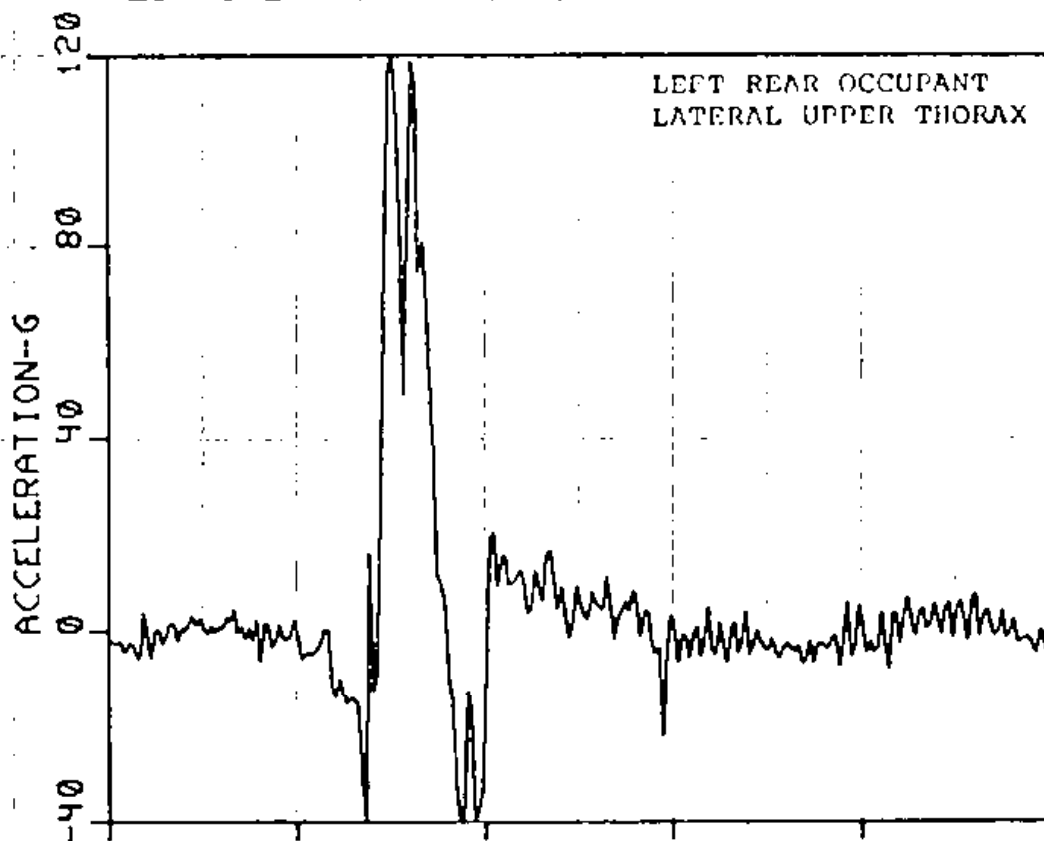
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TEST#8327-6.1 VW RABBIT LR 1PSX

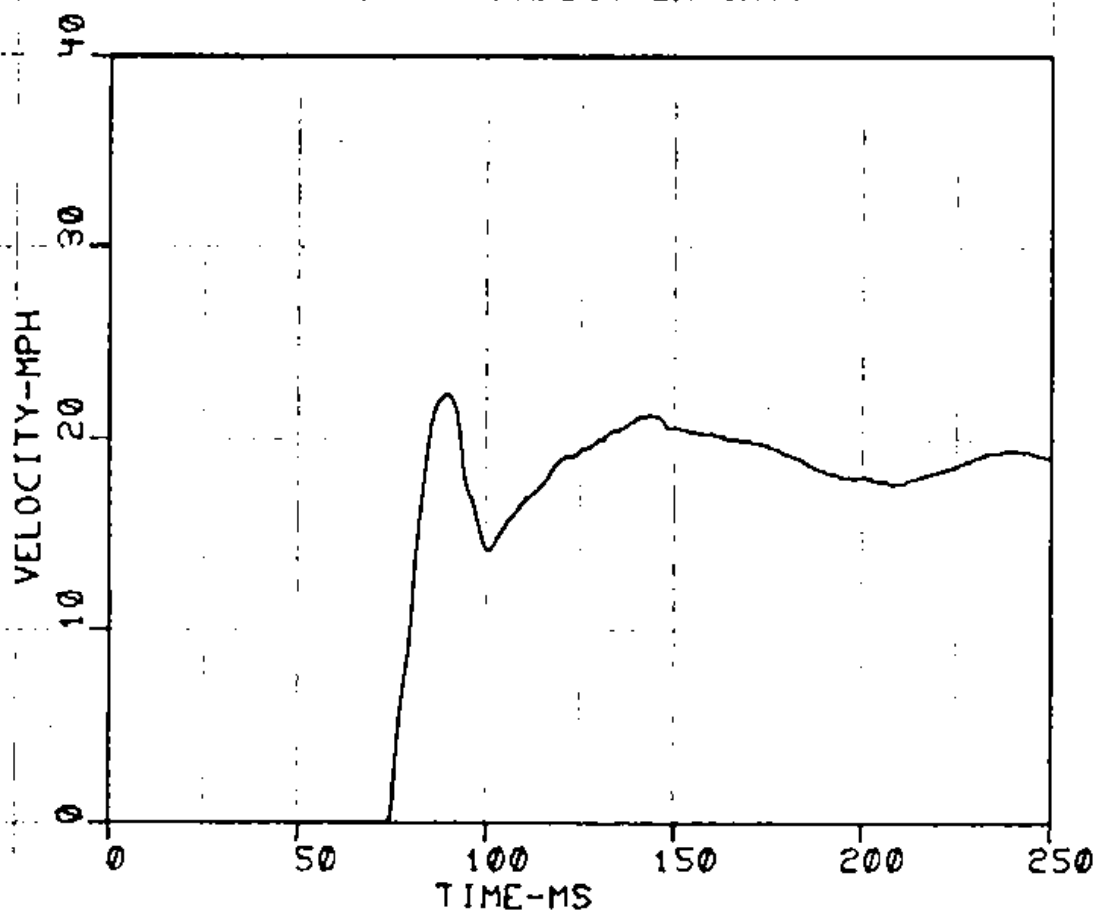


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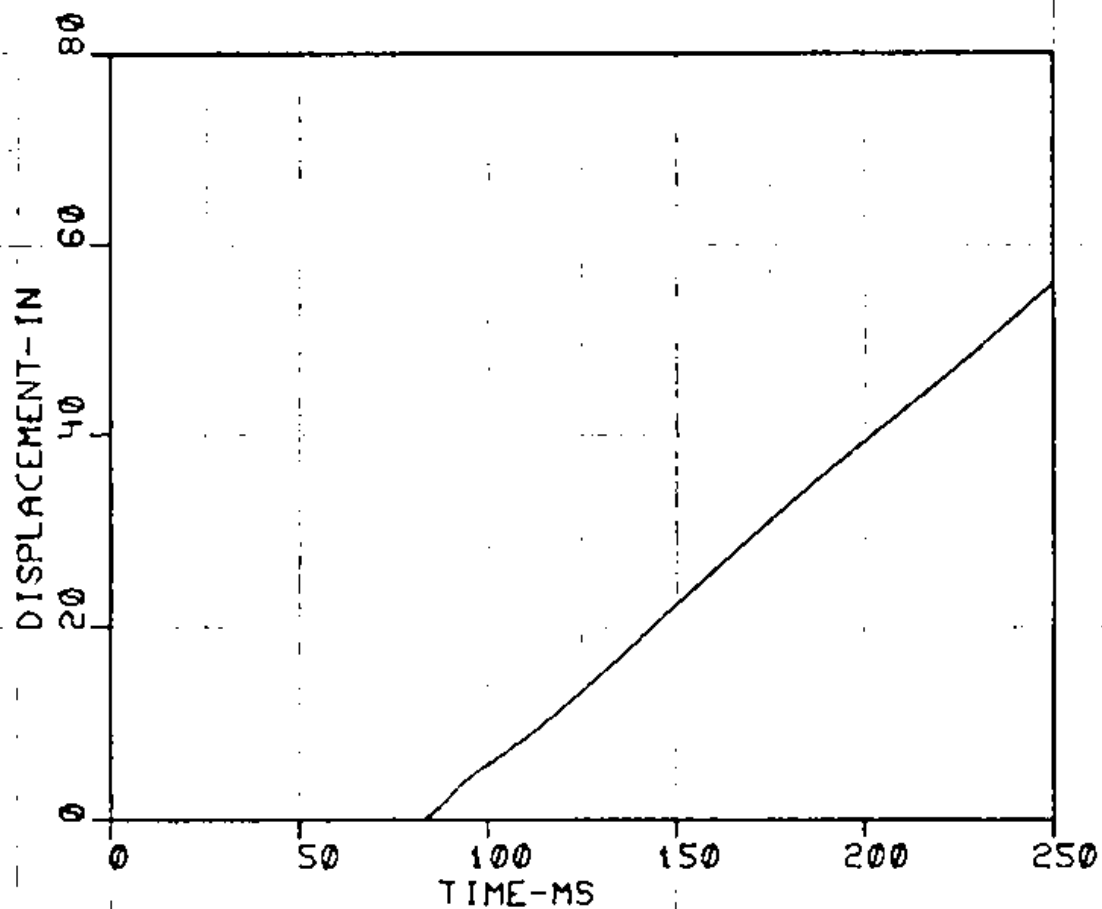
TEST#8327-6.1 VW RABBIT LR 1RGY



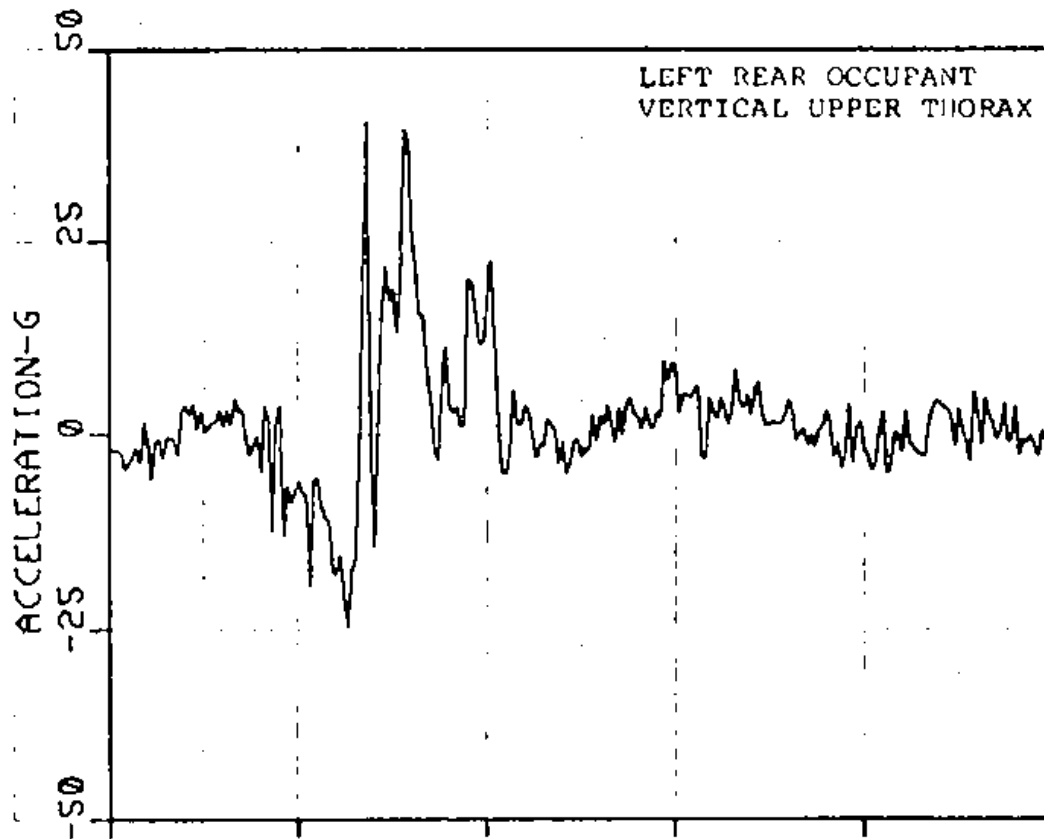
TEST#8327-6.1 VW RABBIT LR 1RVY



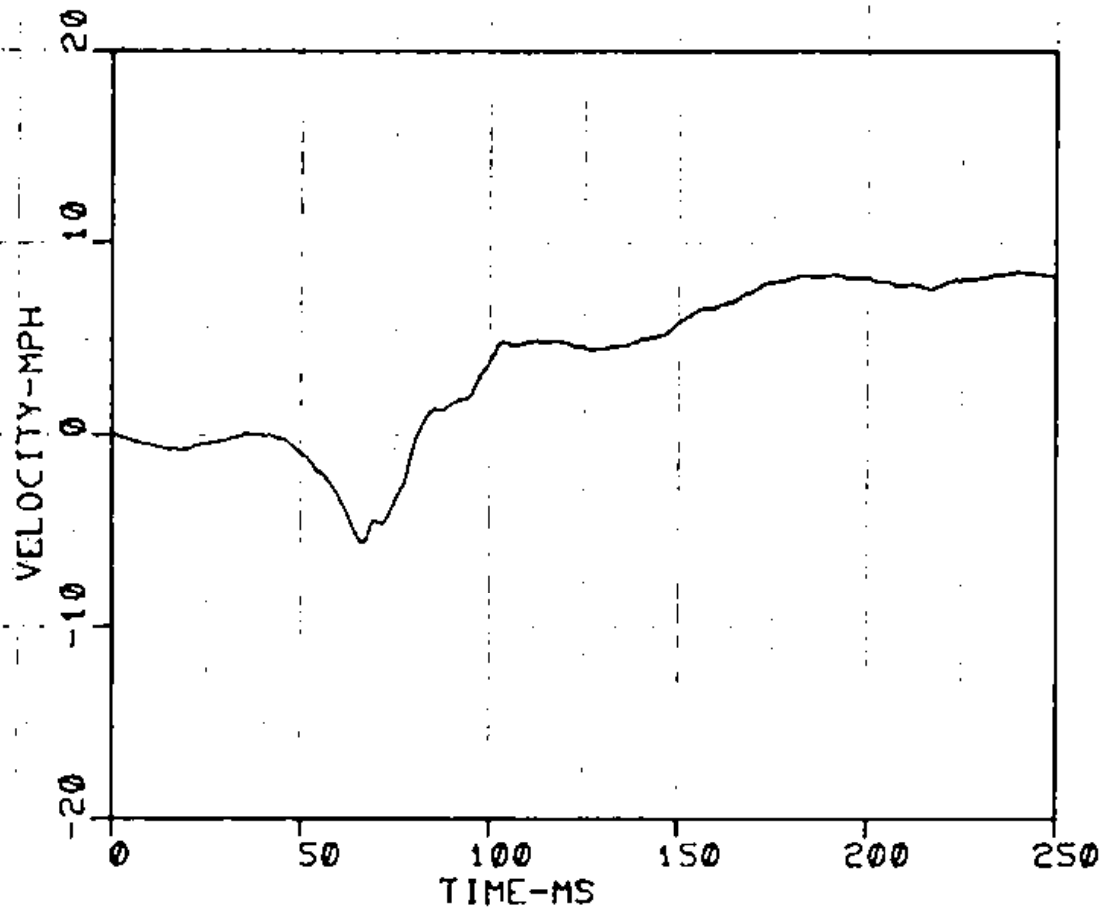
TEST#8327-6.1 VW RABBIT LR 1RSY



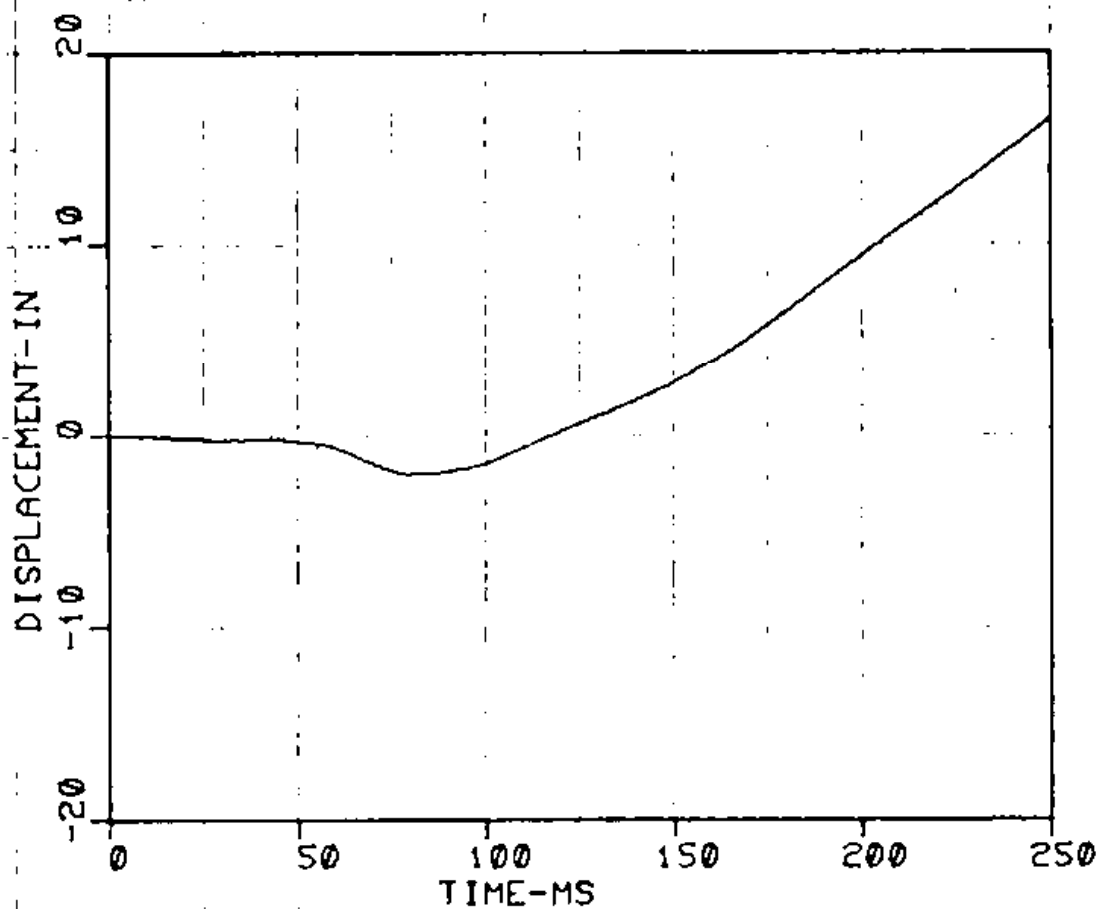
TEST#8327-6.1 VW RABBIT LR 11GZ



TEST#8327-6.1 VW RABBIT LR 11VZ

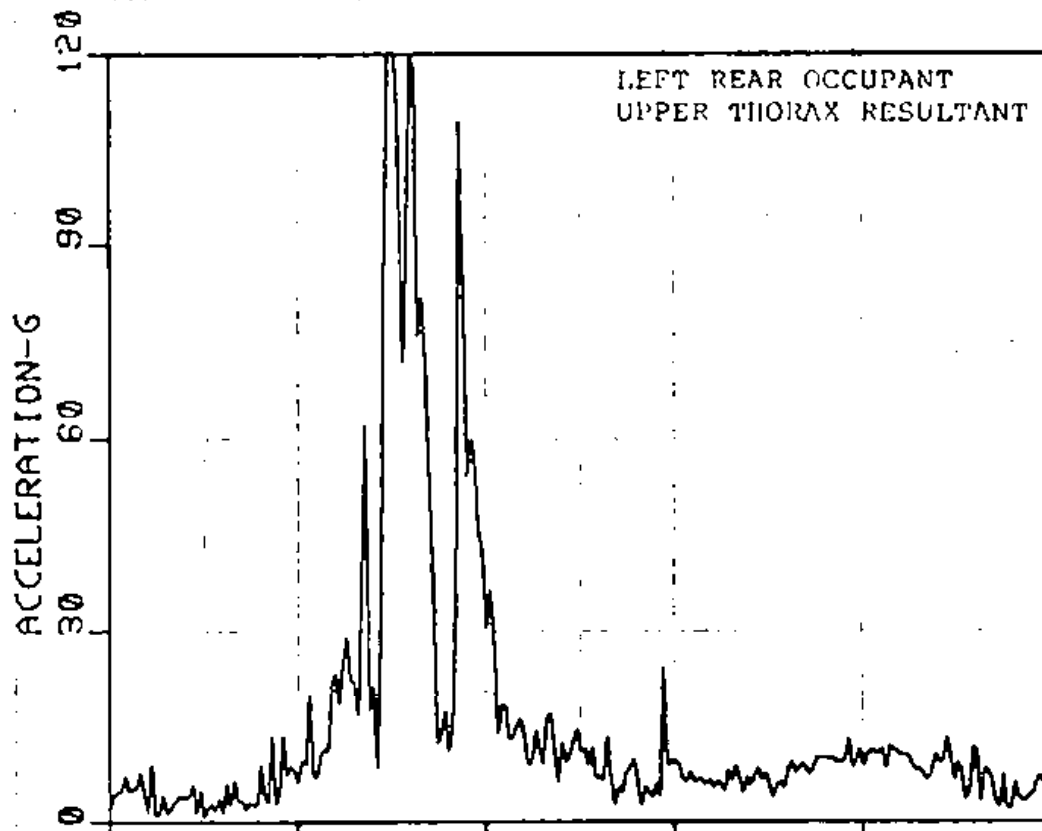


TEST#8327-6.1 VW RABBIT LR 11SZ

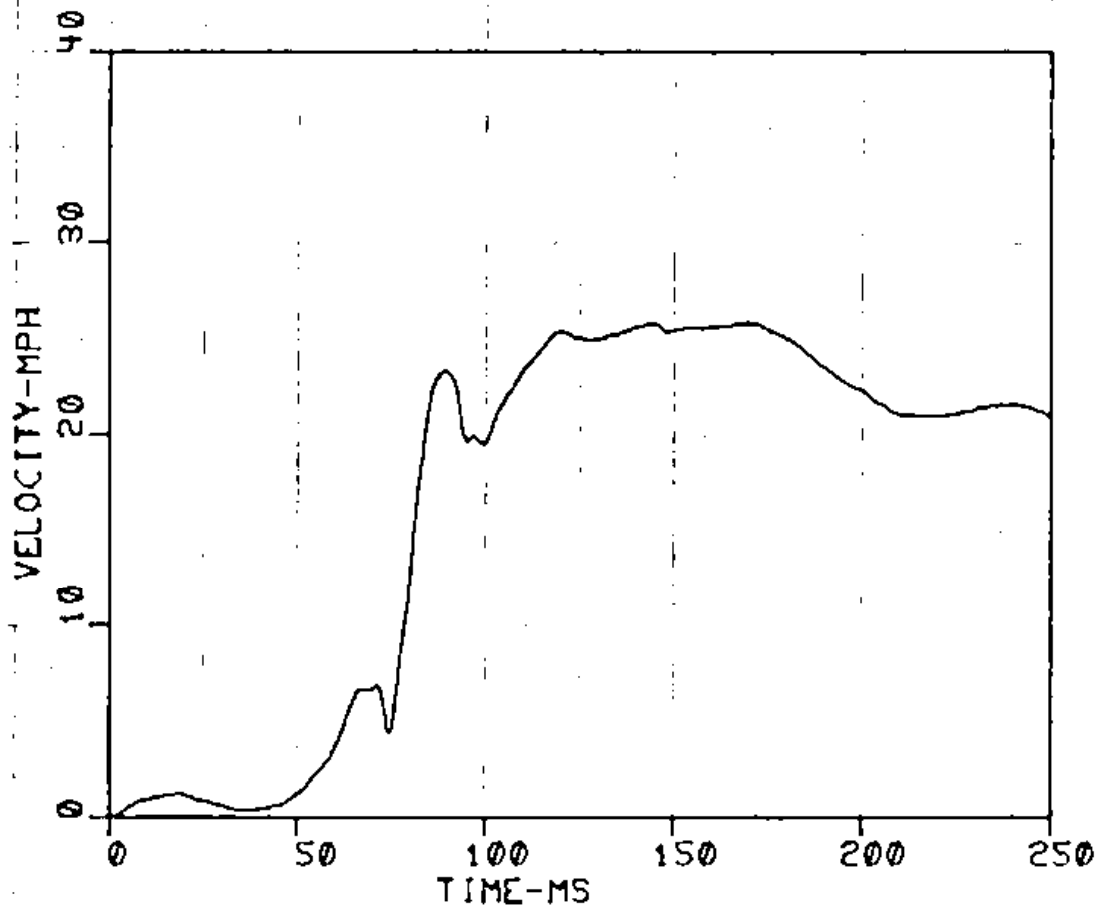


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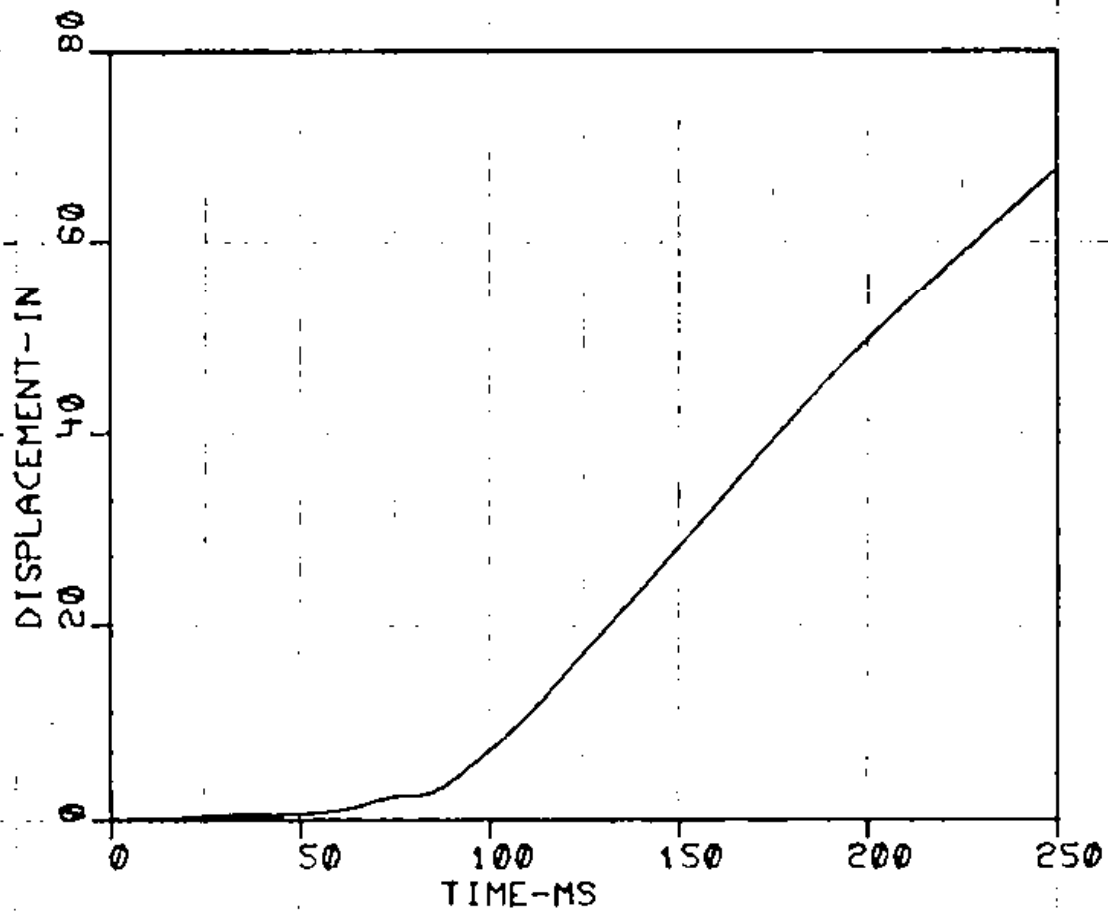
TEST#8327-6.1 VW RABBIT LR CHEST AR



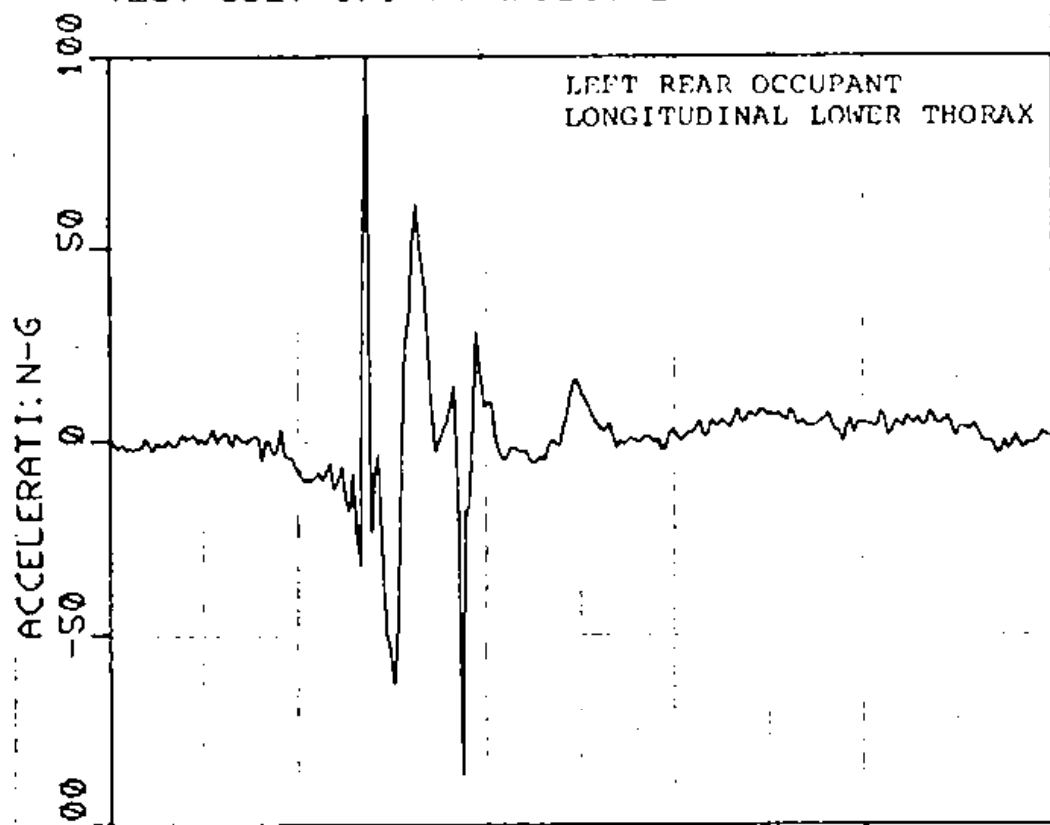
TEST#8327-6.1 VW RABBIT LR CHEST VR



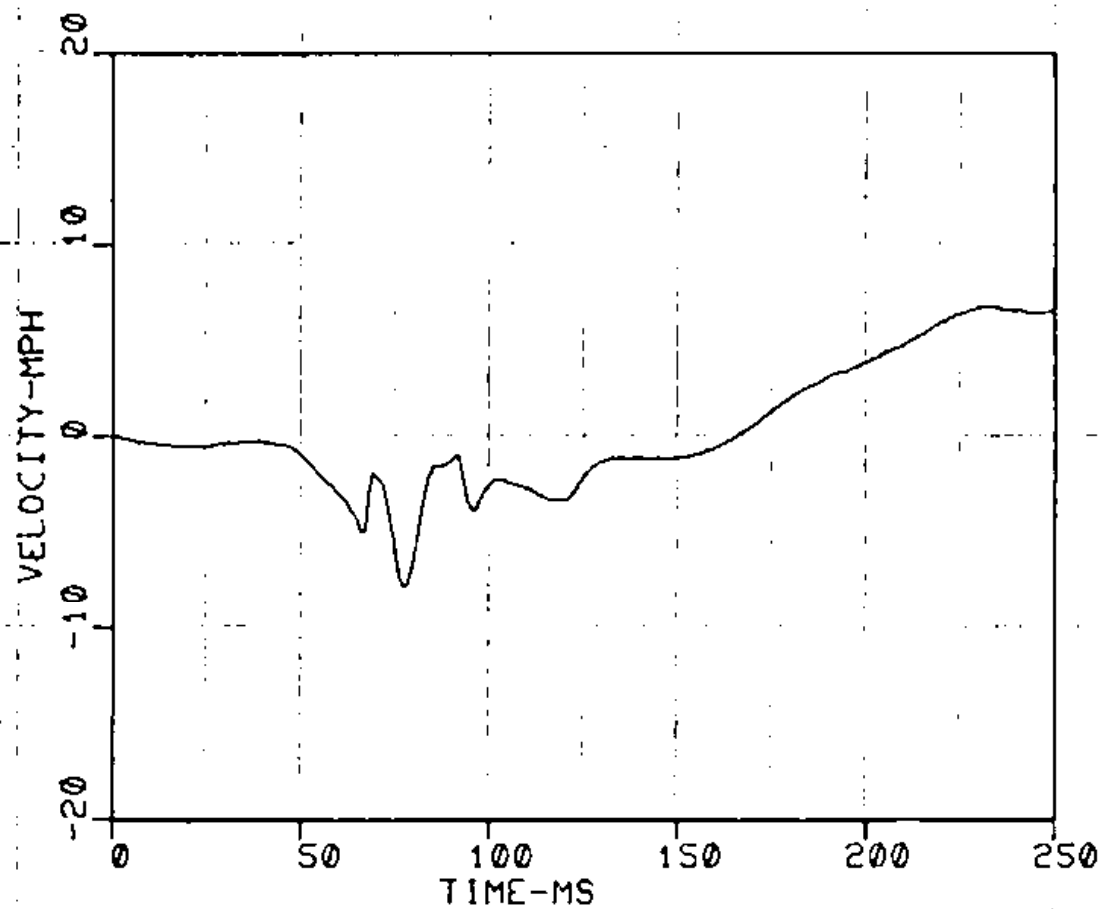
TEST#8327-6.1 VW RABBIT LR CHEST SR



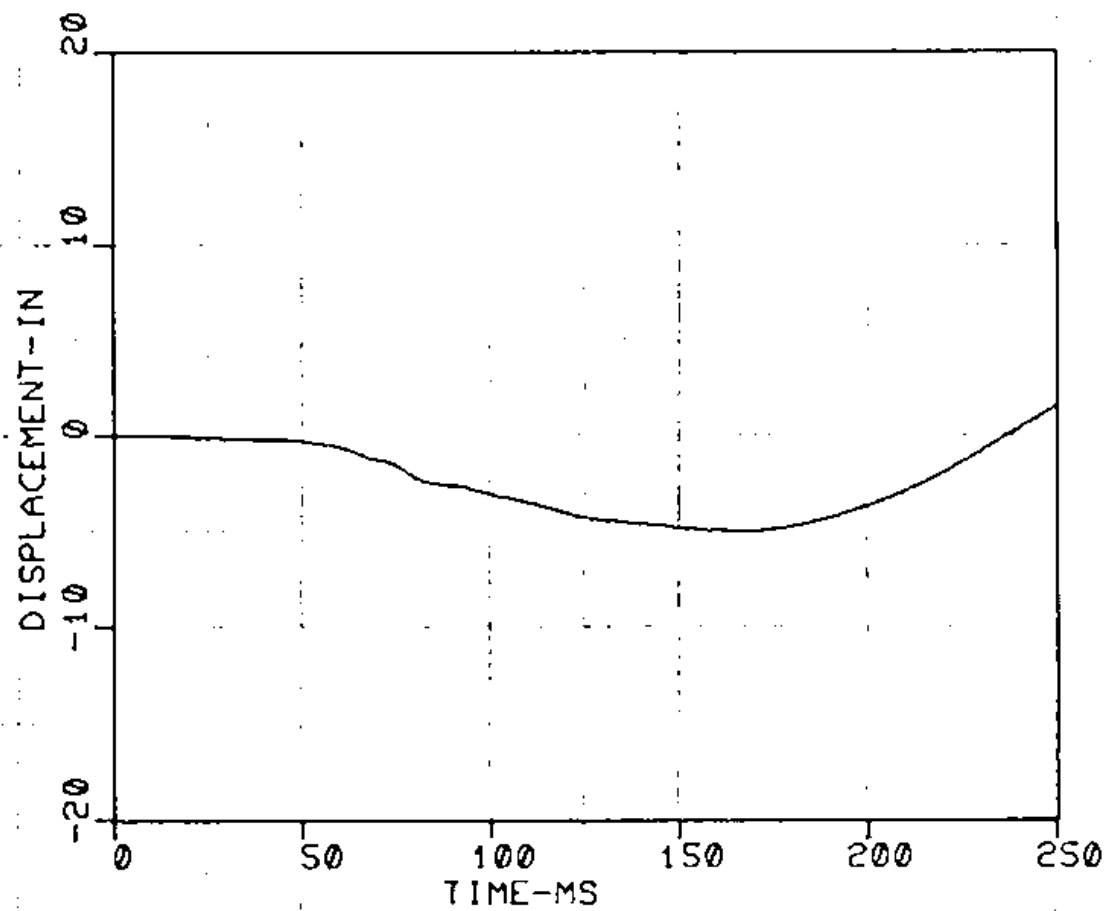
TEST#8327-6.1 VW RABBIT LR 2PGX



TEST#8327-6.1 VW RABBIT LR 2PVX

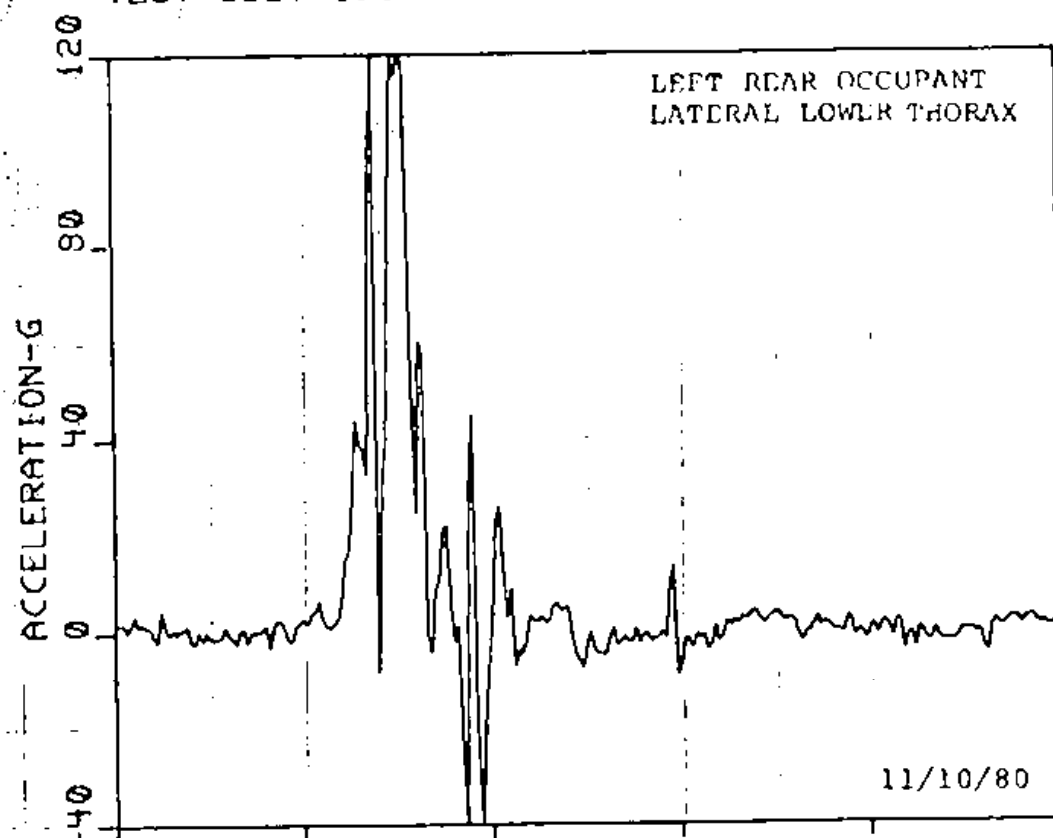


TEST#8327-6.1 VW RABBIT LR 2PSX

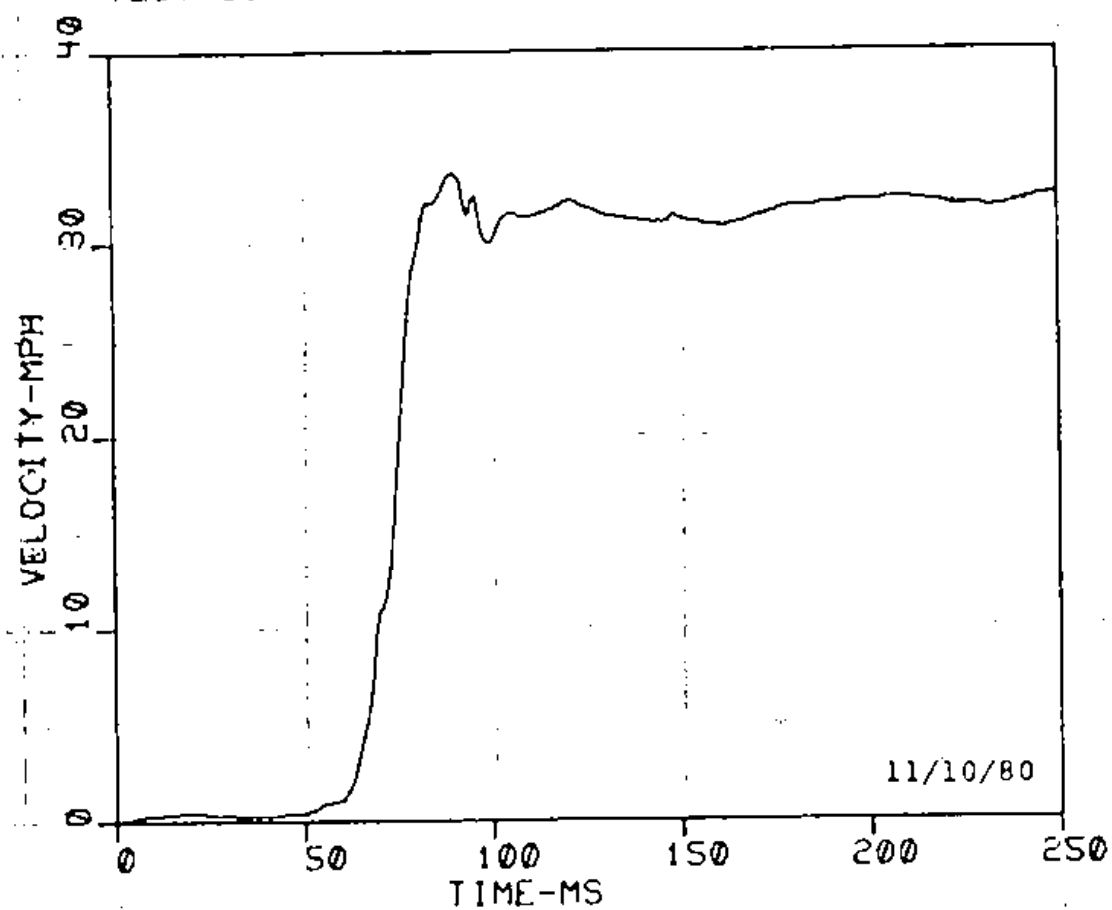


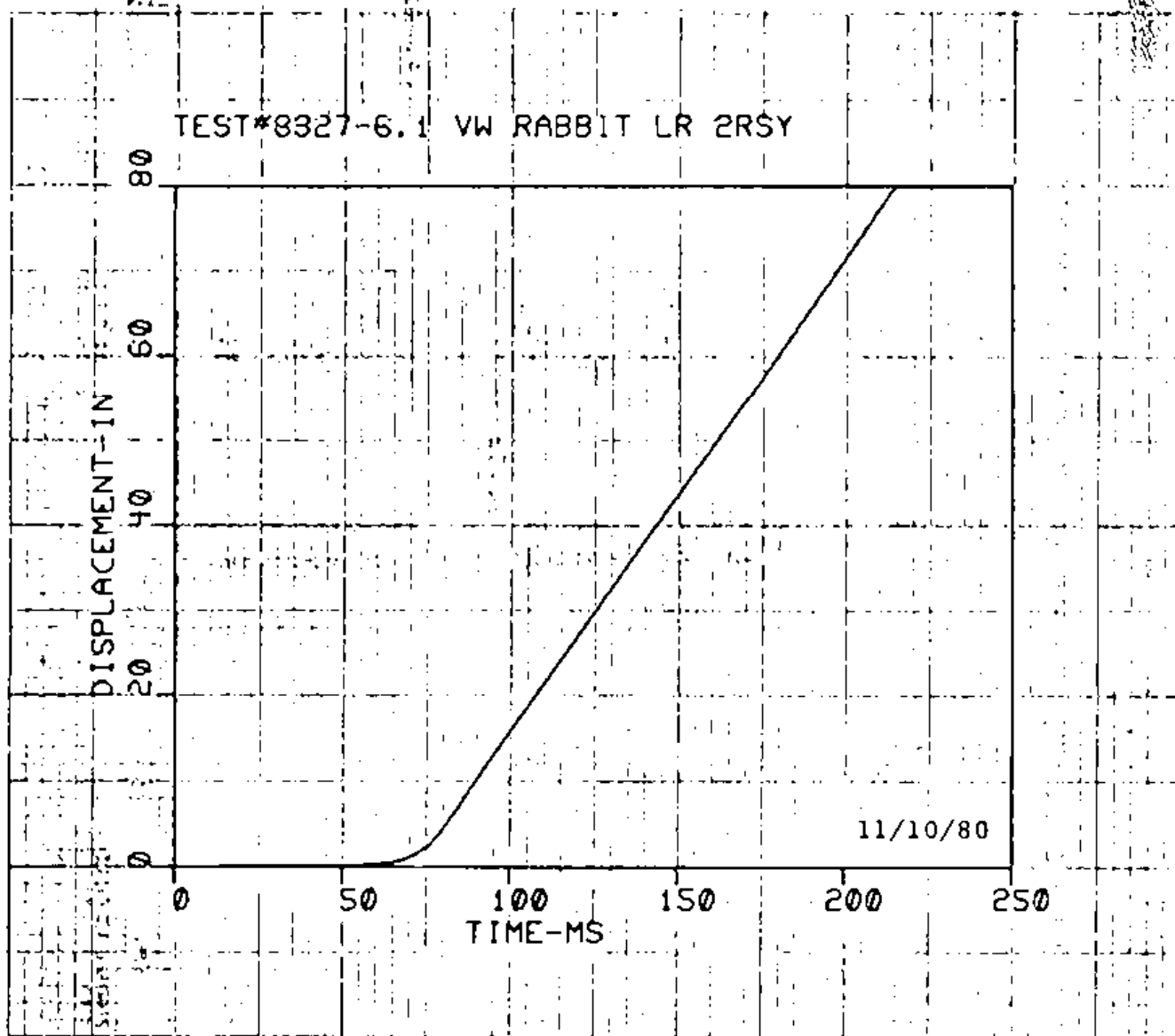
B-131

TEST#8327-6.1 VW RABBIT LR 2RGY

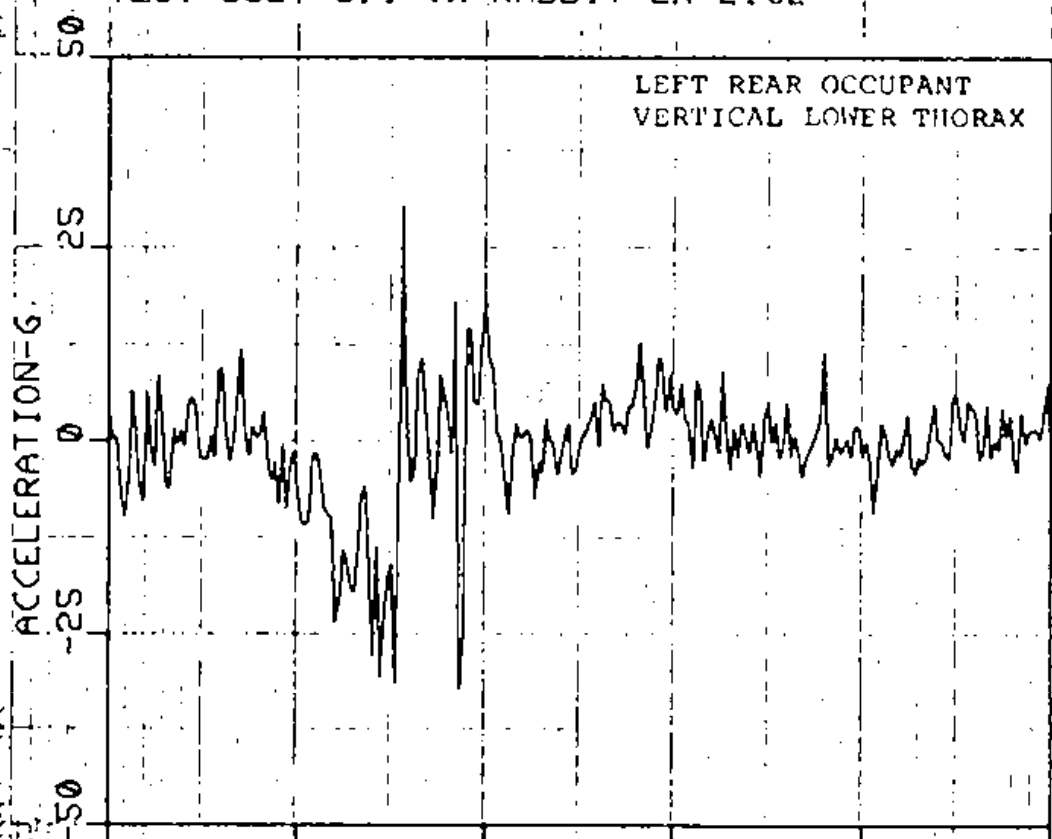


TEST#8327-6.1 VW RABBIT LR 2RVY

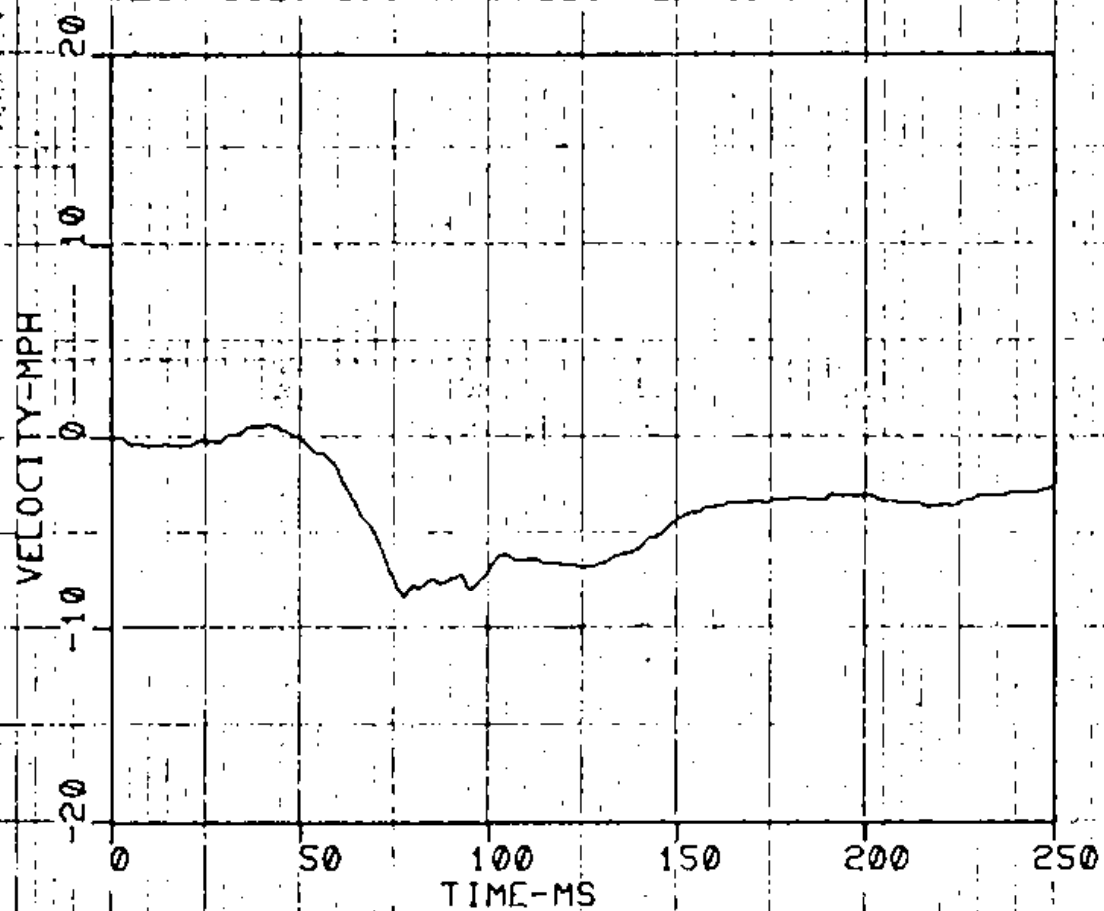




TEST#8327-6.1 VW RABBIT LR 21GZ



TEST#8327-6.1 VW RABBIT LR 21VZ



TEST #8327-6.1 VW RABBIT LR 21SZ

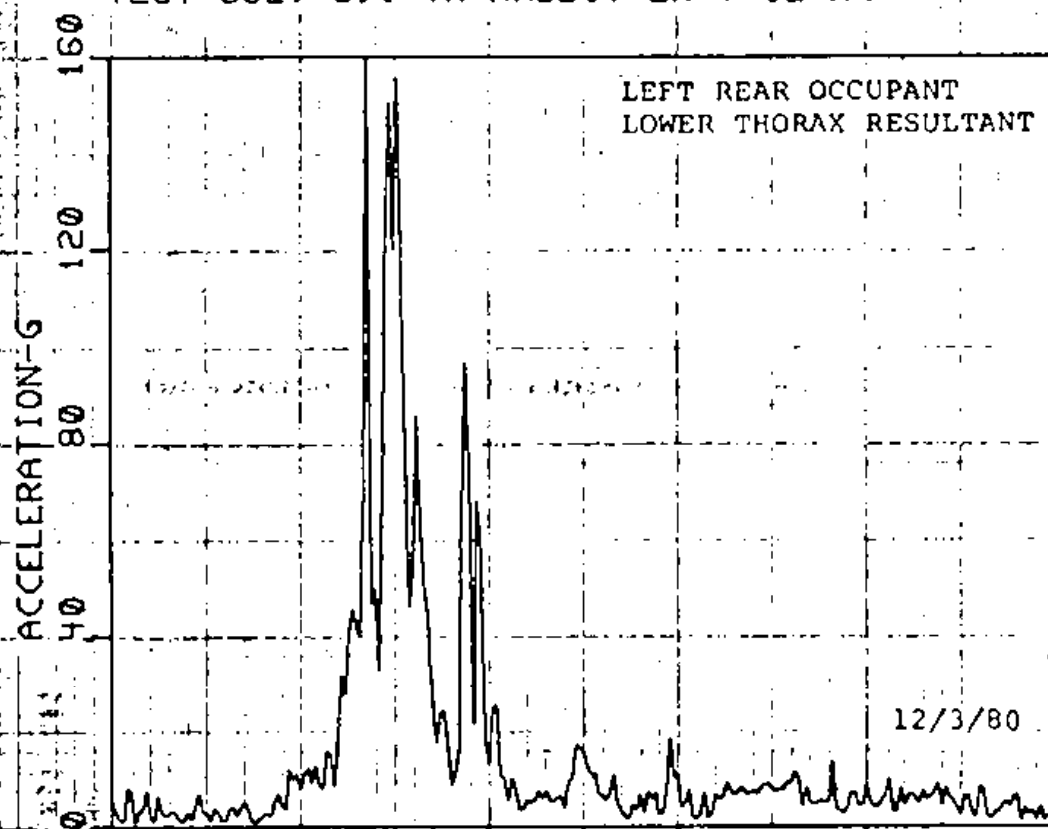
DISPLACEMENT-IN

10
0
-10
-20
-30

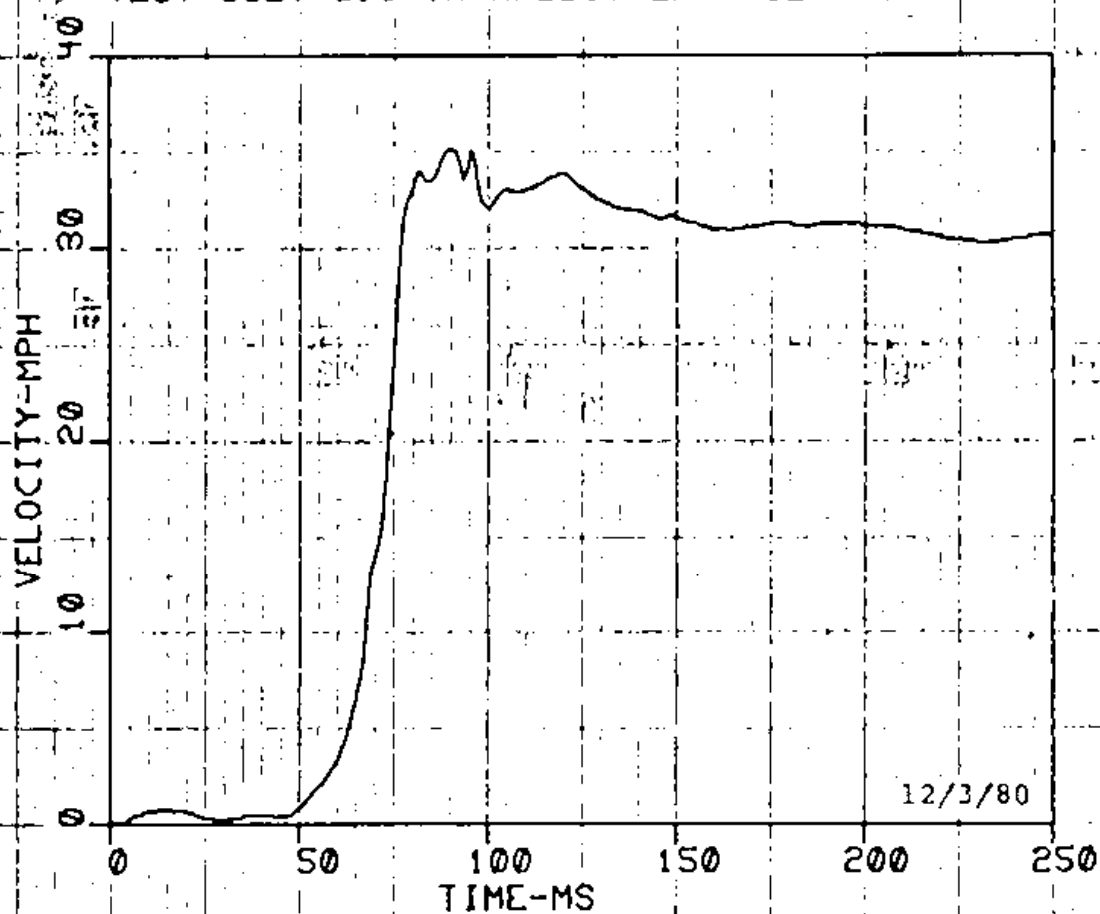
0 50 100 150 200 250
TIME-MS

B-135

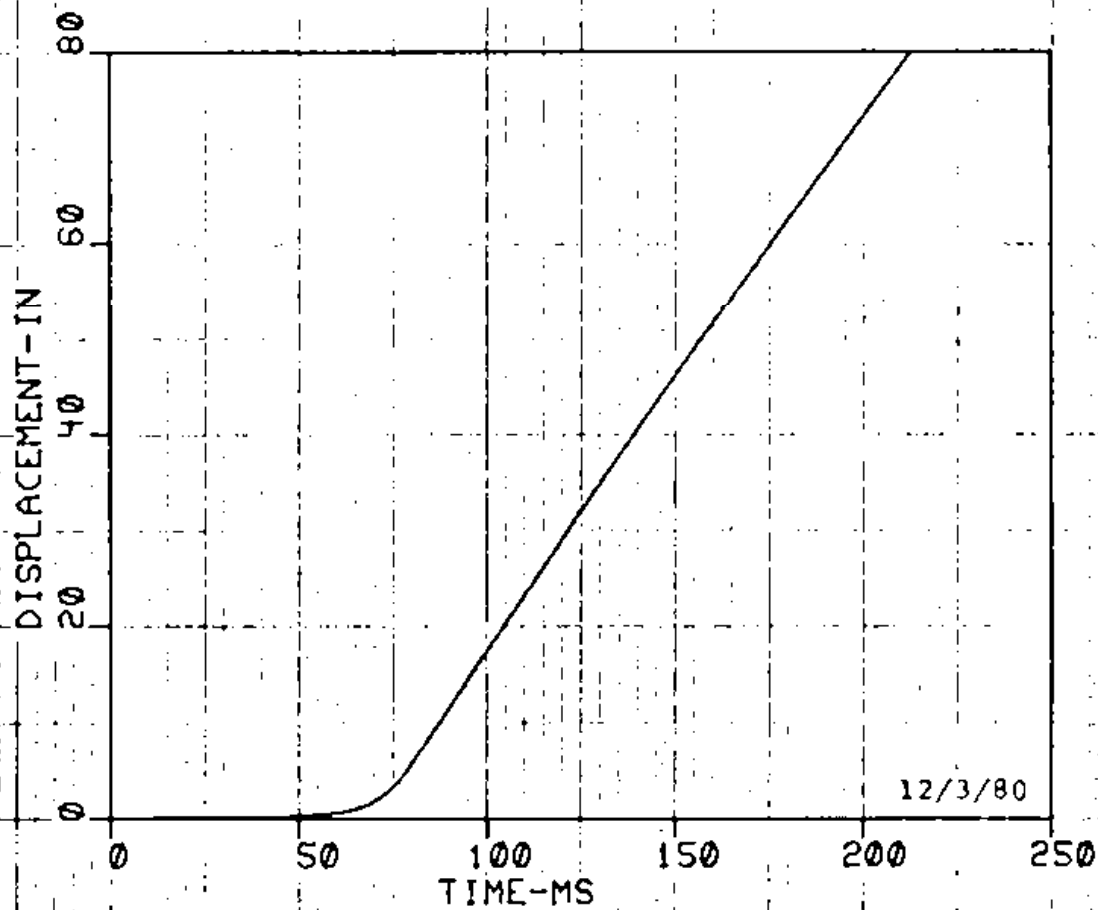
TEST#8327-6.1 VW RABBIT LR T-12 AR

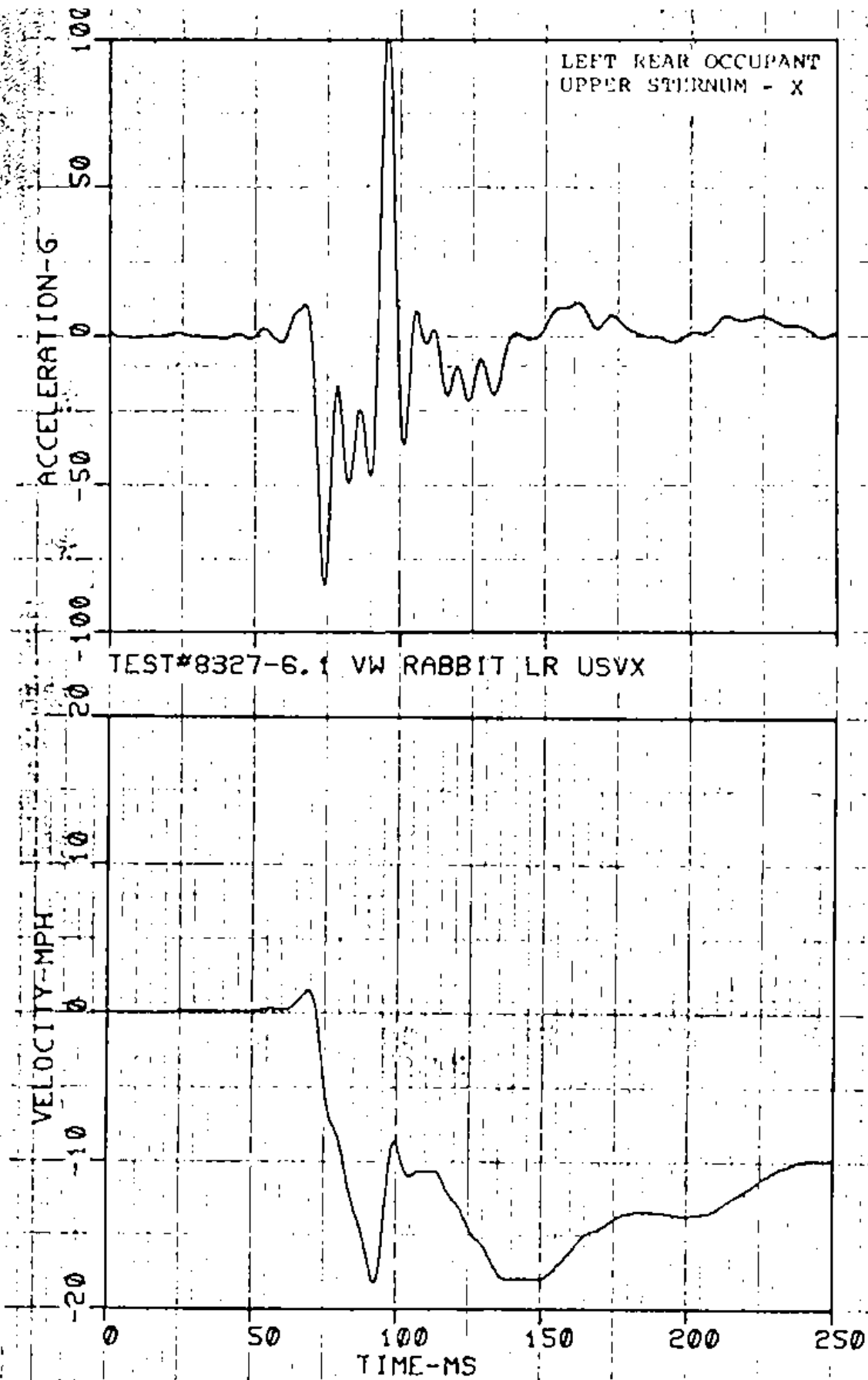


TEST#8327-6.1 VW RABBIT LR T-12 VR



TEST#8327-6.1 VW RABBIT LR T-12 SR





B-138

TEST#8327-6.1 VW RABBIT LR USSX

DISPLACEMENT-IN

20

10

0

-10

-20

0

50

100

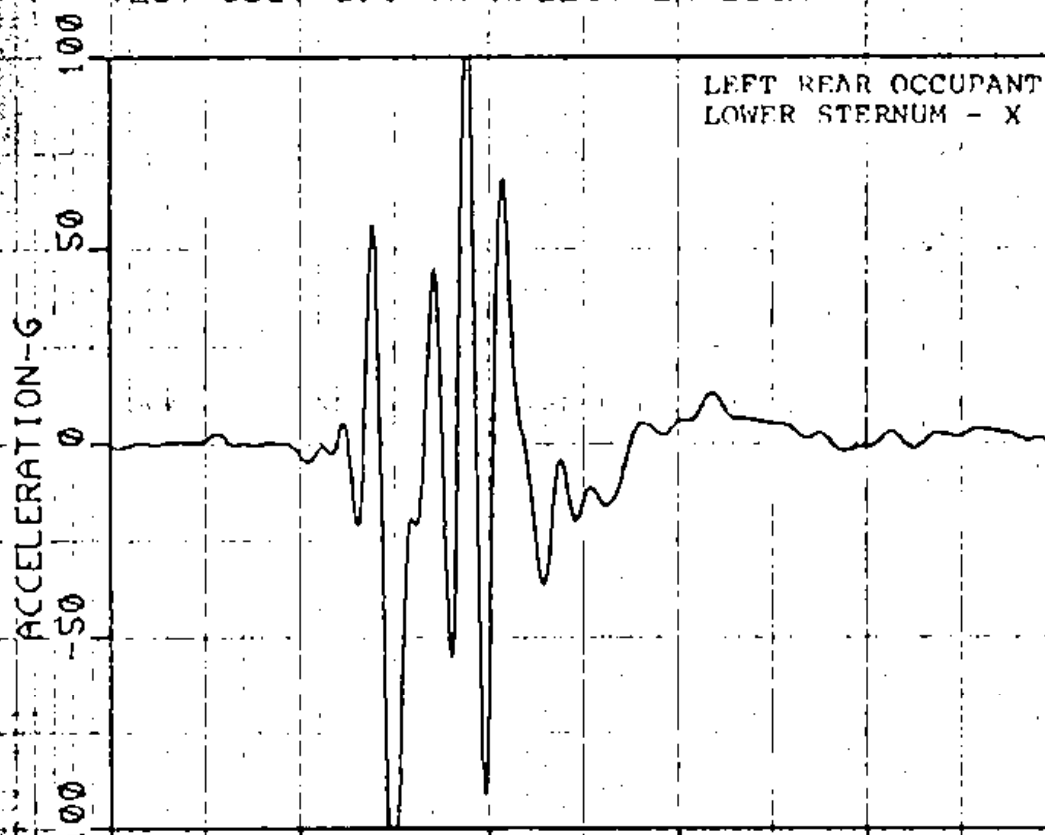
150

200

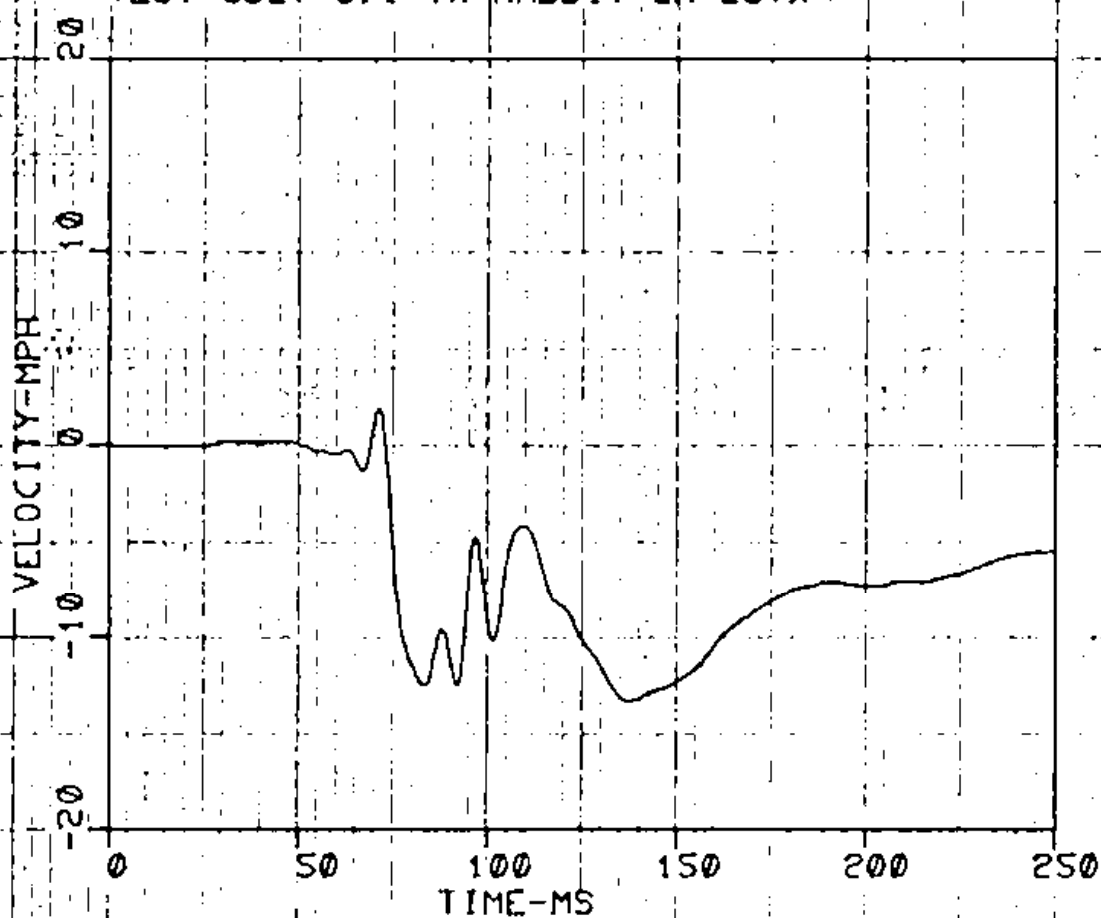
250

TIME-MS

TEST#8327-6.1 VW RABBIT LR LSGX



TEST#8327-6.1 VW RABBIT LR LSVX



TEST#8327-6.1 VW RABBIT LR LSSX

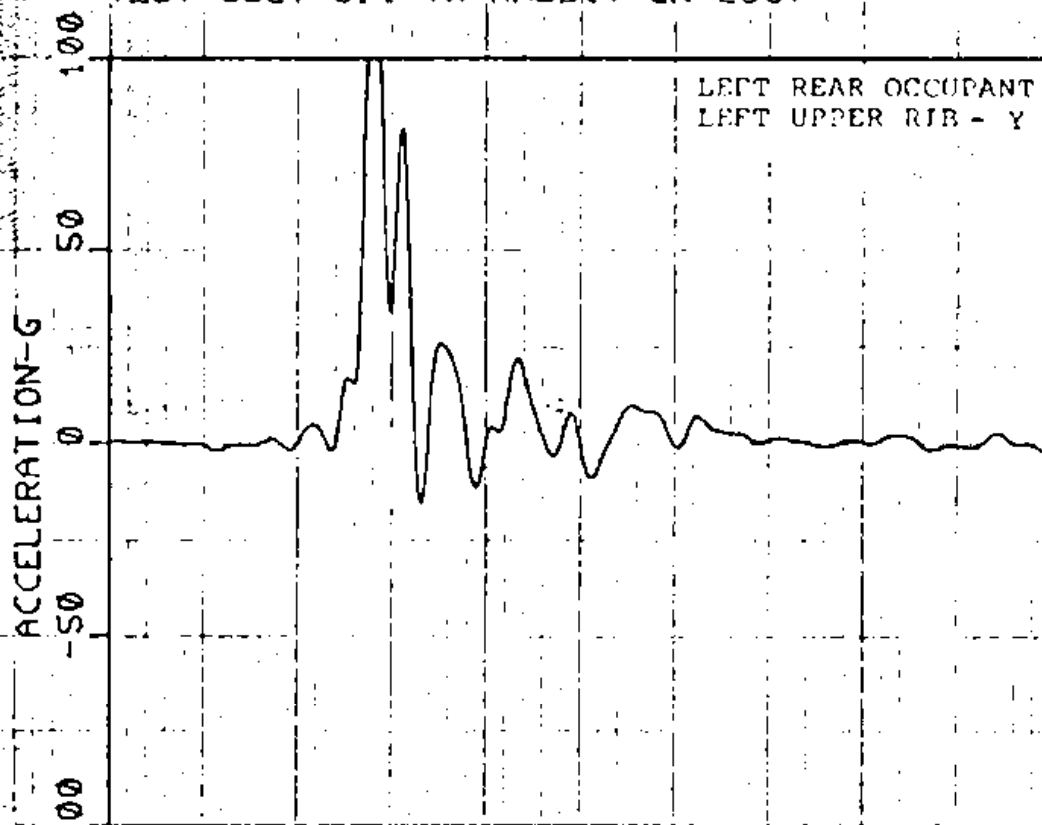
DISPLACEMENT-IN

20
10
0
-10
-20

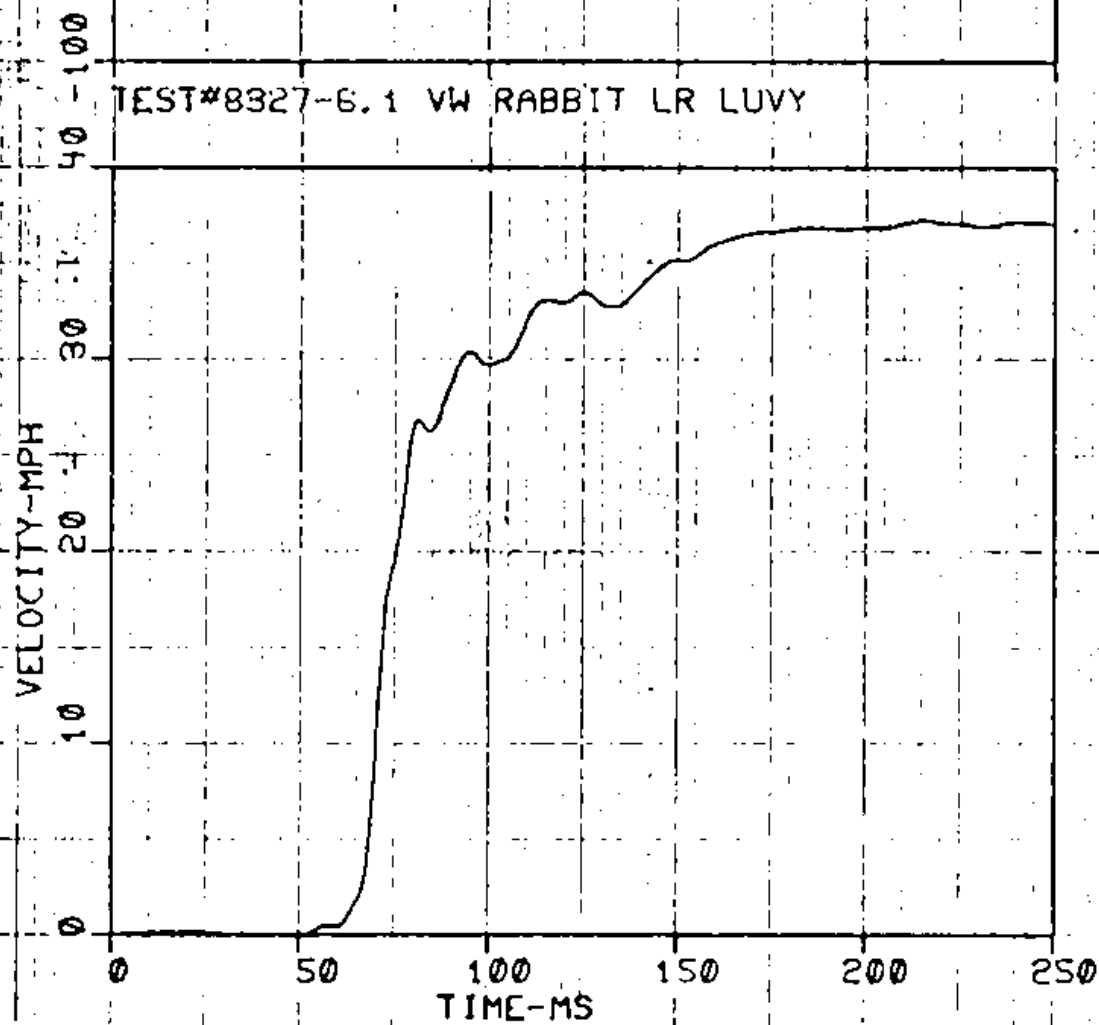
0 50 100 150 200 250
TIME-MS

n-141

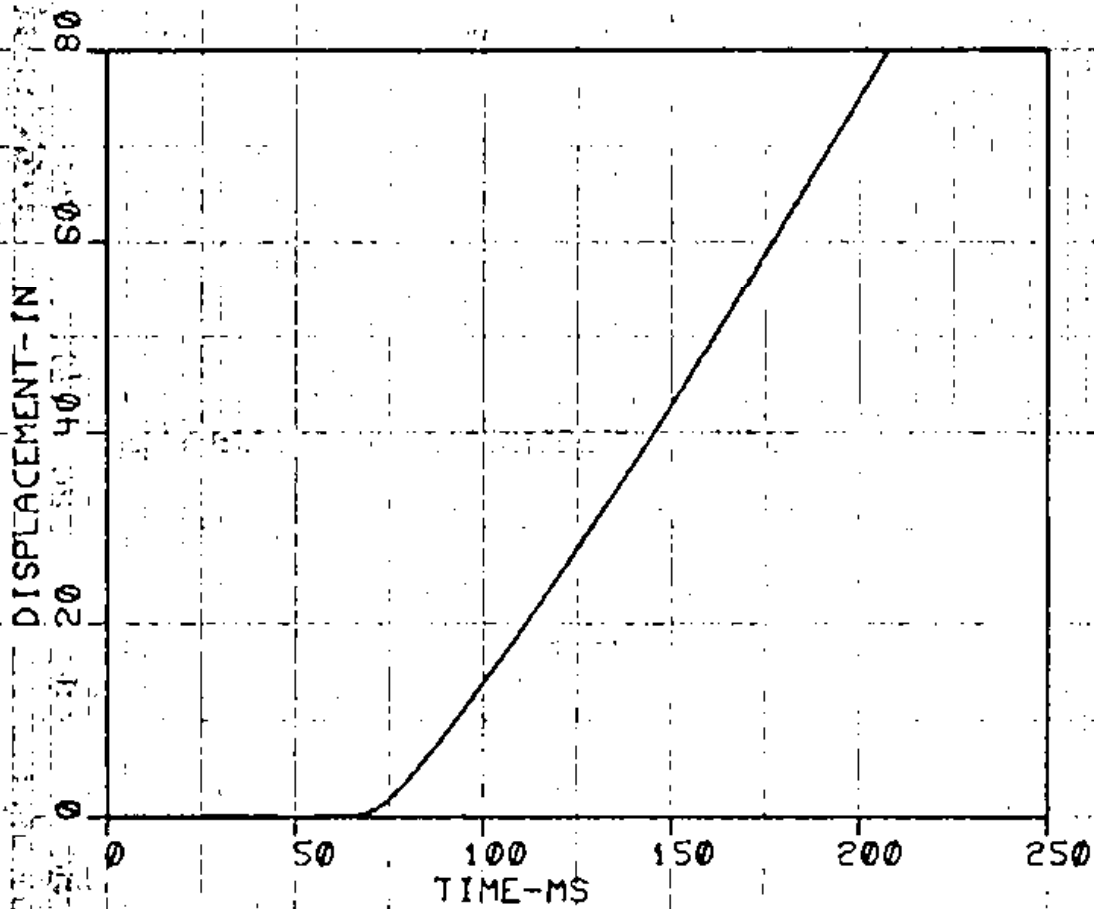
TEST#8327-6.1 VW RABBIT LR LUGY



TEST#8327-6.1 VW RABBIT LR LUVY

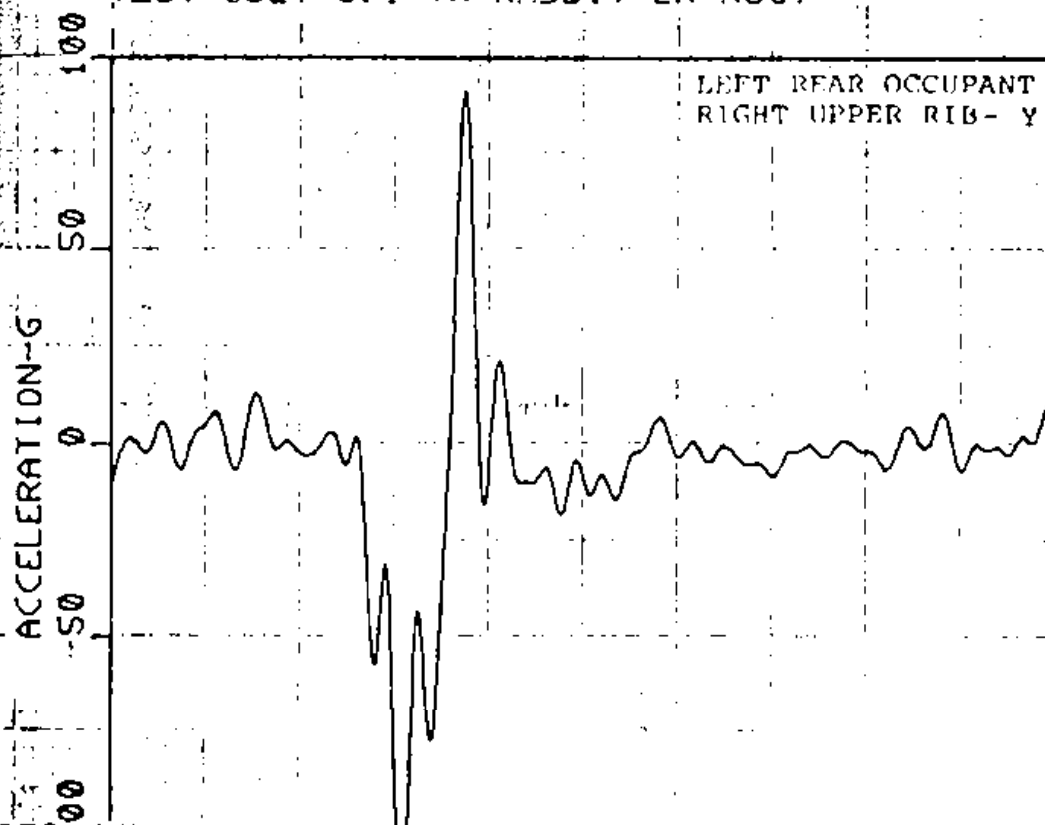


TEST#8327-6.1 VW RABBIT LR LUSY

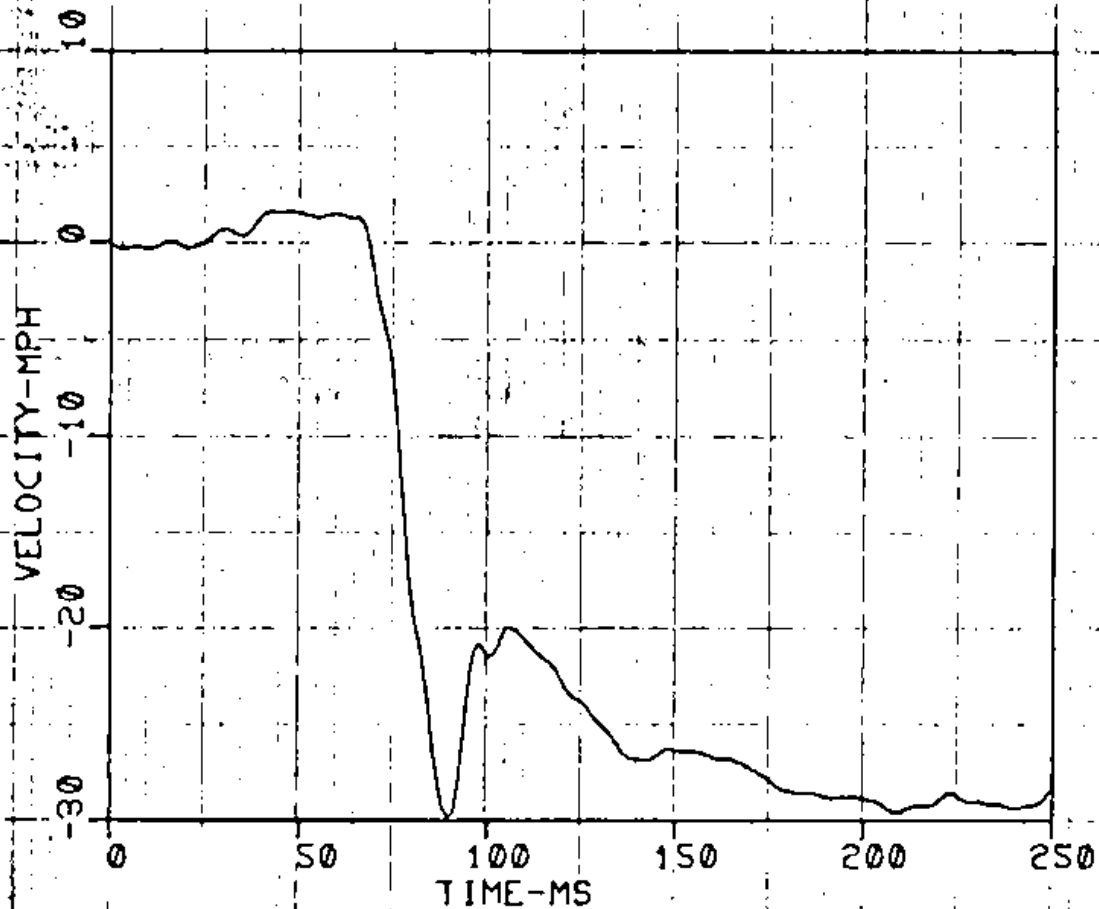


B-143

TEST#8327-6.1 VW RABBIT LR RUGY



TEST#8327-6.1 VW RABBIT LR RUVY



TEST#8327-6.1 VW RABBIT LR RUSY

DISPLACEMENT-IN

20

0

-20

-40

-60

0

50

100

150

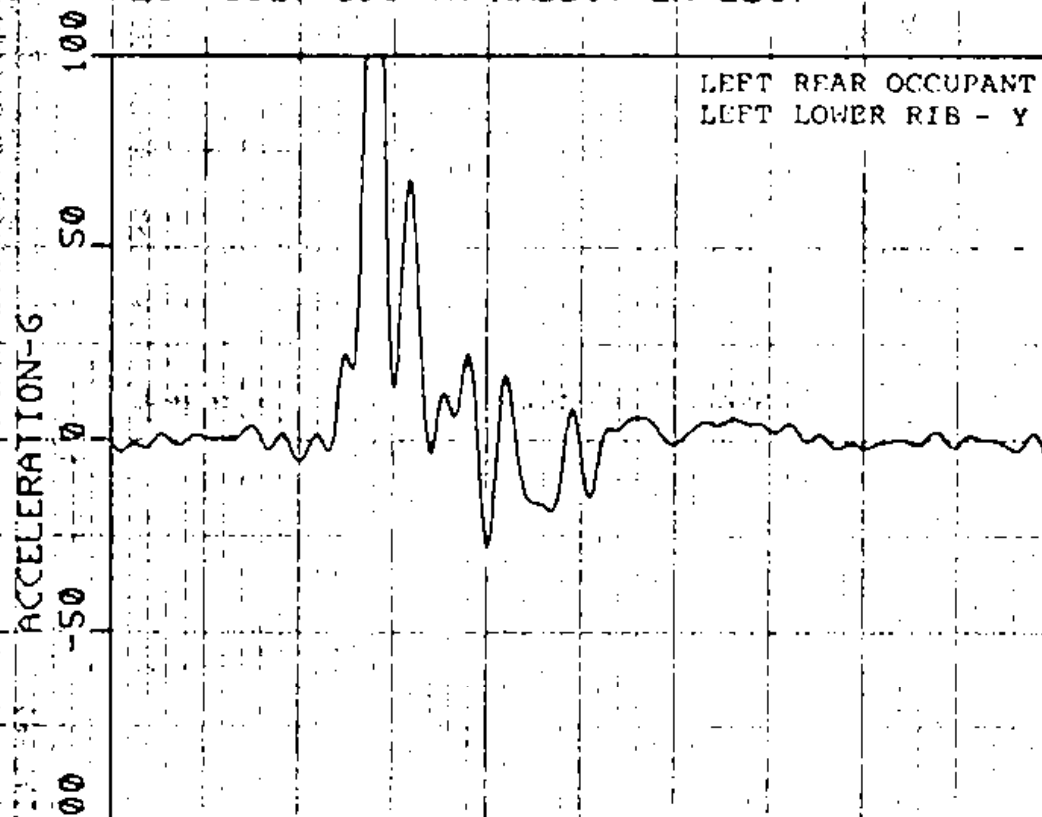
200

250

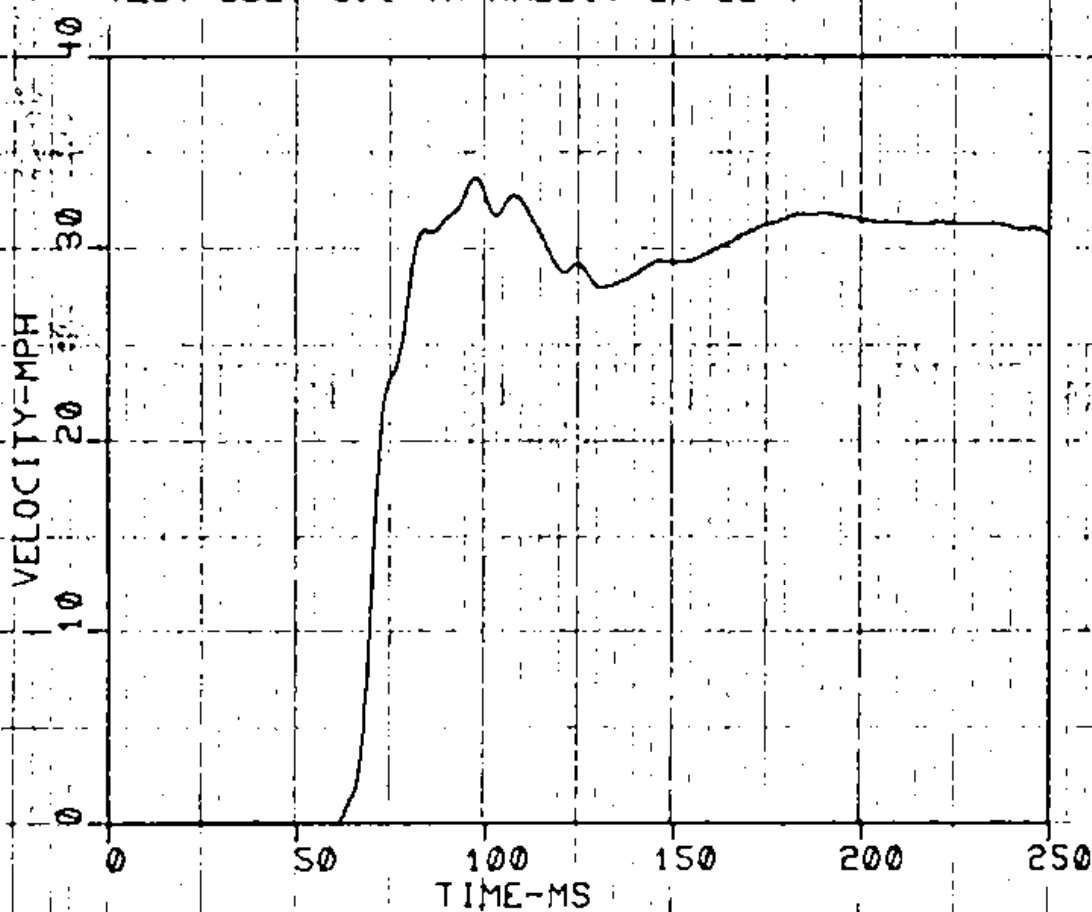
TIME-MS

B-145

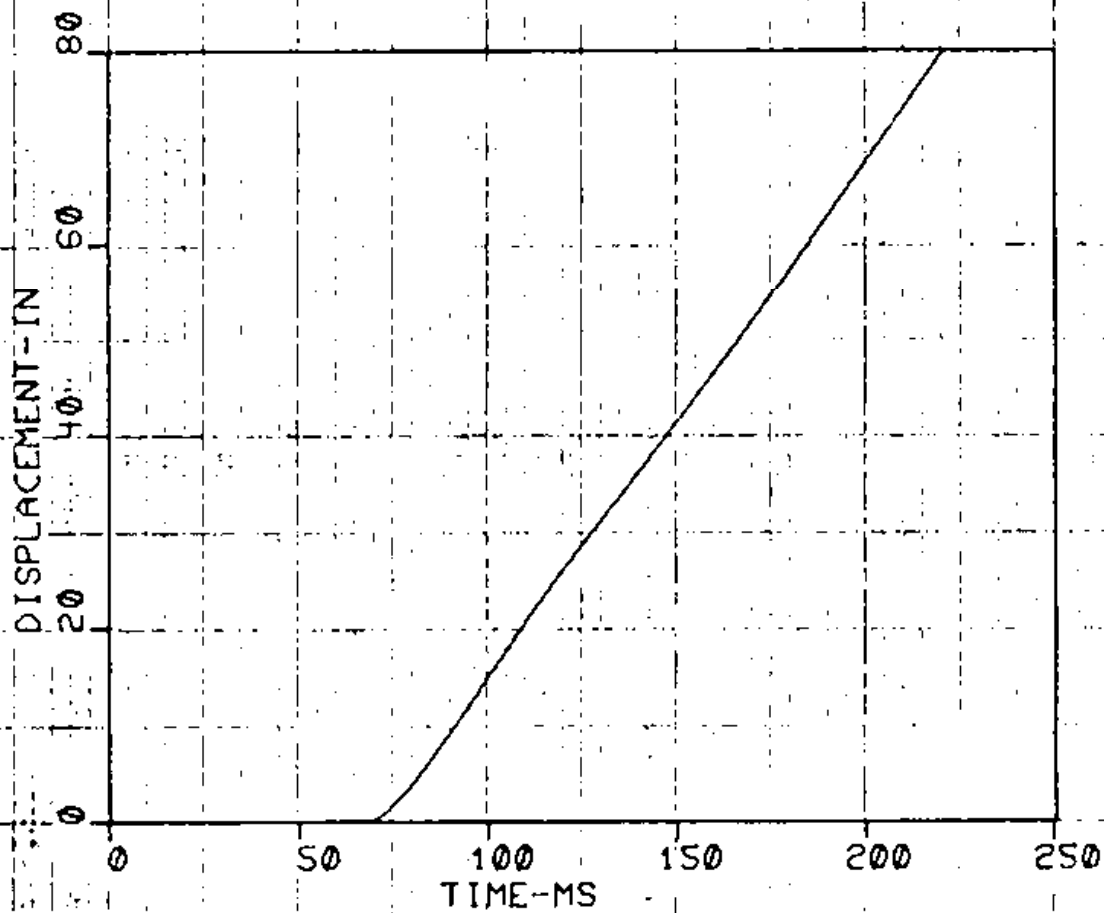
TEST#8327-6.1 VW RABBIT LR LLGY



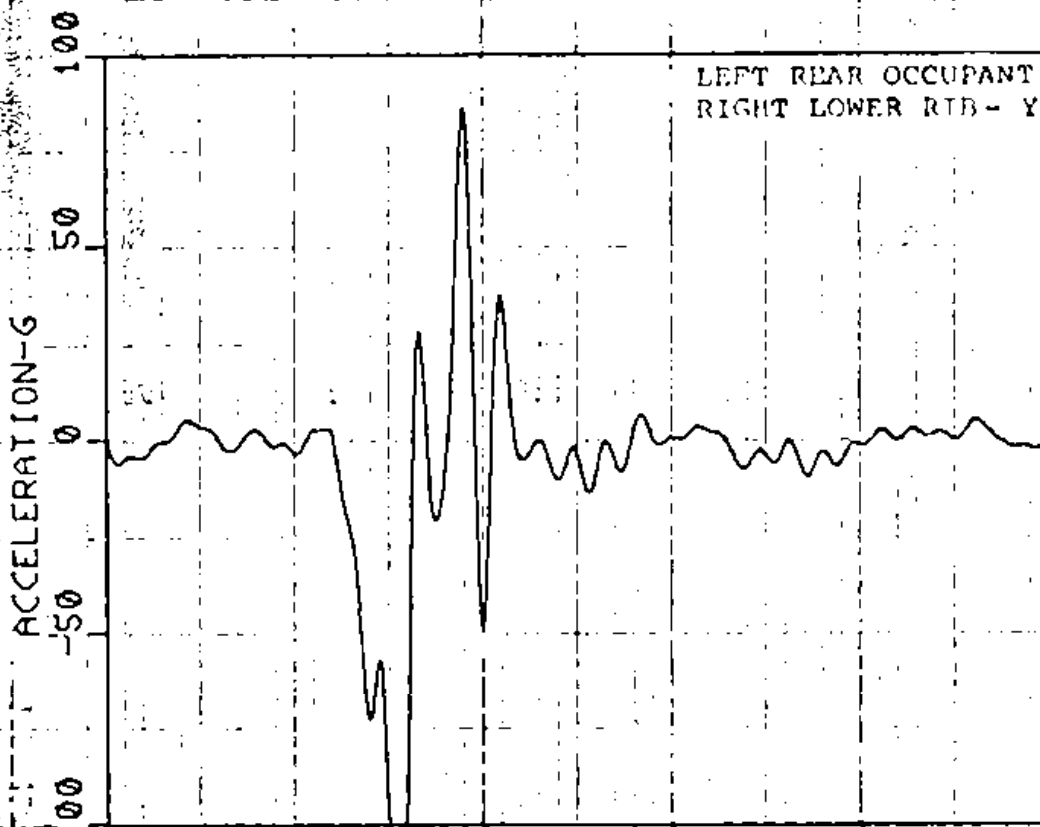
TEST#8327-6.1 VW RABBIT LR LLVY



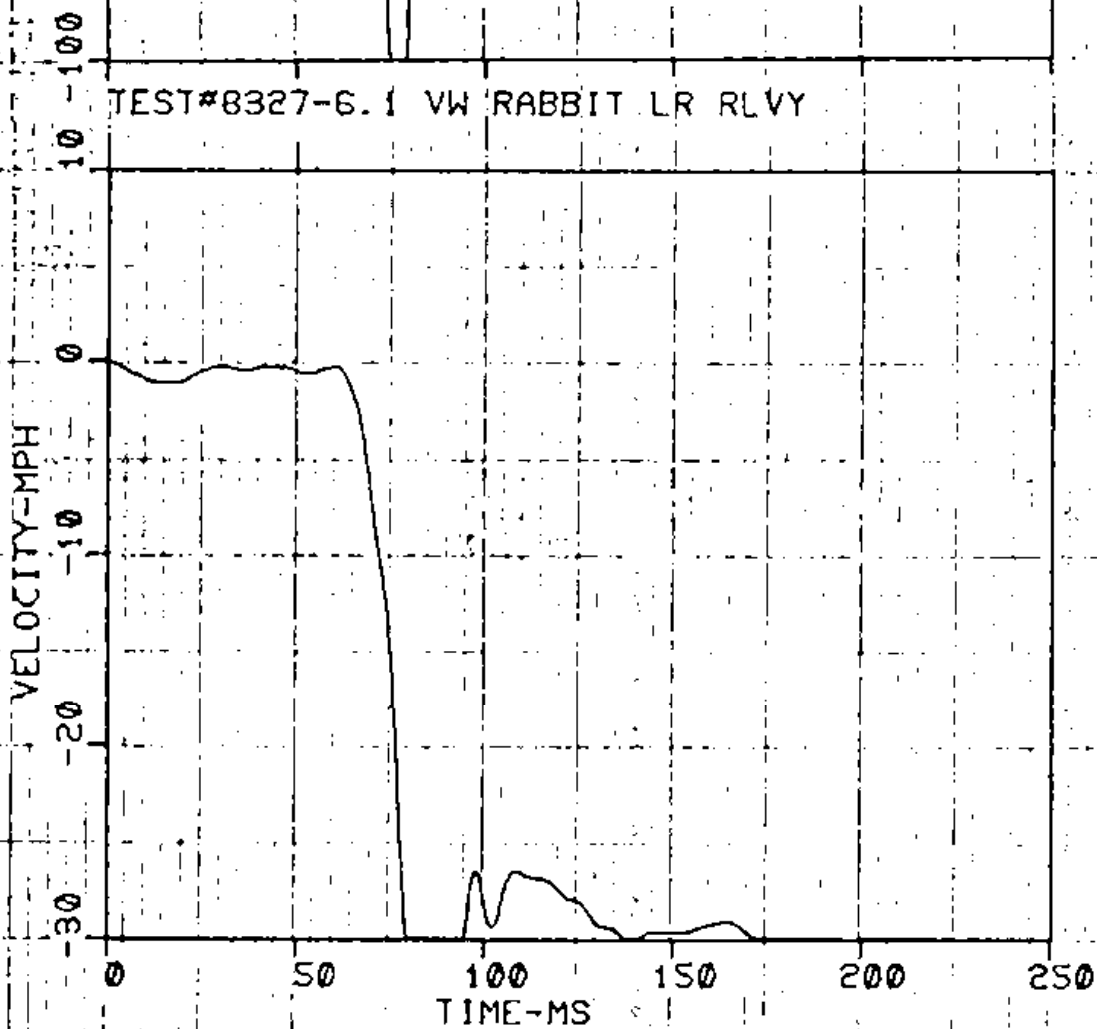
TEST#8327-6.1 VW RABBIT LR LLSY



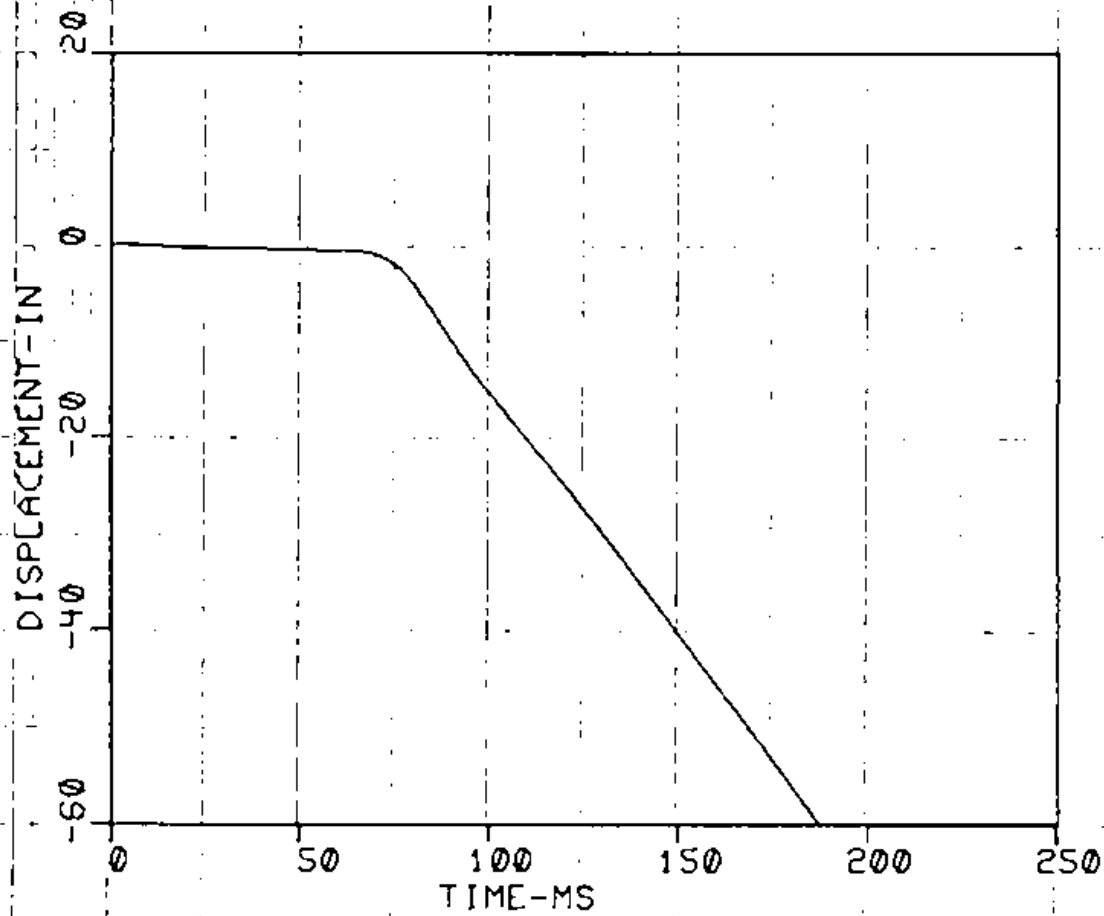
TEST#8327-6.1 VW RABBIT LR RLGY



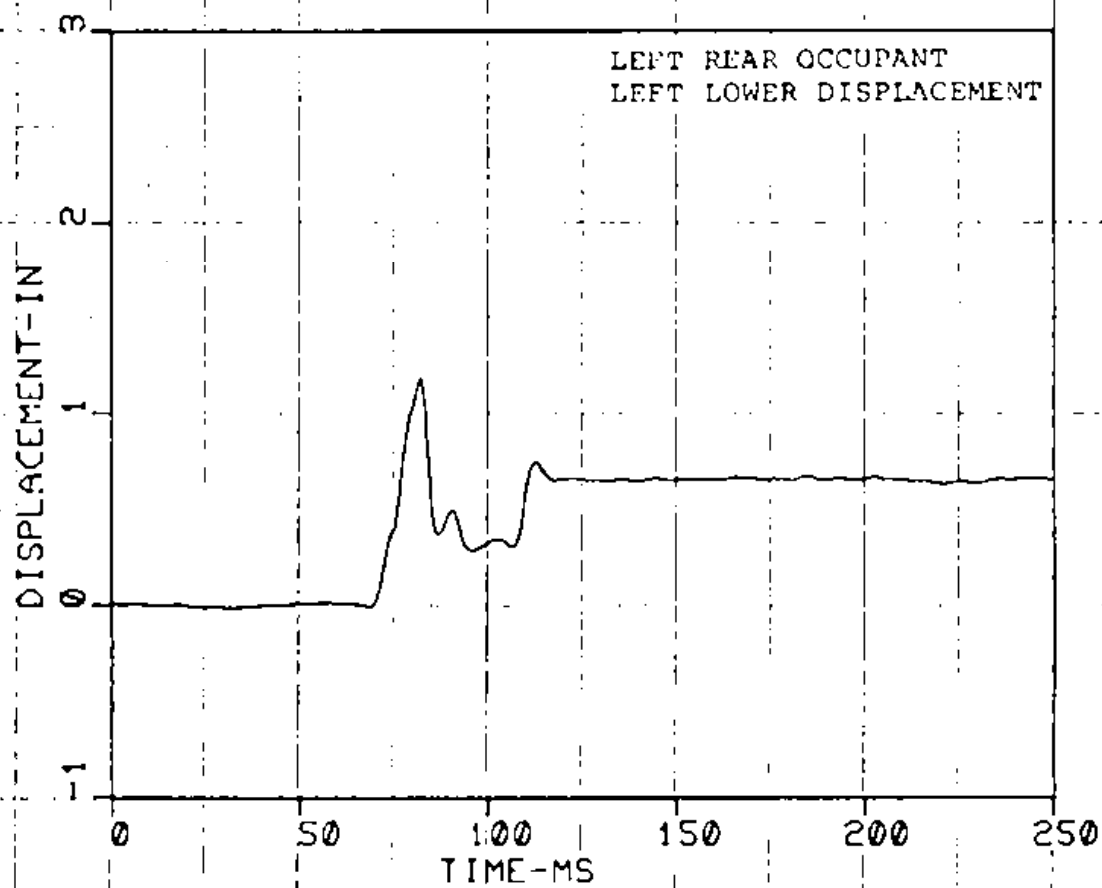
TEST#8327-6.1 VW RABBIT LR RLGY



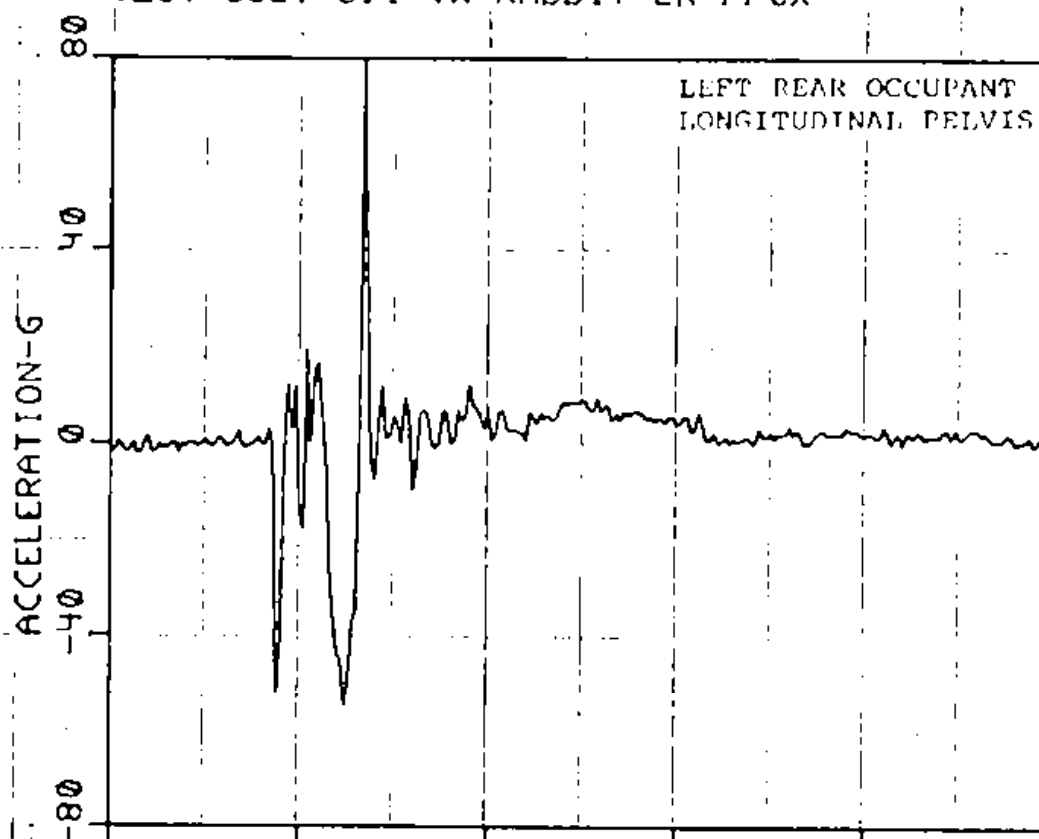
TEST#8327-6.1 VW RABBIT LR RLSY



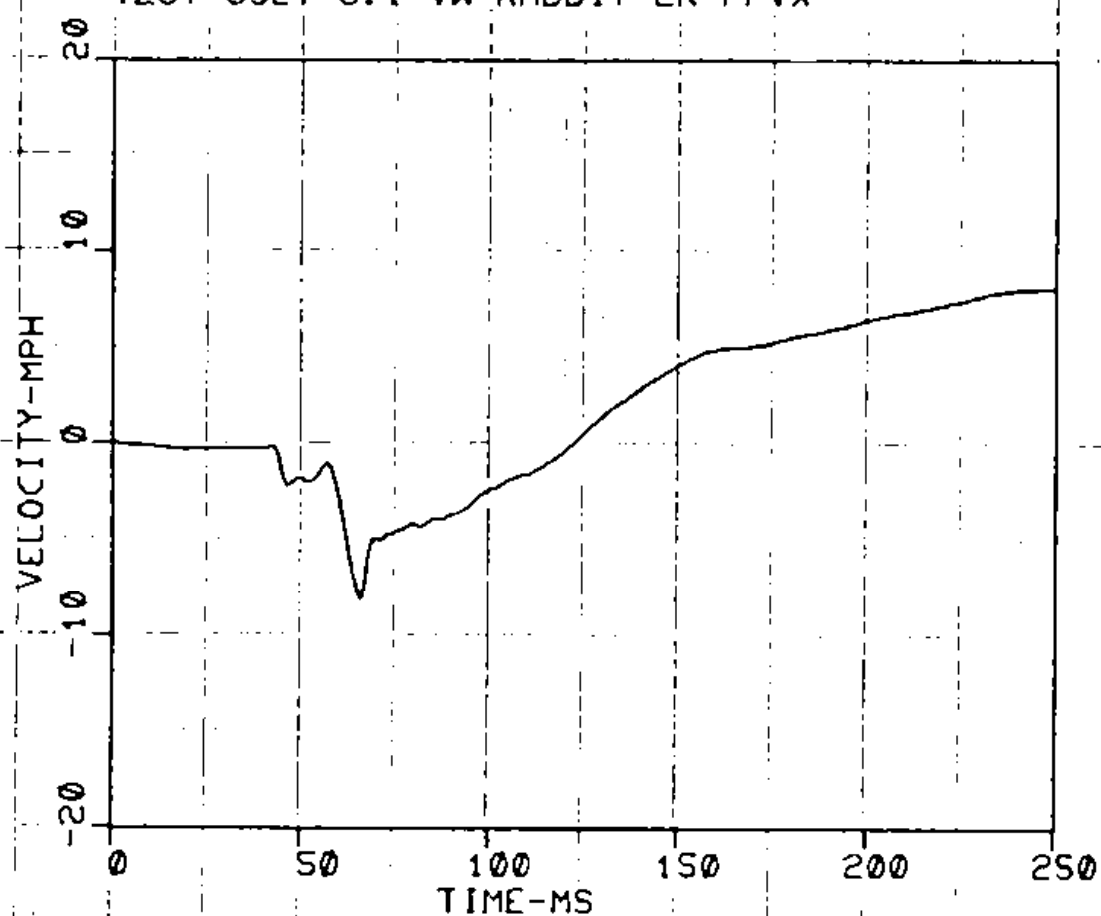
TEST#8327-6.1 VW RABBIT LR LLDY



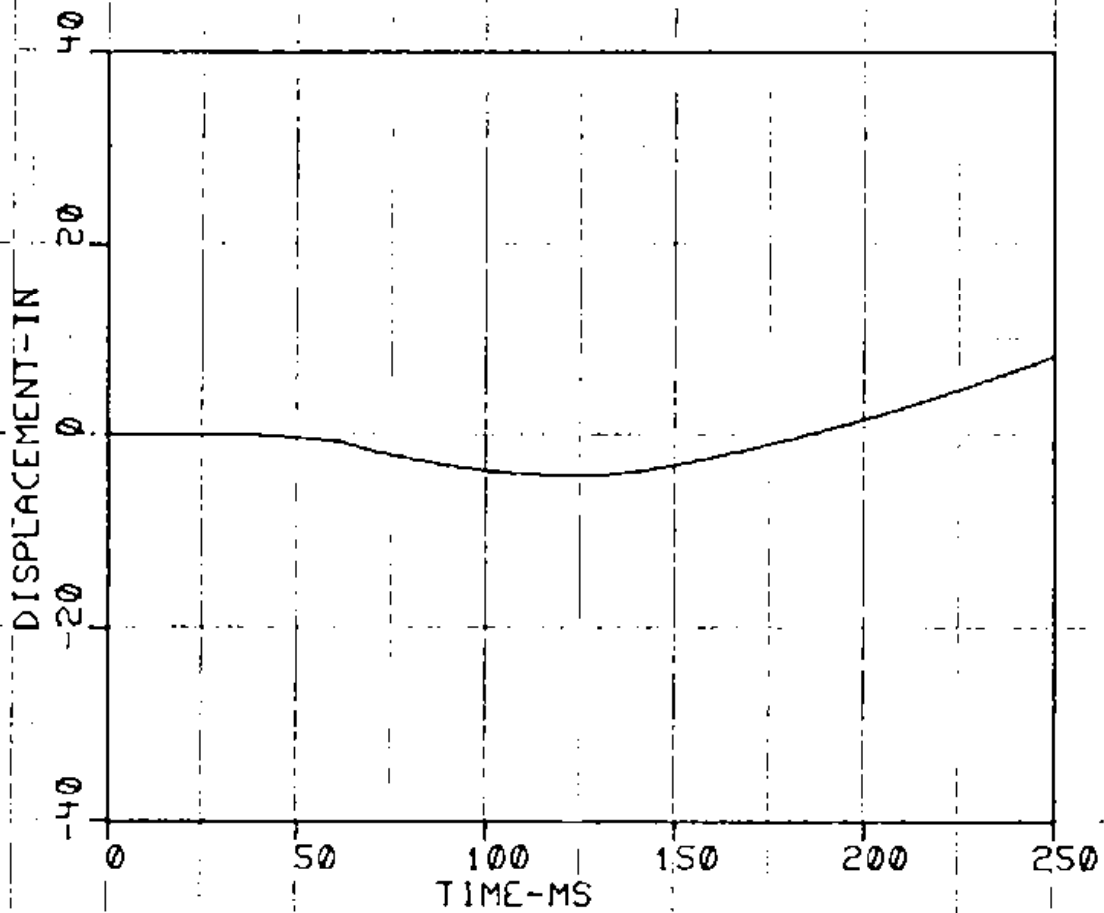
TEST#8327-6.1 VW RABBIT LR PPGX



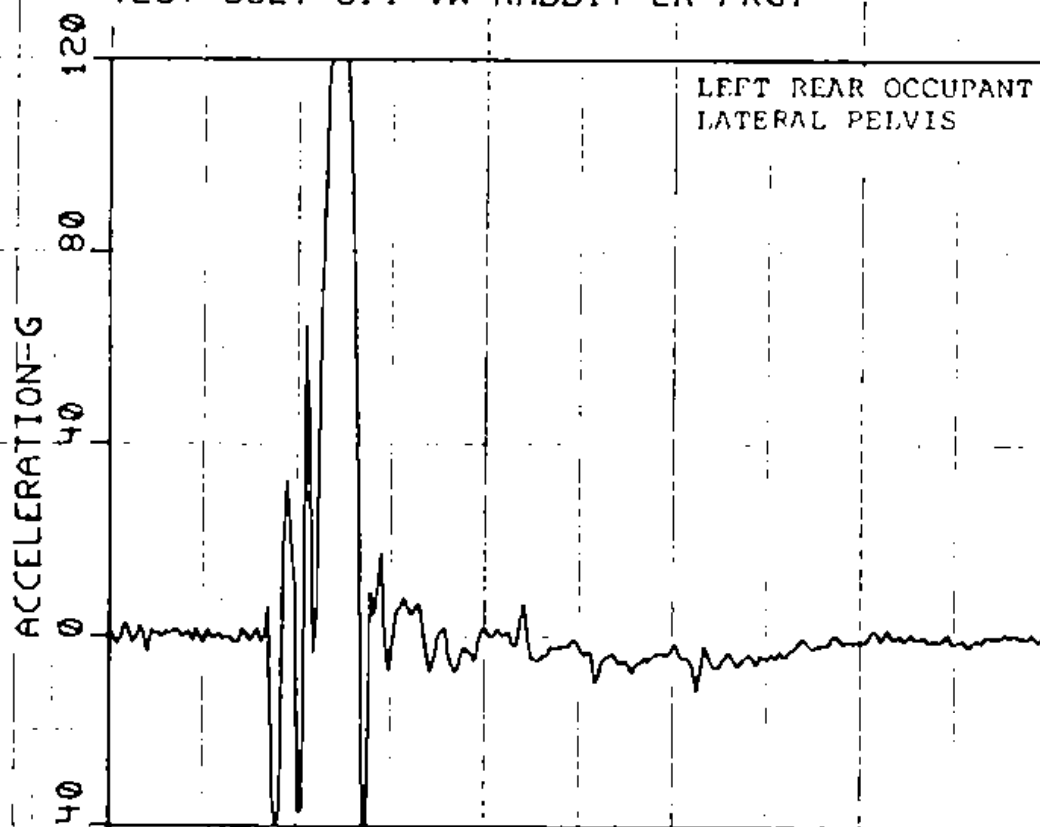
TEST#8327-6.1 VW RABBIT LR PPVX



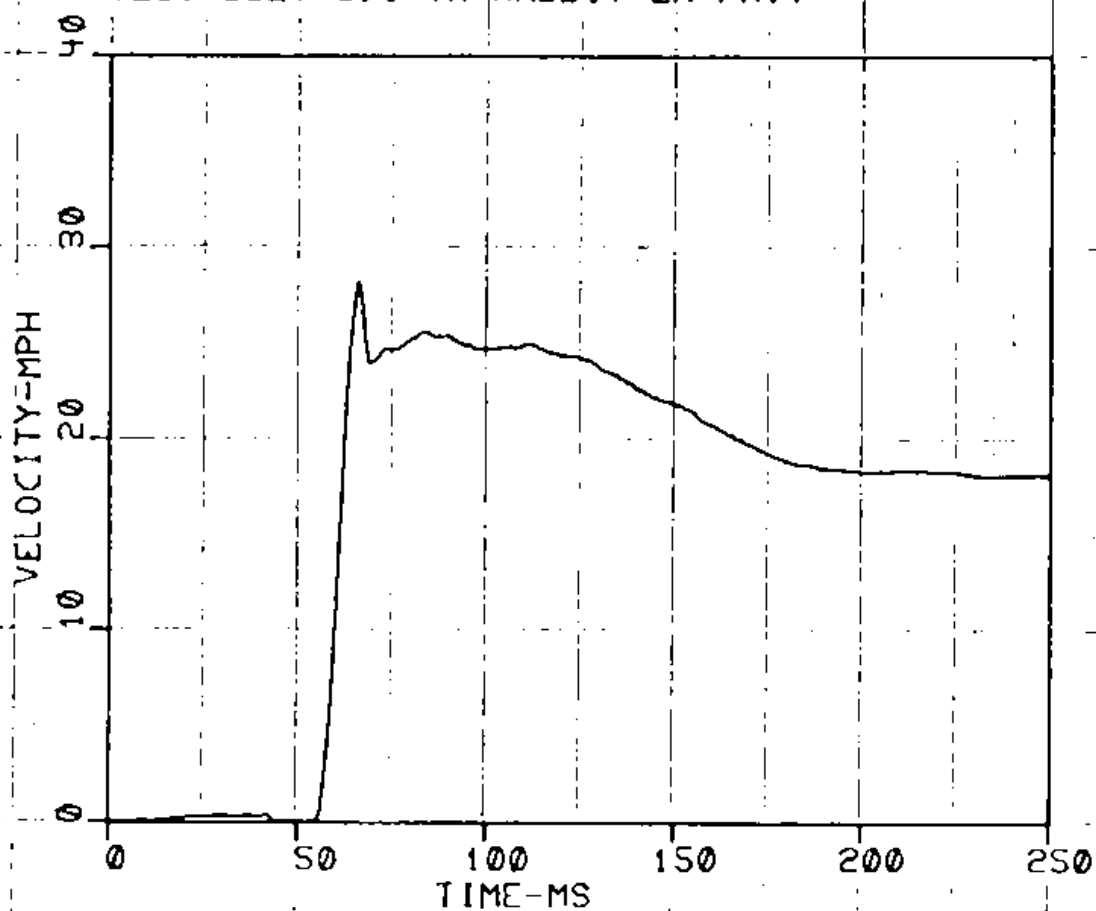
TEST#8327-6.1 VW RABBIT LR PPSX



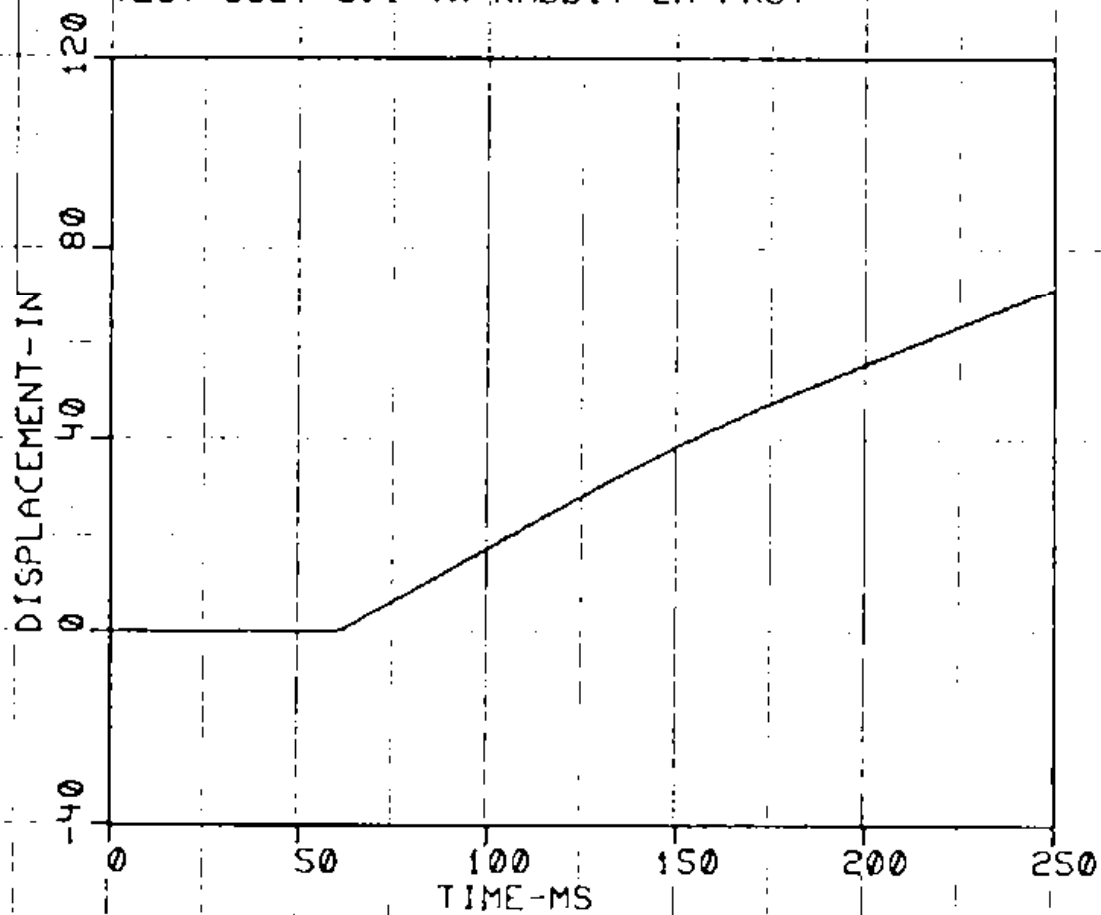
TEST#8327-6.1 VW RABBIT LR PRGY



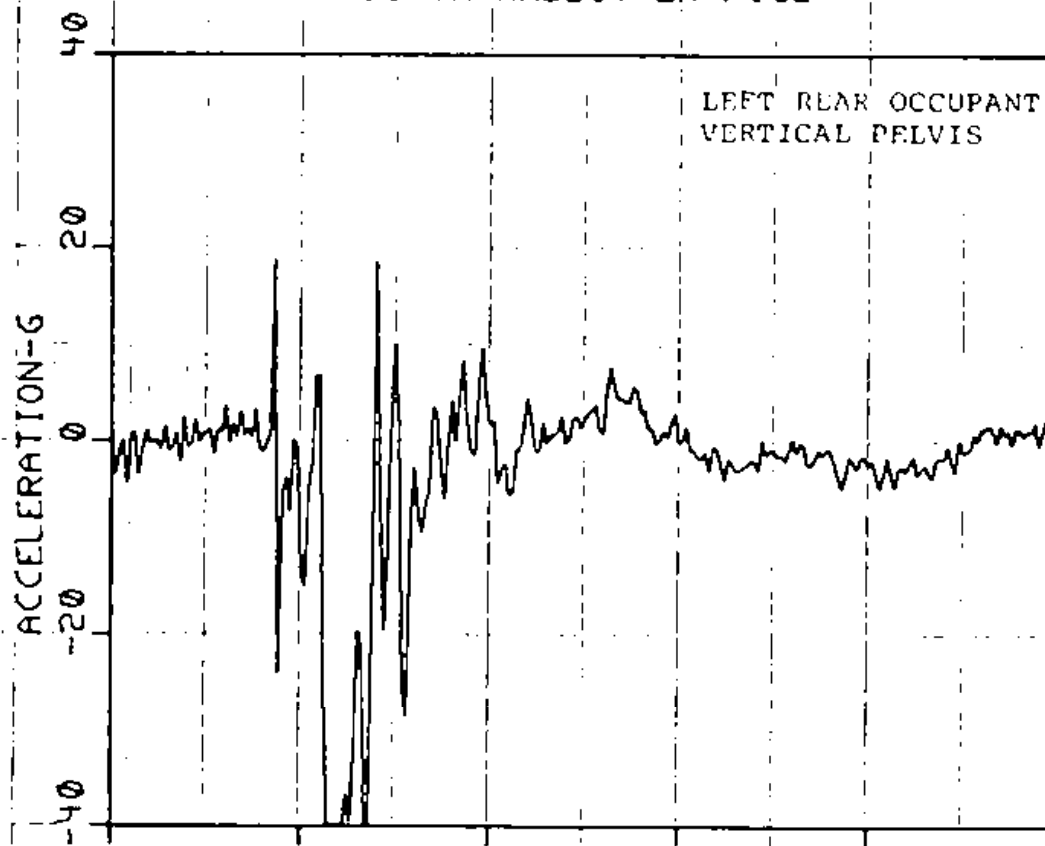
TEST#8327-6.1 VW RABBIT LR PRVY



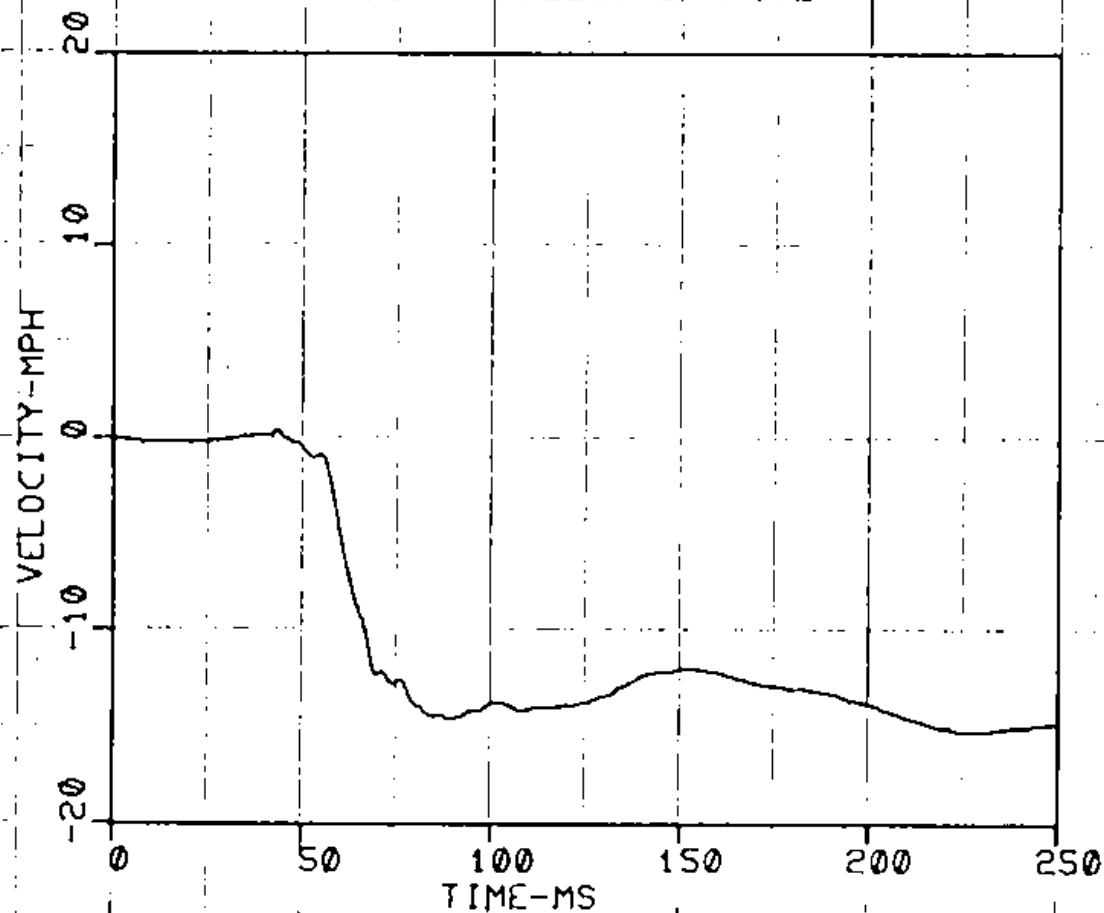
TEST#8327-6.1 VW RABBIT LR PRSY



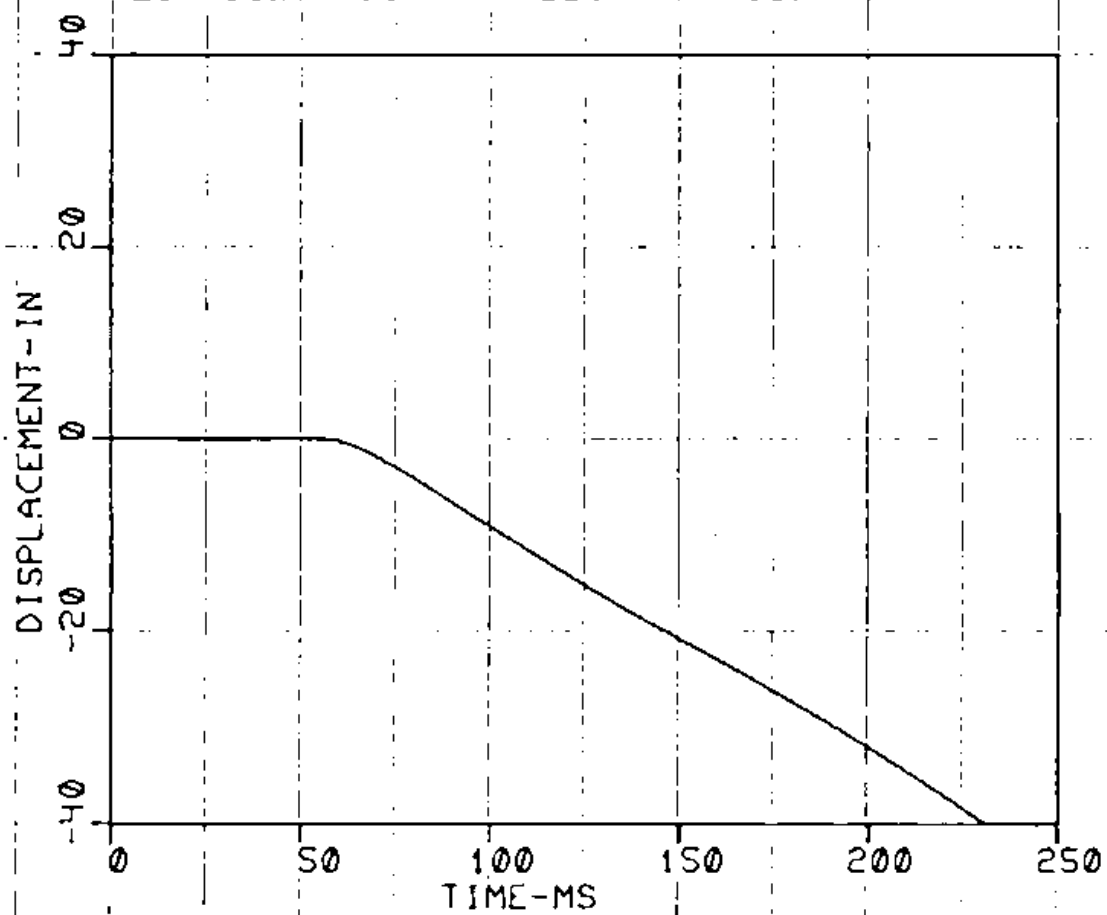
TEST#8327-6.1 VW RABBIT LR PIGZ



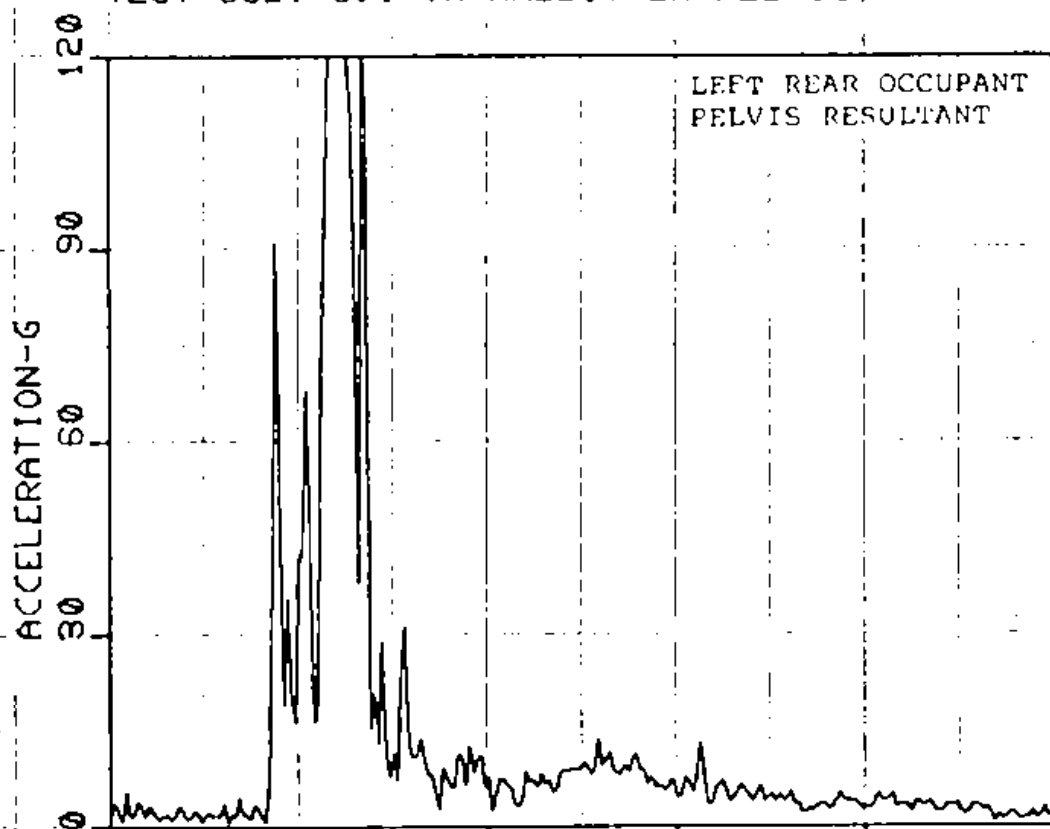
TEST#8327-6.1 VW RABBIT LR PIVZ



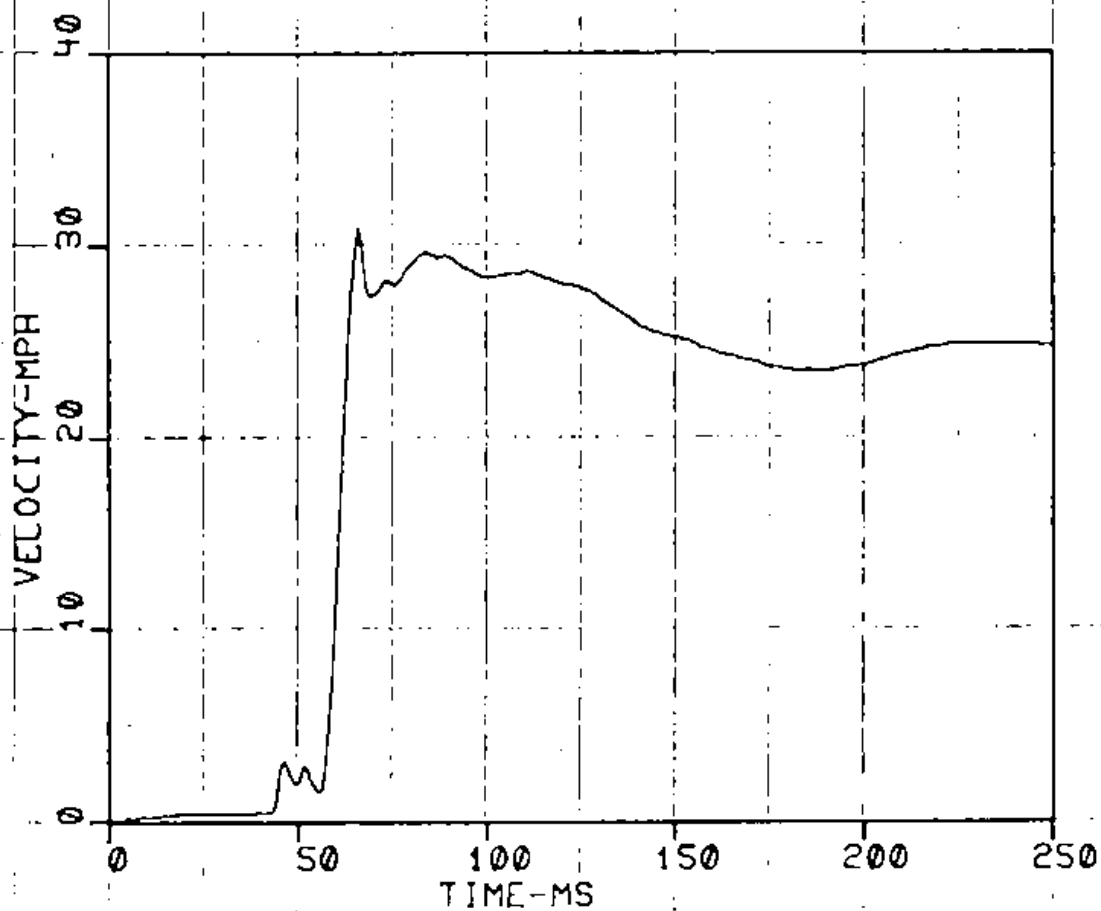
TEST#8327-6.1 VW RABBIT LR PISZ



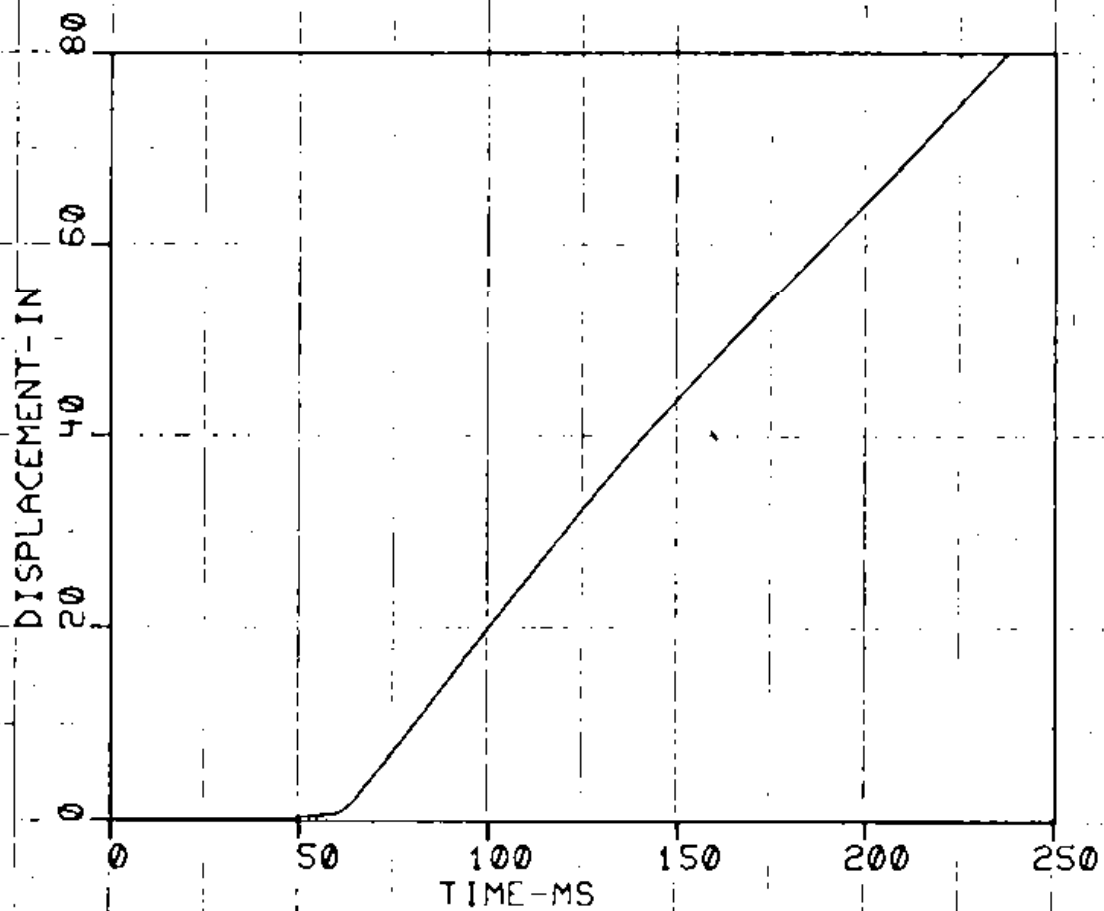
TEST#8327-6.1 VW RABBIT LR PELVIC IAR



TEST#8327-6.1 VW RABBIT LR PELVIC VR



TEST#8327-6.1 VW RABBIT LR PELVIC SR



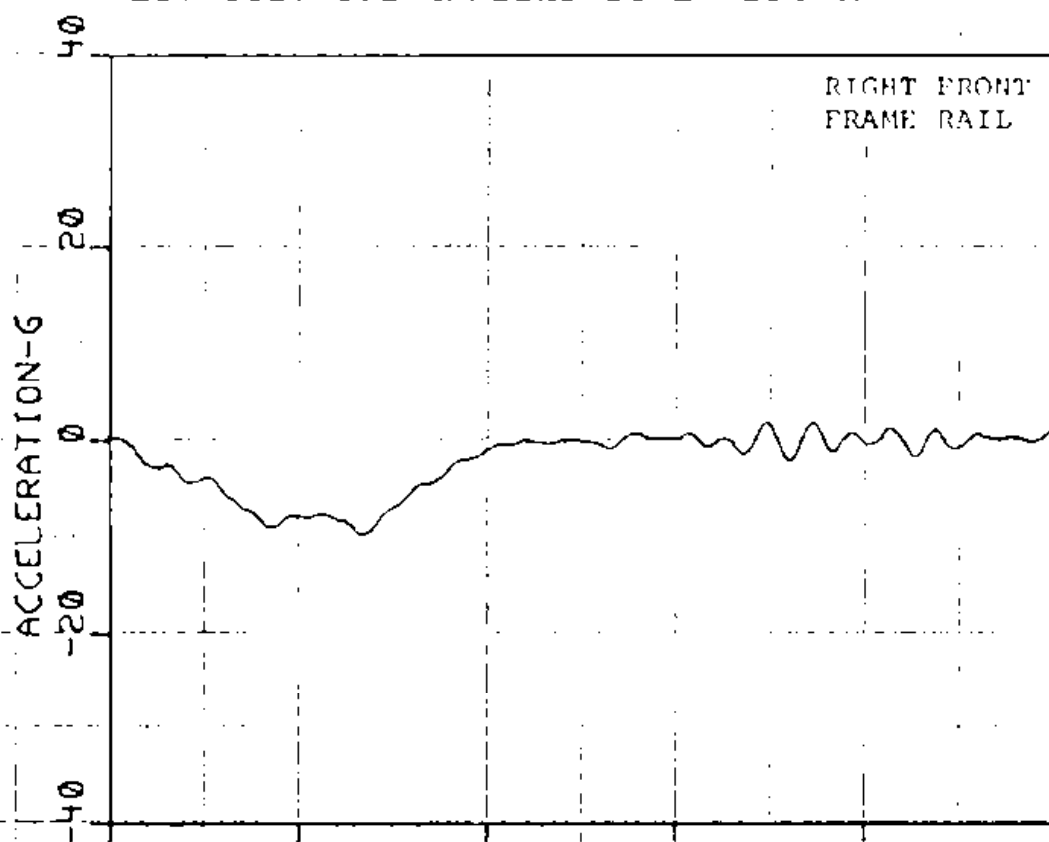
APPENDIX C

CALCOMP PLOTS
FOR TEST 8327-6.2

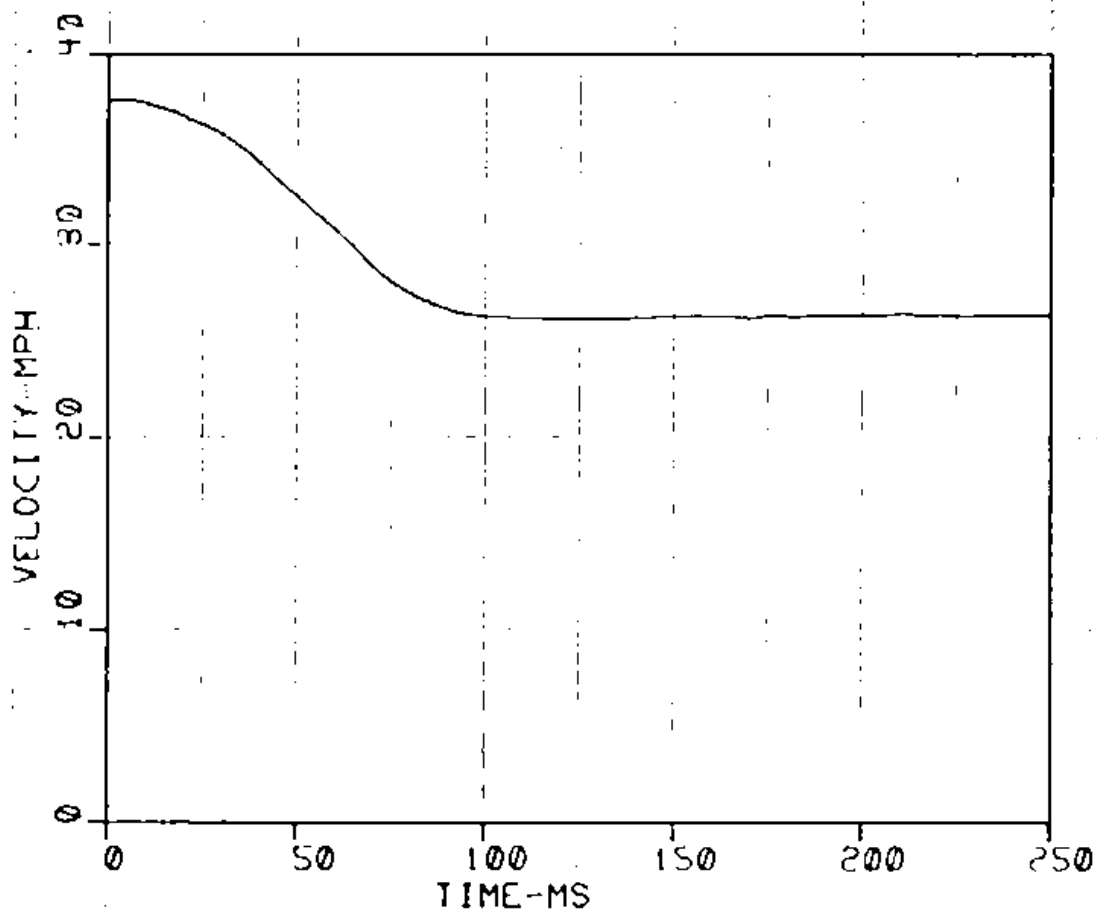
CRABBED SIDE IMPACTOR-INTO-
MODIFIED VW RABBIT AT 60°
BULLET VEHICLE SPEED = 39.8 MPH

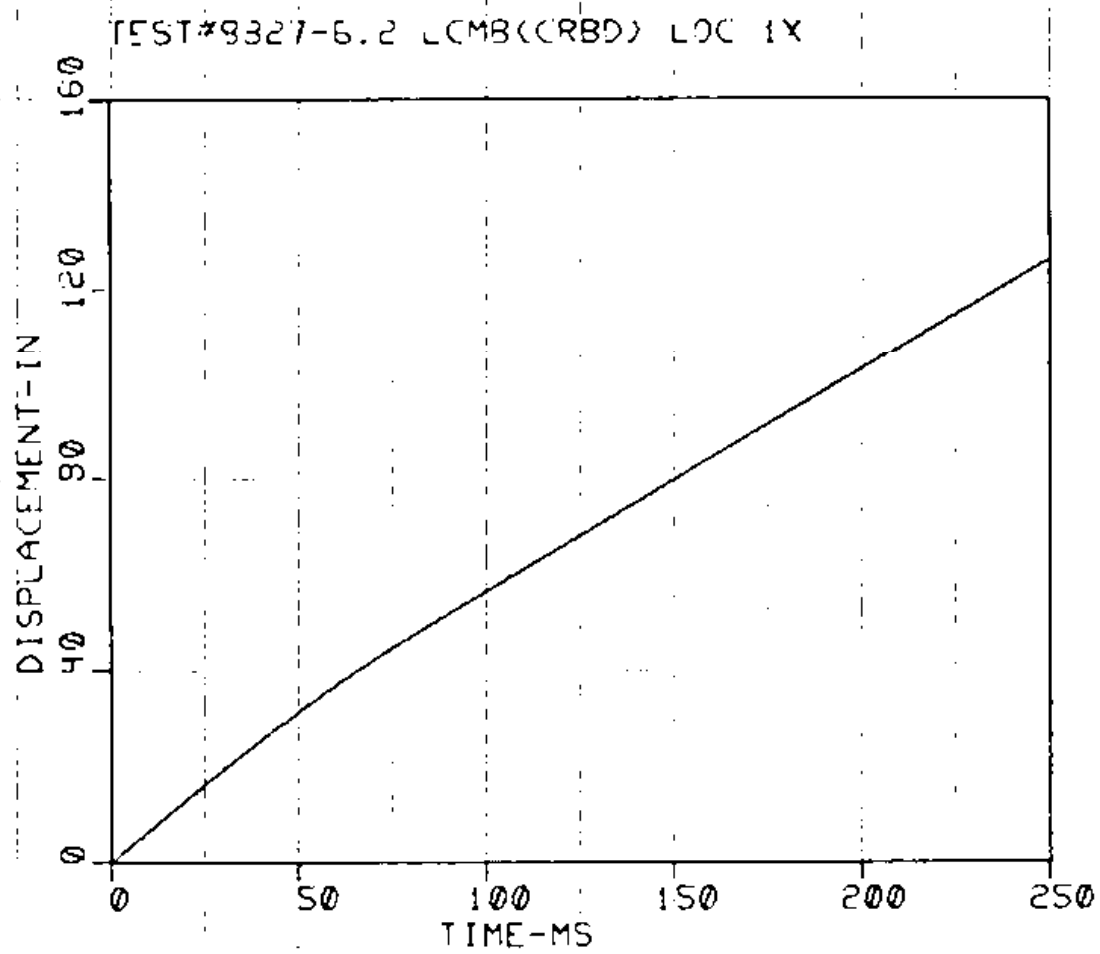
(FRONT: APR - REAR: SID)

TEST#8327-G.2 CRABBED BOGEY LOC 1X

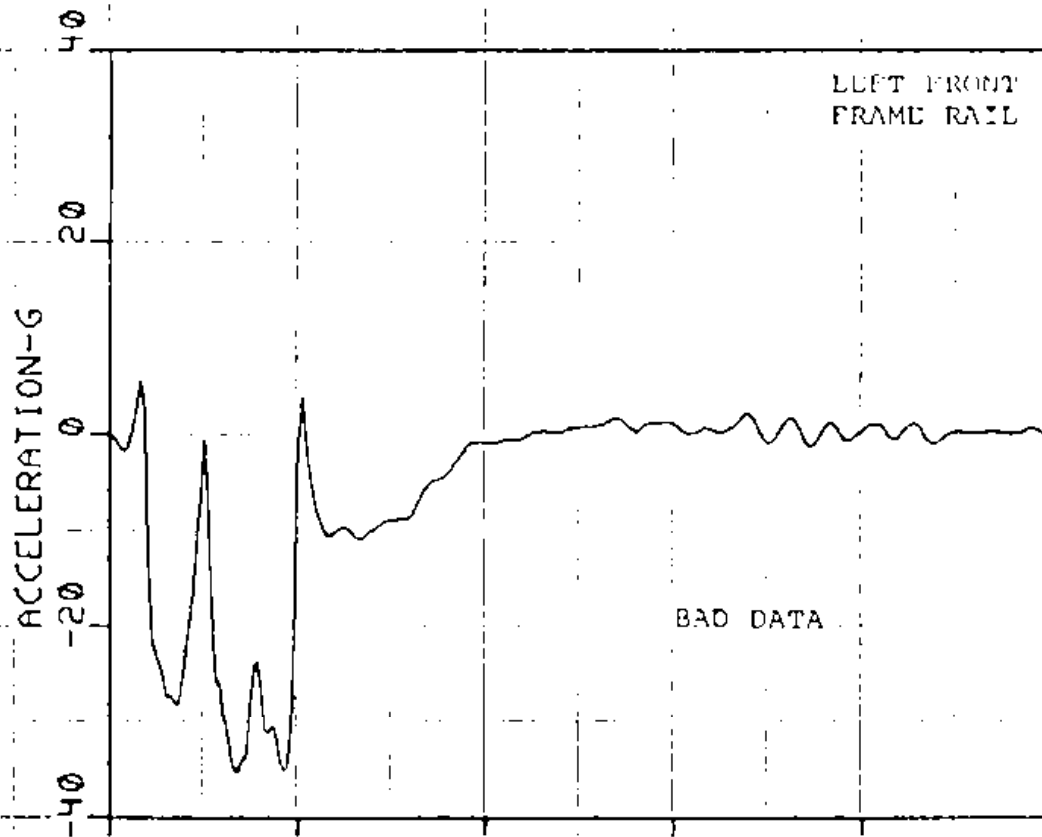


TEST#8327-G.2 LCMB(CRBD) LOC 1X

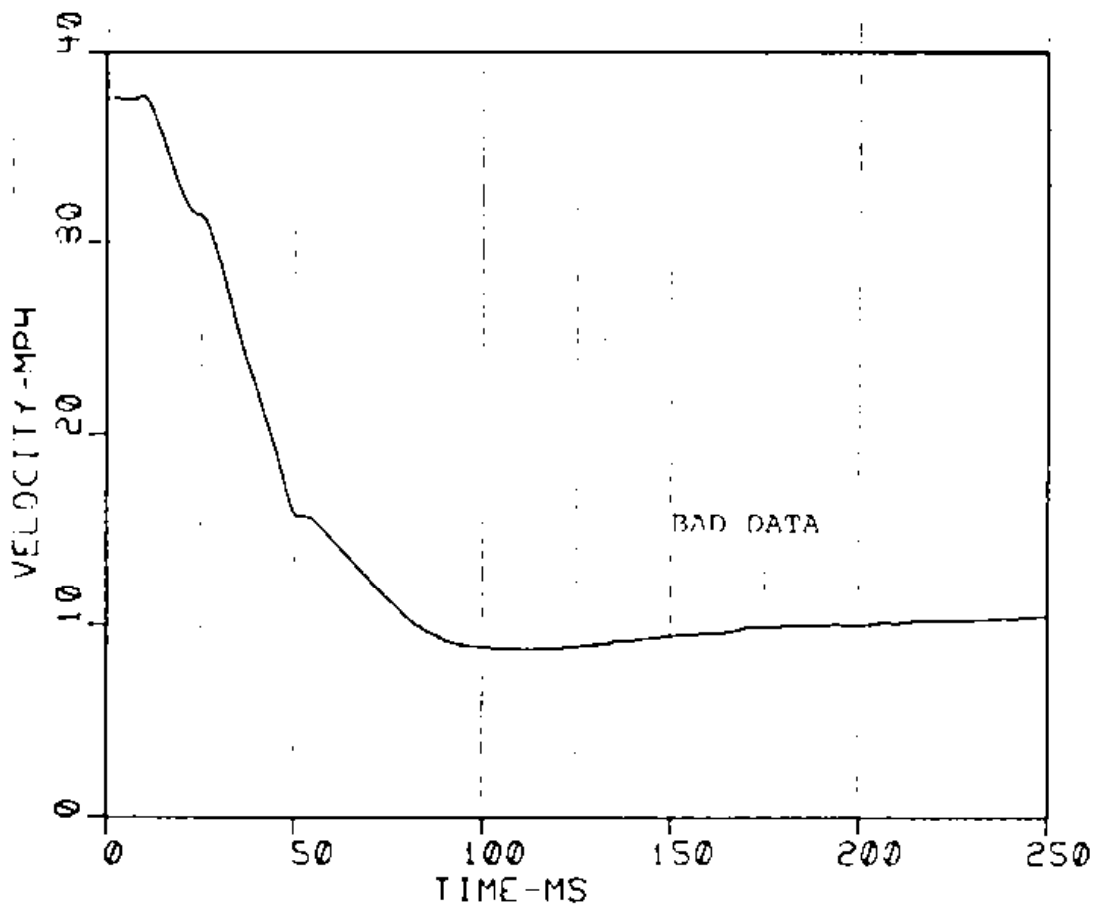




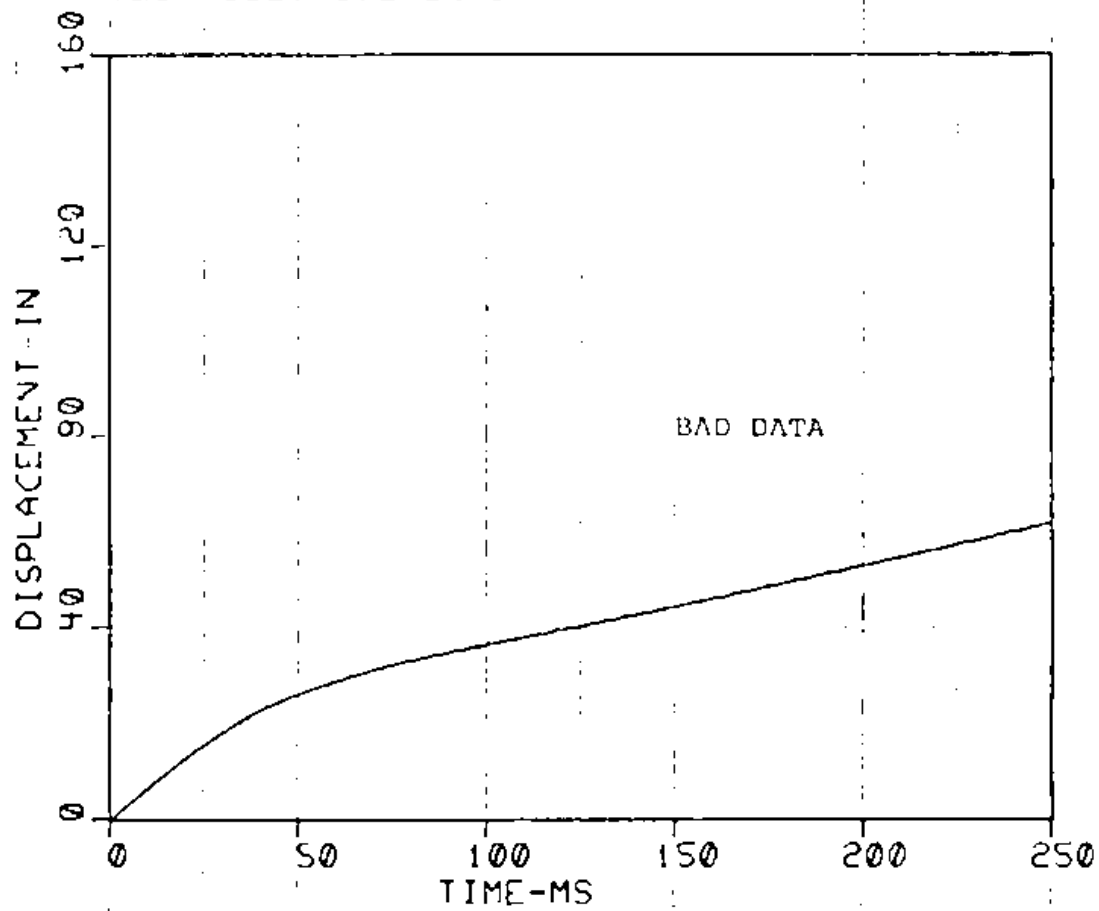
TEST#8327-6.2 CRABBED BOGEY LOC 2X



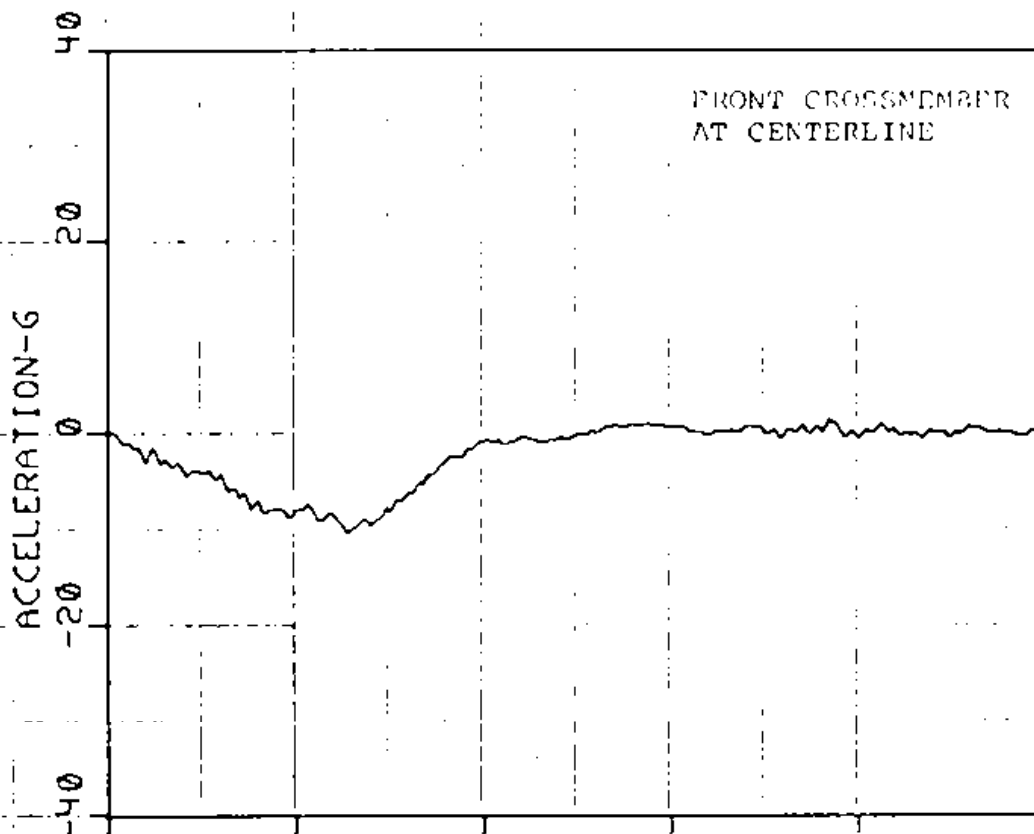
TEST#8327-6.2 LCMB(CRBD) LOC 2X



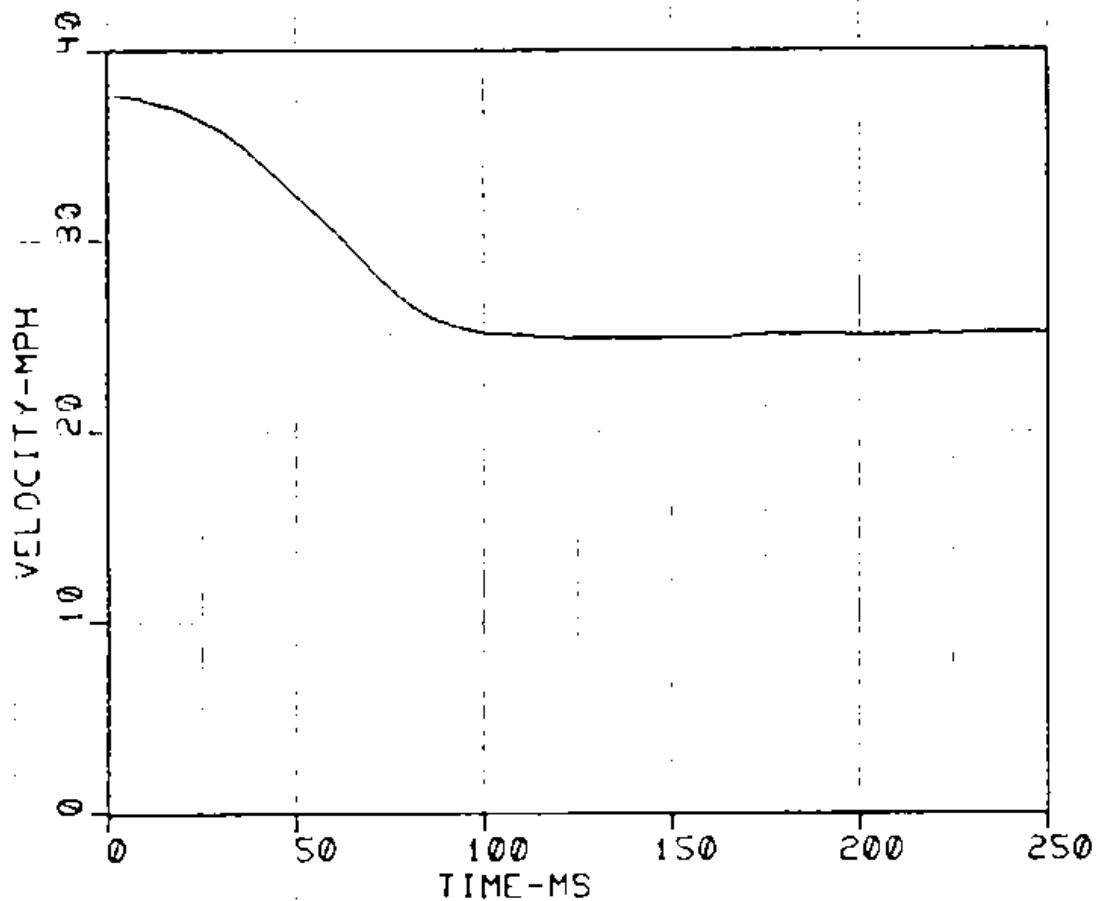
TEST#9327-6.2 LCM9(CRBD) LOC 2X

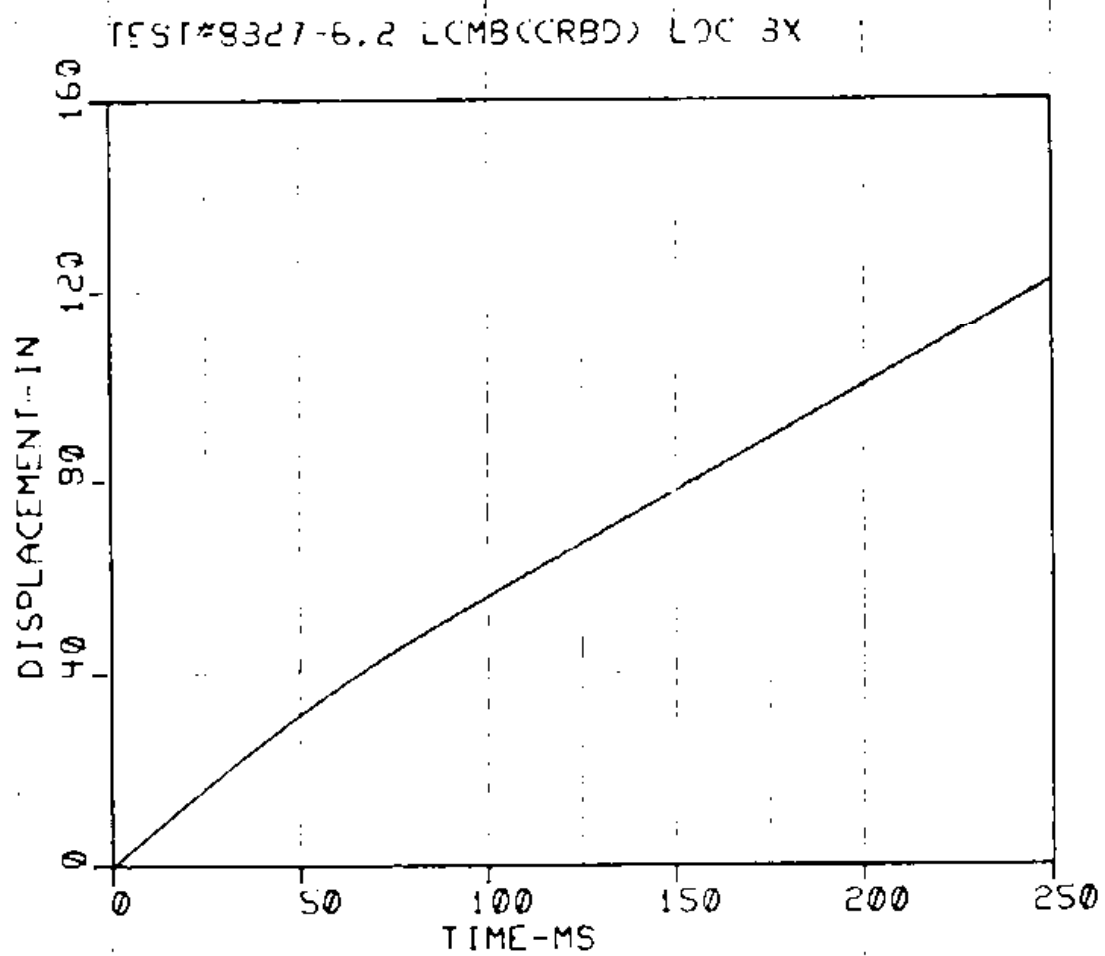


TEST#8327-6.2 CRABBED BOGEY LOC 3X

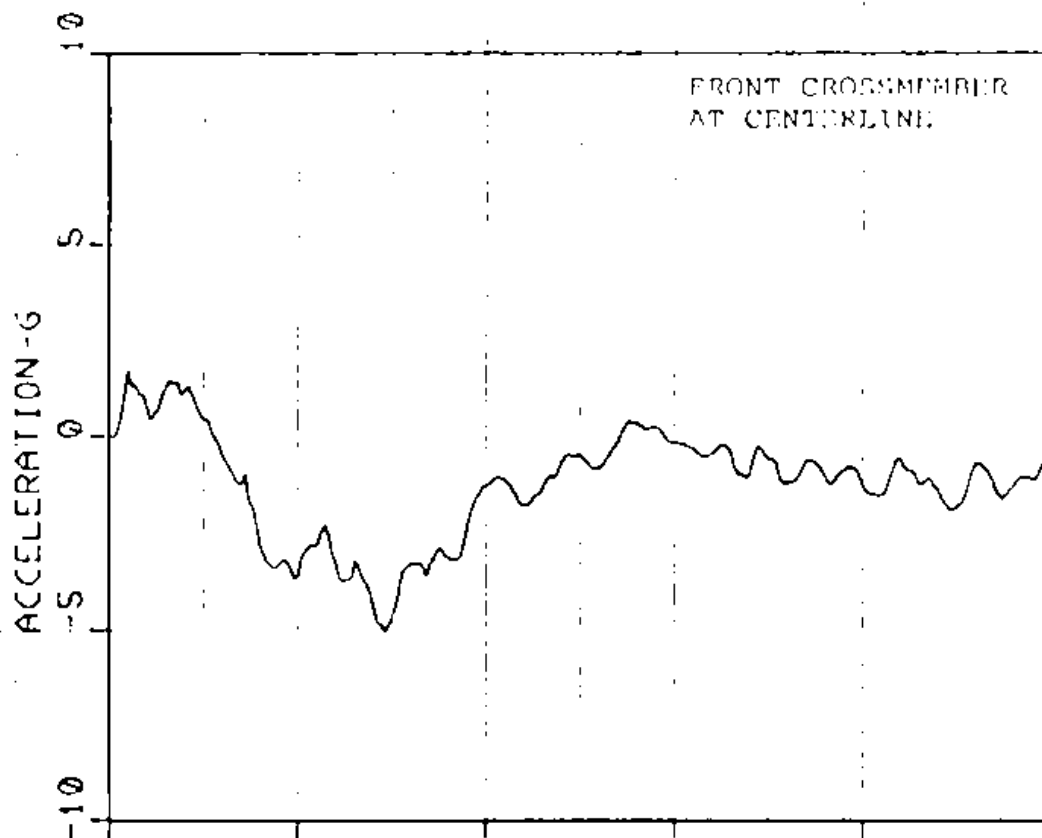


TEST#8327-6.2 LCMB(CRBD) LOC 3X

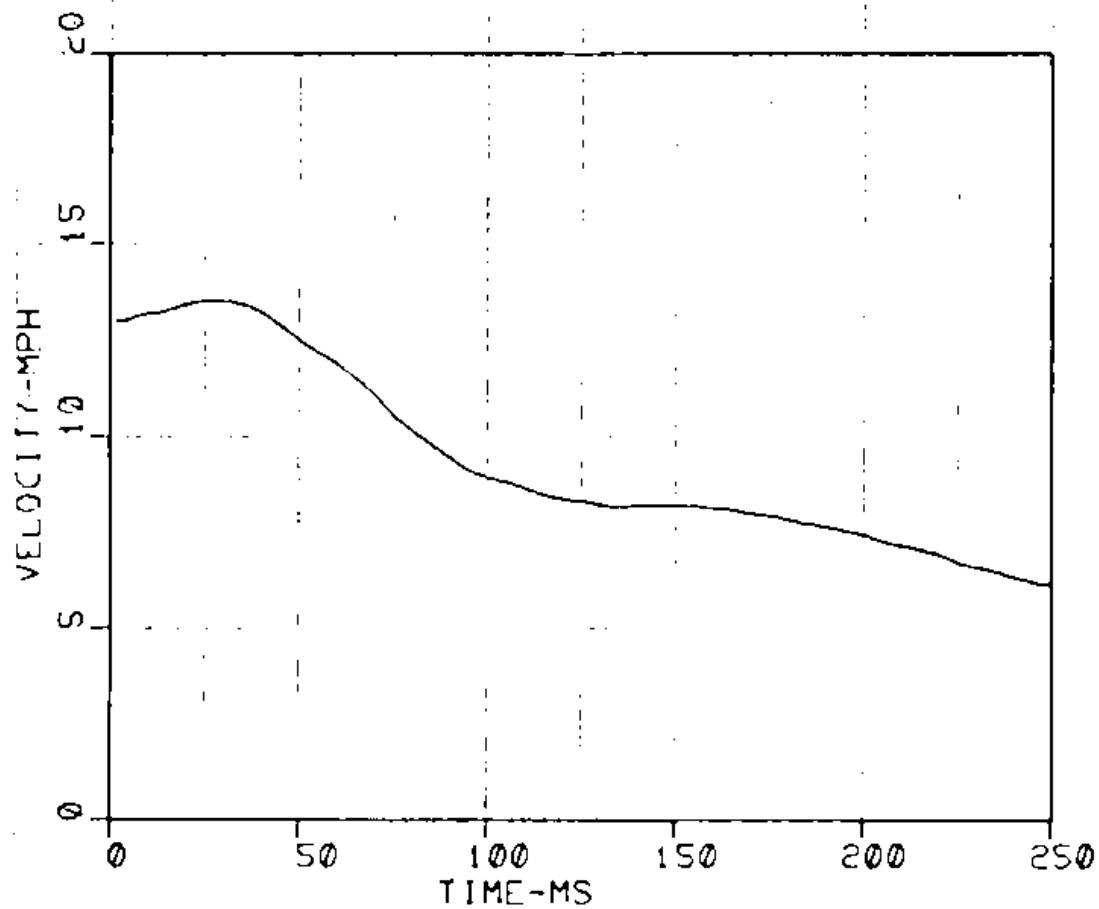




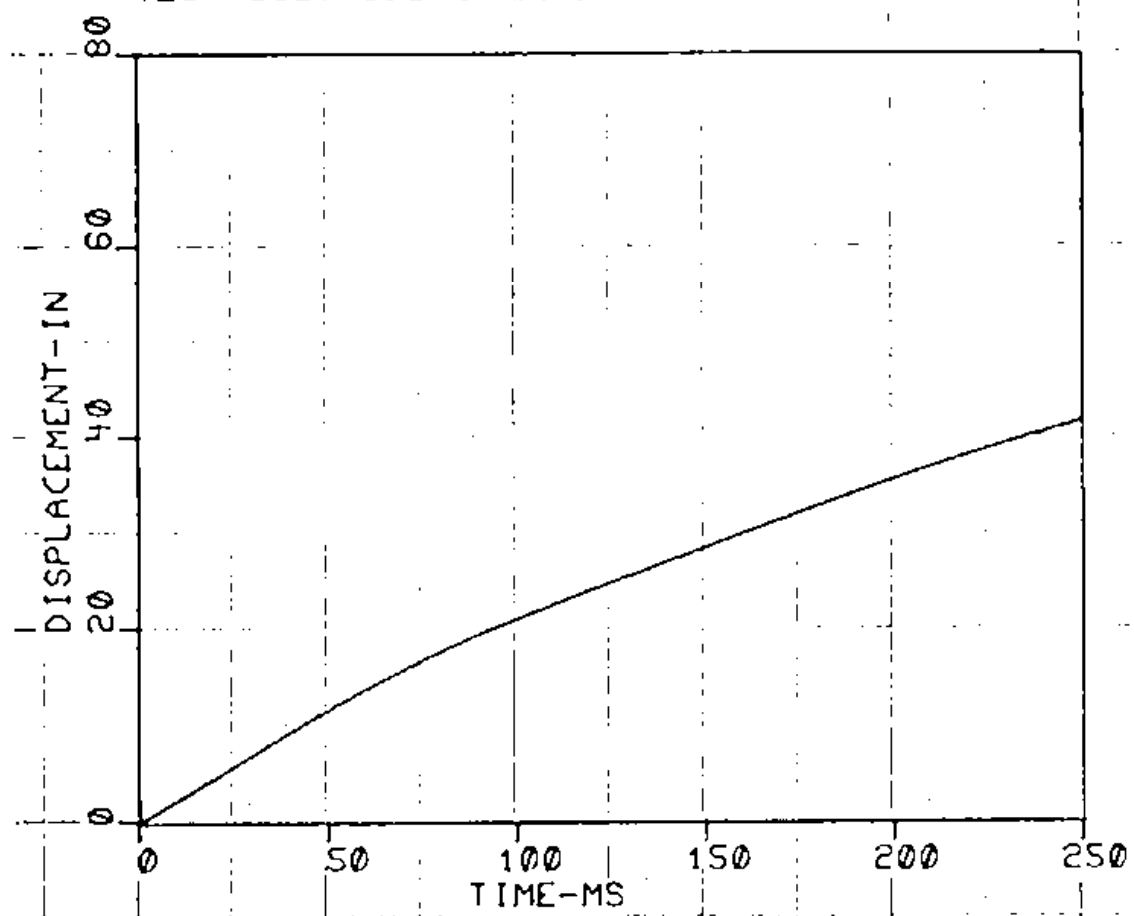
TEST#9327-6.2 LCMB(CRBD) LOC 3Y



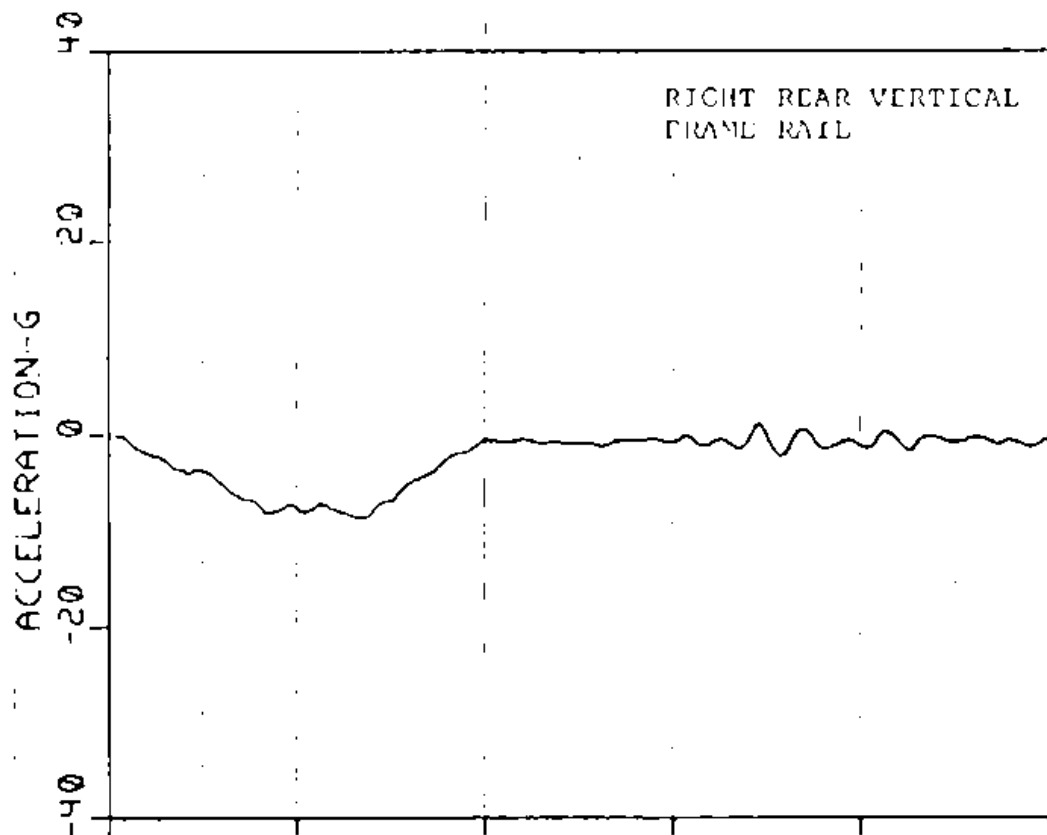
TEST#9327-6.2 LCMB(CRBD) LOC 3Y



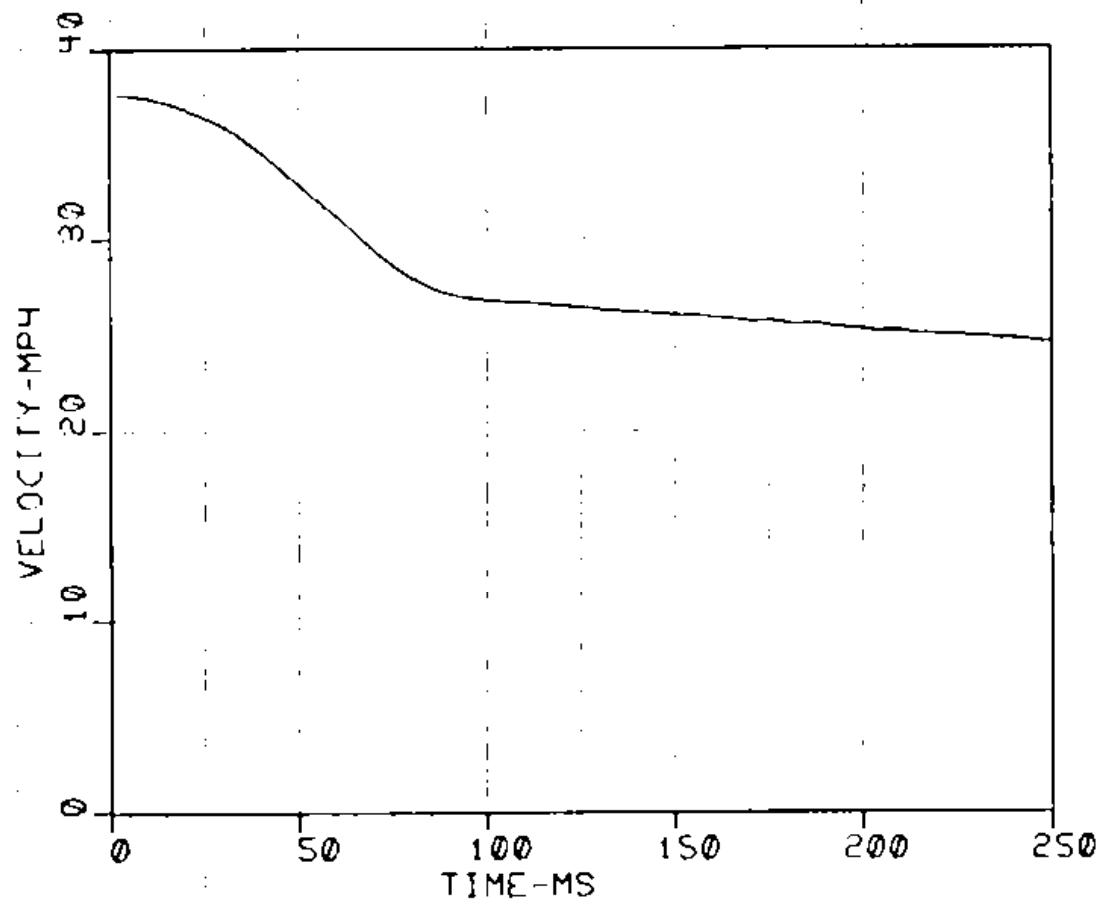
TEST#8327-6.2 CRABBED BOGEY LOC 3Y



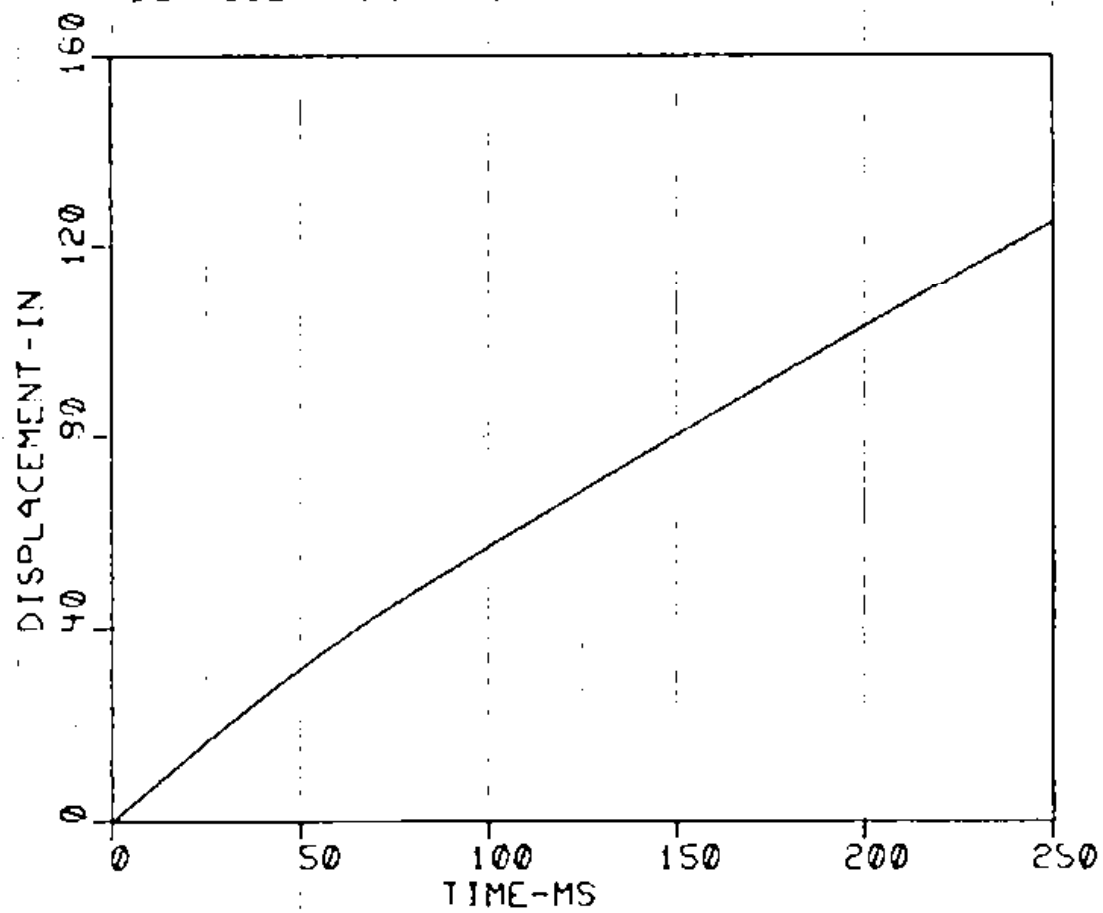
TEST#8327-B.2 LCMB(CRBD) LOC 4X



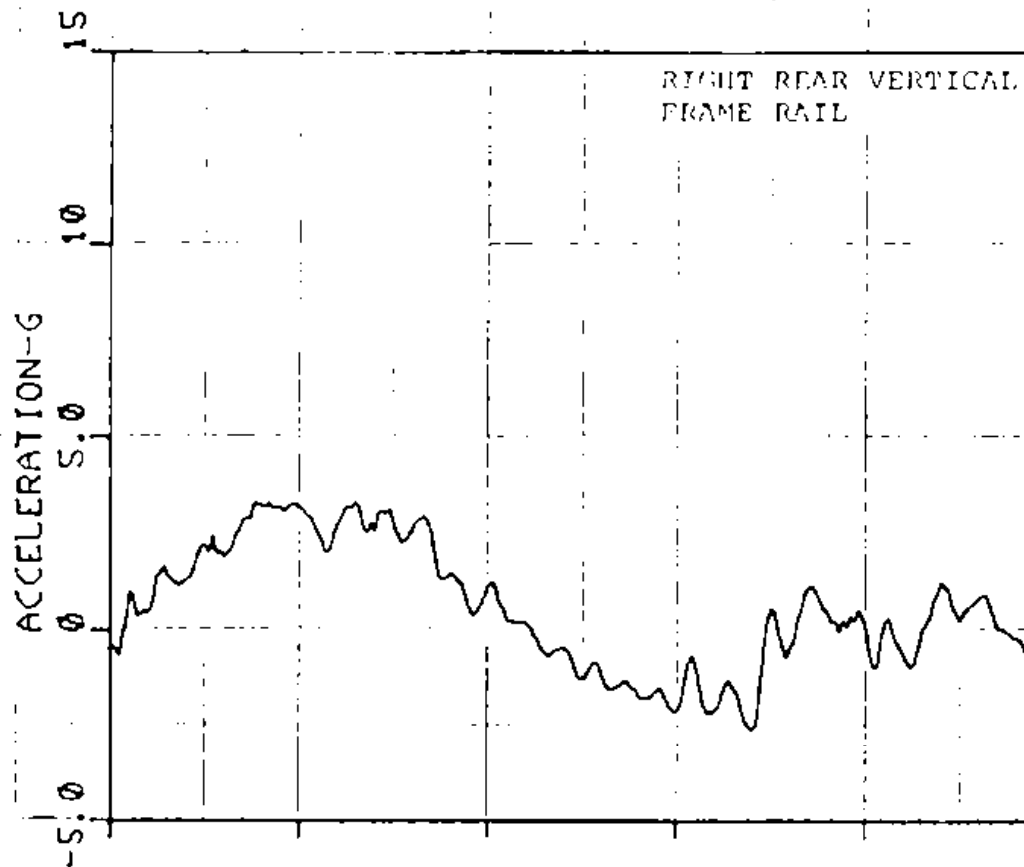
TEST#8327-B.2 LCMB(CRBD) LOC 4X



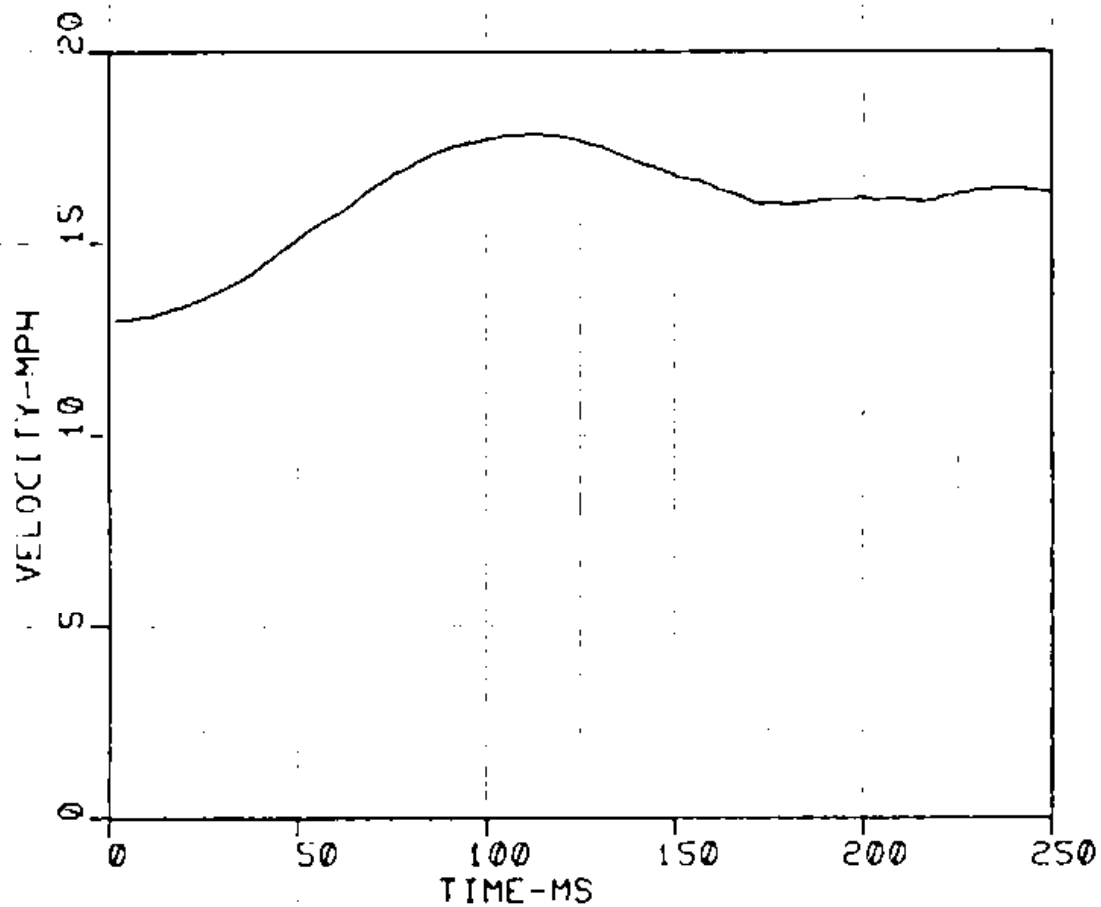
TEST#8327-6.2 LCM8(CRBD) LOC 4X



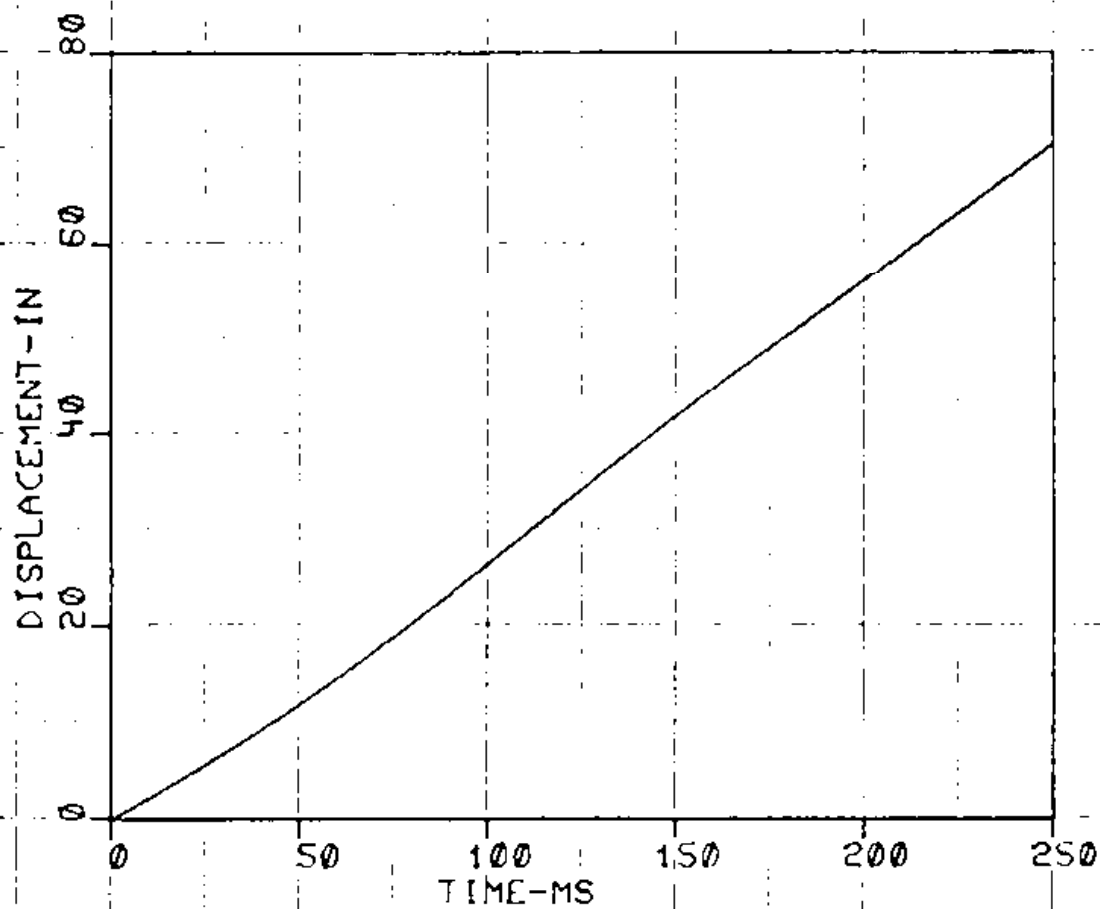
TEST#8327-G.2 CRABBED BOGEY LOC 4Y



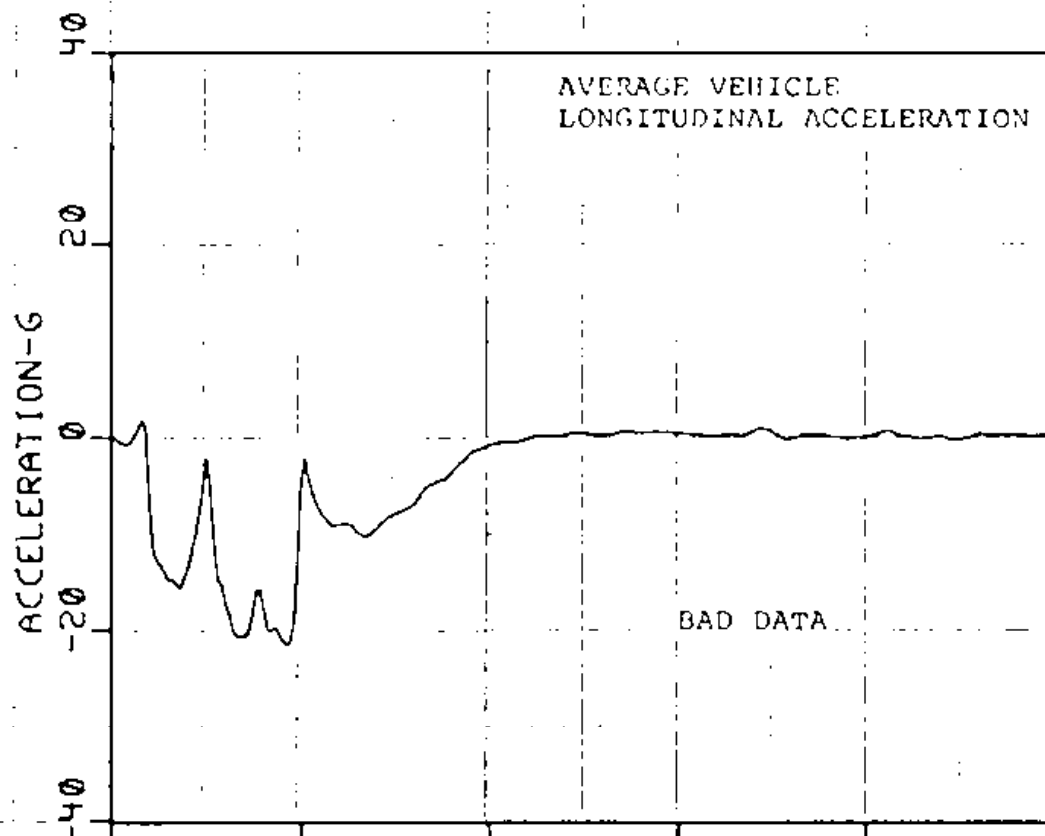
TEST#8327-B.2 LCMB(CRBD) LOC 4Y



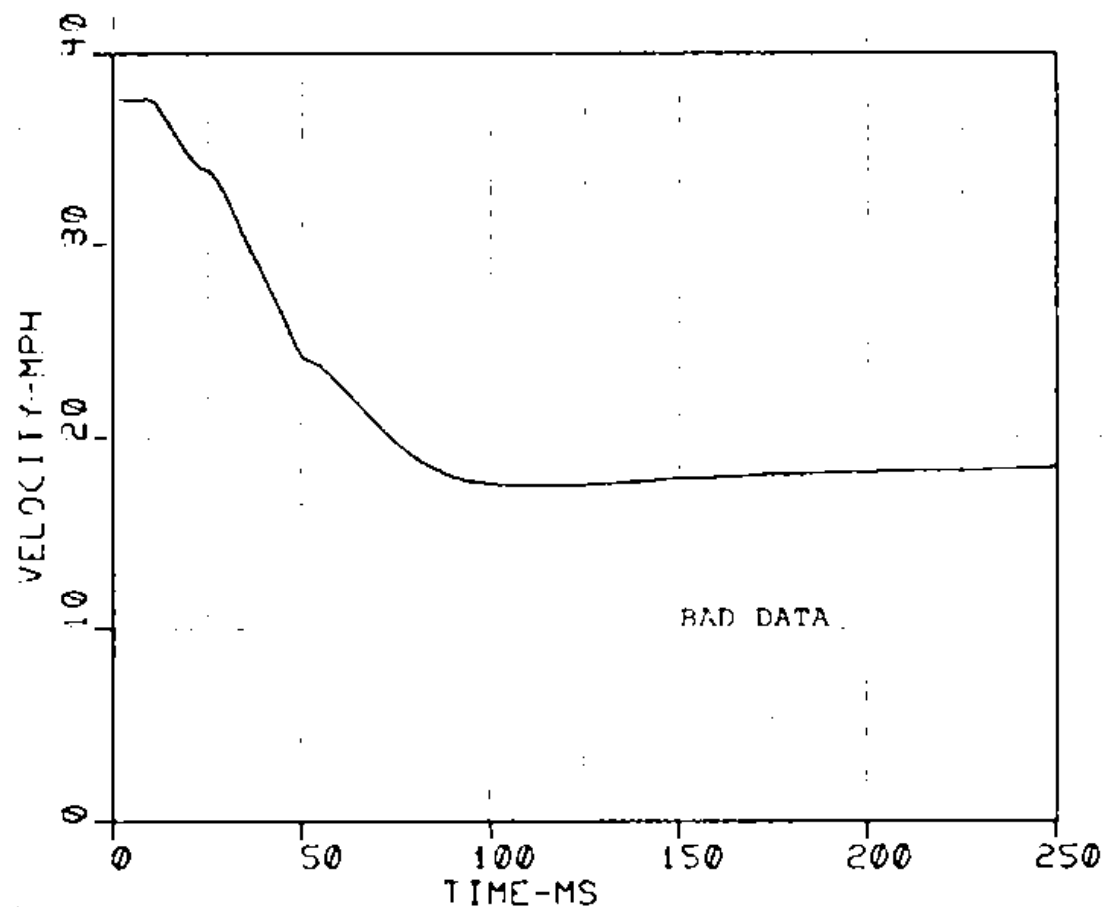
TEST#8327-6.2 CRABBED BOGEY LOC 4Y



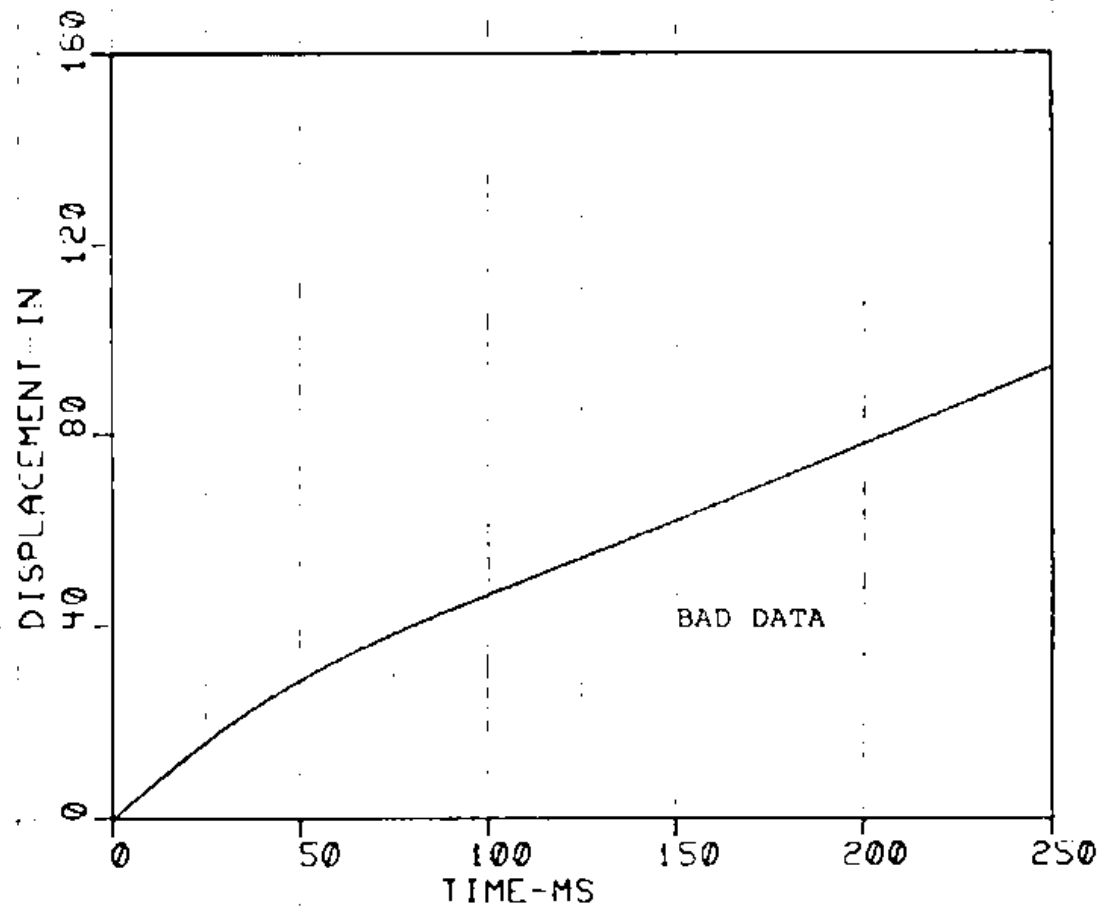
TEST#8327-6.2 CRABBED BOGEY AVG.LOC.1&2X



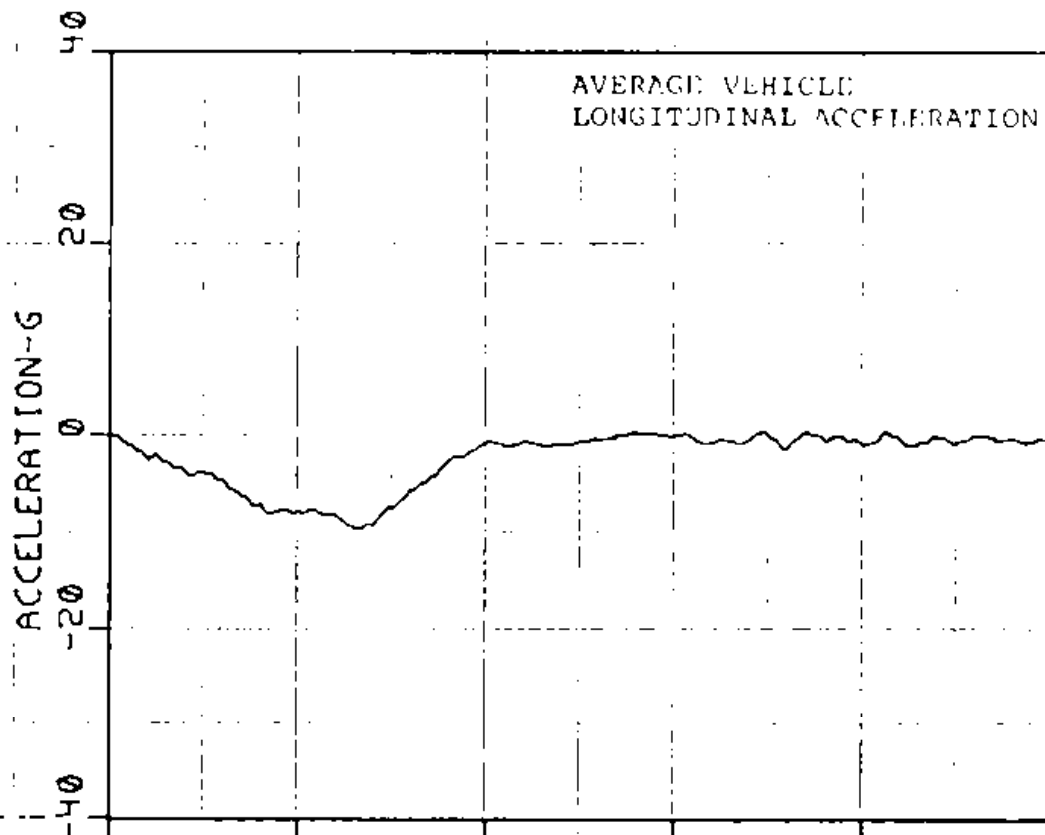
TEST#8327-6.2 LCM9(CRBD) AVG.LOC.1&2X



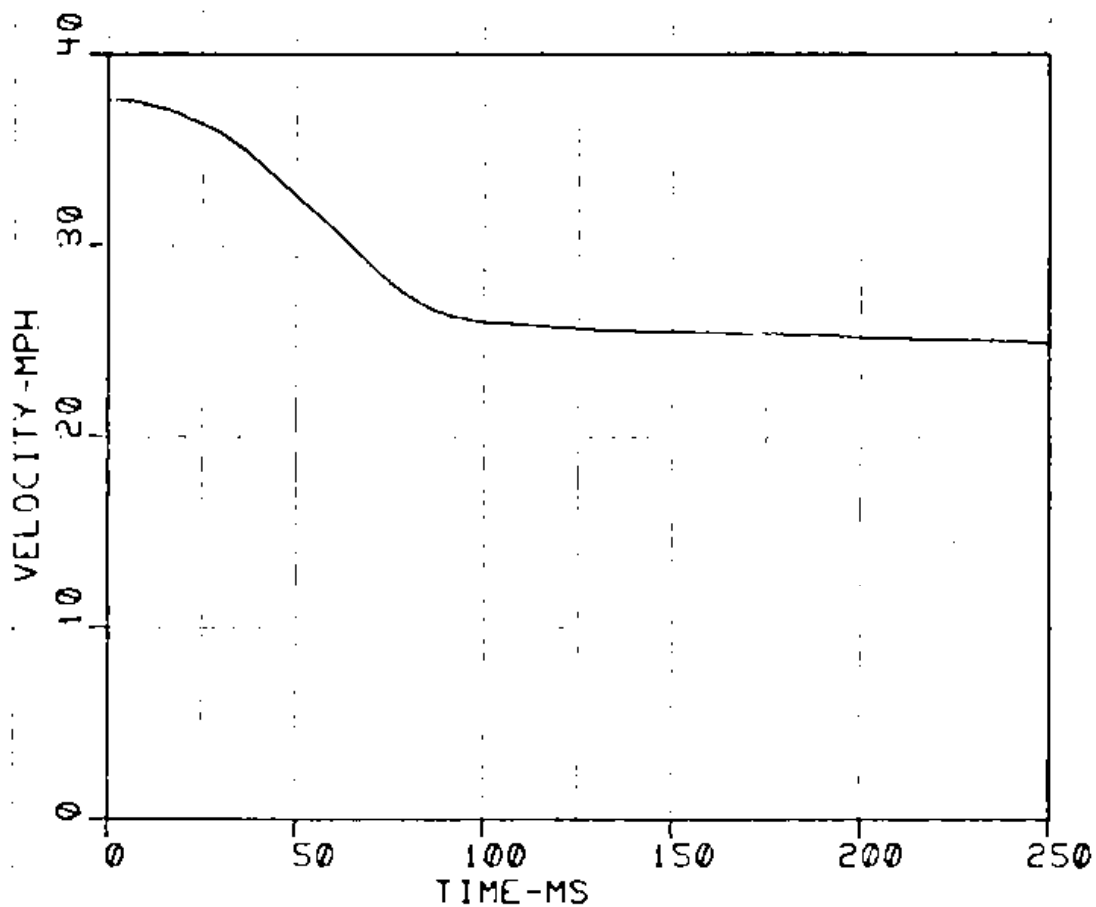
TEST#8327-6.2 LCM8(CRBD) A/G LOC. 1&2X



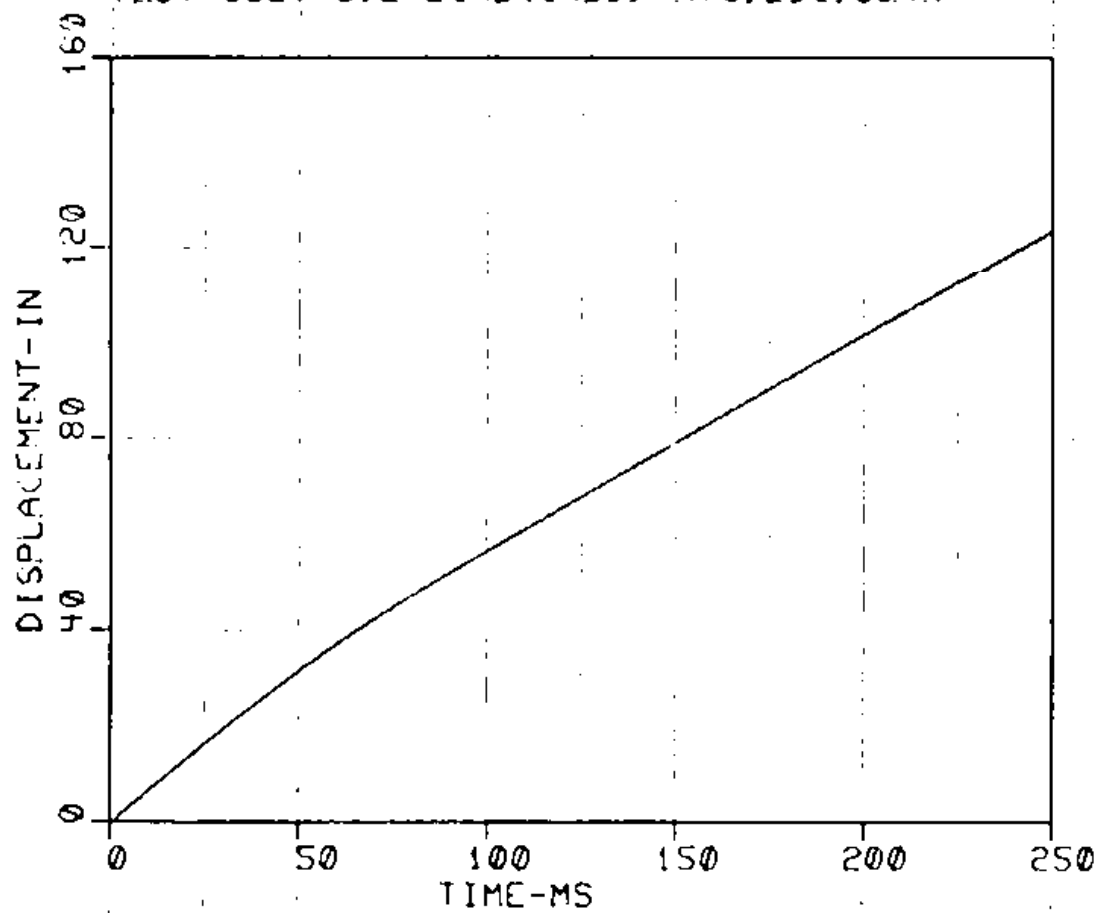
TEST#8327-6.2 CRABBED BOGEY AVG.LOC.364X



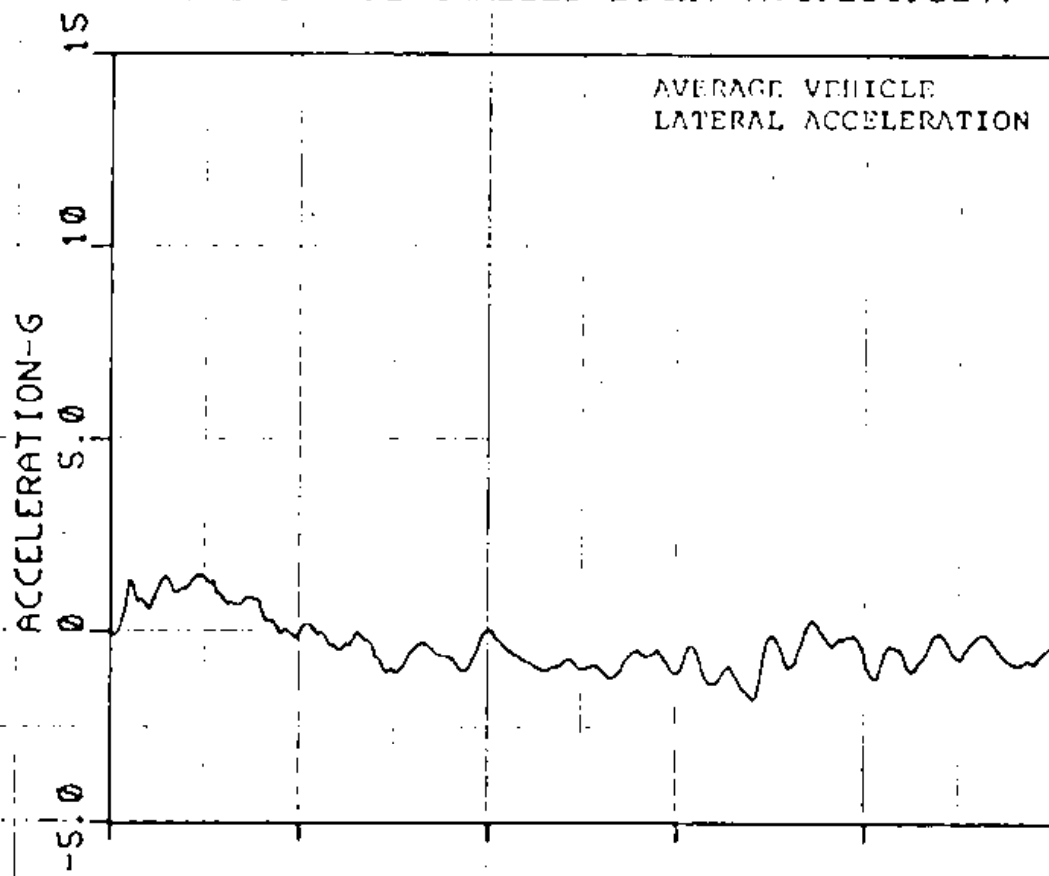
TEST#8327-6.2 LCMB(CRBD) AVG.LOC.364X



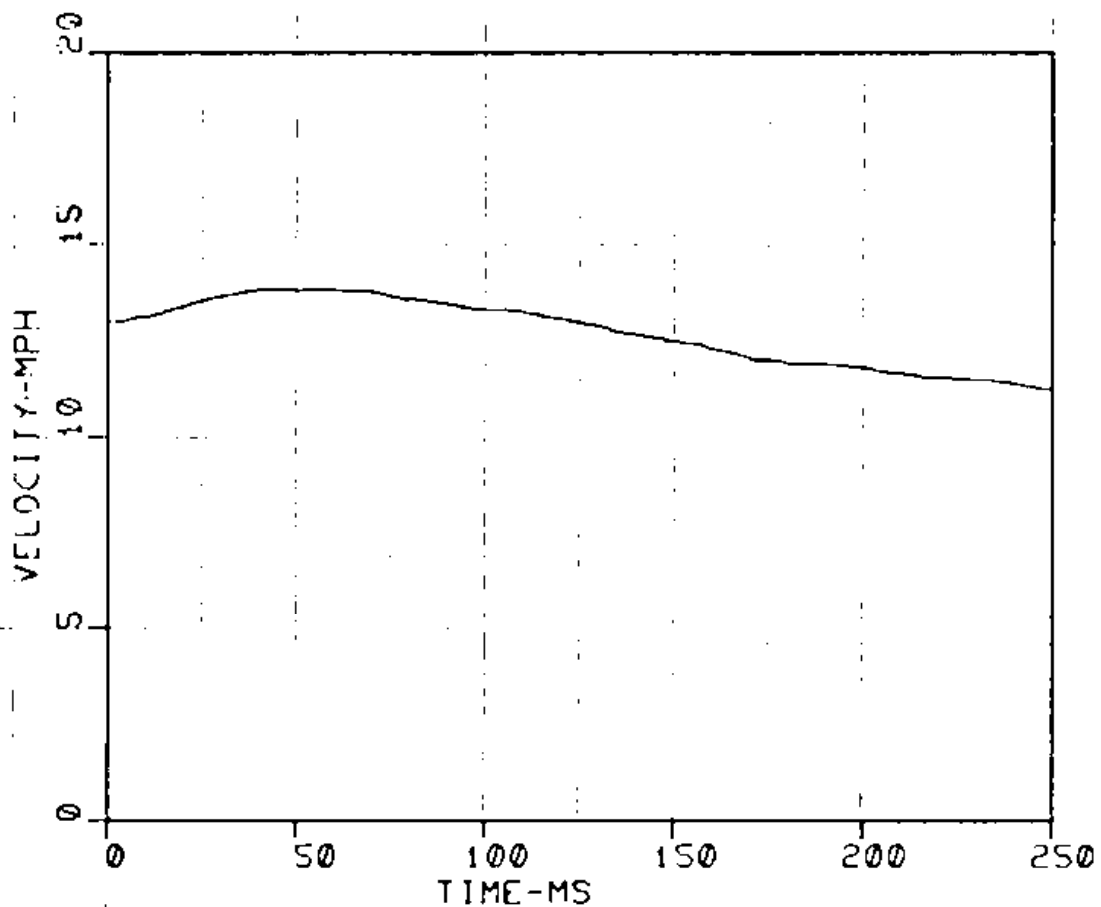
TEST#9327-6.2 LCMB(CRBD) AVG. LOC. 364X

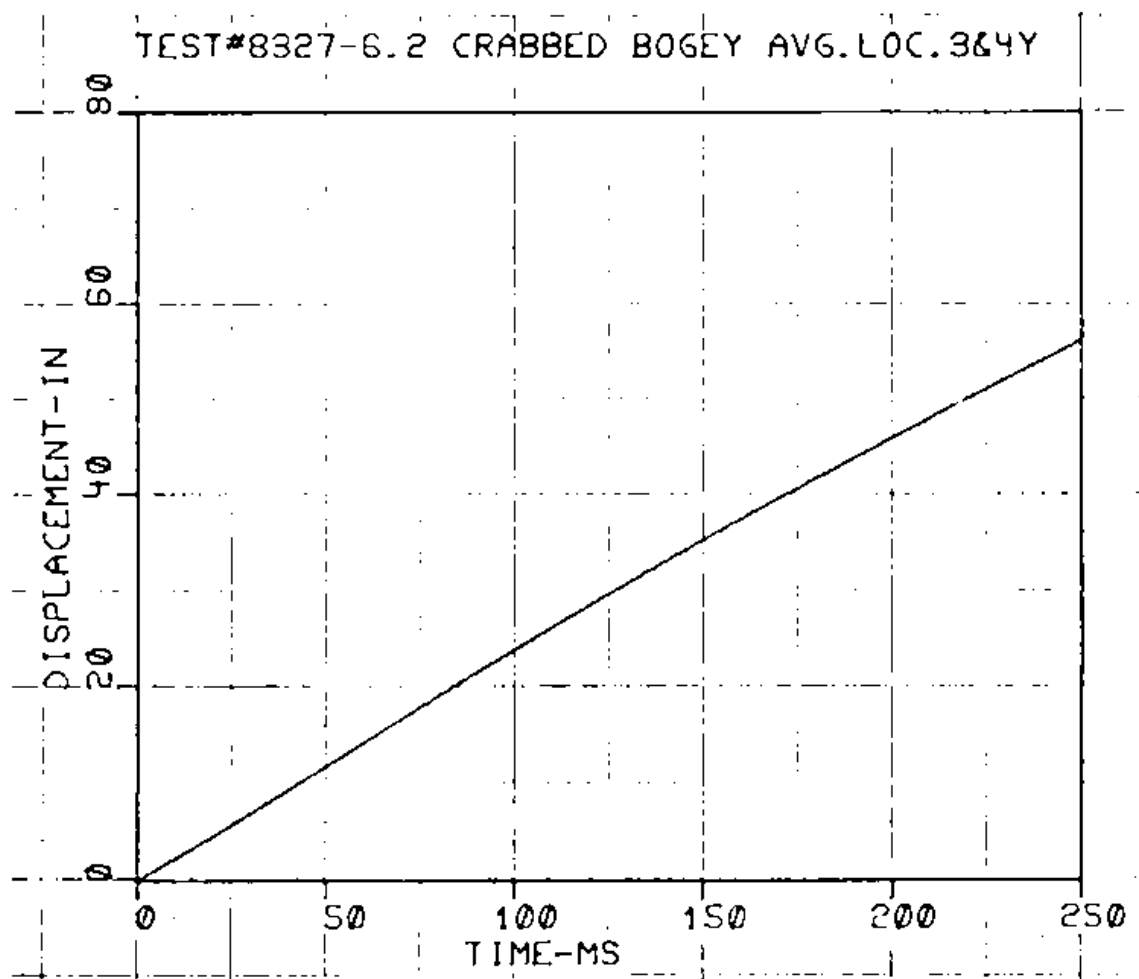


TEST#8327-6.2 CRABBED BOGEY AVG.LOC.3&4Y

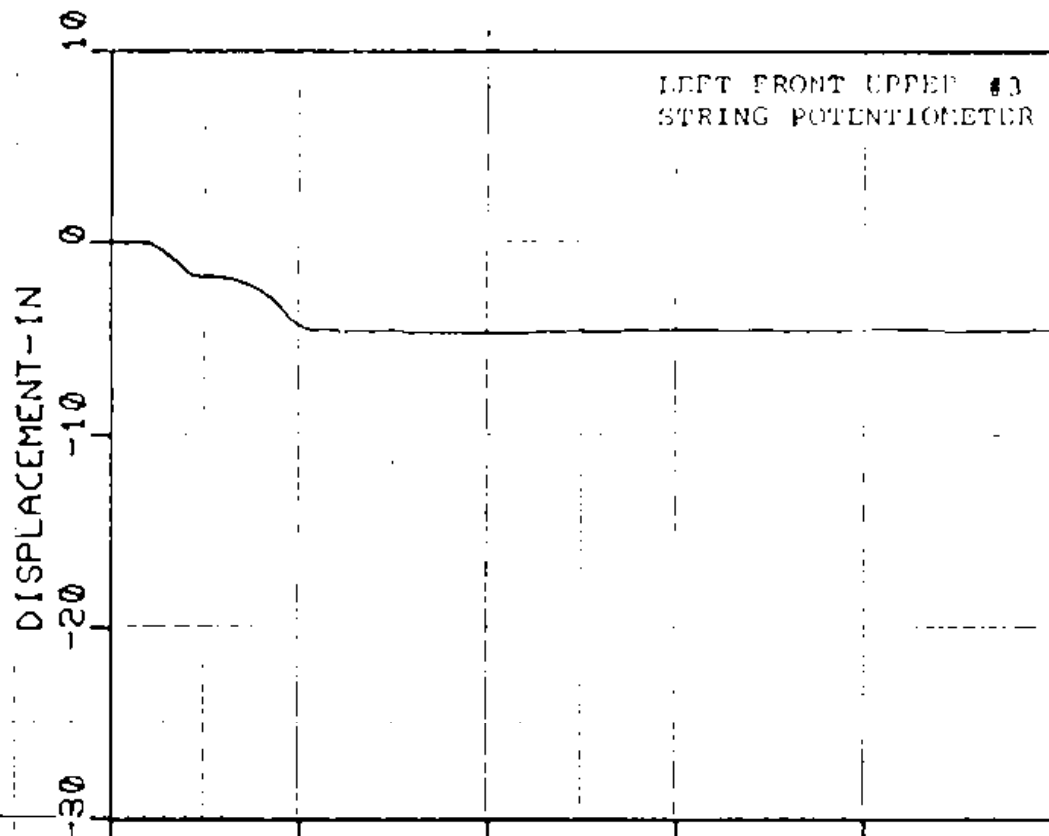


TEST#8327-6.2 LCM9(CRBD) AVG.LOC.3&4Y

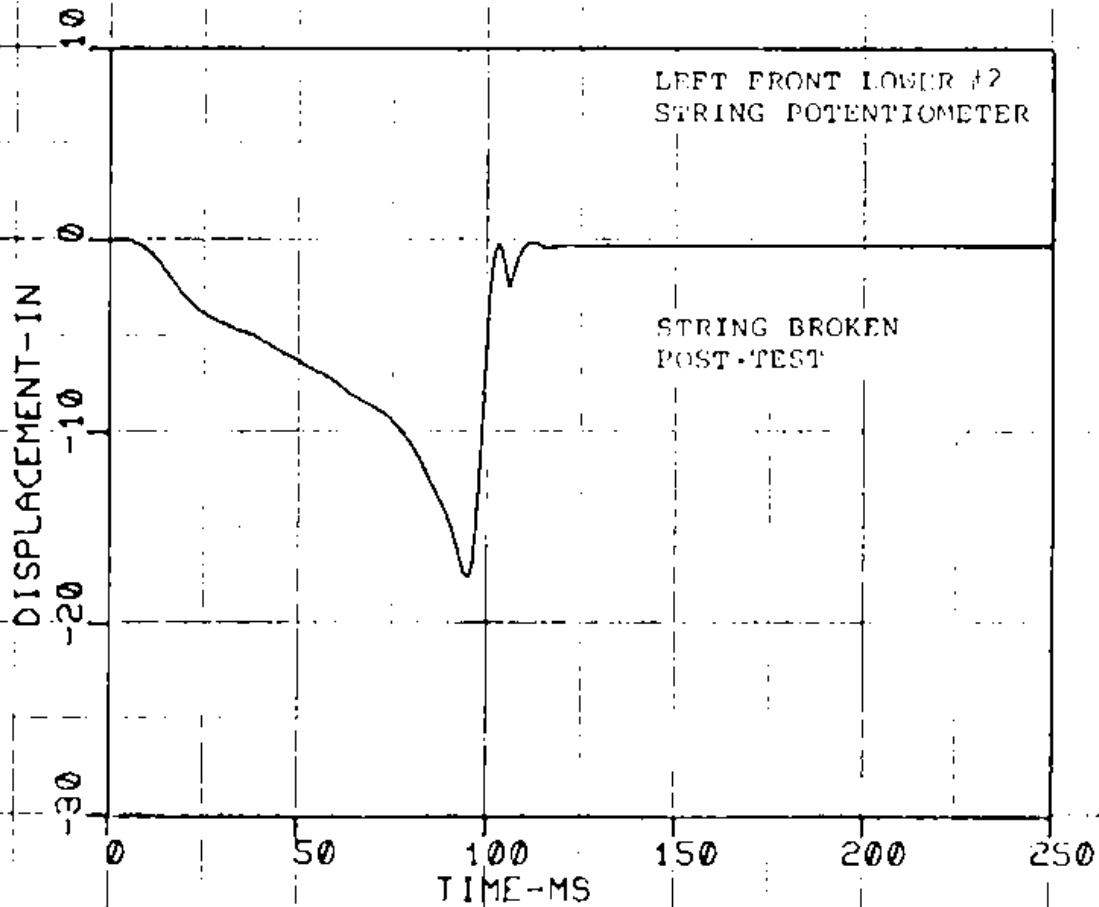




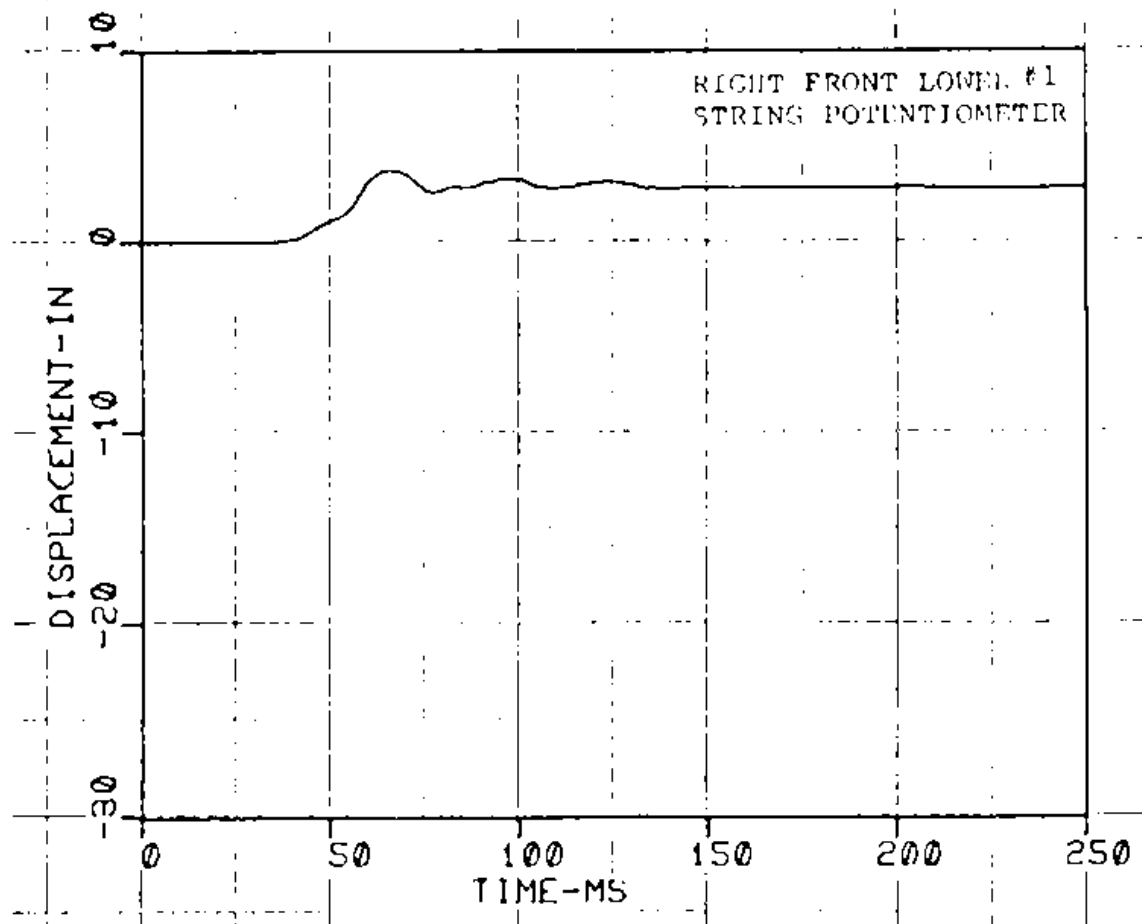
TEST#8327-6.2 CRABBED BOGEY LF UPPER S.P



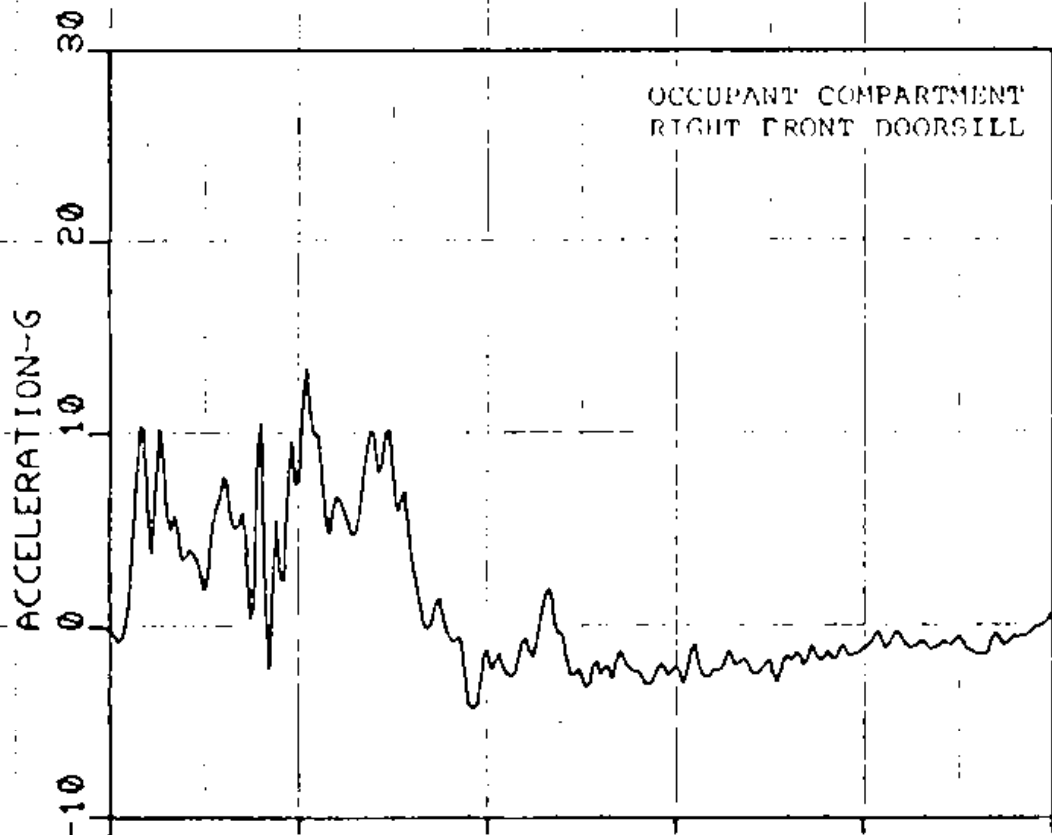
TEST#8327-6.2 CRABBED BOGEY LF LOWER S.P



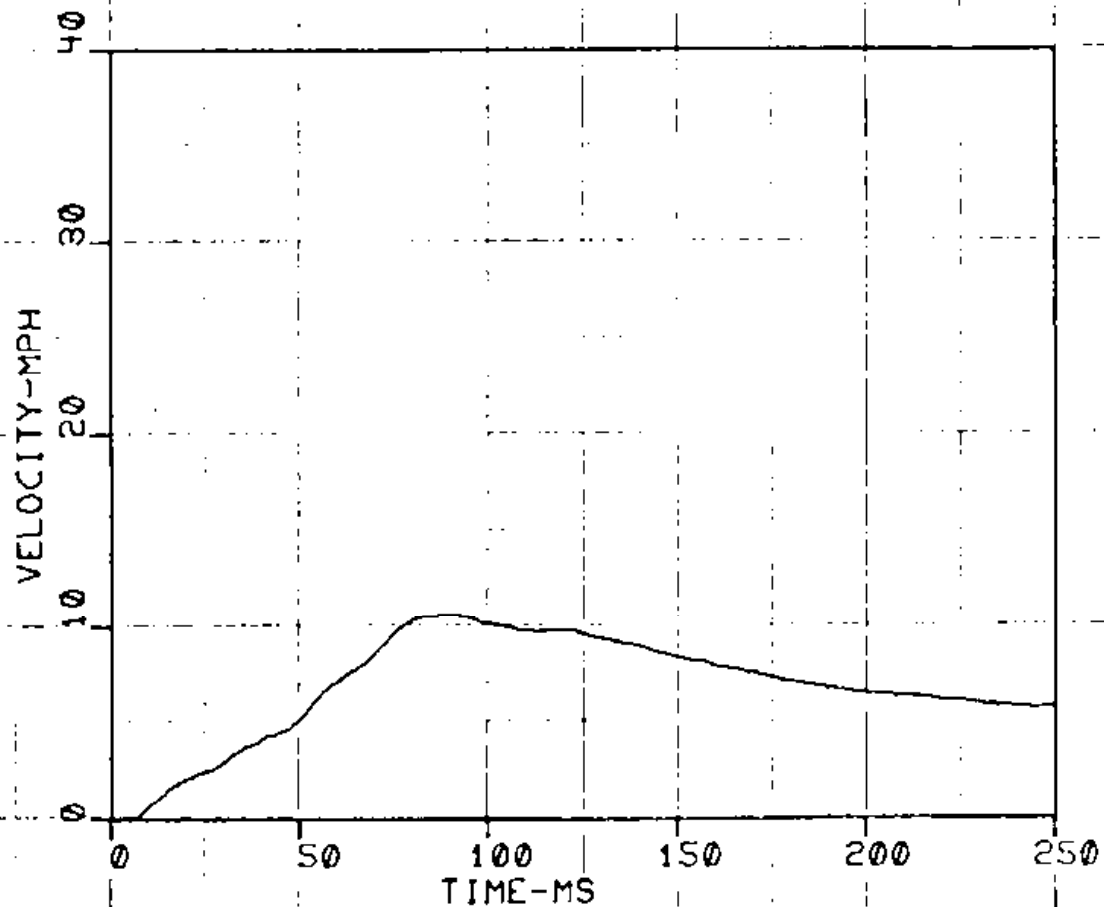
TEST#8327-6.2 CRABBED BOGEY RF LOWER S.P



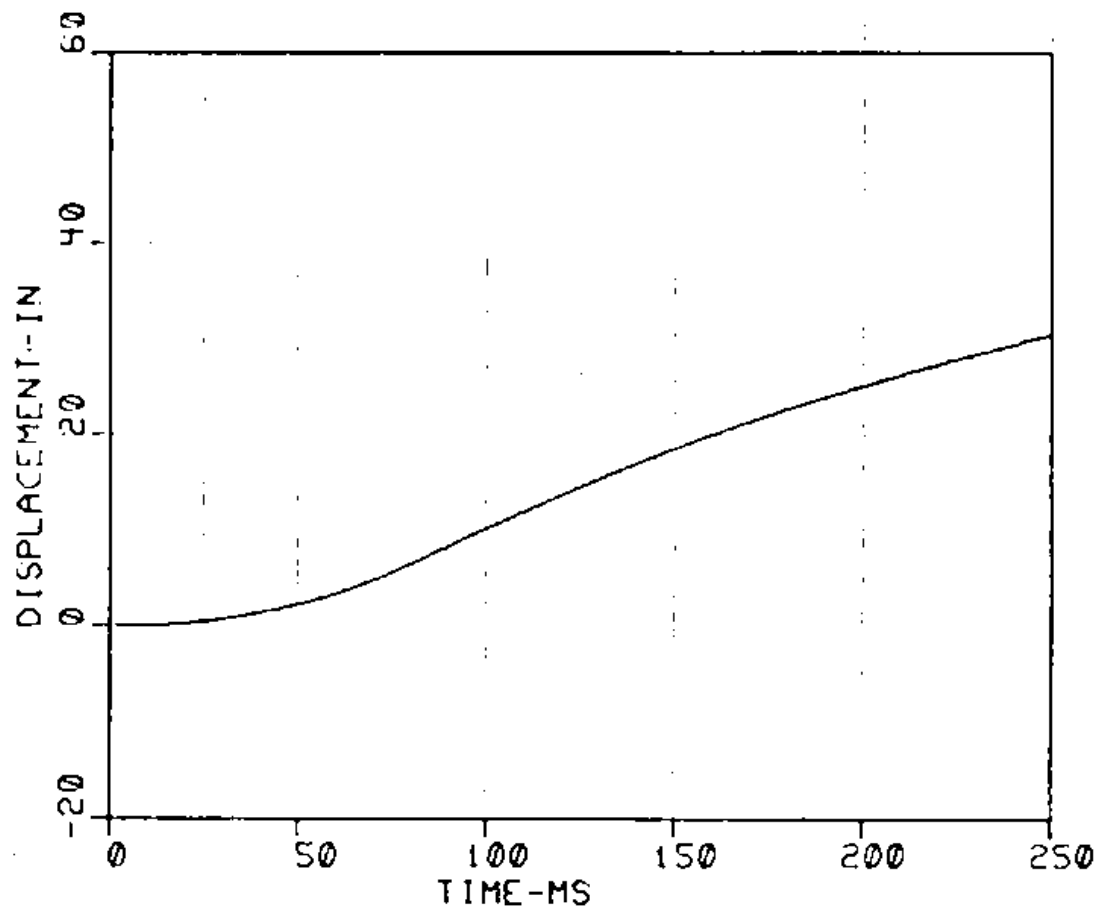
TEST#8327-6.2 MOD RABBIT LOC 1Y

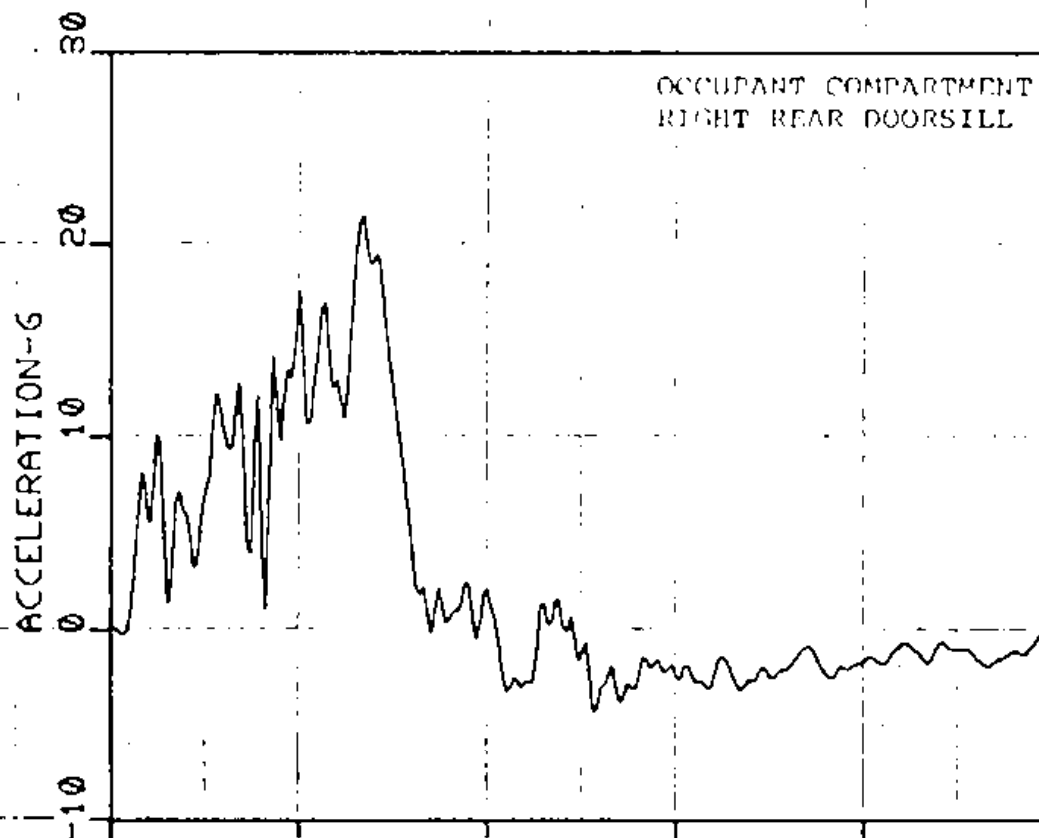


TEST#8327-6.2 MOD RABBIT LOC 1Y

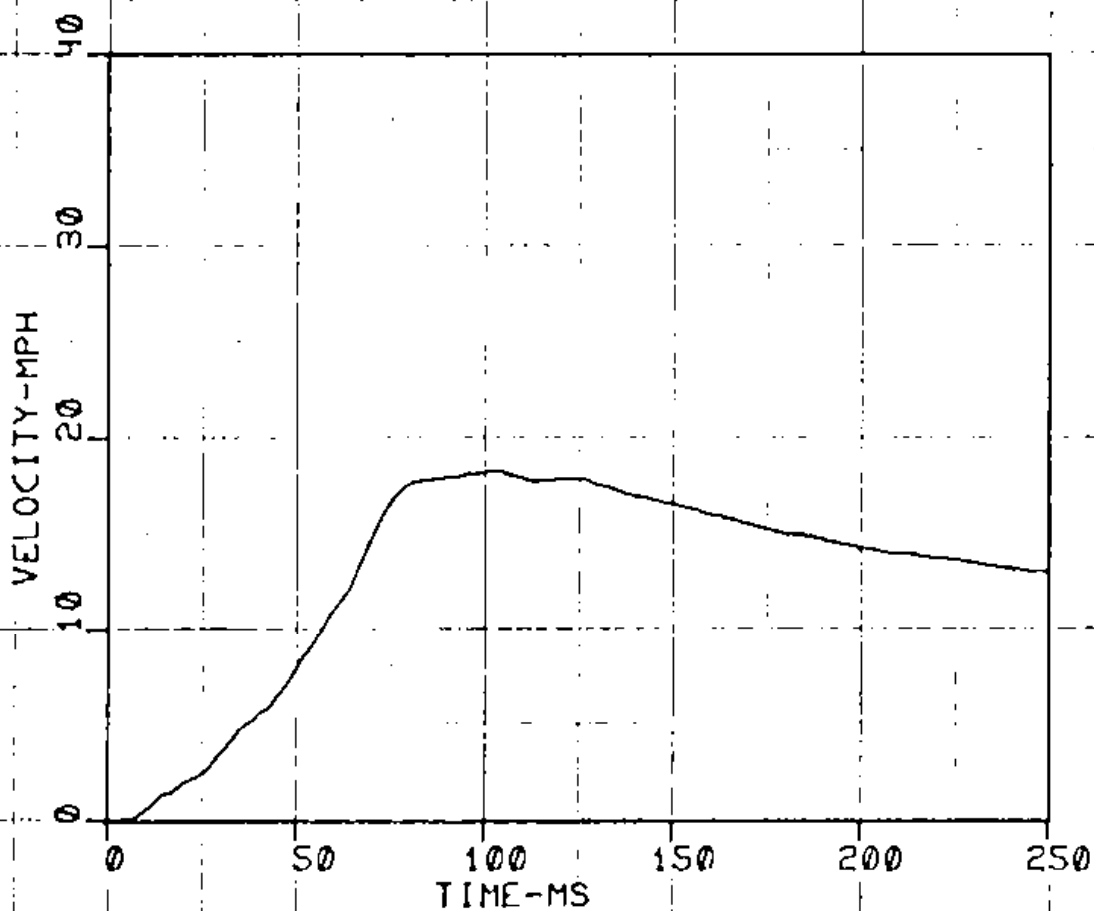


TEST#9327-6.2 VW MODRAB LOC 1Y

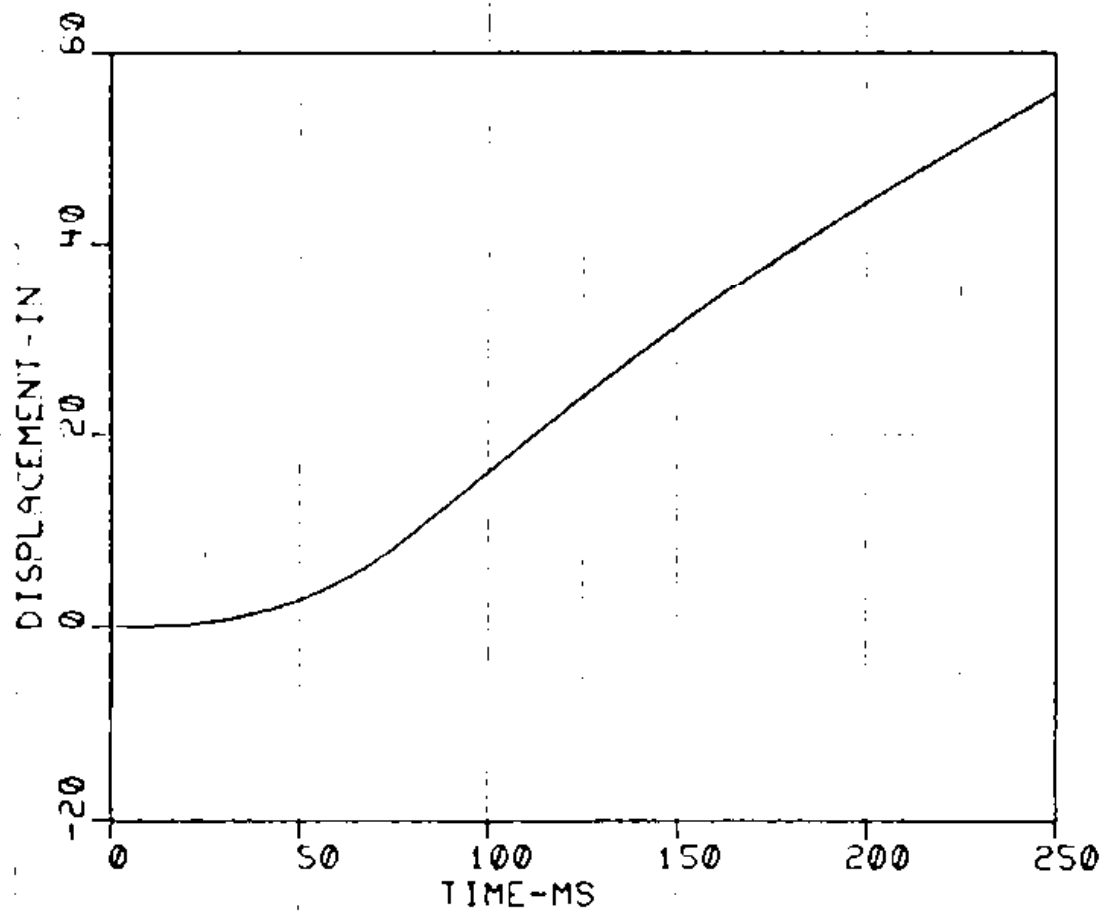




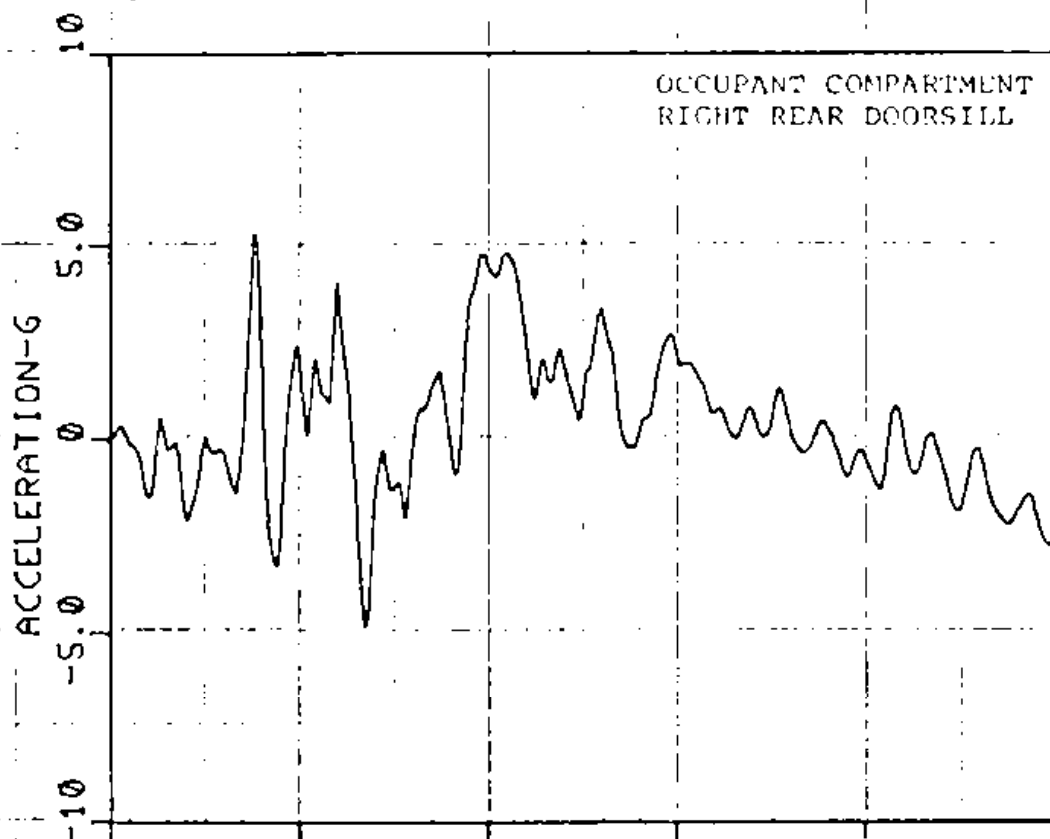
TEST#8327-6.2 MOD RABBIT LOC 2Y



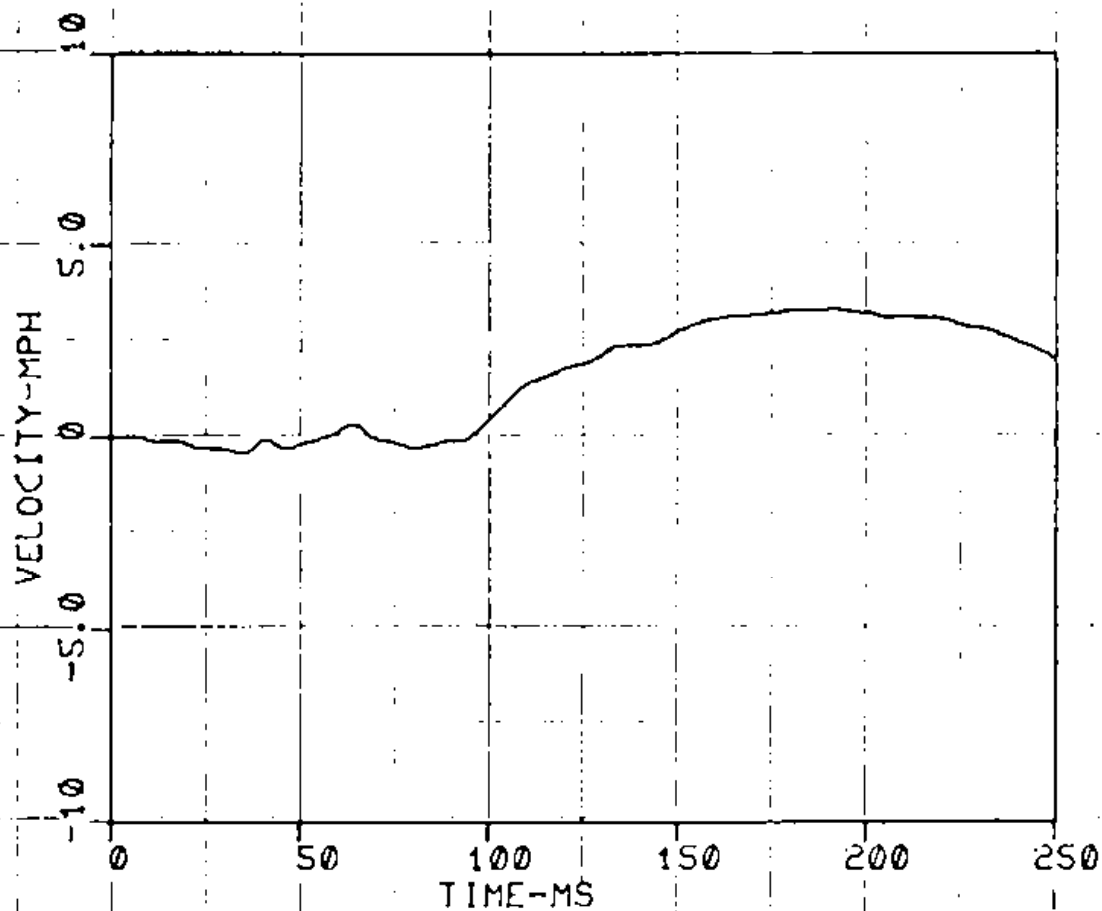
TEST#8327-G.2 VW MODRAB LOC 2Y



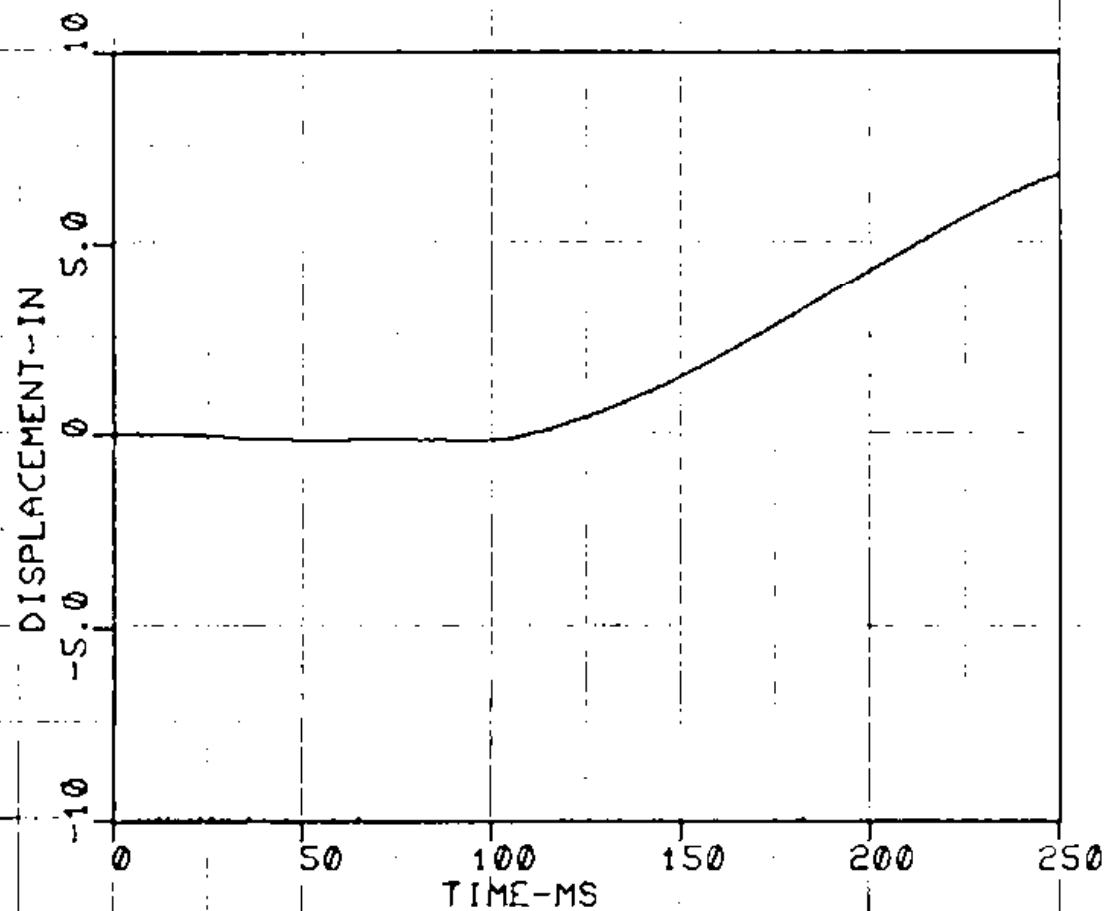
TEST#8327-6.2 MOD RABBIT LOC 2Z



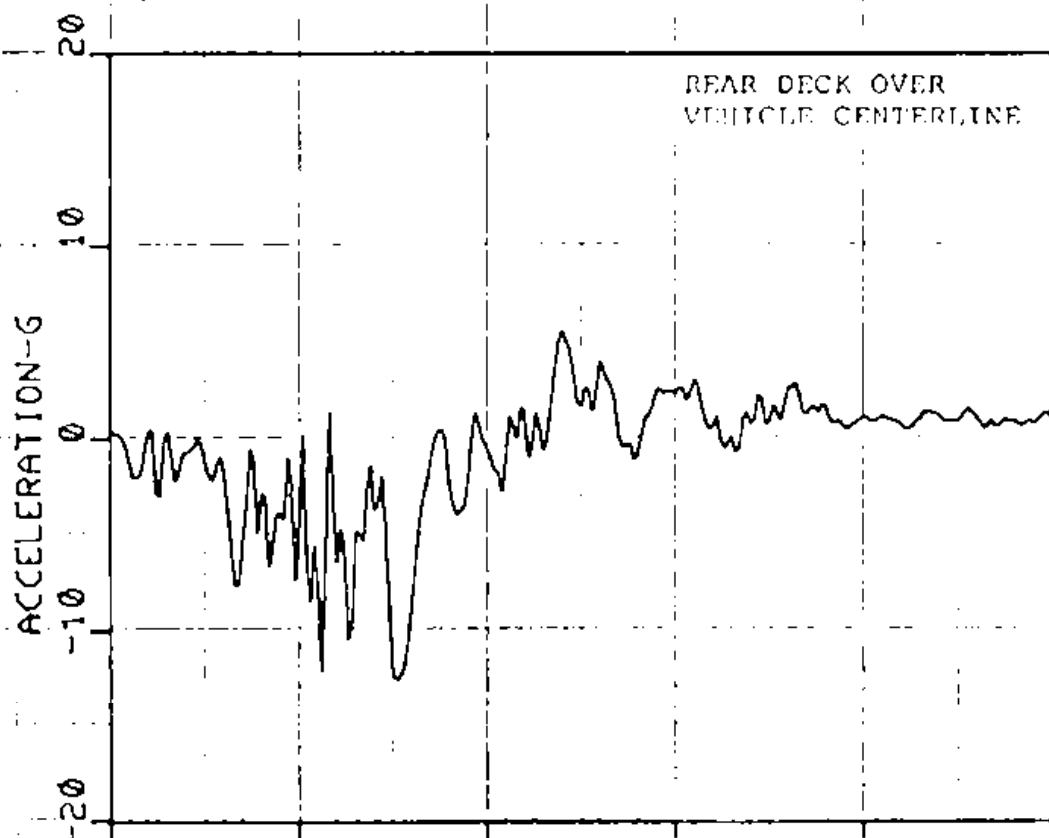
TEST#8327-6.2 MOD RABBIT LOC 2Z



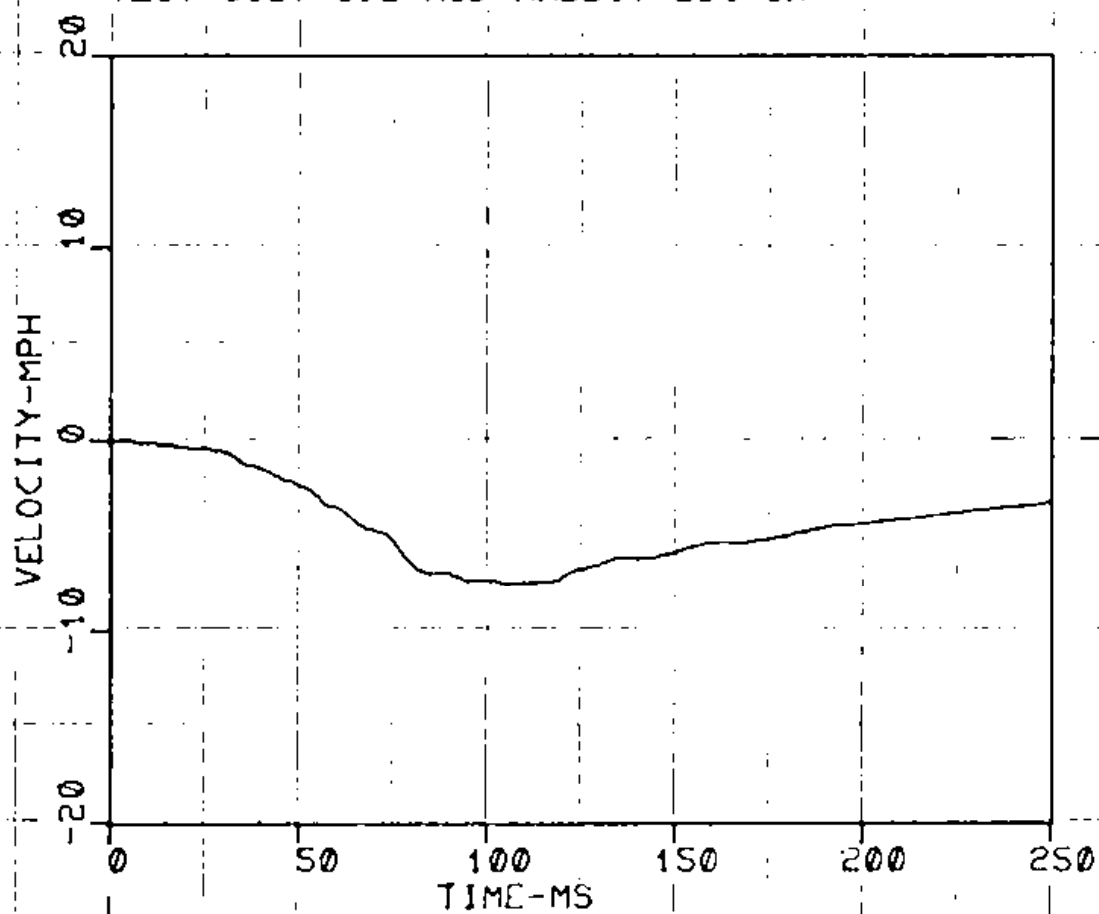
TEST#8327-6.2 MOD RABBIT LOC 2Z



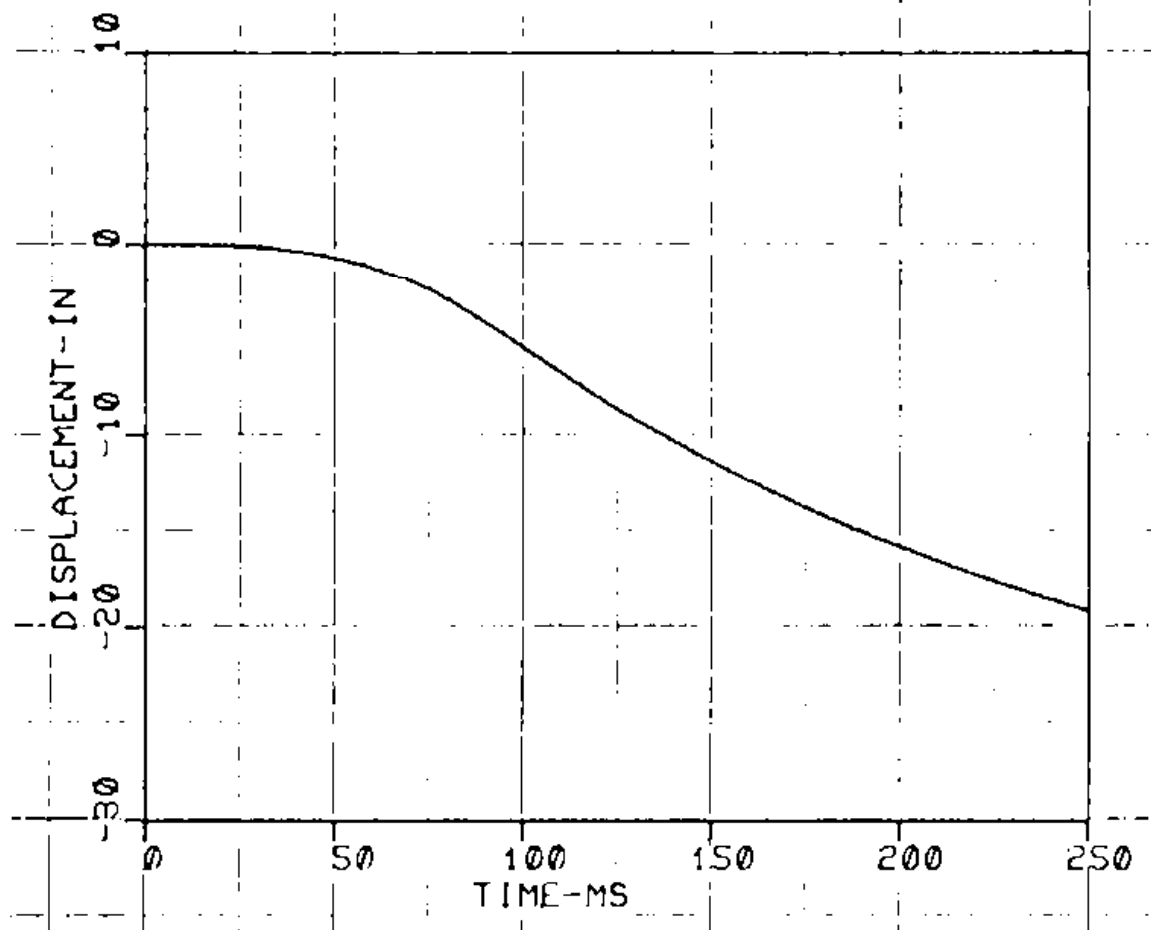
TEST#8327-6.2 MOD RABBIT LOC 3X



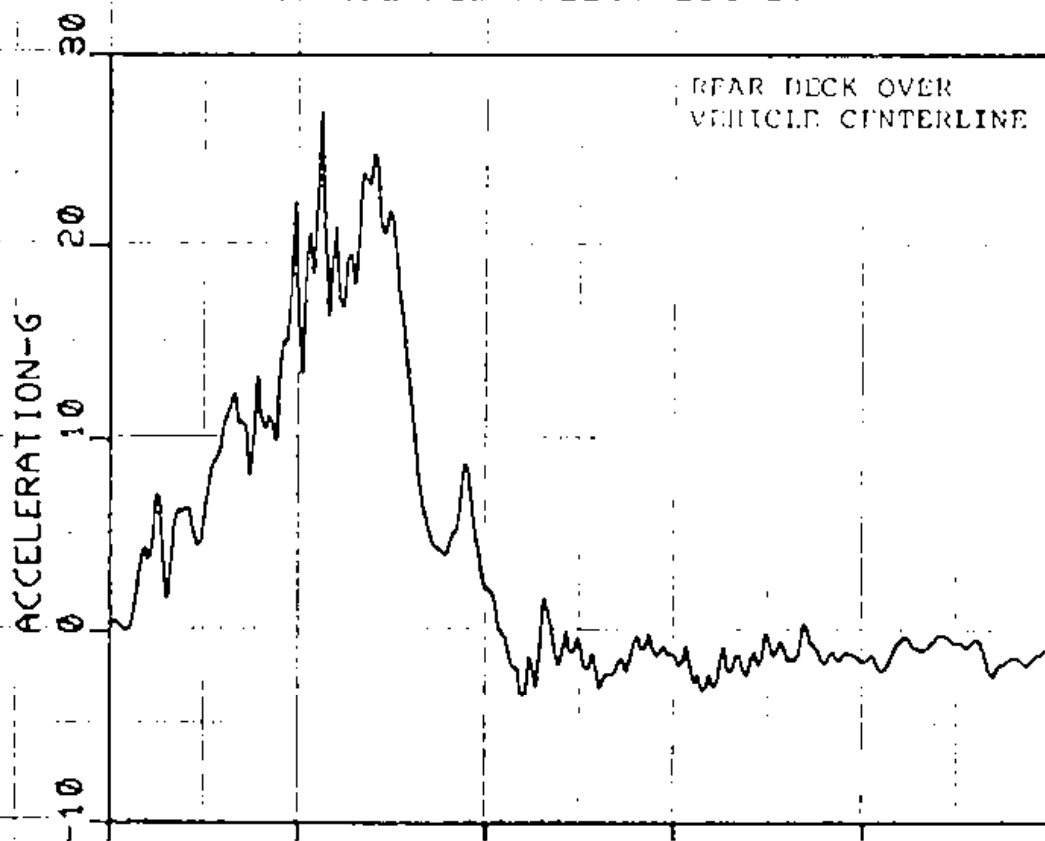
TEST#8327-6.2 MOD RABBIT LOC 3X



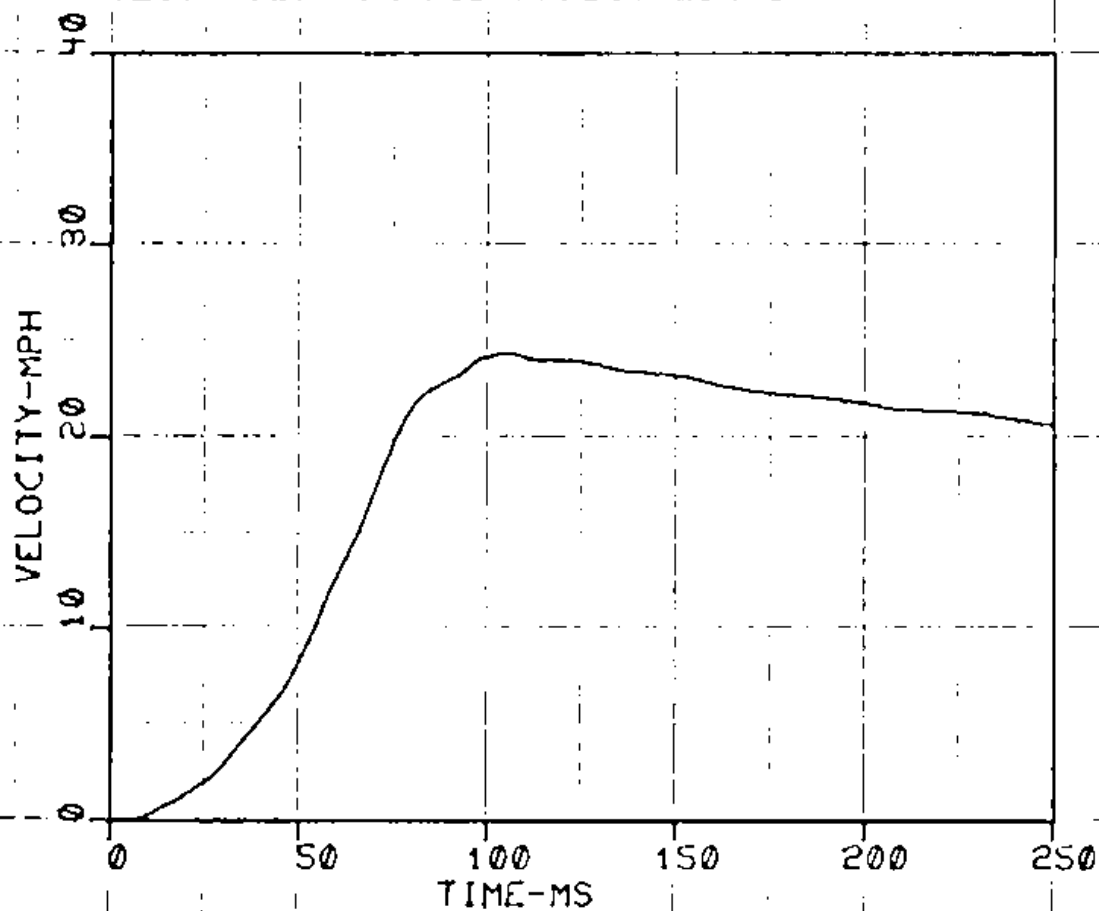
TEST#8327-6.2 MOD RABBIT LOC 3X



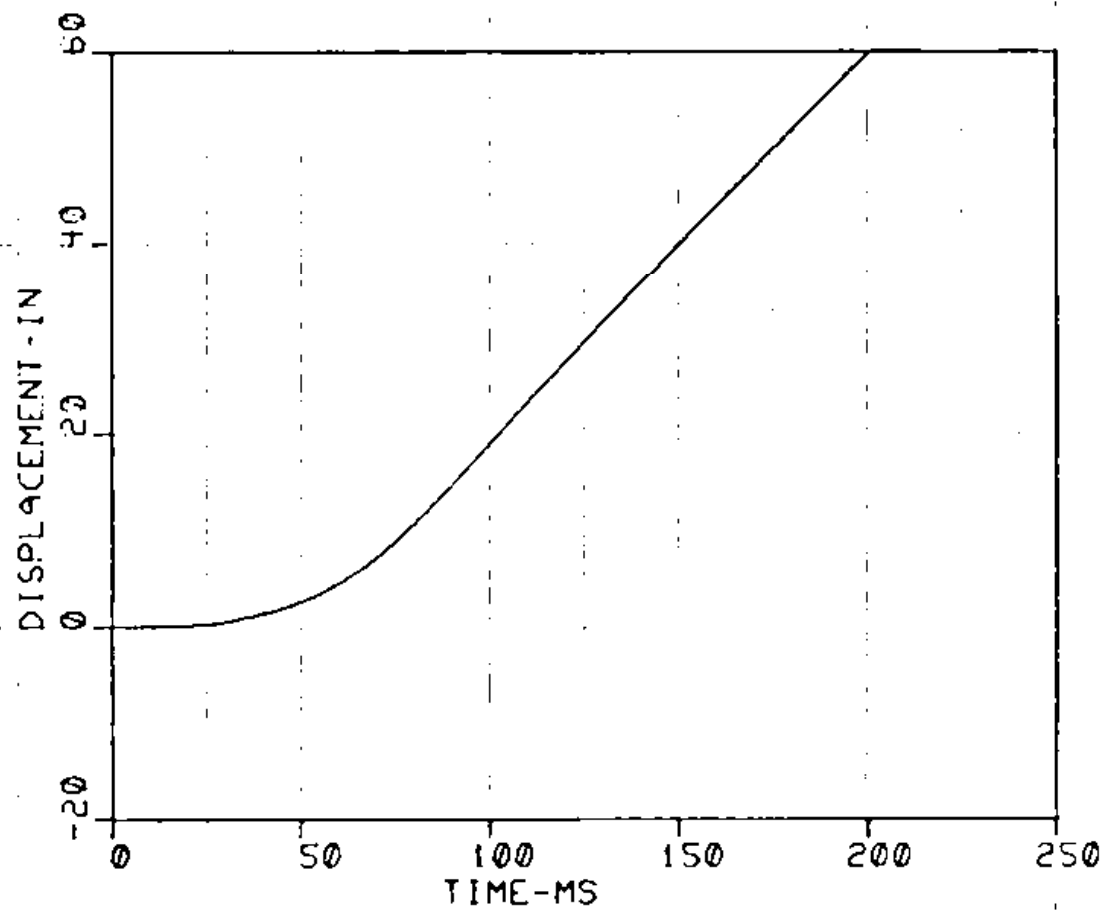
TEST#8327-6.2 MOD RABBIT LOC 3Y



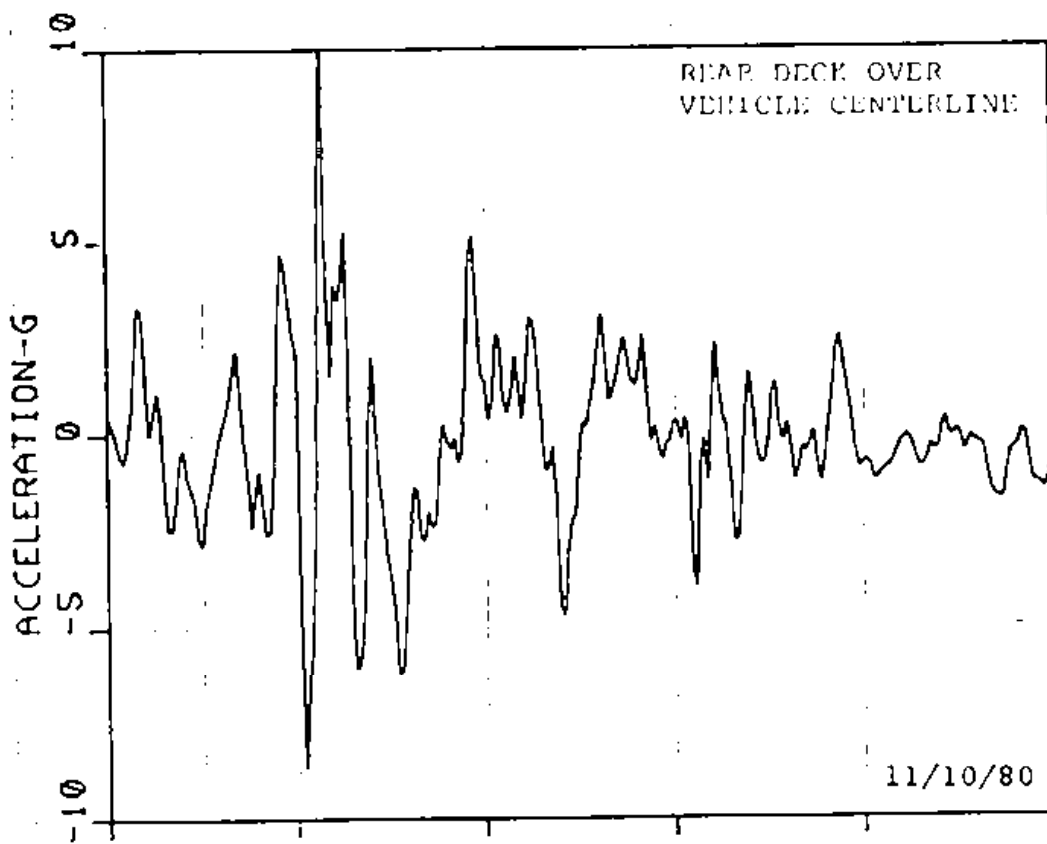
TEST#8327-6.2 MOD RABBIT LOC 3Y



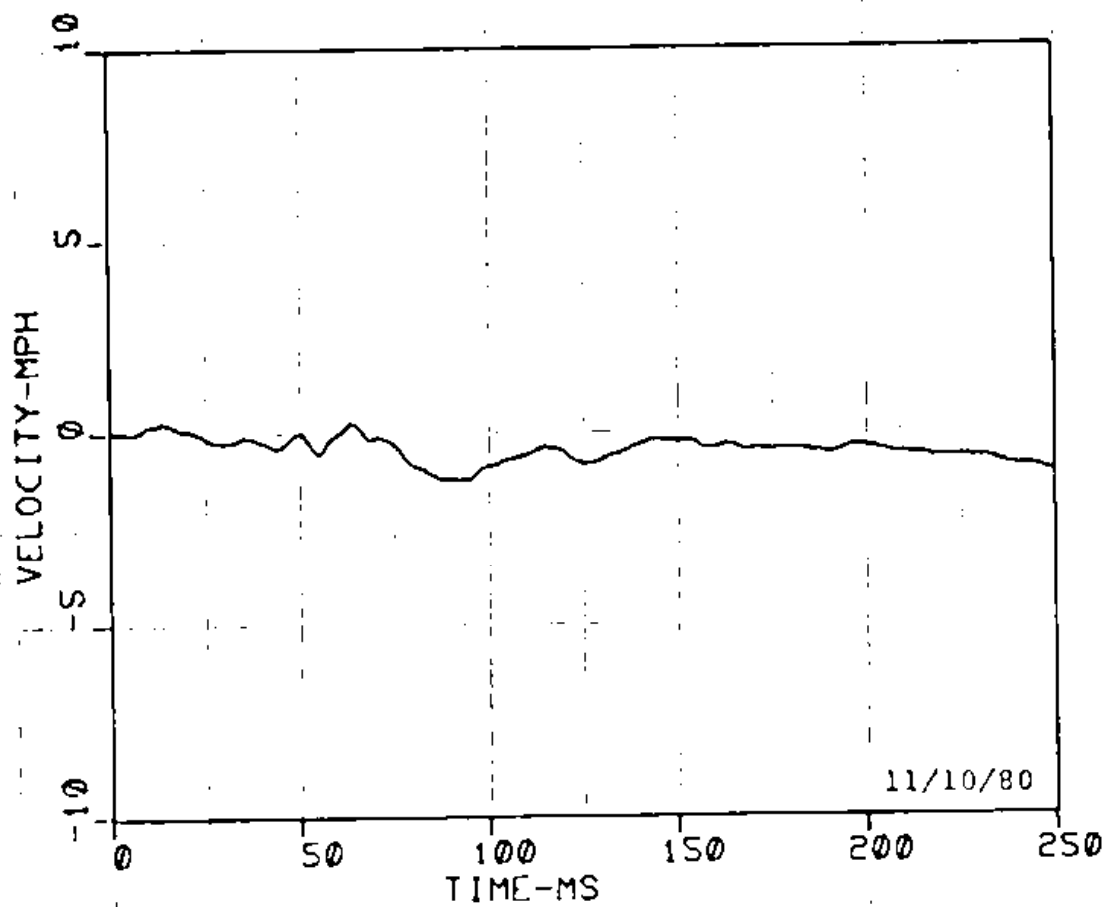
TEST#9327-6.2 VW MODRAB LOC BY



TEST#8327-6.2 VW MODRAB LOC 3 AZ

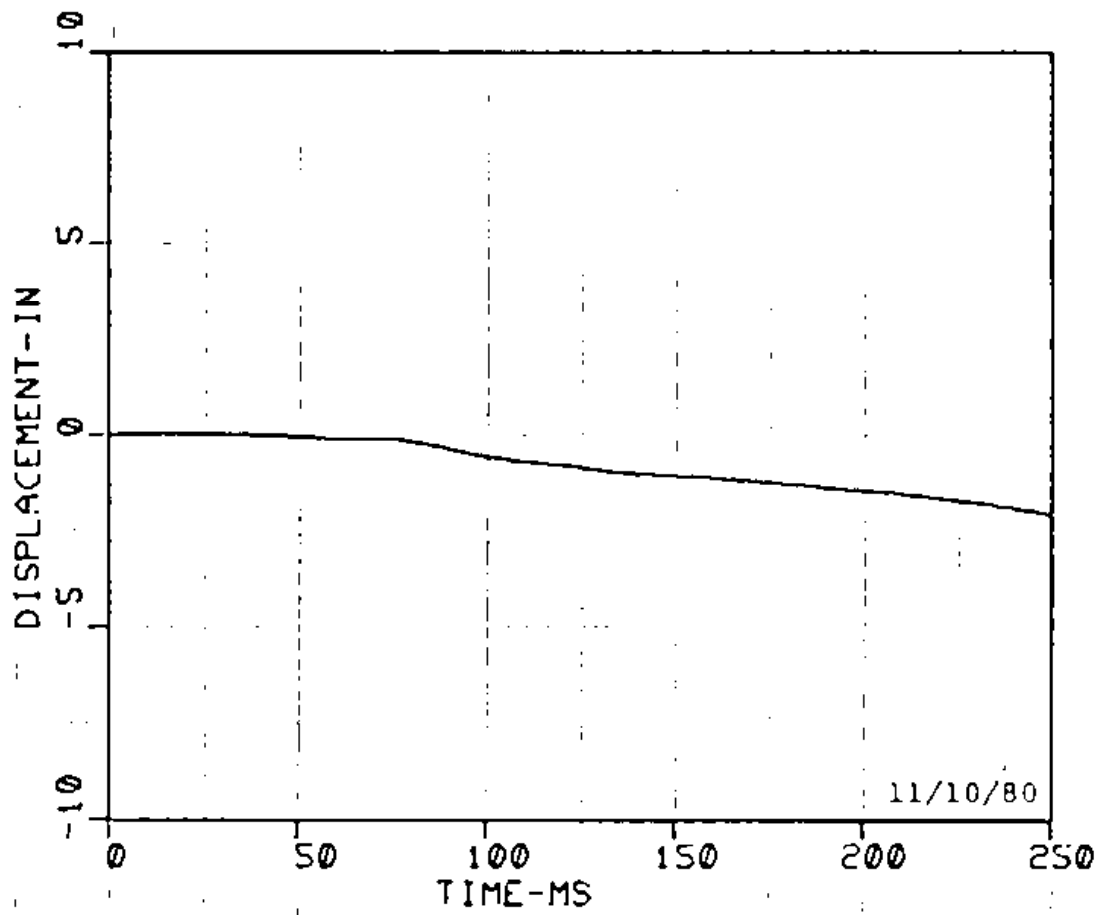


TEST#8327-6.2 VW MODRAB LOC 3 VZ

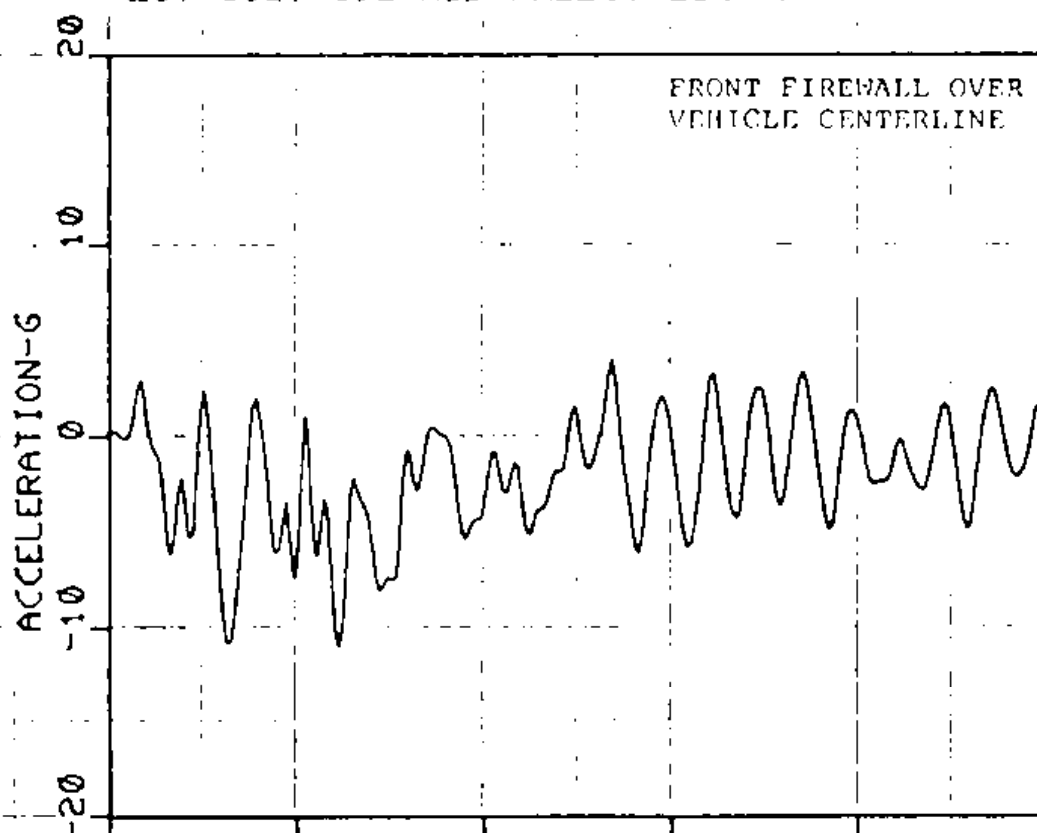


G-31a

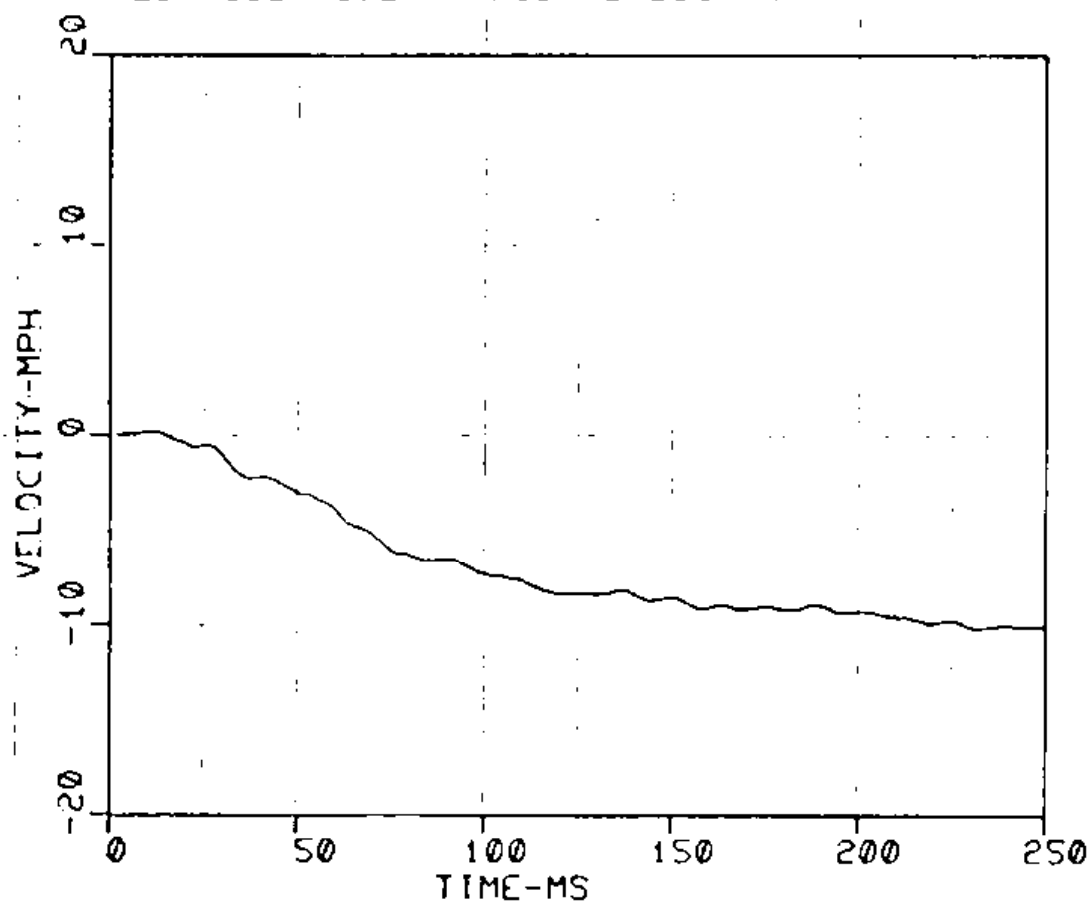
TEST#8327-6.2 VW MODRAB LOC 3 SZ



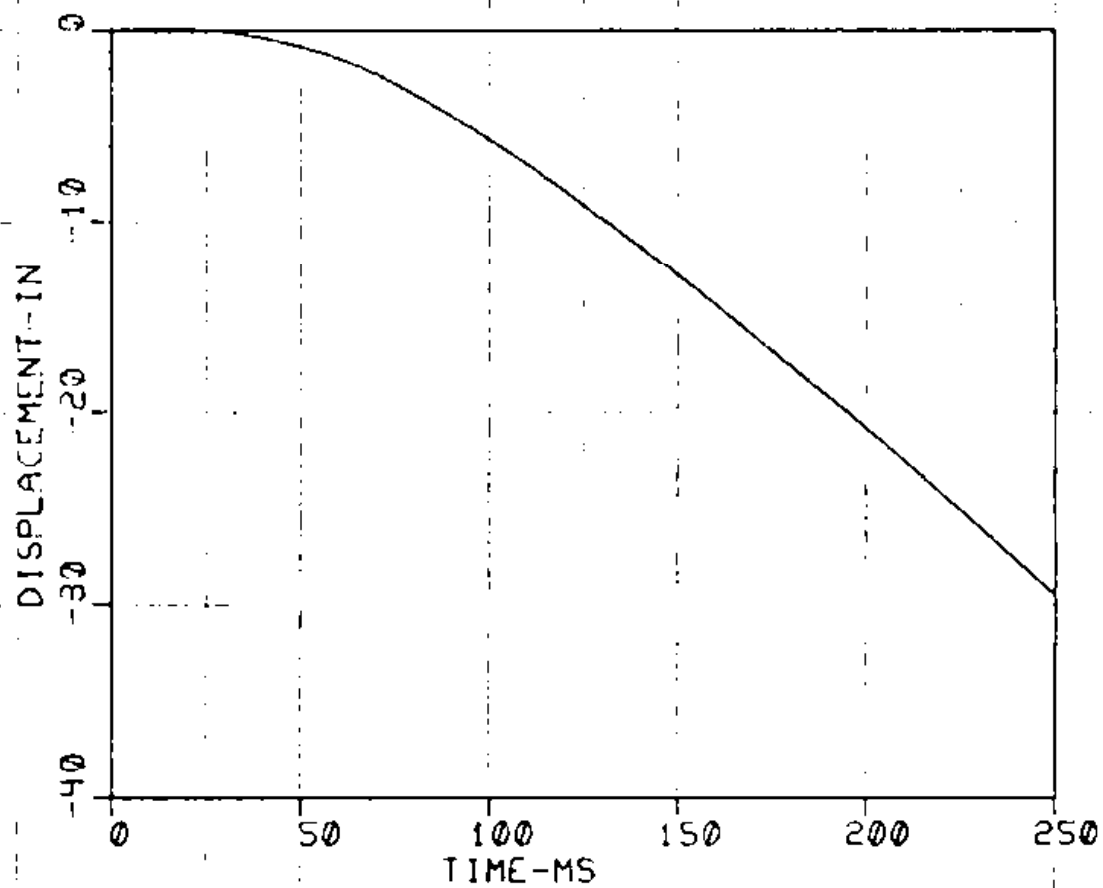
TEST#8327-6.2 MOD RABBIT LOC 4X



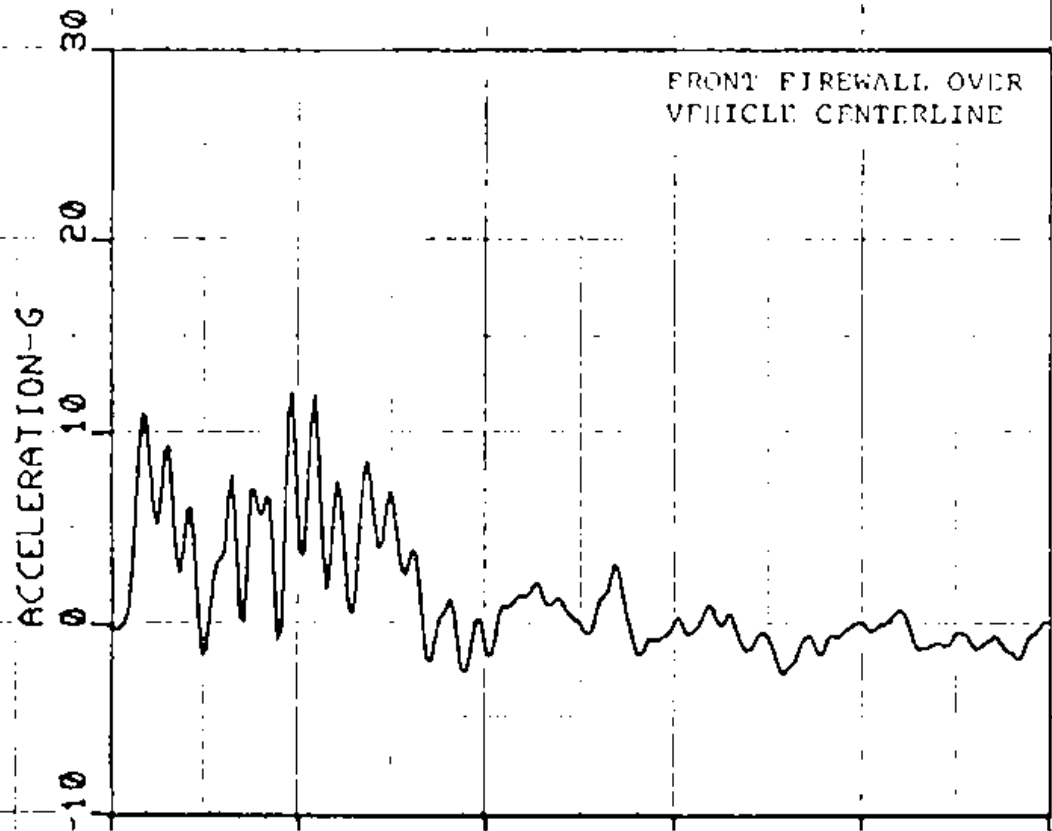
TEST#8327-6.2 VW MODRAB LOC 4X



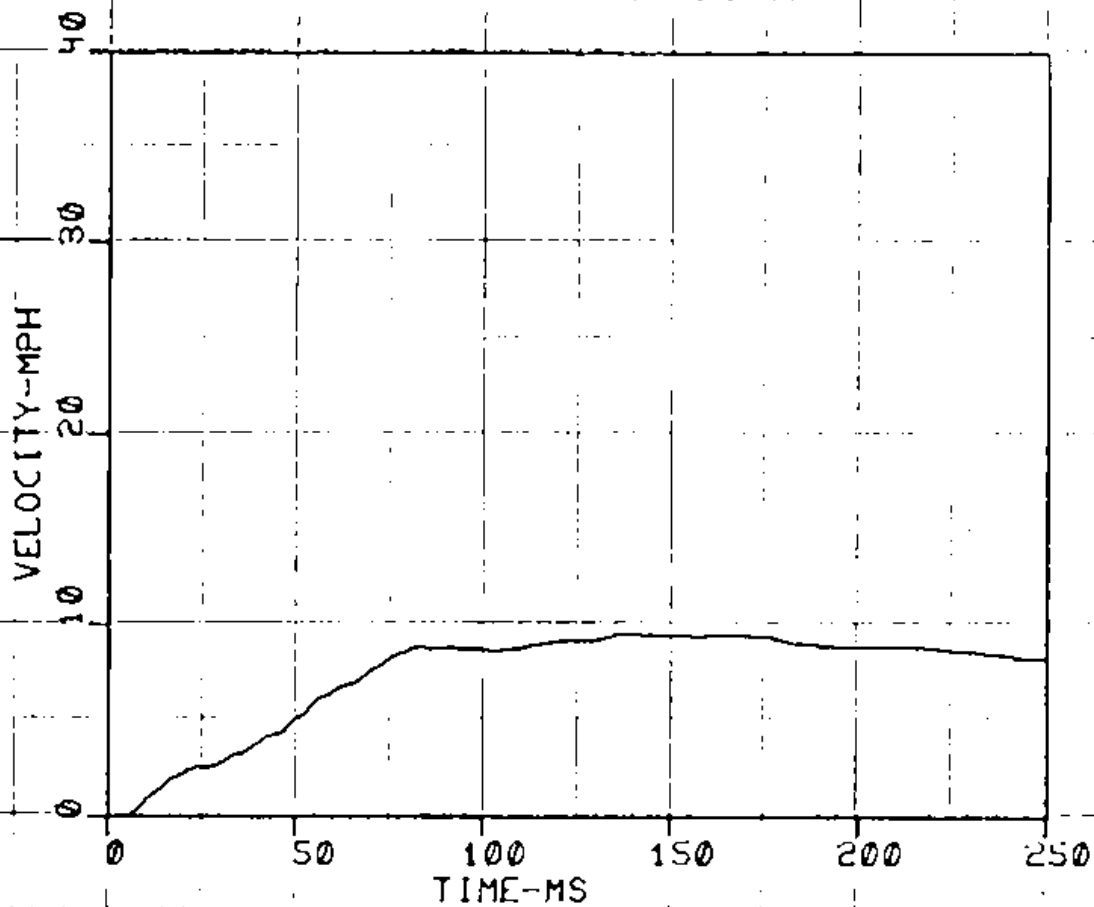
TEST#8327-6.2 VW MODRAB LOC 1X



TEST#8327-6.2 MOD RABBIT LOC 4Y

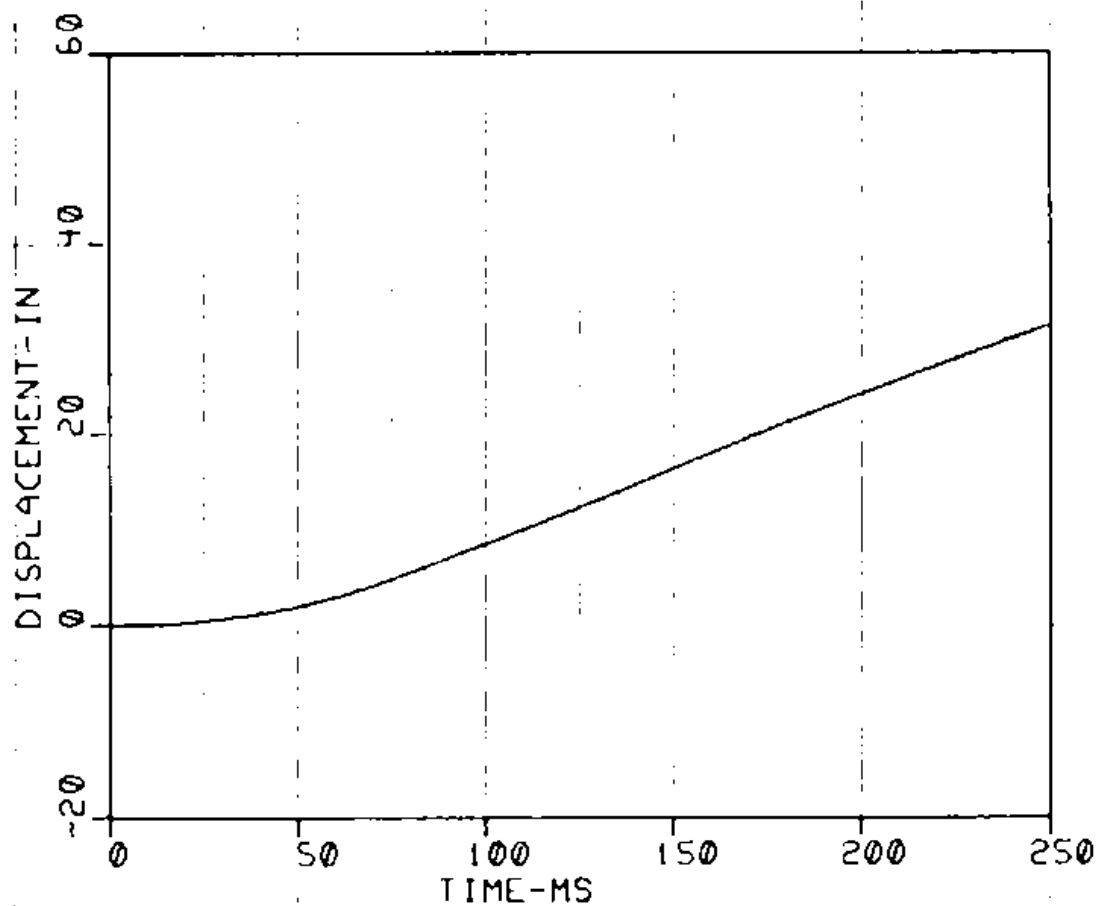


TEST#8327-6.2 MOD RABBIT LOC 4Y

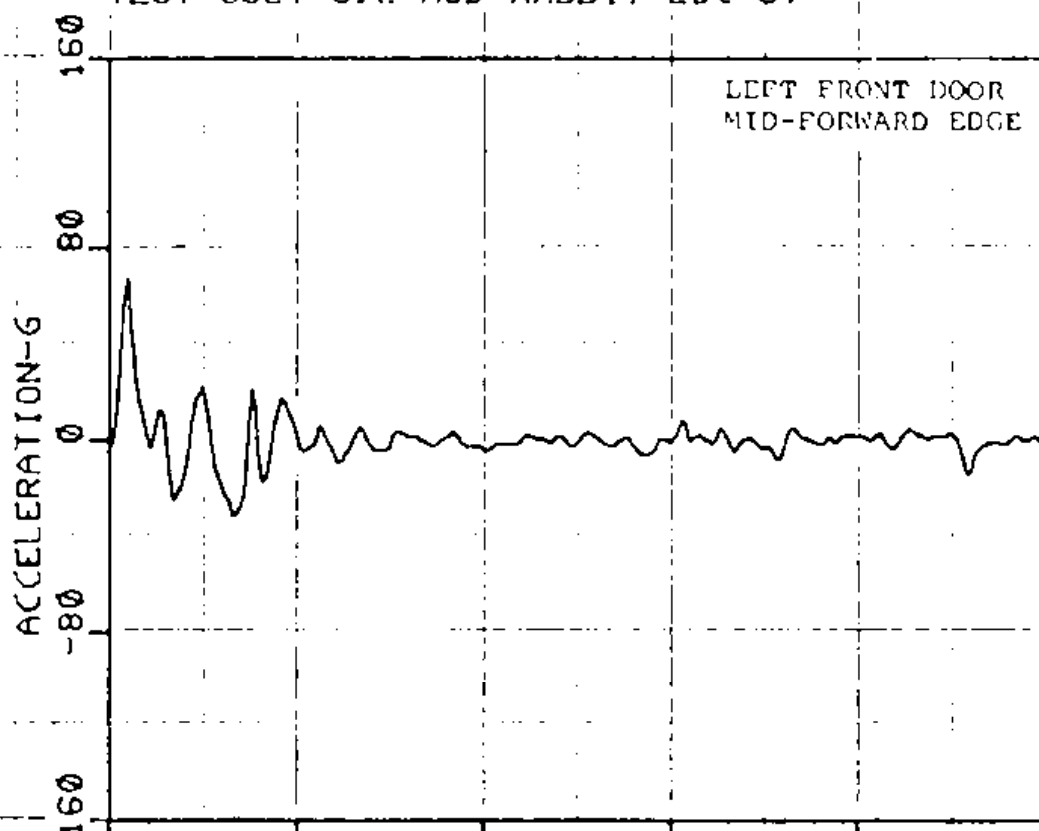


C-34

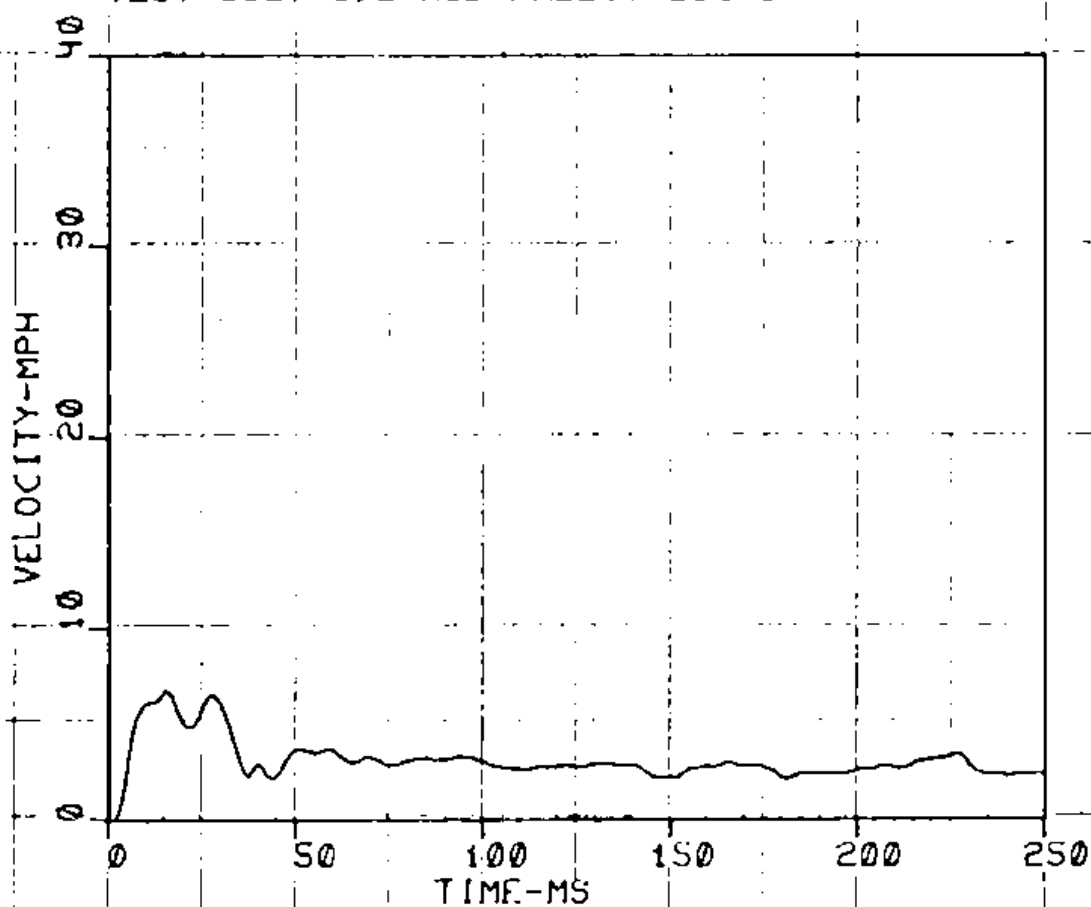
TEST#8327-6.2 VW MODRAB LOC 4Y

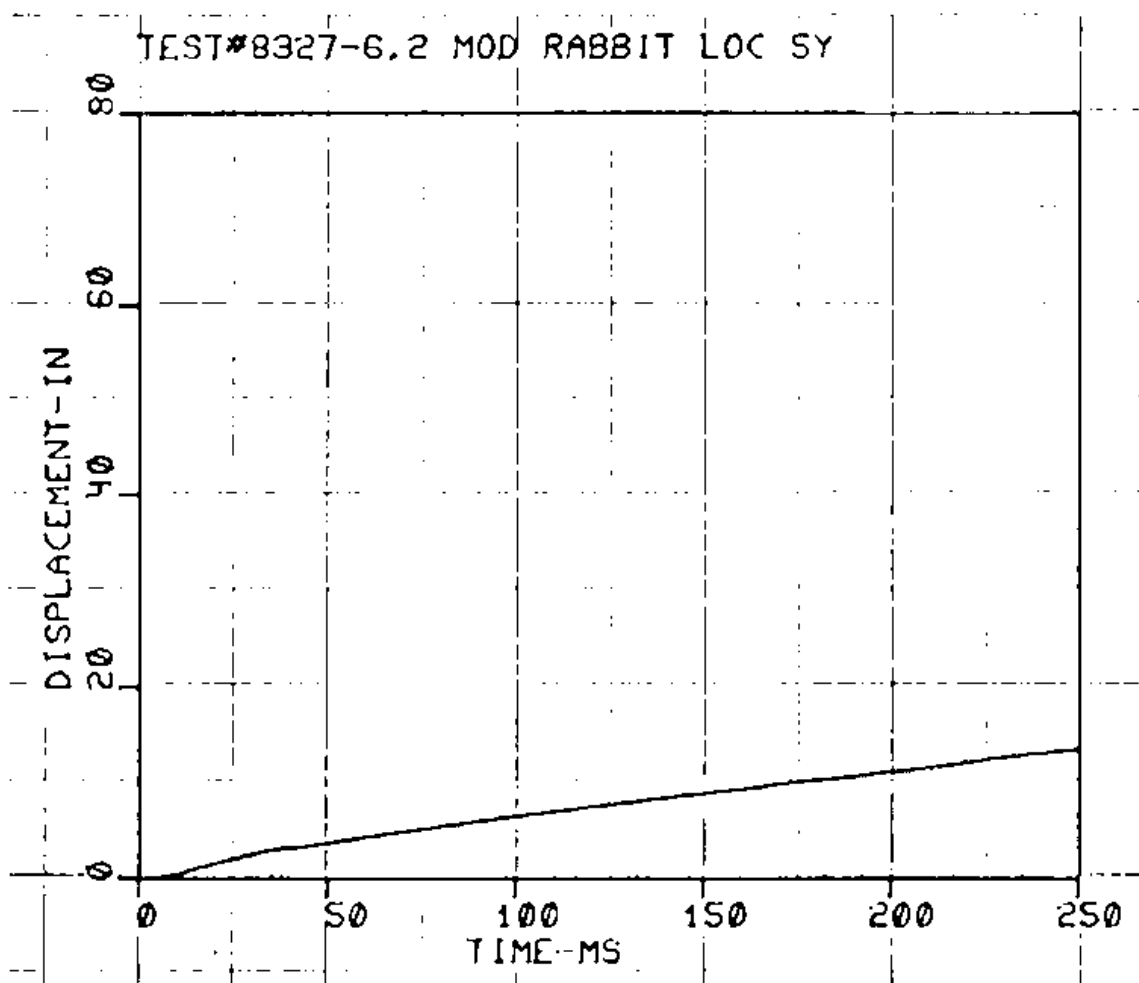


TEST#8327-6.2 MOD RABBIT LOC 5Y

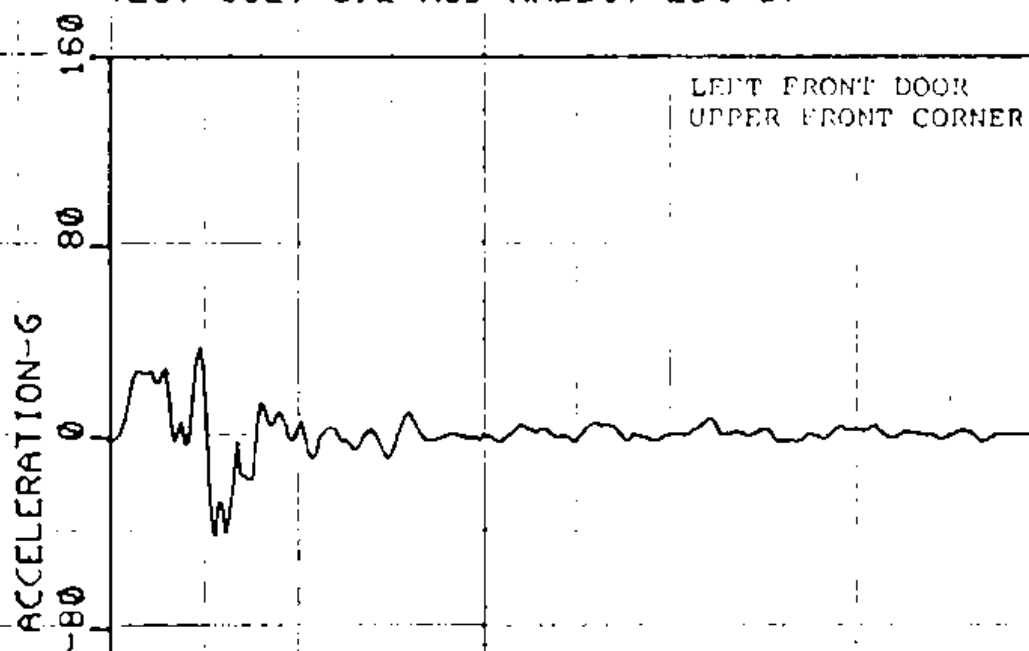


TEST#8327-6.2 MOD RABBIT LOC 5Y

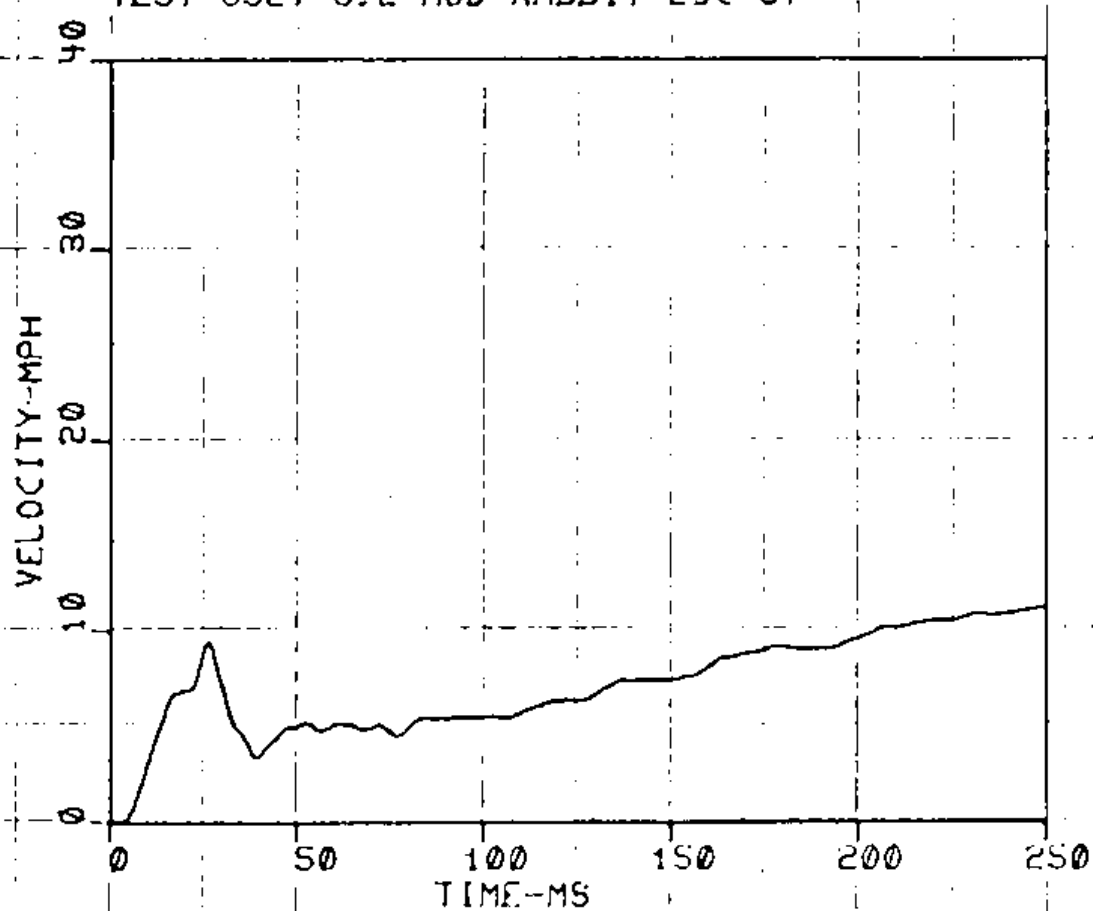


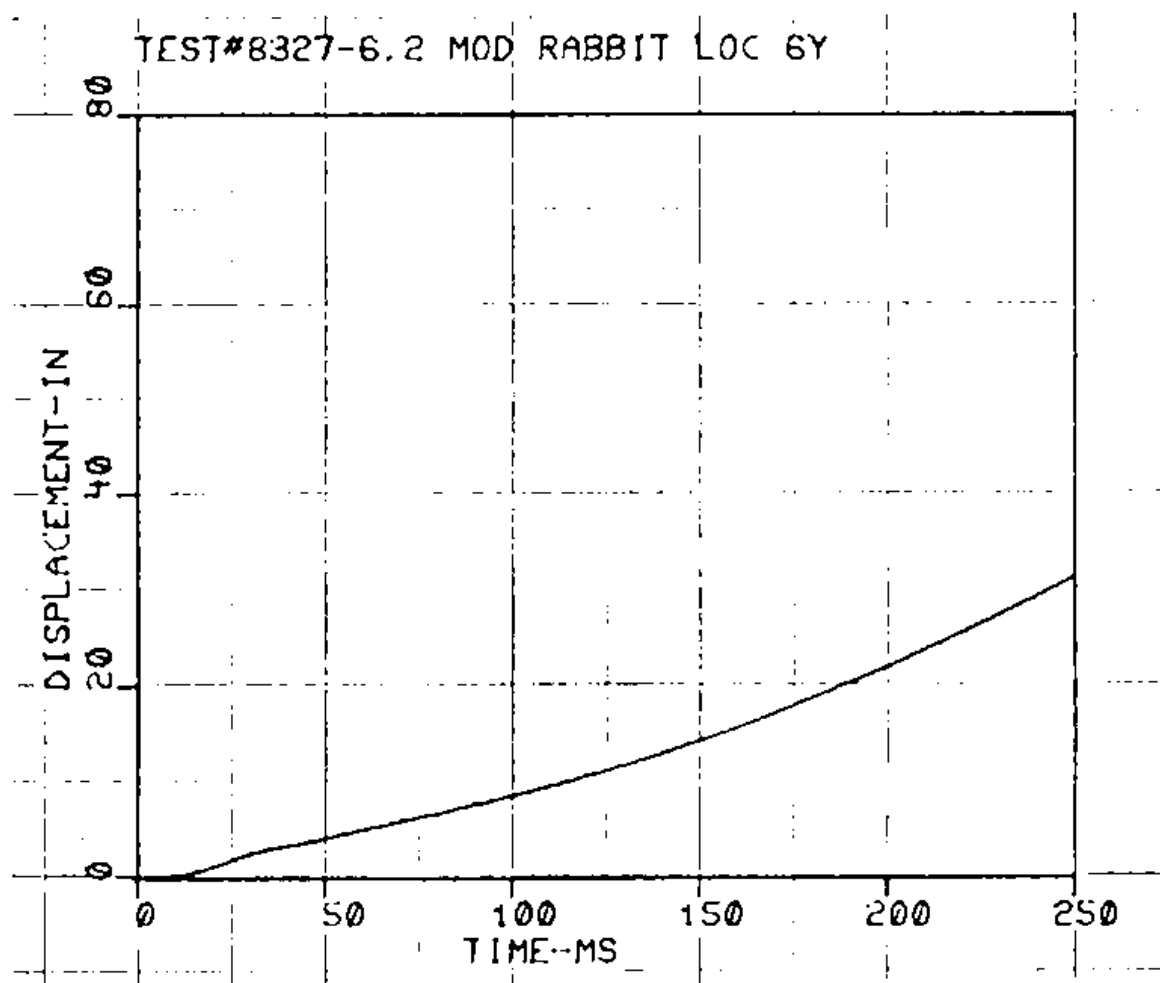


TEST#8327-6.2 MOD RABBIT LOC 6Y

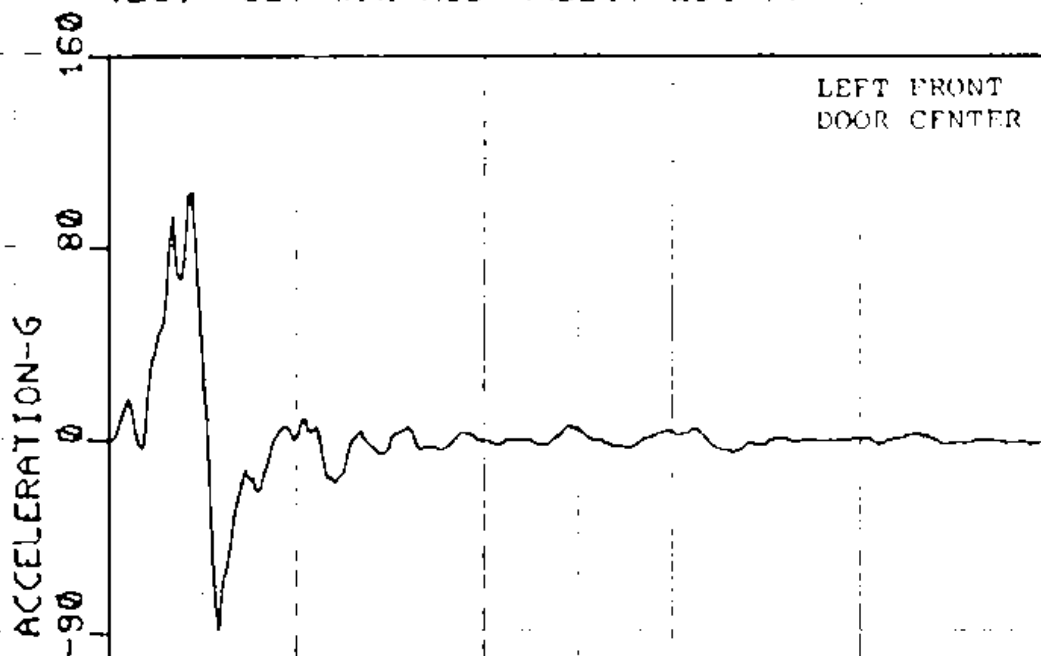


TEST#8327-6.2 MOD RABBIT LOC 6Y

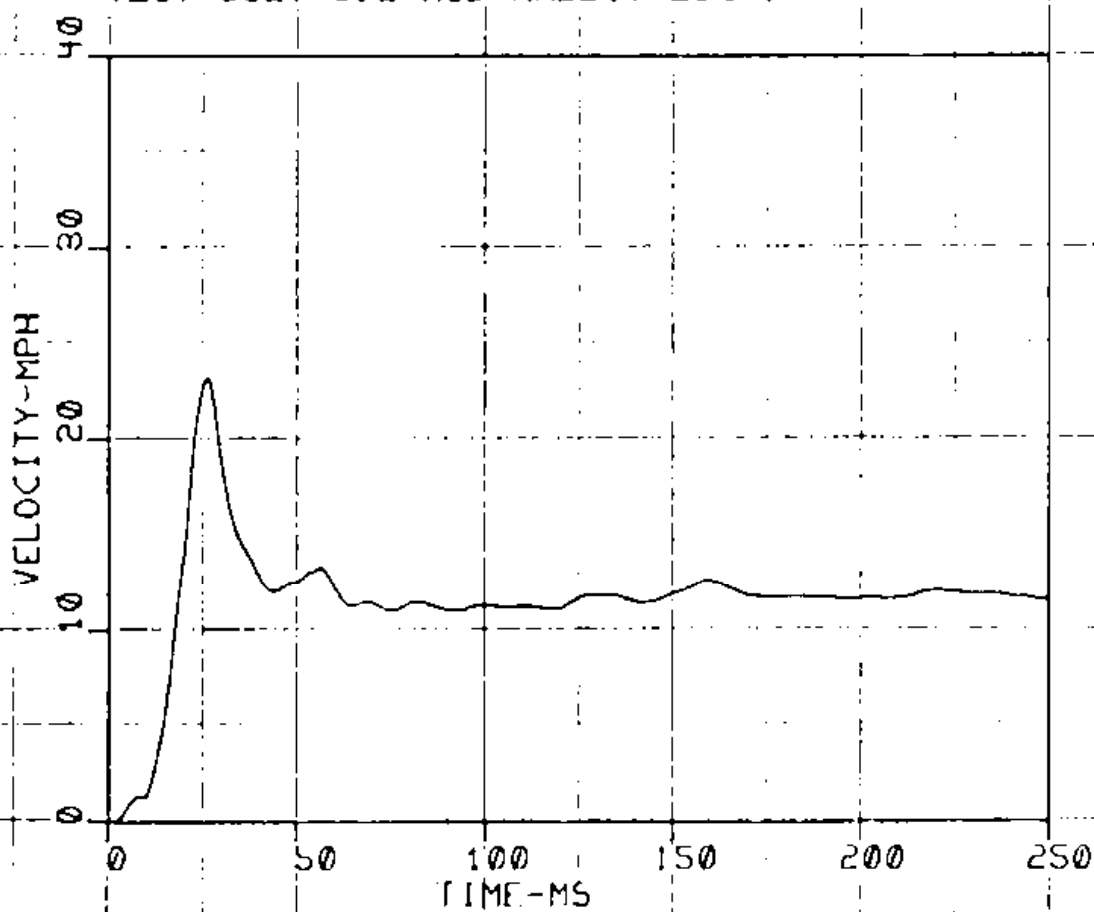




TEST#9327-6.2 MOD RABBIT LOC 7Y

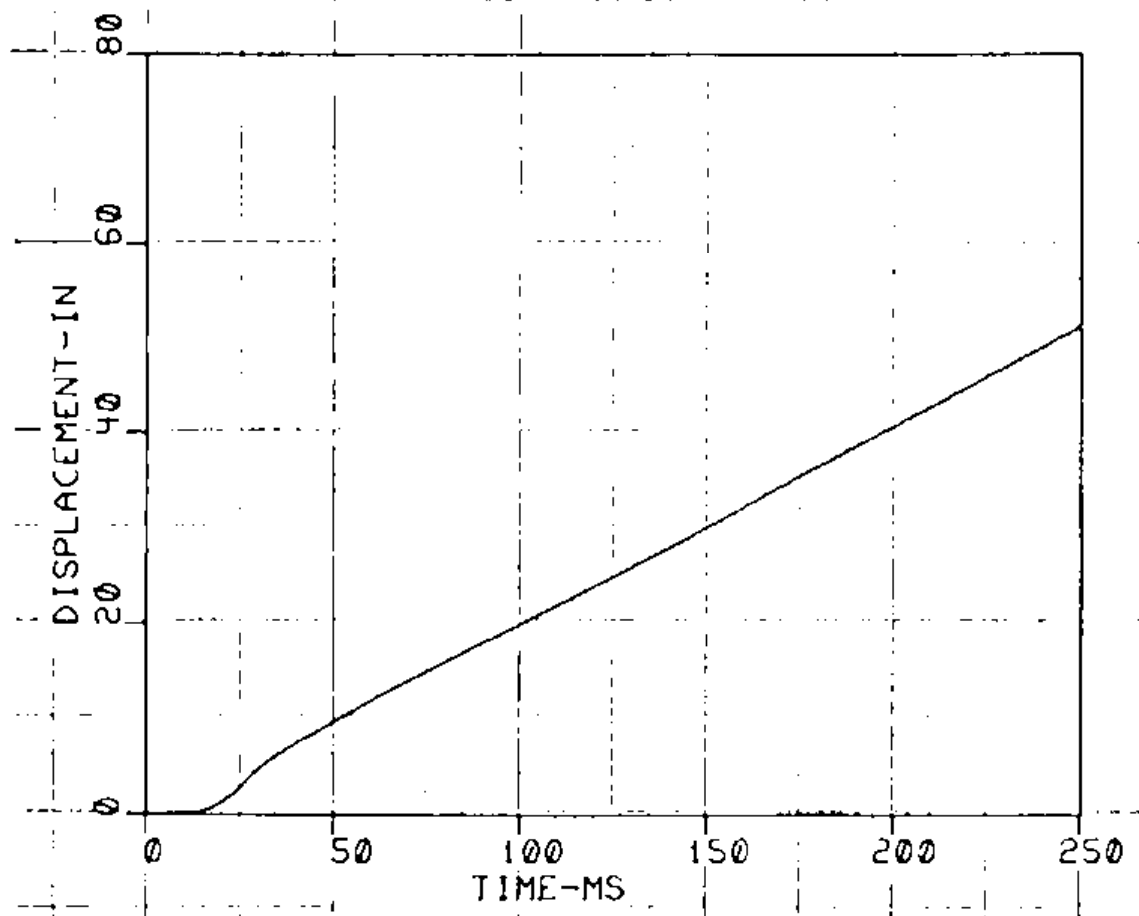


TEST#9327-6.2 MOD RABBIT LOC 7Y

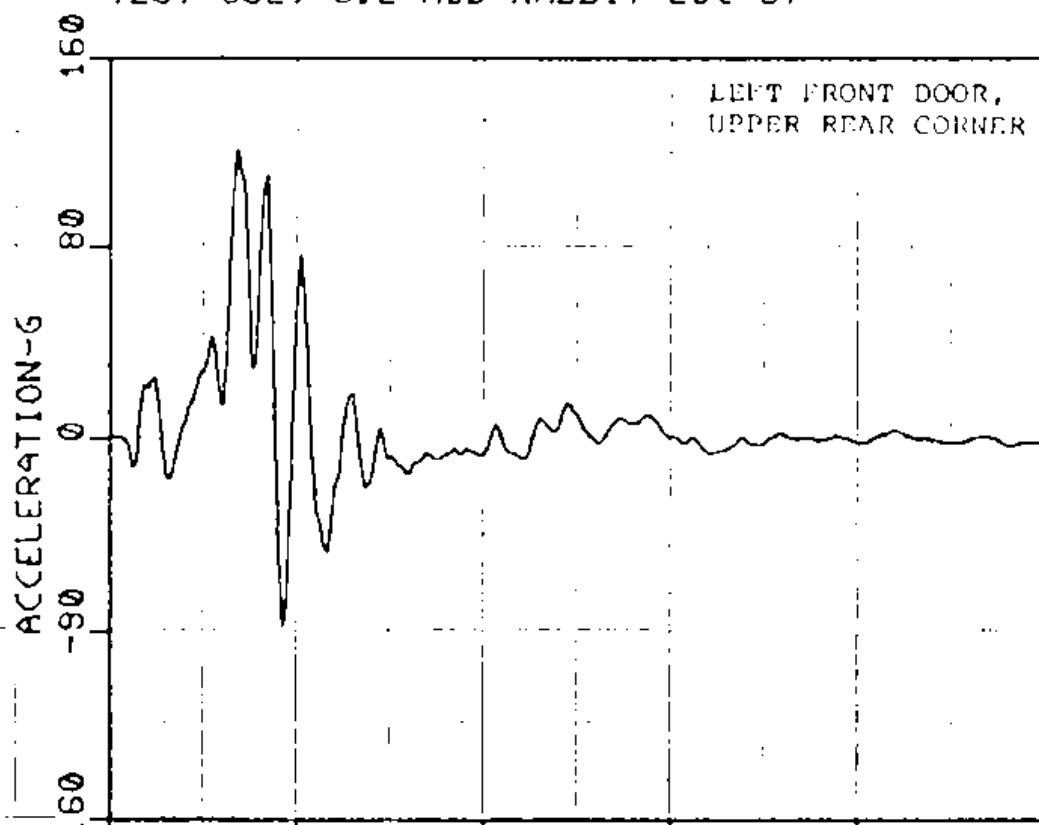


C-40

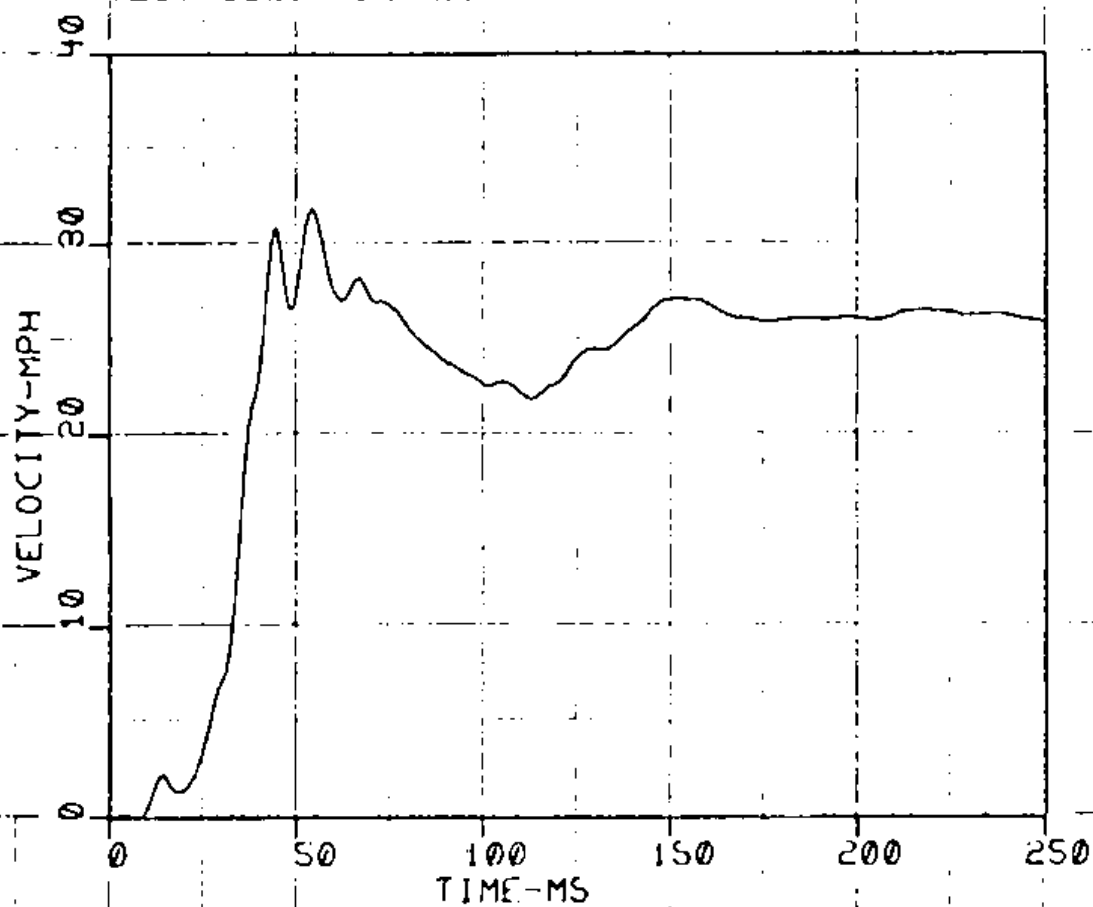
TEST#8327-6.2 MOD RABBIT LOC 7Y



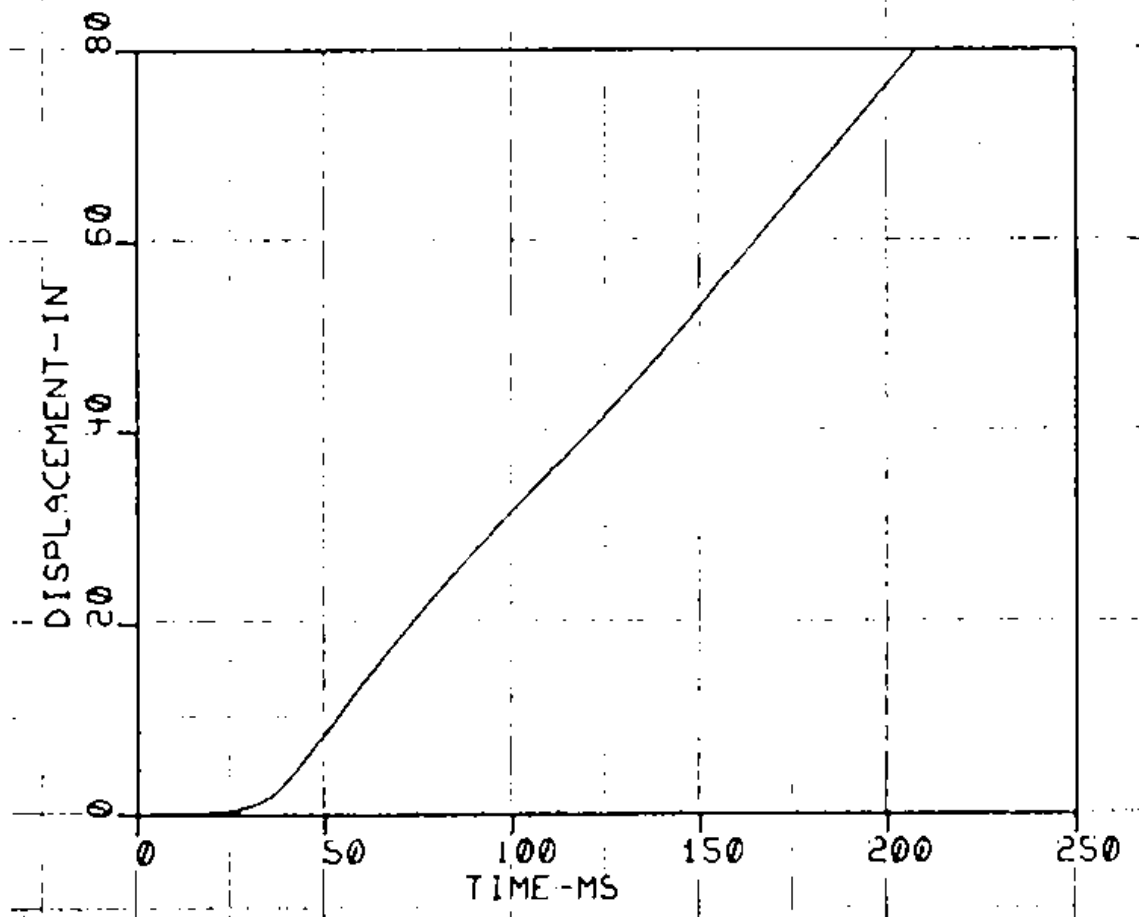
TEST#8327-6.2 MOD RABBIT LOC 8Y



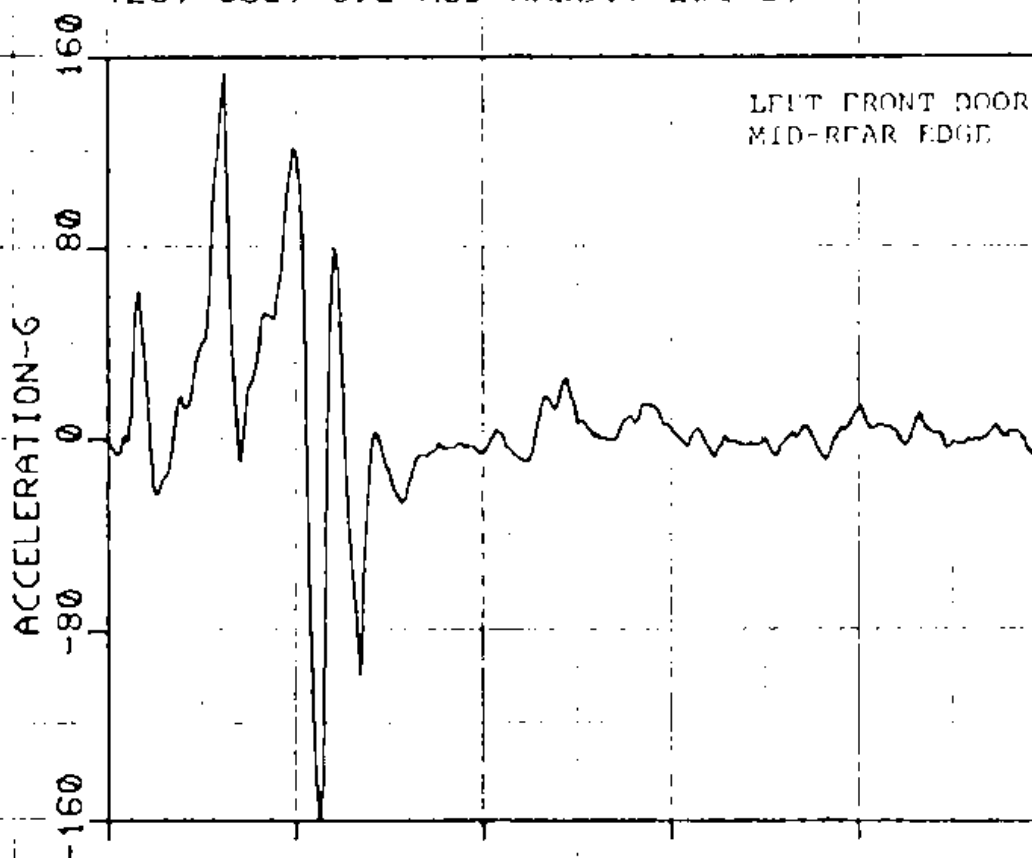
TEST#8327-6.2 MOD RABBIT LOC 8Y



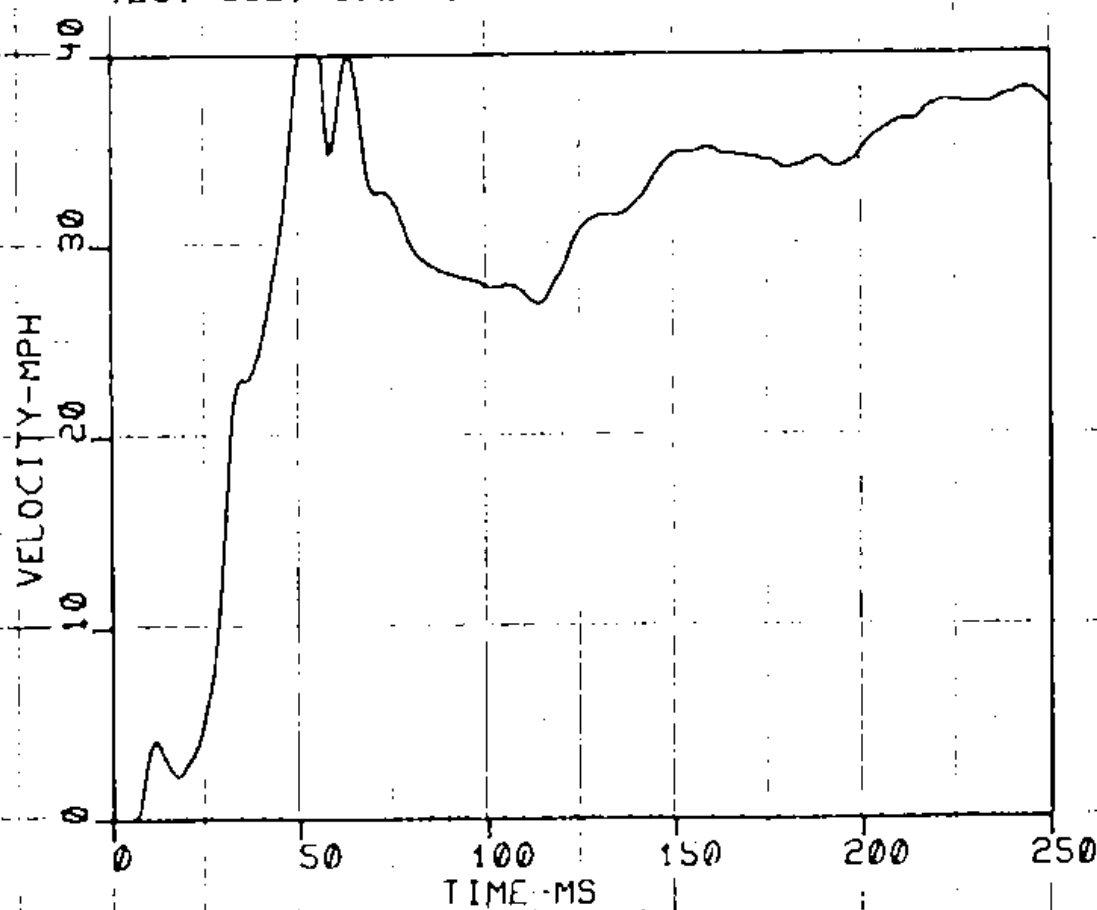
TEST#8327-6.2 MOD RABBIT LOC 8Y

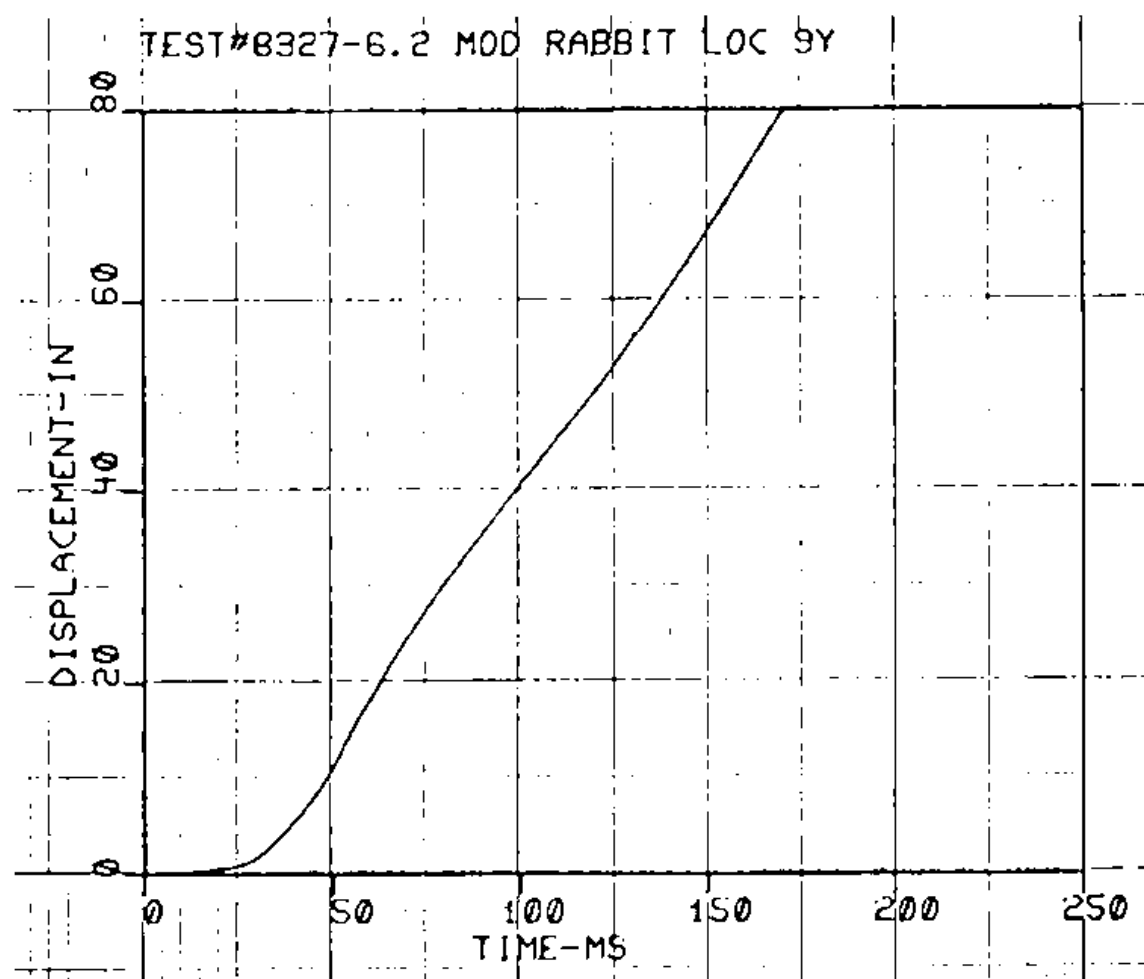


TEST#8327-6.2 MOD RABBIT LOC 9Y

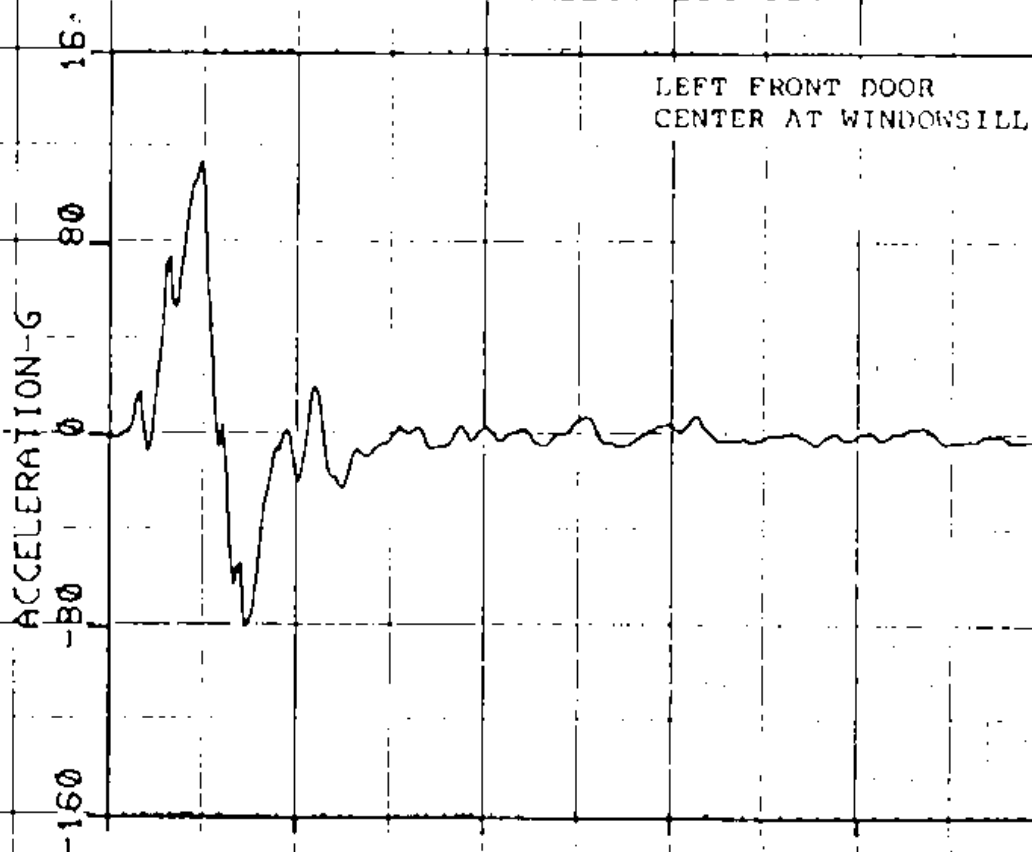


TEST#8327-6.2 MOD RABBIT LOC 9Y

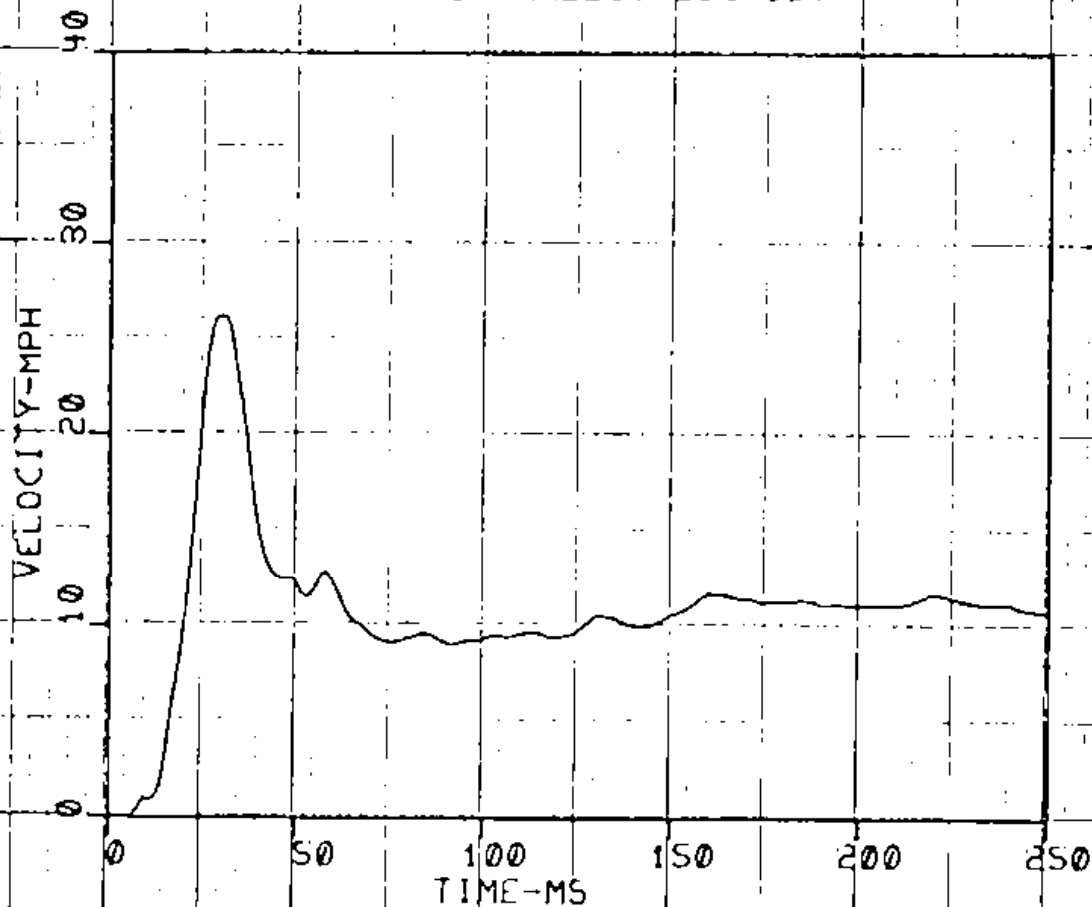


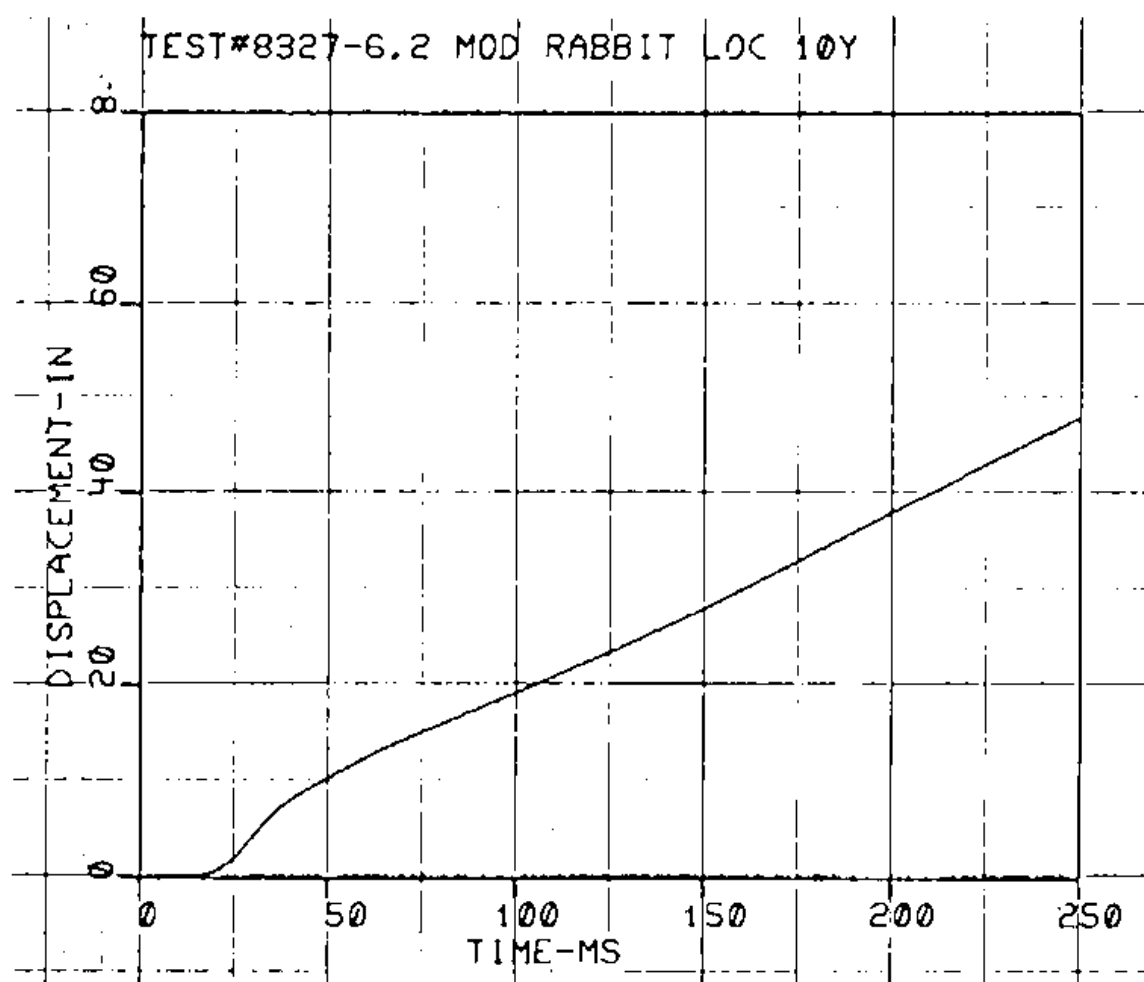


TEST#8327-6.2 MOD RABBIT LOC 10Y

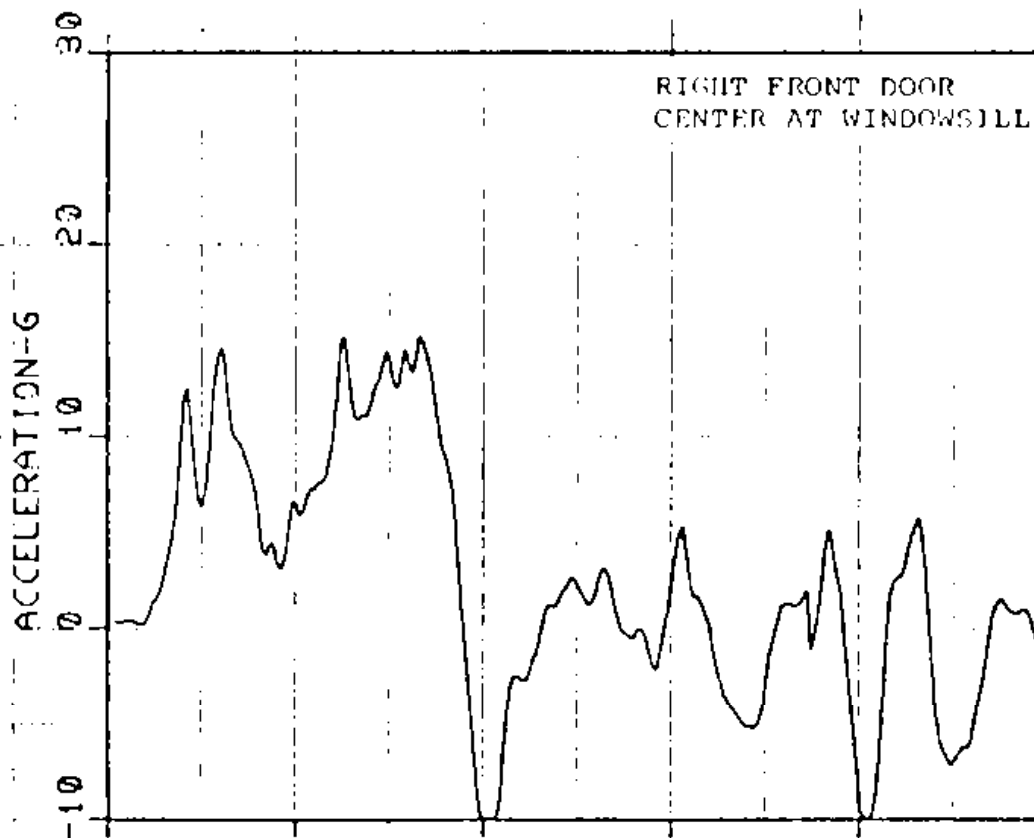


TEST#8327-6.2 MOD RABBIT LOC 10Y

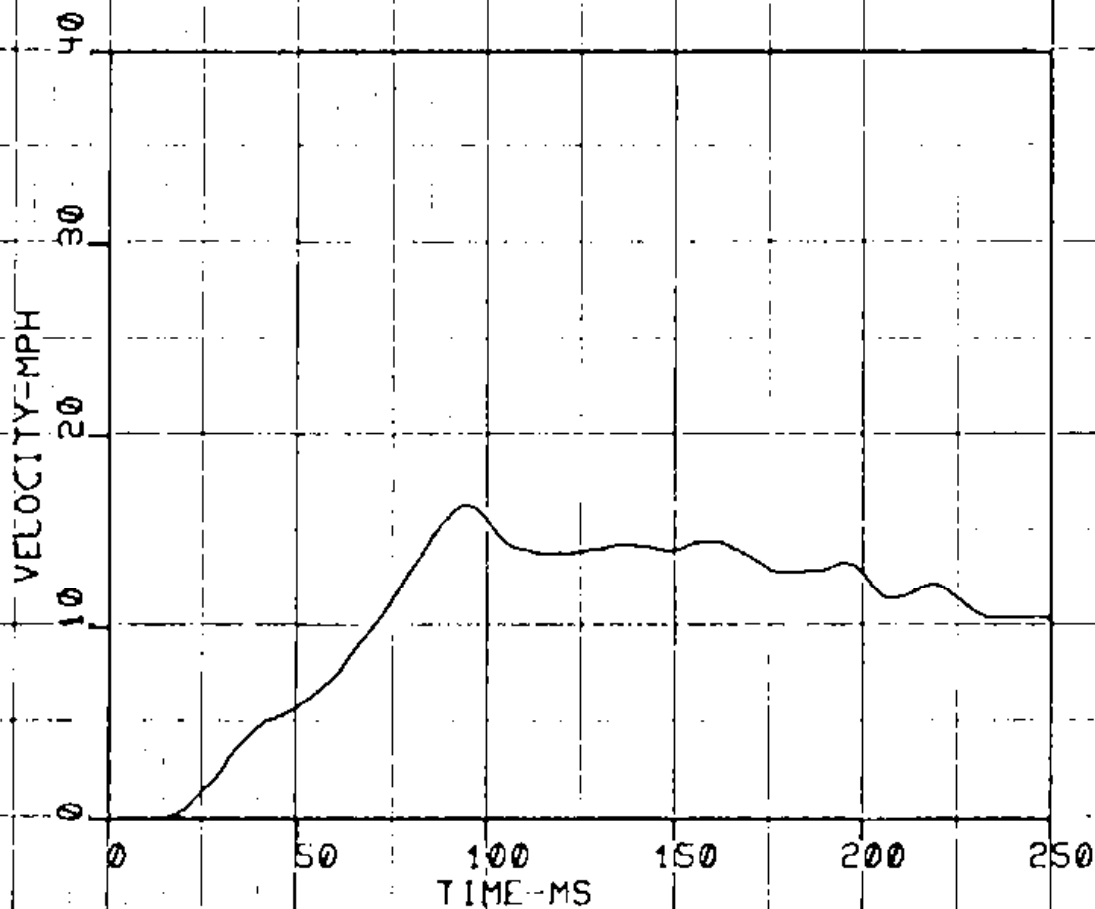


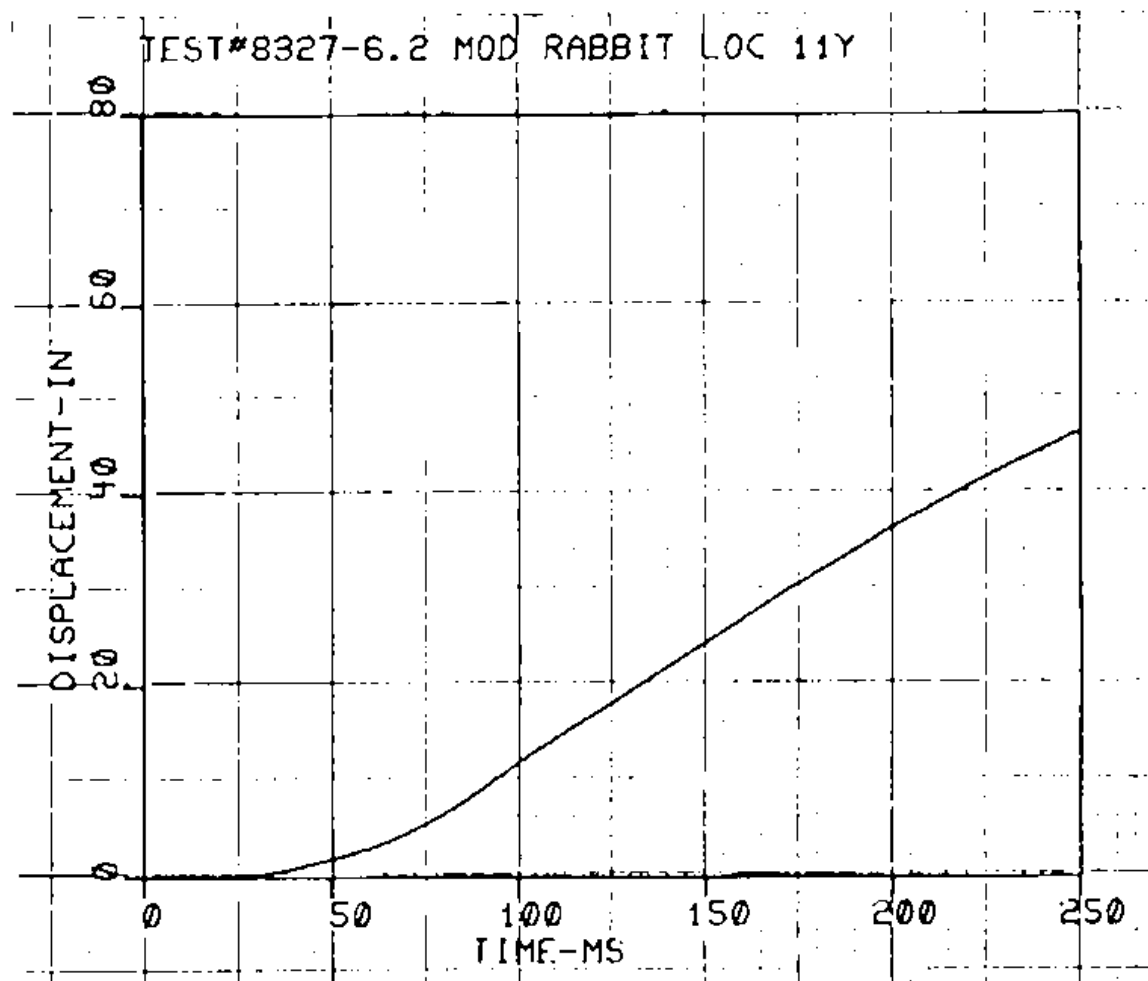


TEST#8327-6.2 VW MODRAB LOC 11Y



TEST#8327-6.2 MOD RABBIT LOC 11Y





TEST#8327-6.2 MOD RABBIT LOC 12Y

ACCELERATION-G

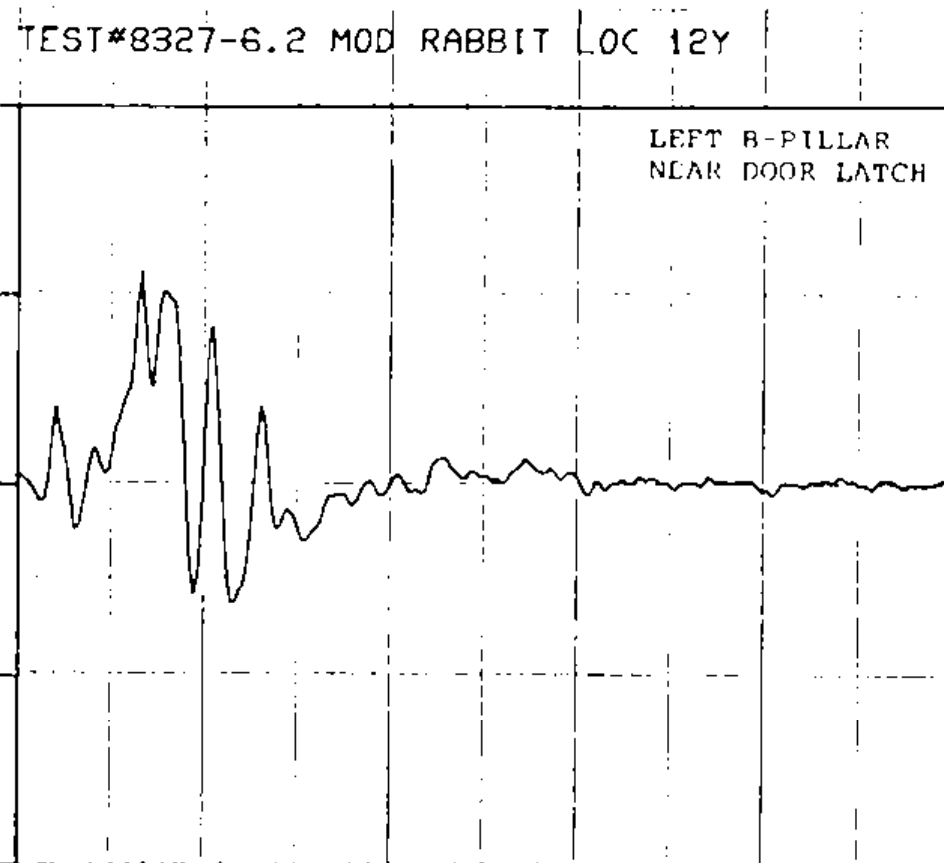
LEFT B-PILLAR
NEAR DOOR LATCH

160

80

0

-80



TEST#8327-6.2 MOD RABBIT LOC 12Y

VELOCITY-MPH

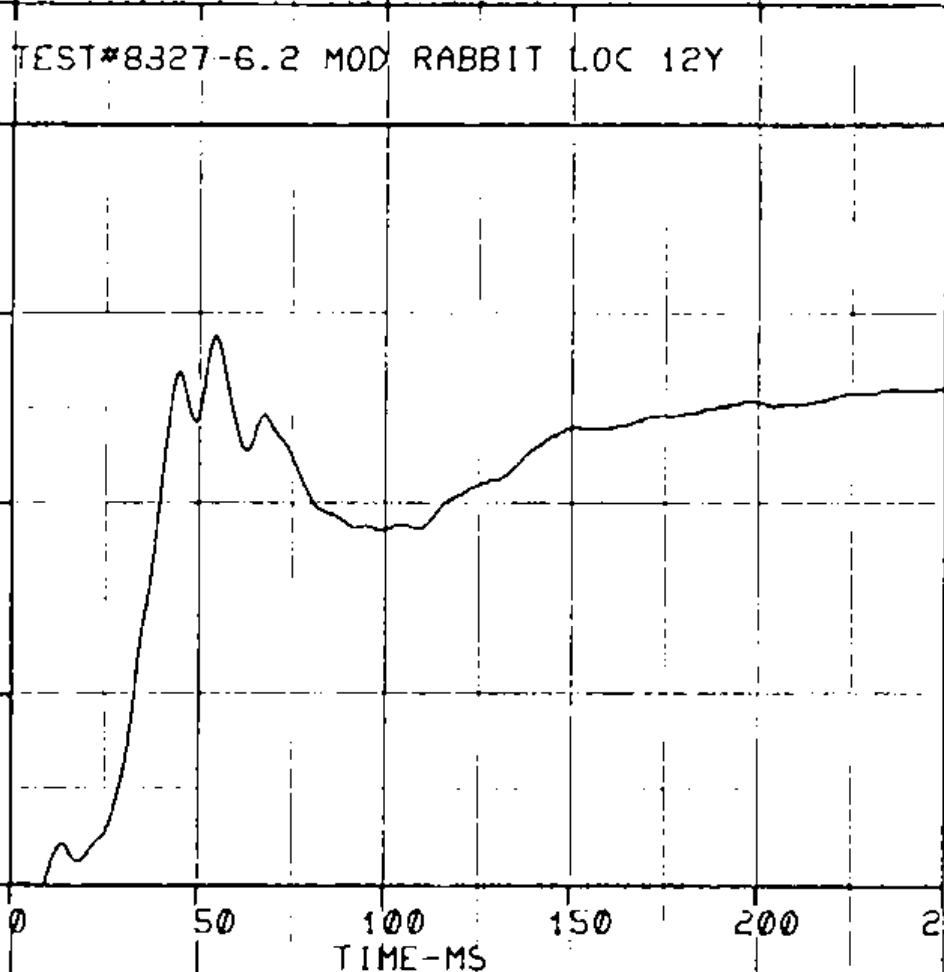
40

30

20

10

0



TIME-MS

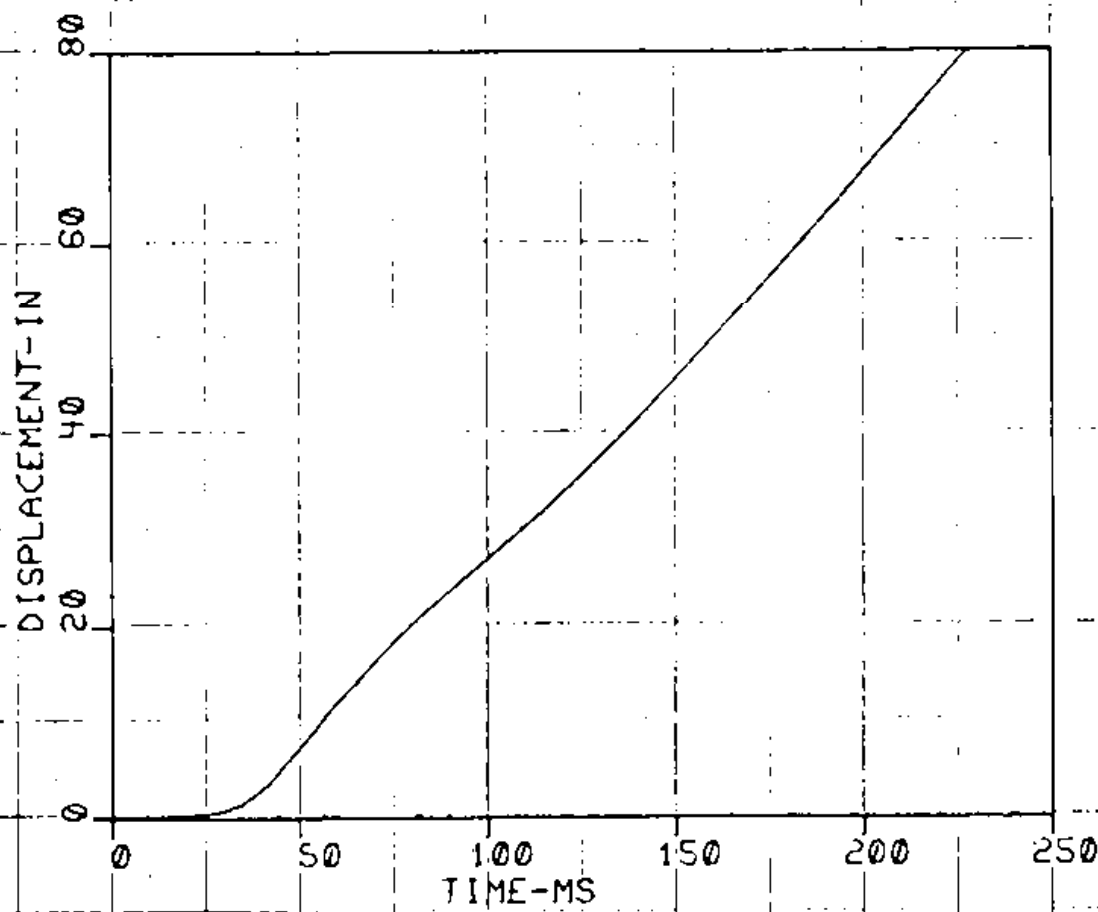
150

200

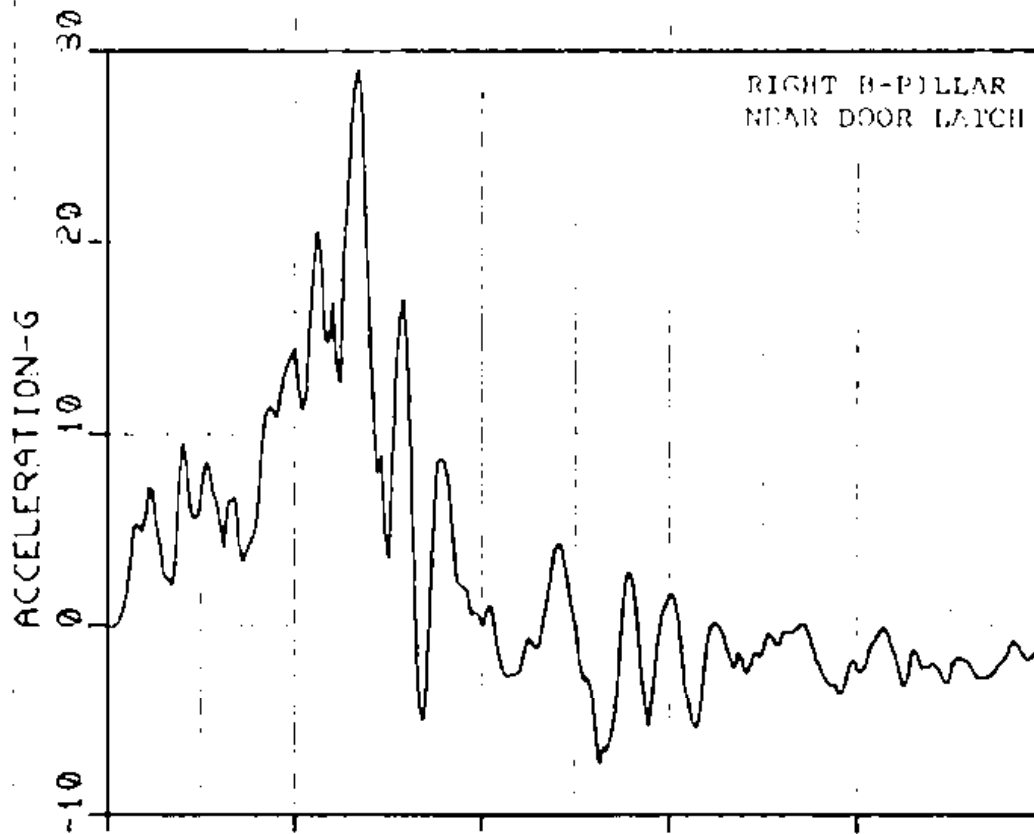
250

C-50

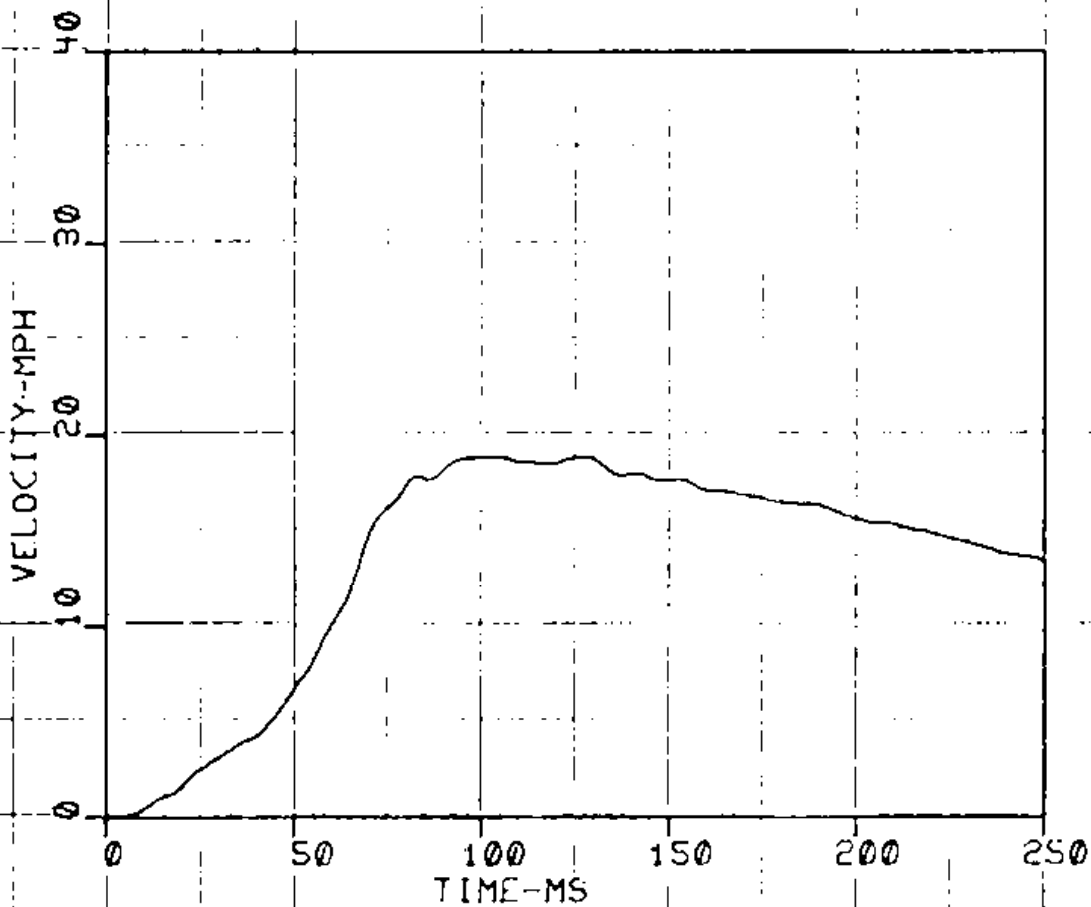
TEST#8327-6.2 MOD RABBIT LOC 12Y



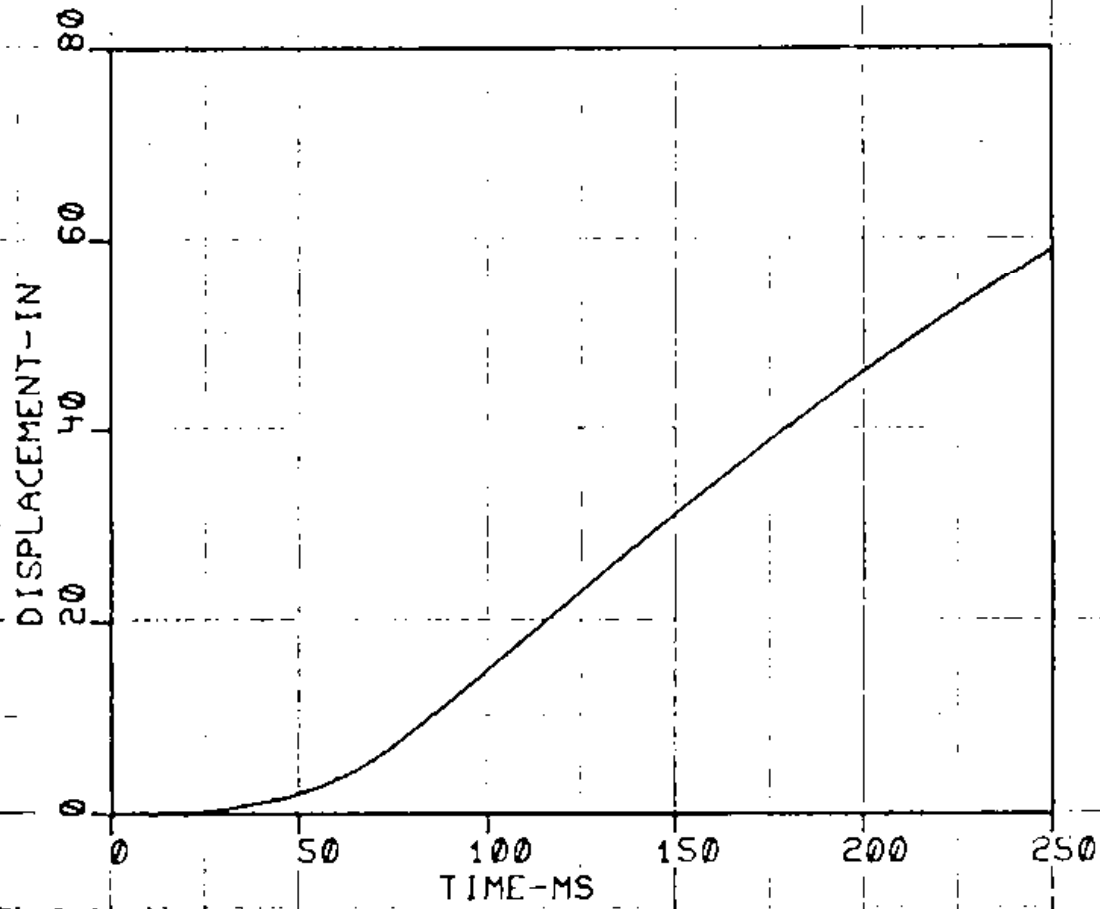
TEST#8327-6.2 VW MODRAB LOC 13Y



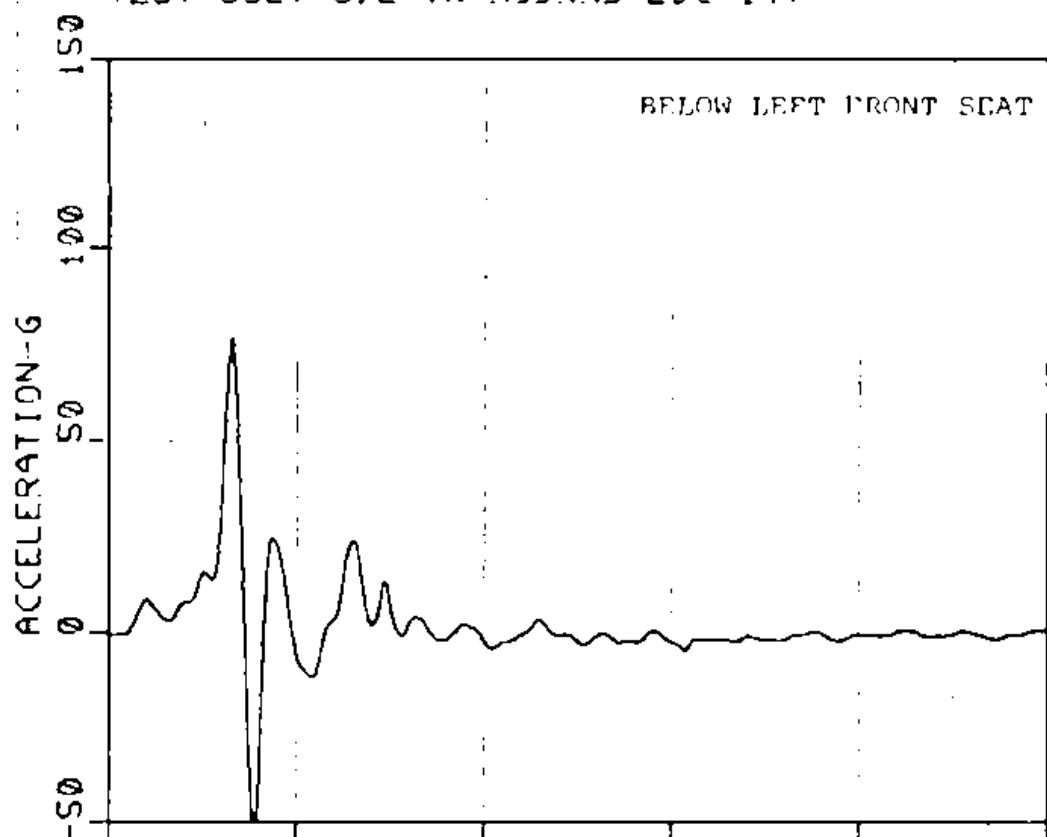
TEST#8327-6.2 MOD RABBIT LOC 13Y



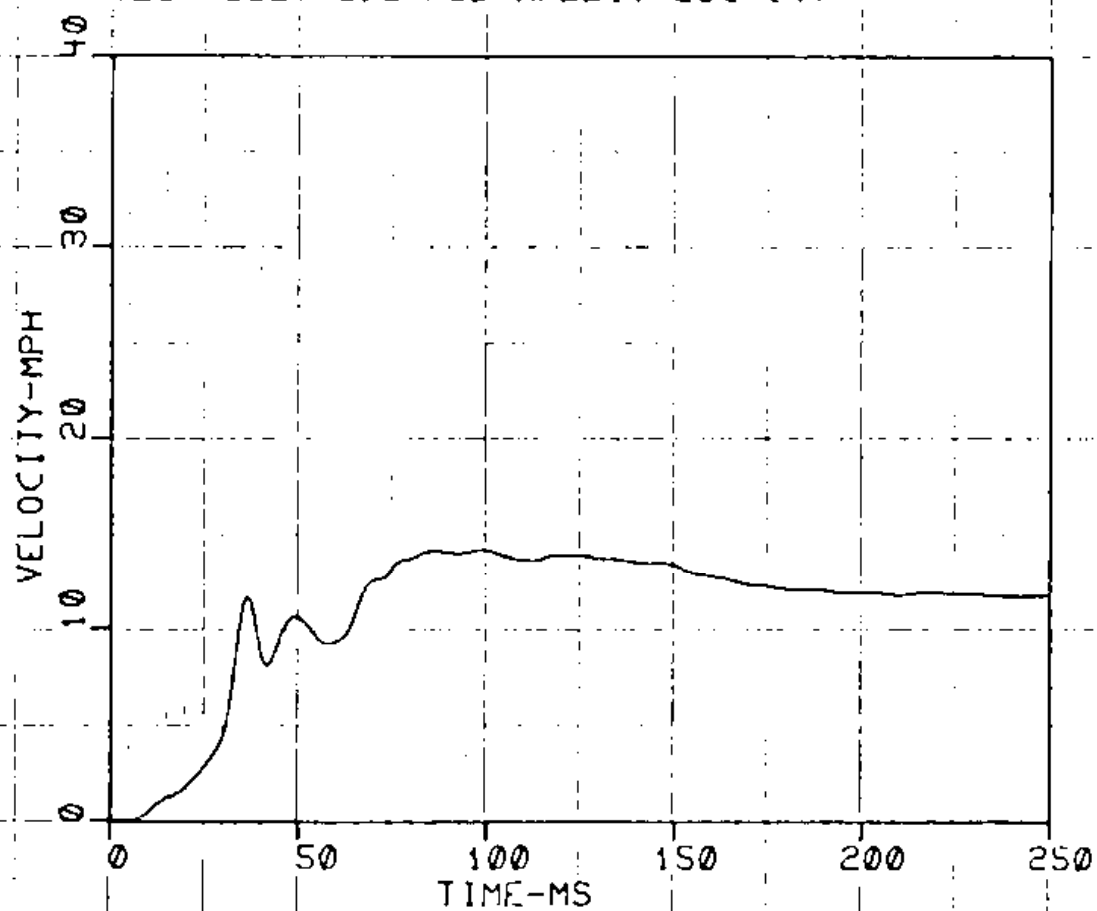
TEST#8327-6.2 MOD RABBIT LOC 13Y



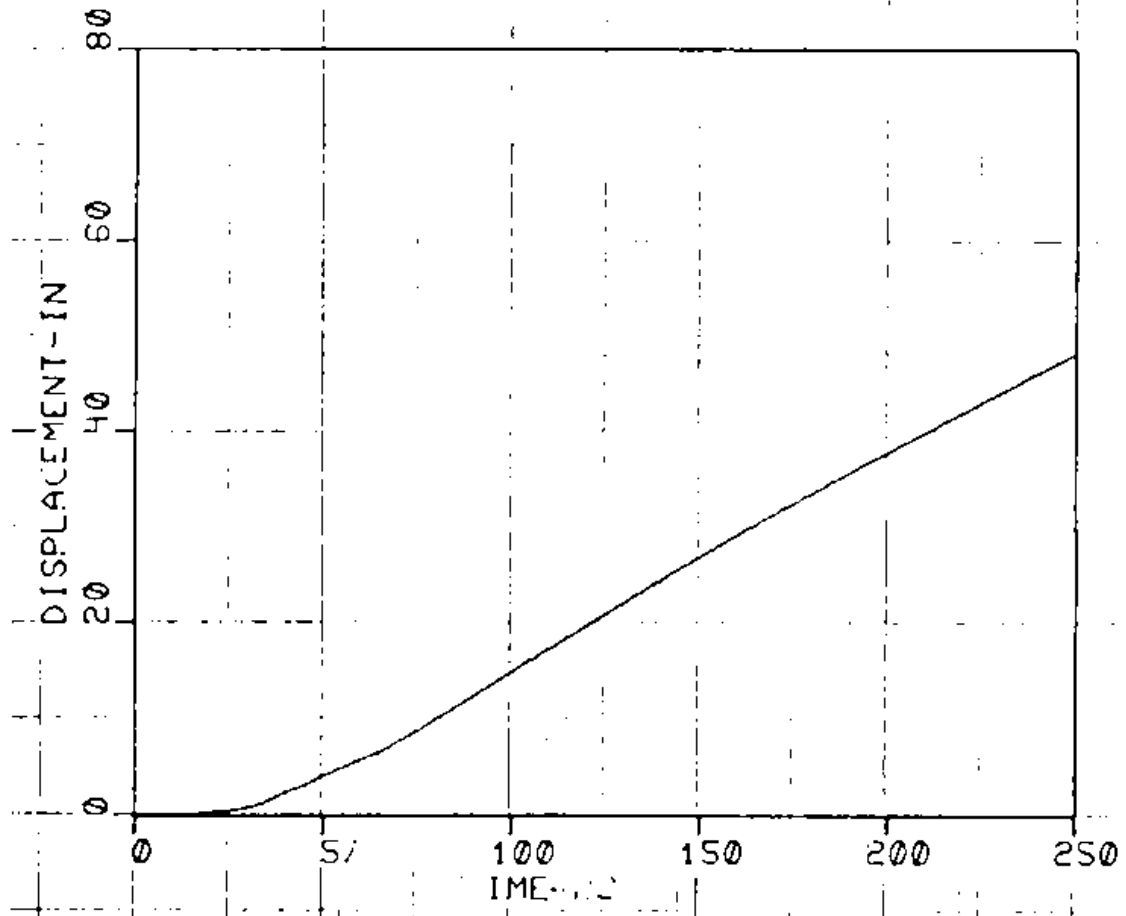
TEST#8327-6.2 VW MODRAB LOC 14Y



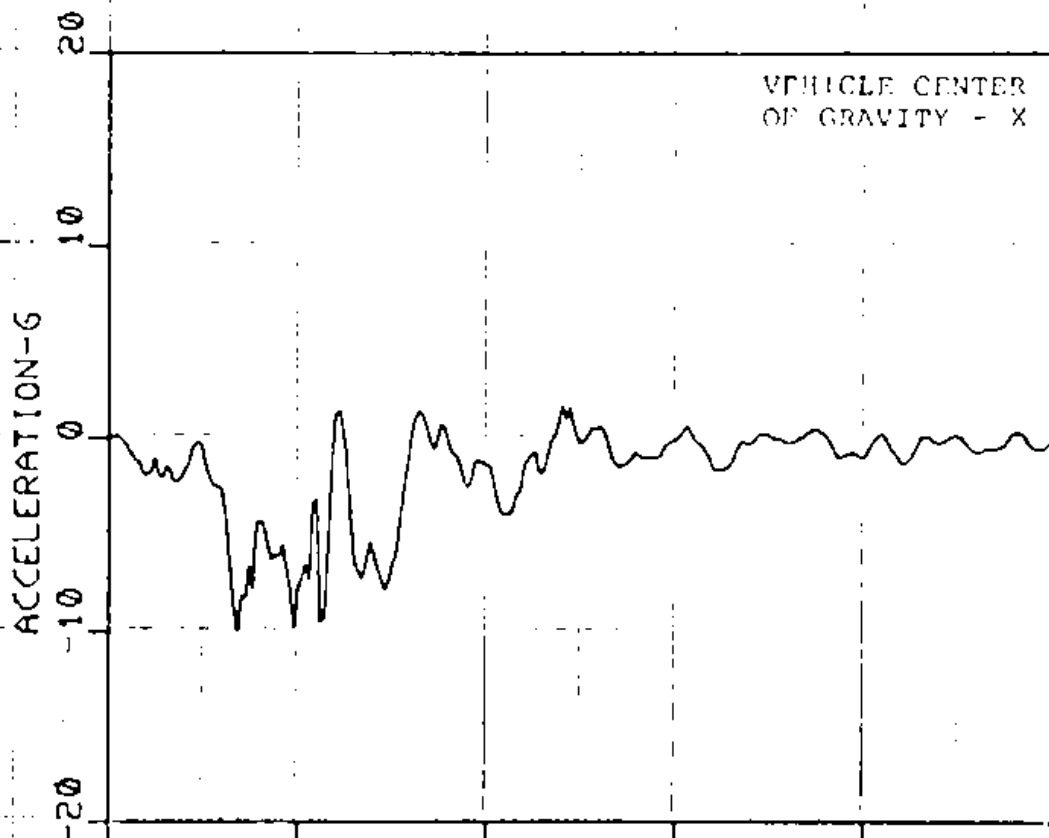
TEST#8327-6.2 MOD RABBIT LOC 14Y



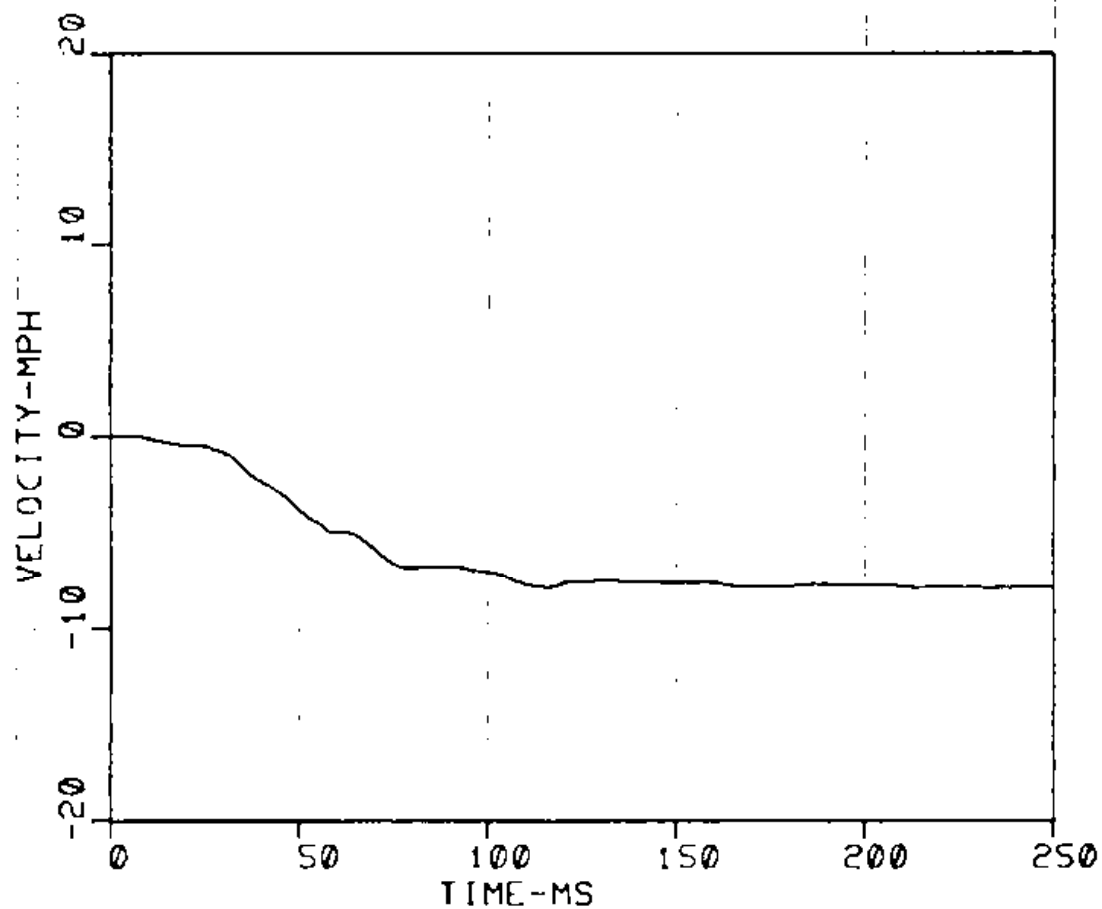
TEST#8327-6.2 MOD RABBIT LOC 14Y



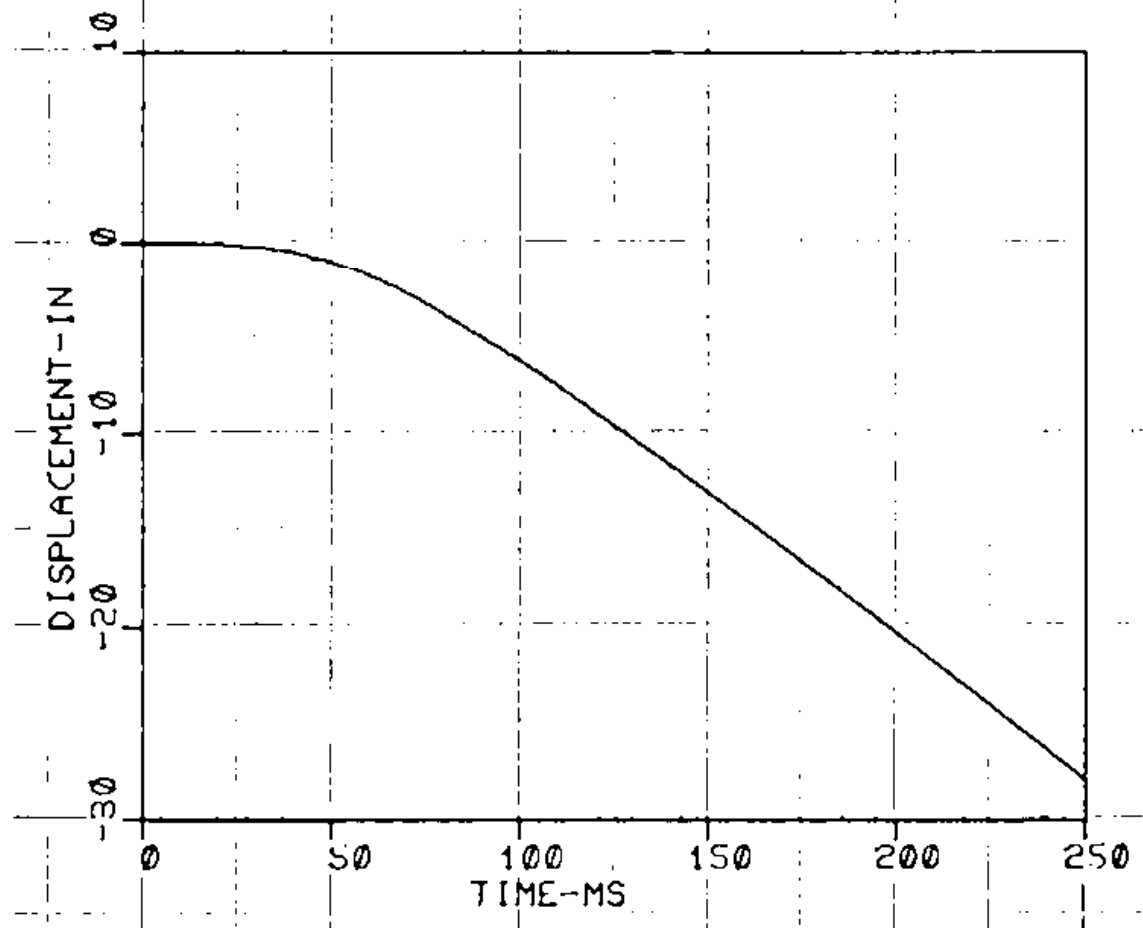
TEST#8327-G.2 MOD RABBIT LOC 15X



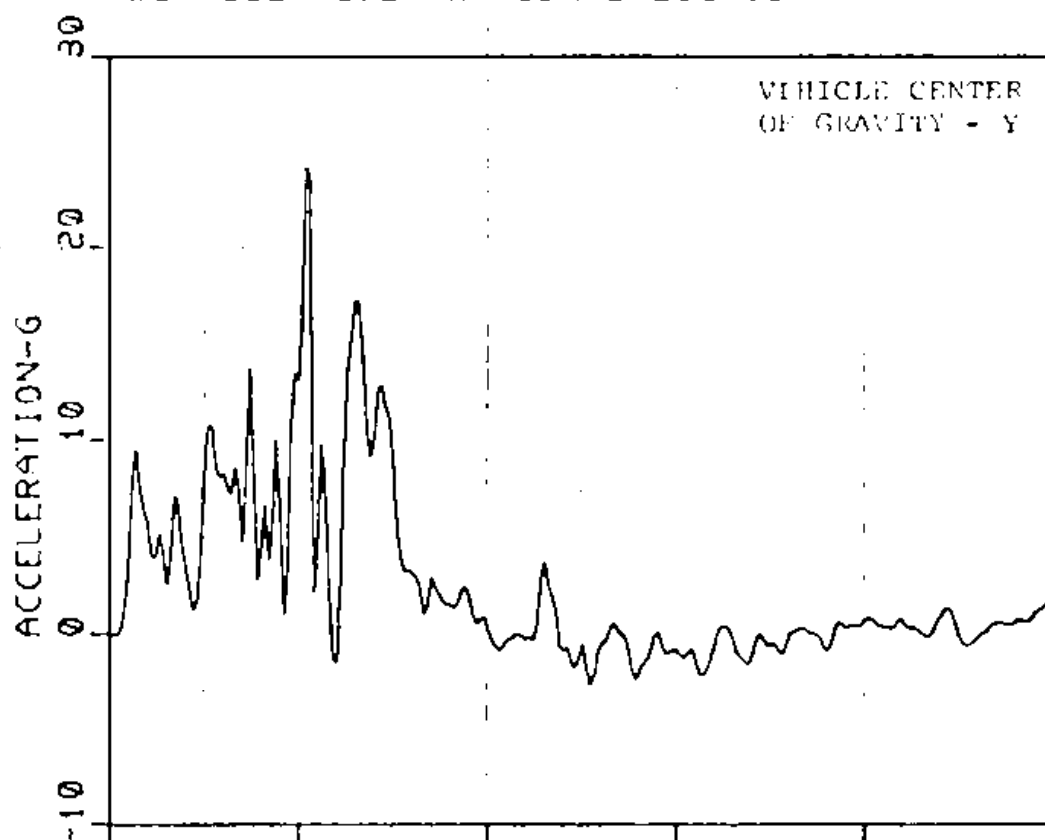
TEST#8327-G.2 VW MODRAB LOC 15X



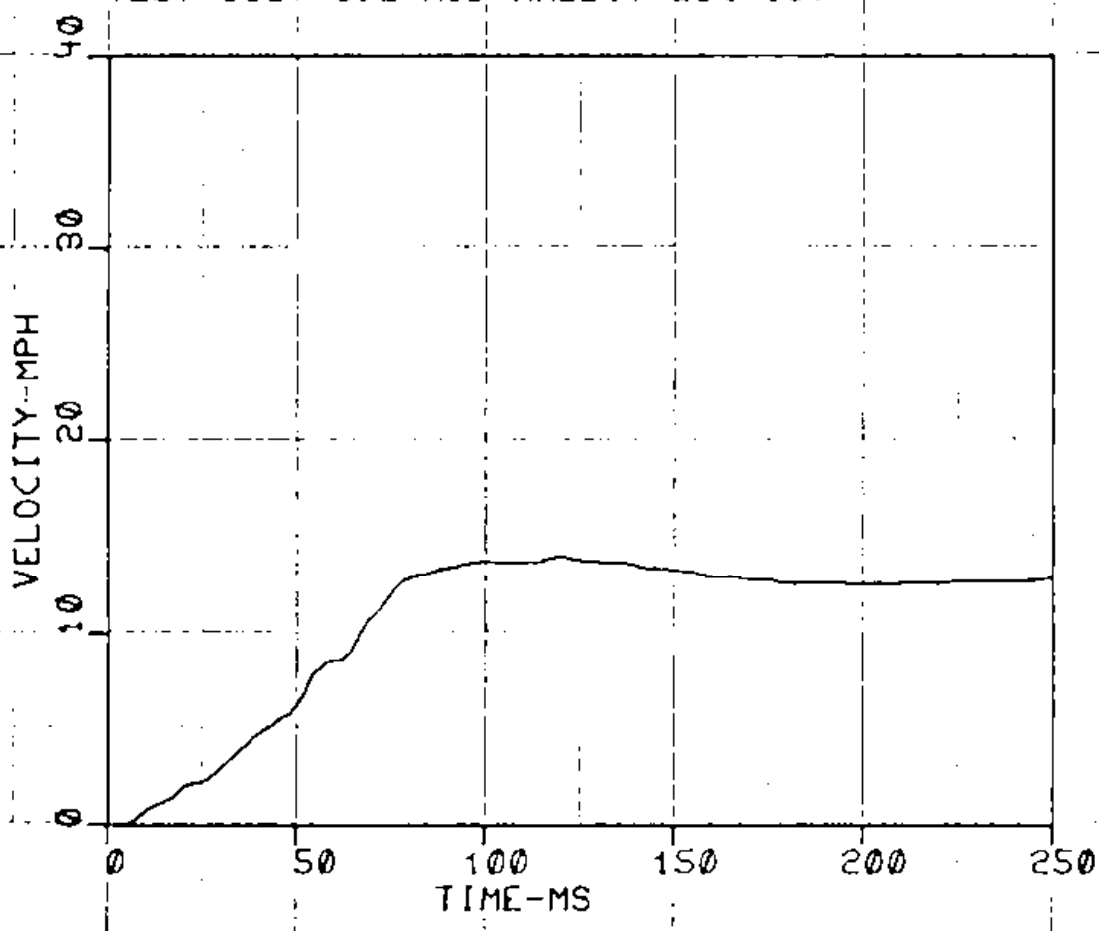
TEST#8327-6.2 MOD RABBIT LOC 15X



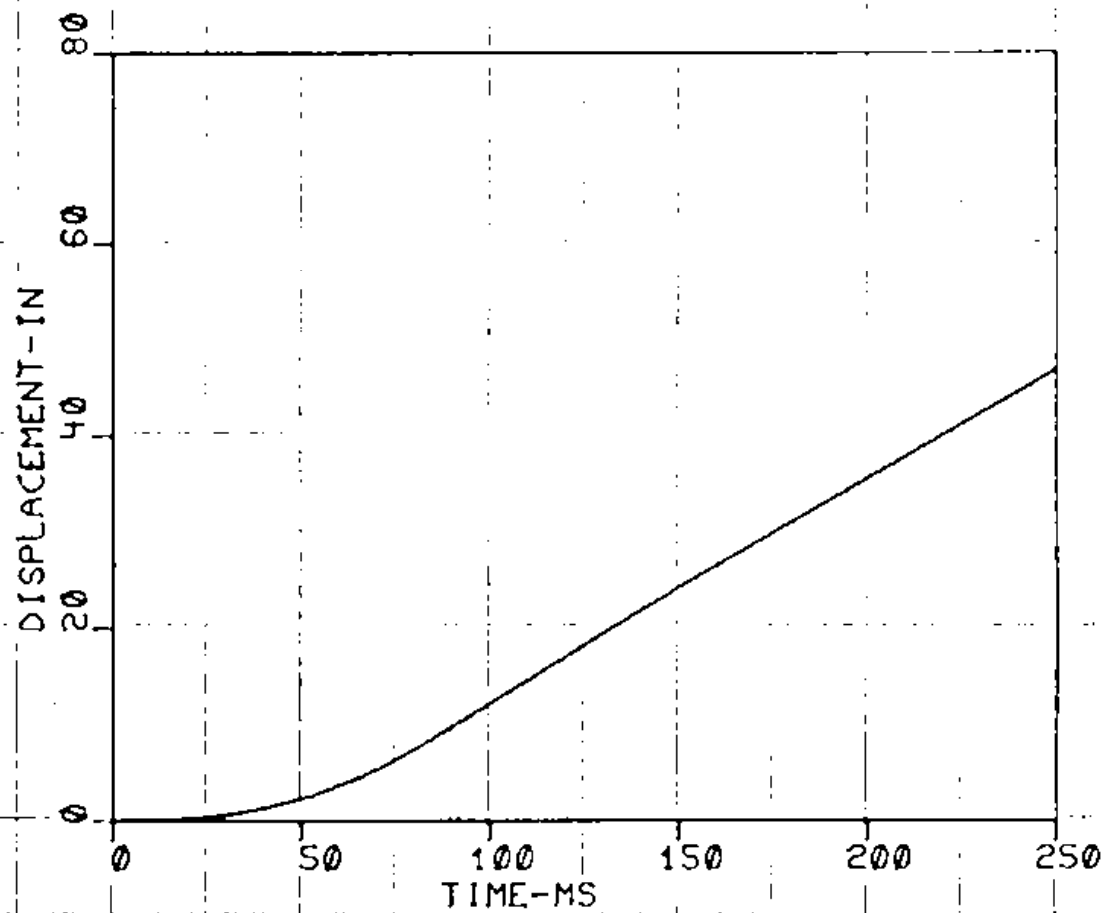
TEST#8327-6.2 VW MODRAB LOC 15Y



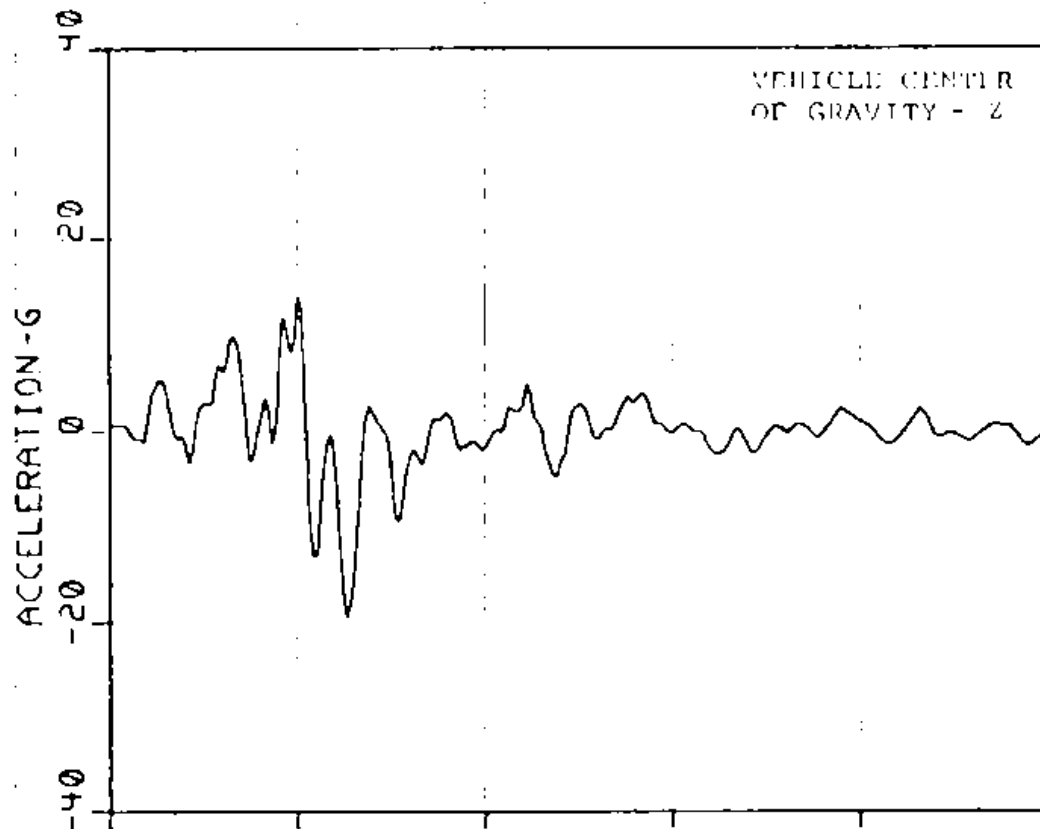
TEST#8327-6.2 MOD RABBIT LOC 15Y



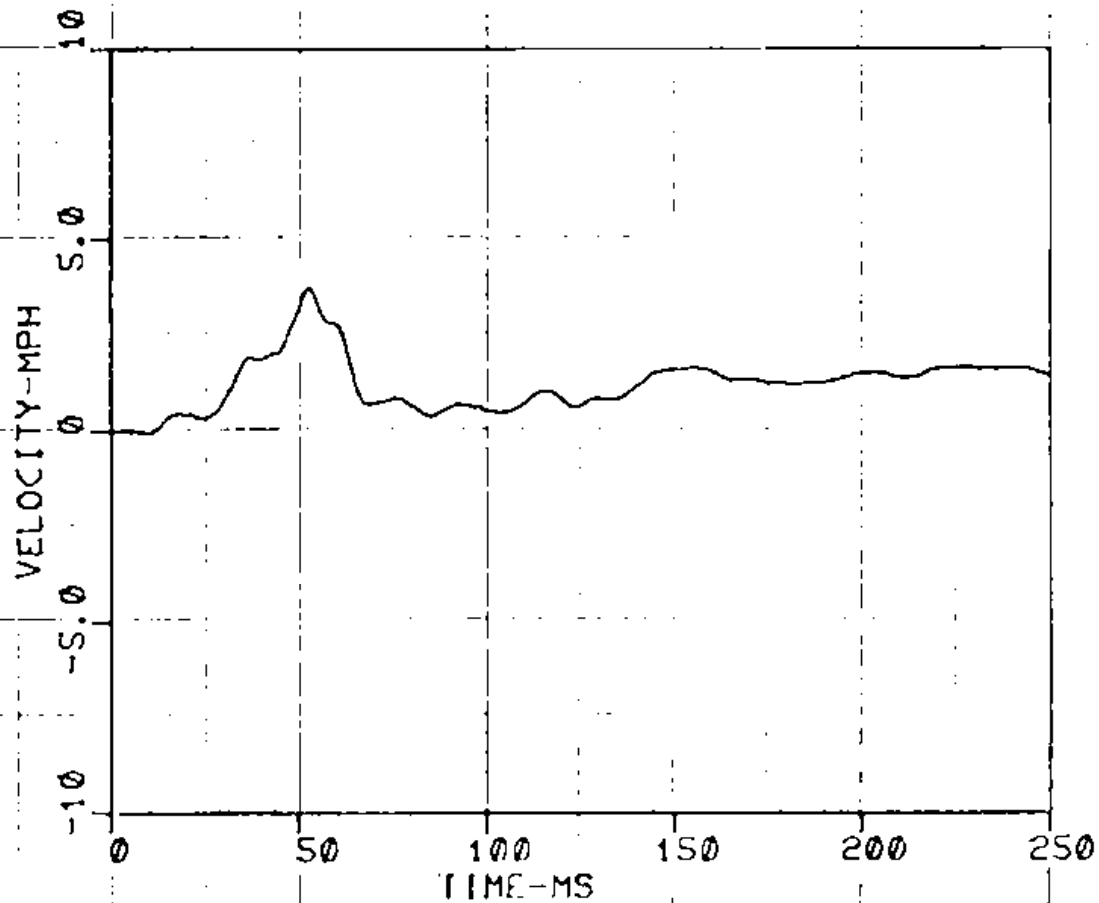
TEST#8327-6.2 MOD RABBIT LOC 15Y



TEST#8327-6.2 VW MODRAB LOC 15Z

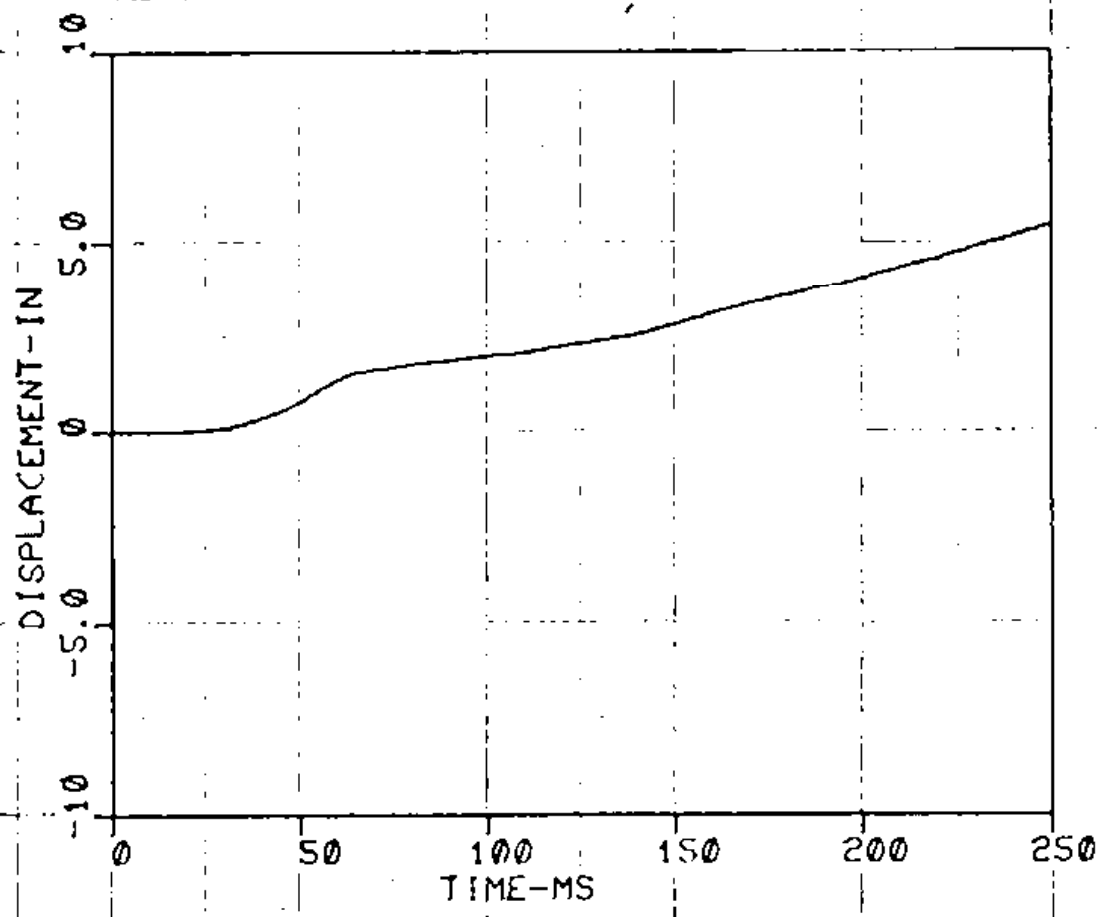


TEST#8327-6.2 MOD RABBIT LOC 15Z

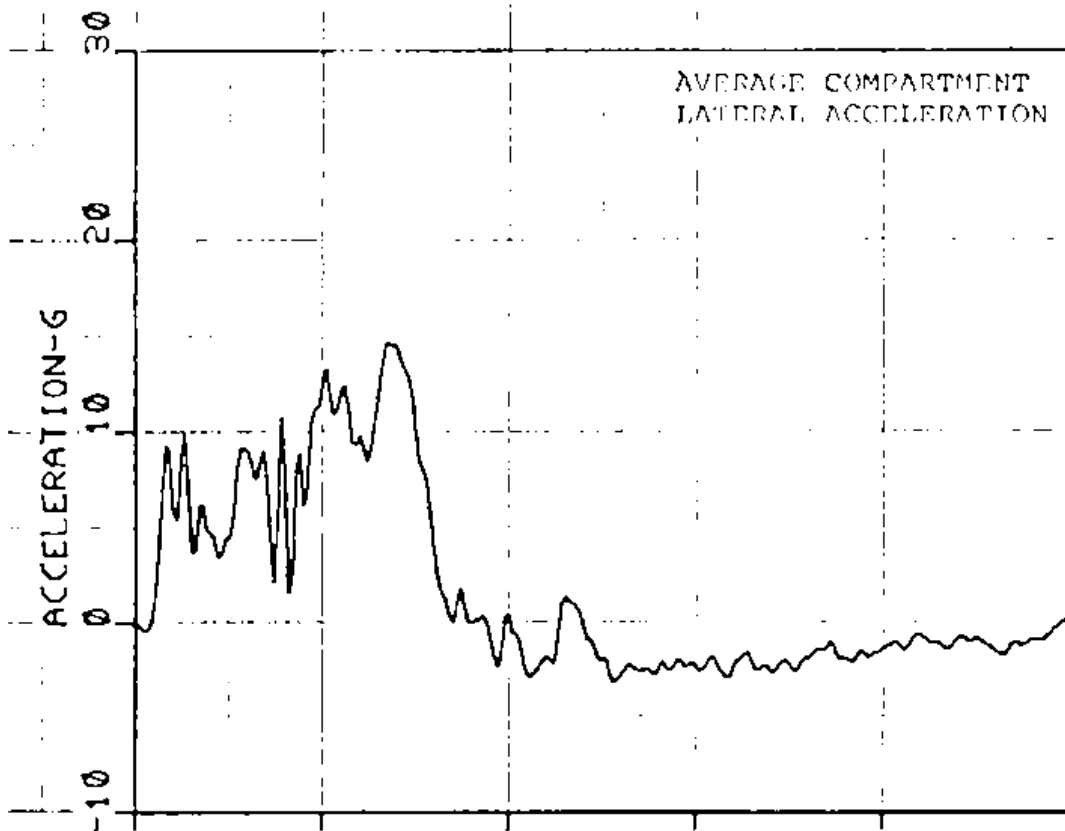


C-60

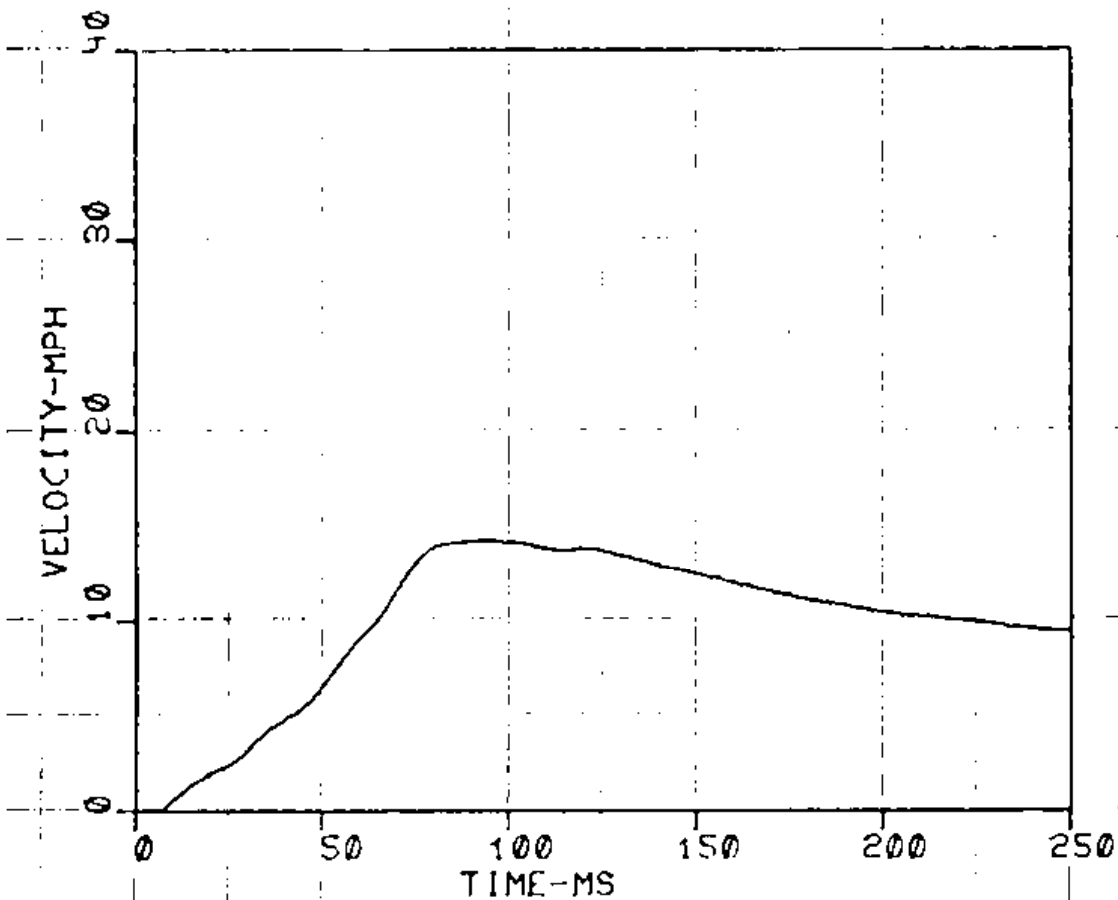
TEST#8327-6.2 MOD RABBIT LOC 1SZ



TEST#8327-6.2 MOD RABBIT AVG.LOC.1&2Y

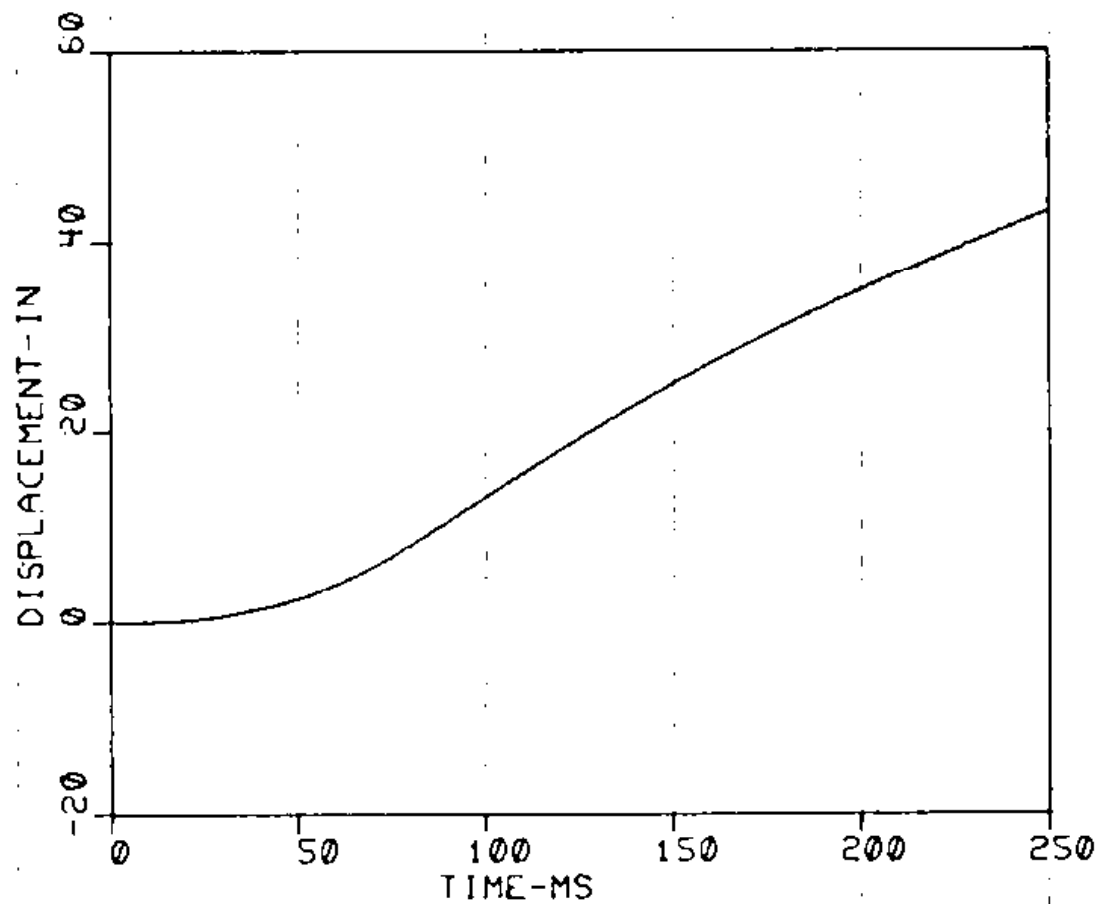


TEST#8327-6.2 MOD RABBIT AVG.LOC.1&2Y



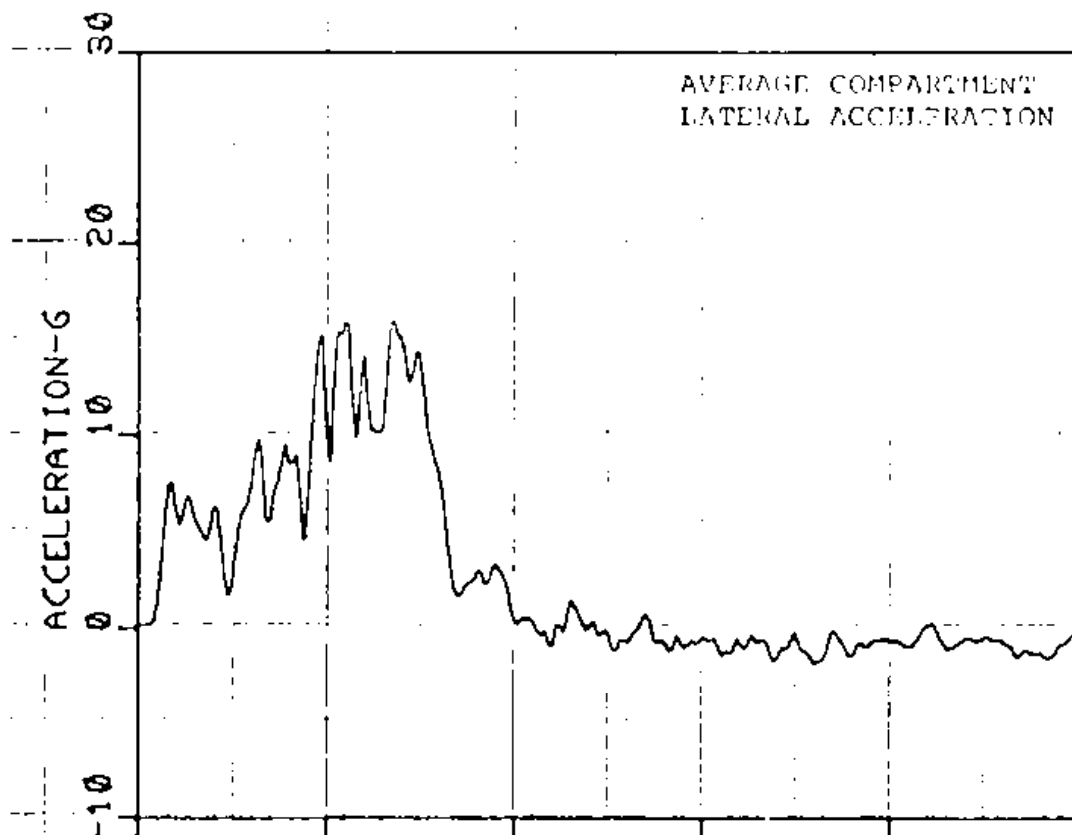
C-62

TEST#8327-6.2 VW MODRAB AVG. LOC. 162Y

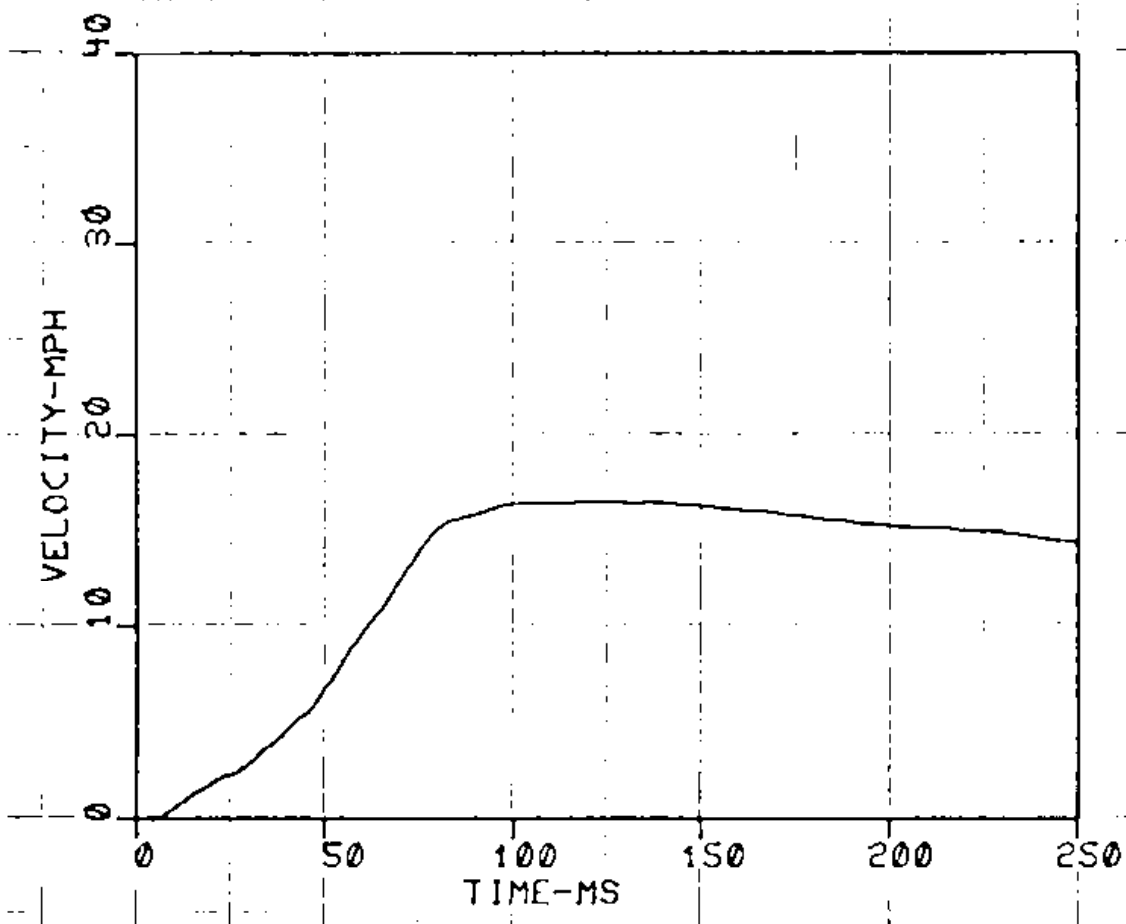


C-63

TEST#8327-G.2 MOD RABBIT AVG.LOC.364Y

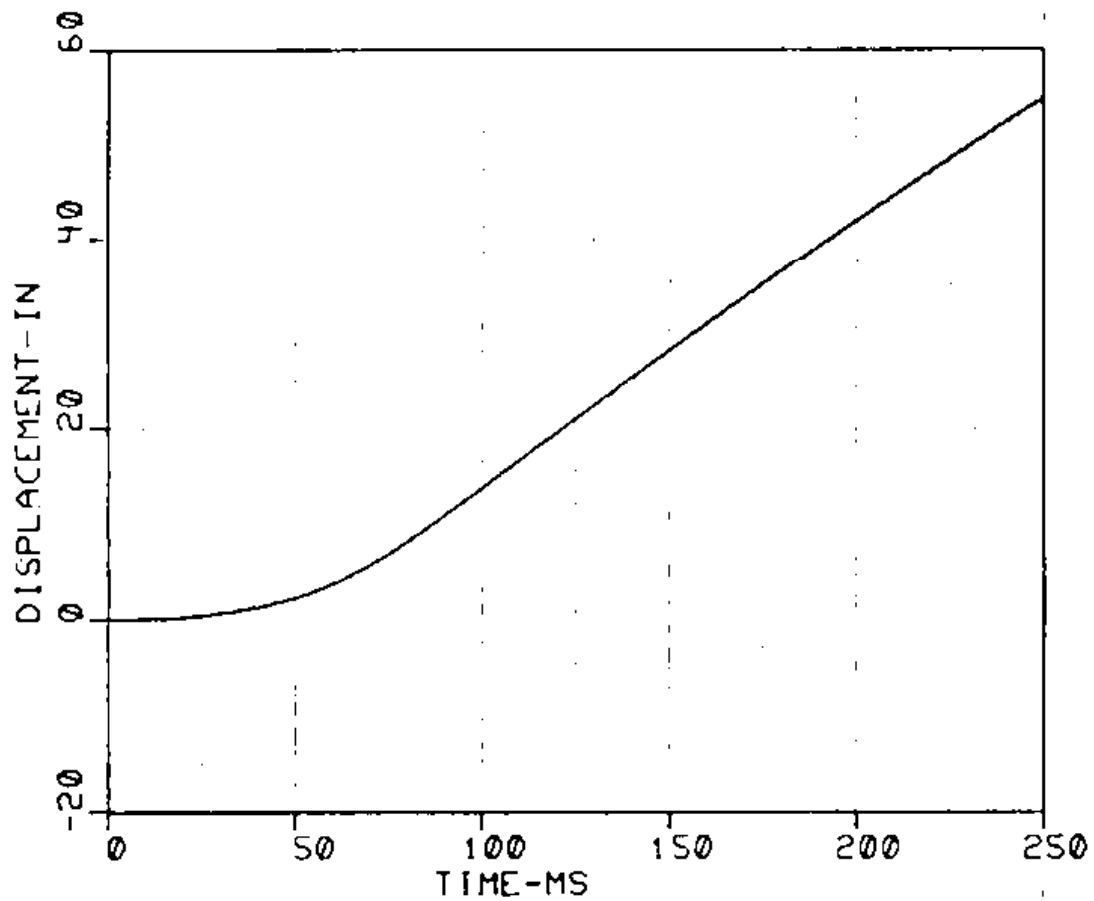


TEST#8327-G.2 MOD RABBIT AVG.LOC.364Y

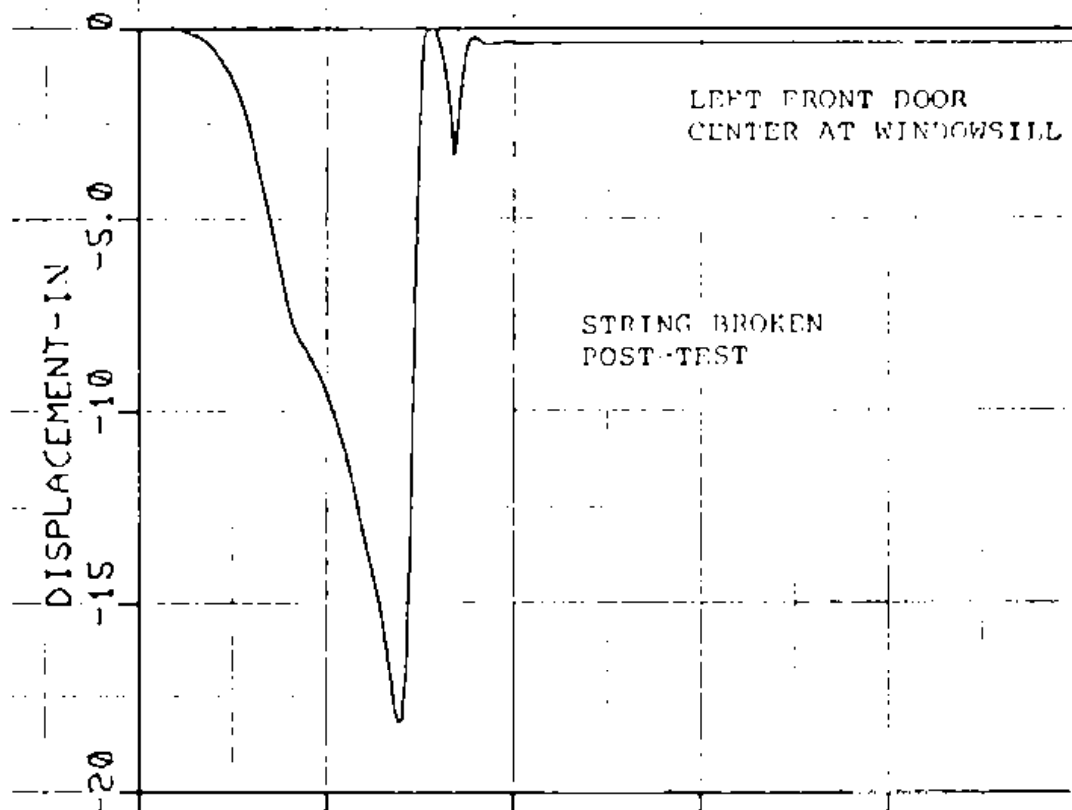


C-64

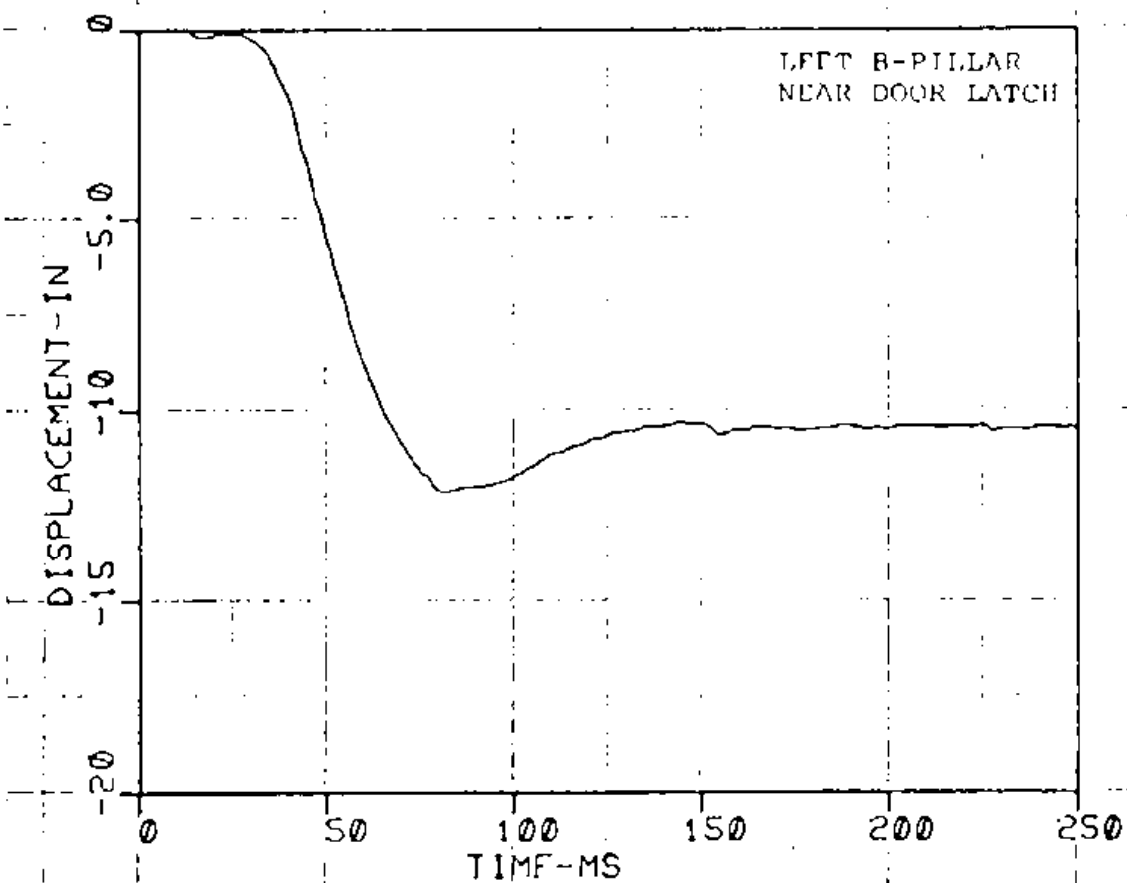
TEST#8327-6.2 VW MODRAB AVG.LOC.3&4Y



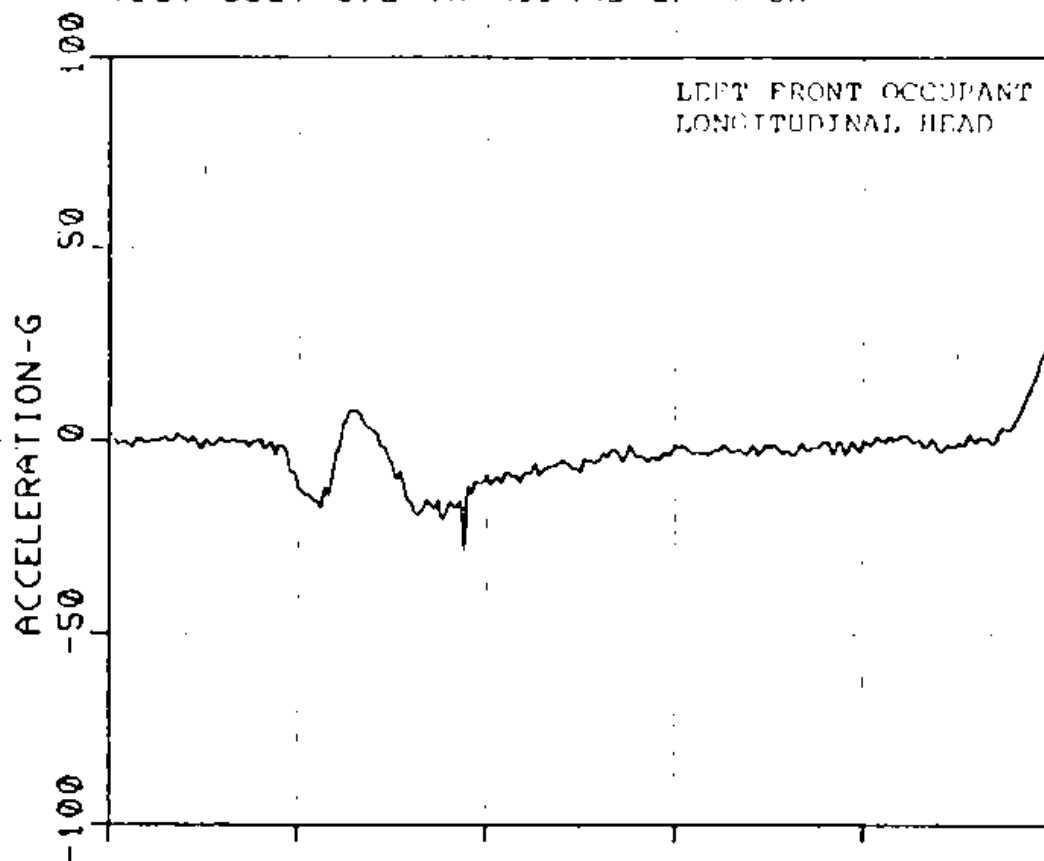
TFST#8327-6.2 MOD RABBIT S.P.#1



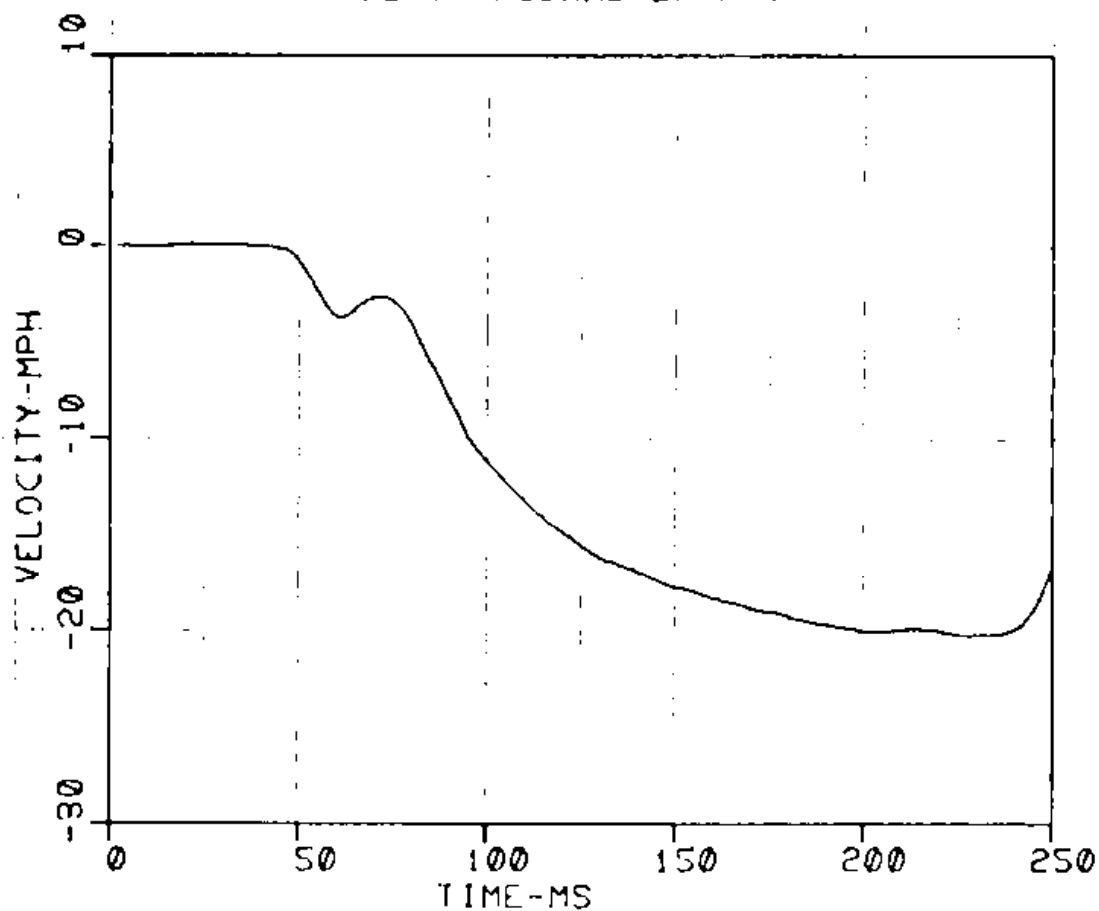
TFST#8327-6.2 MOD RABBIT D.T.#2



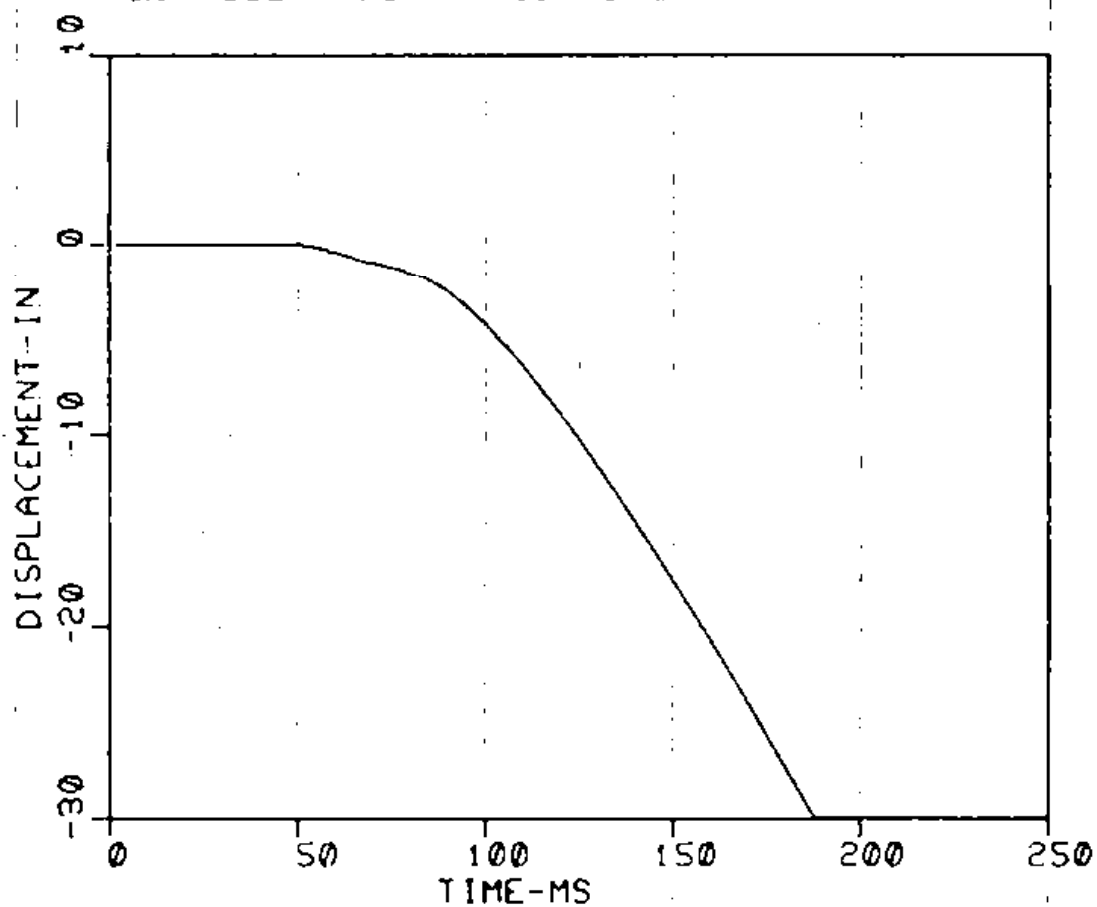
TEST#8327-6.2 VW MODRAB LF HPGX



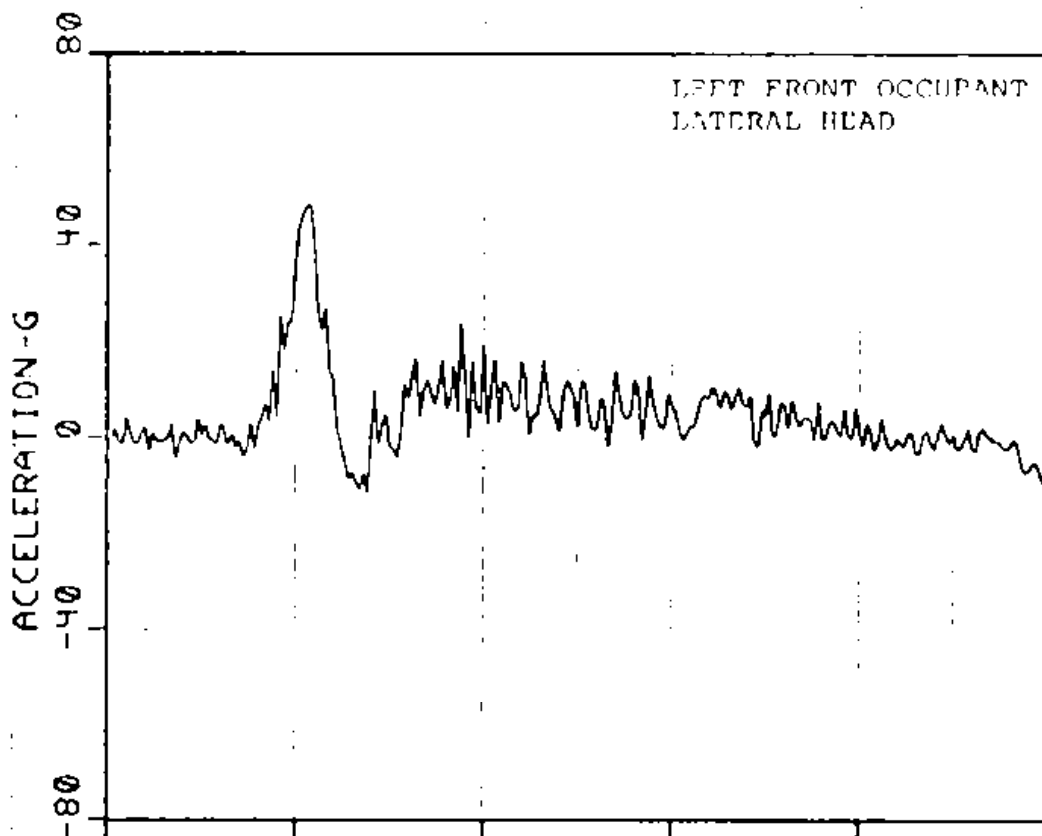
TEST#8327-6.2 VW MODRAB LF HPVX



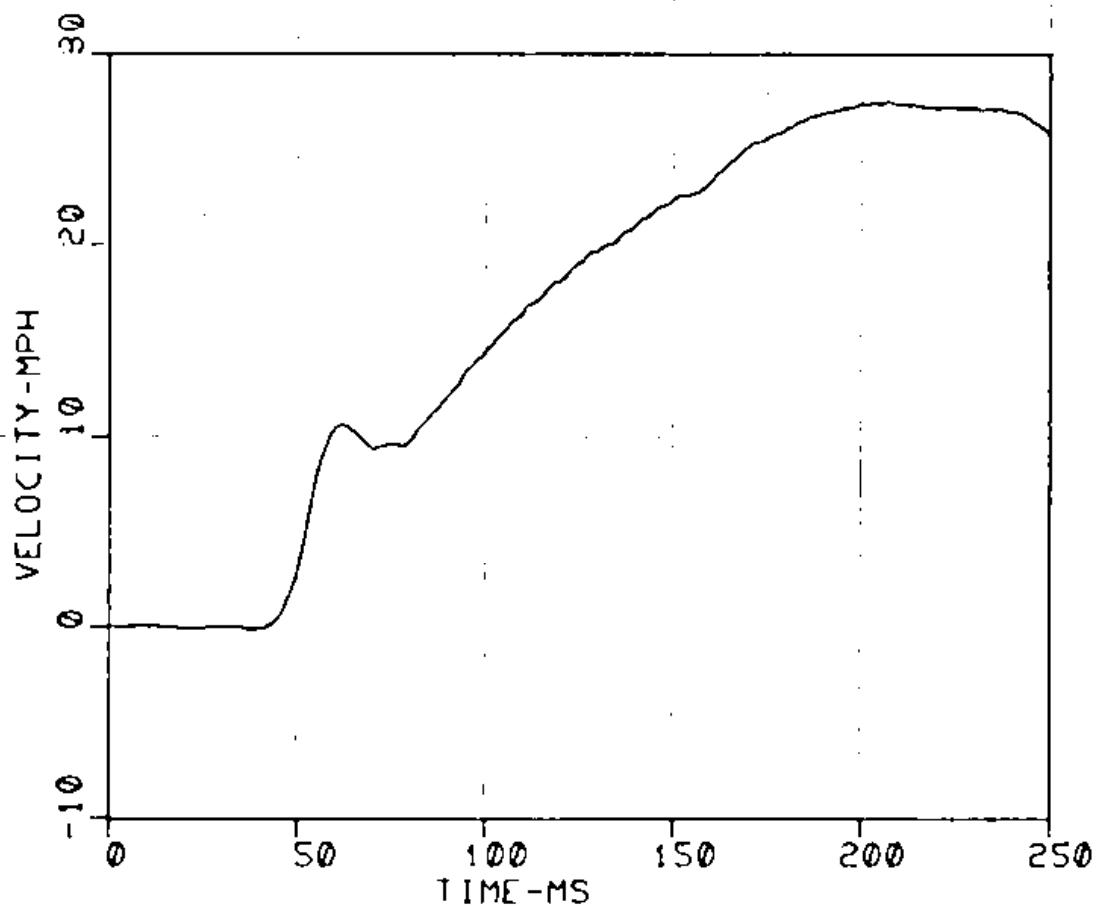
TEST#8327-6.2 VW MODRAB LF HPSX



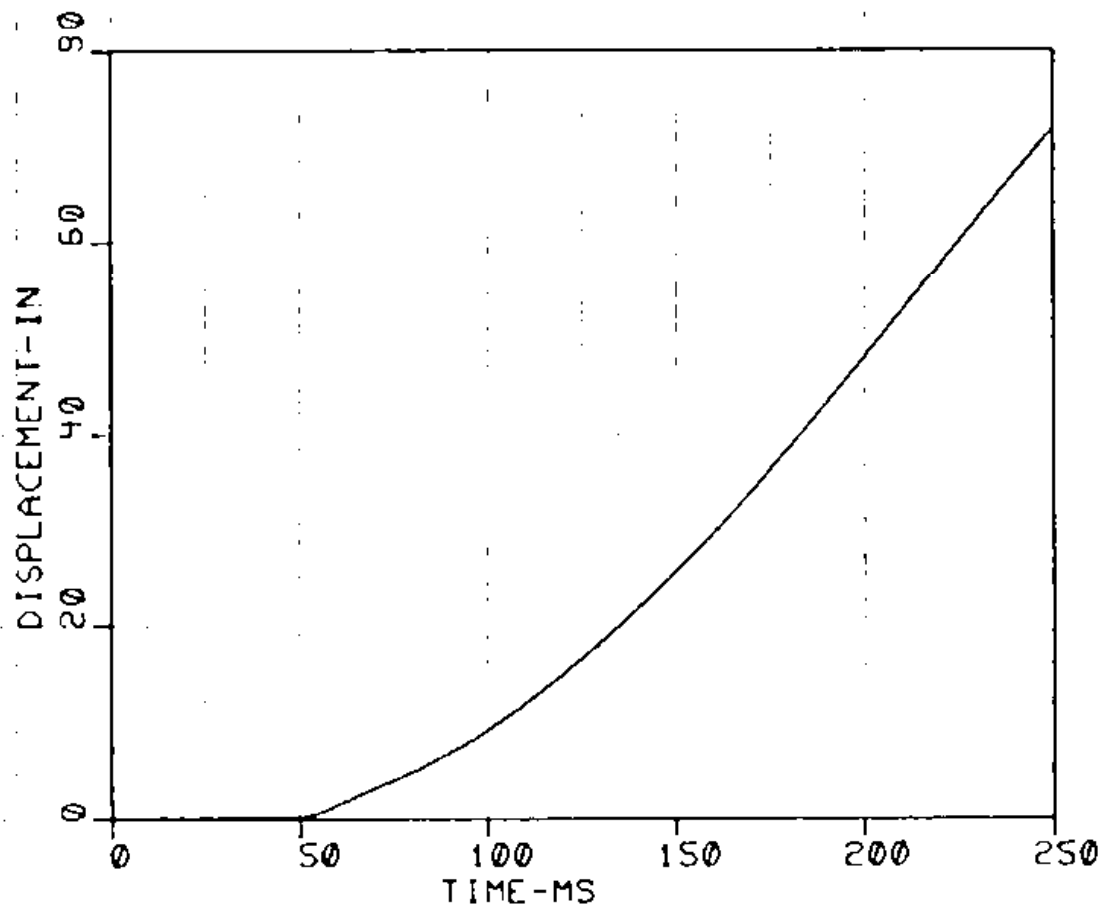
TEST#8327-6.2 VW MODRAB LF HRGY



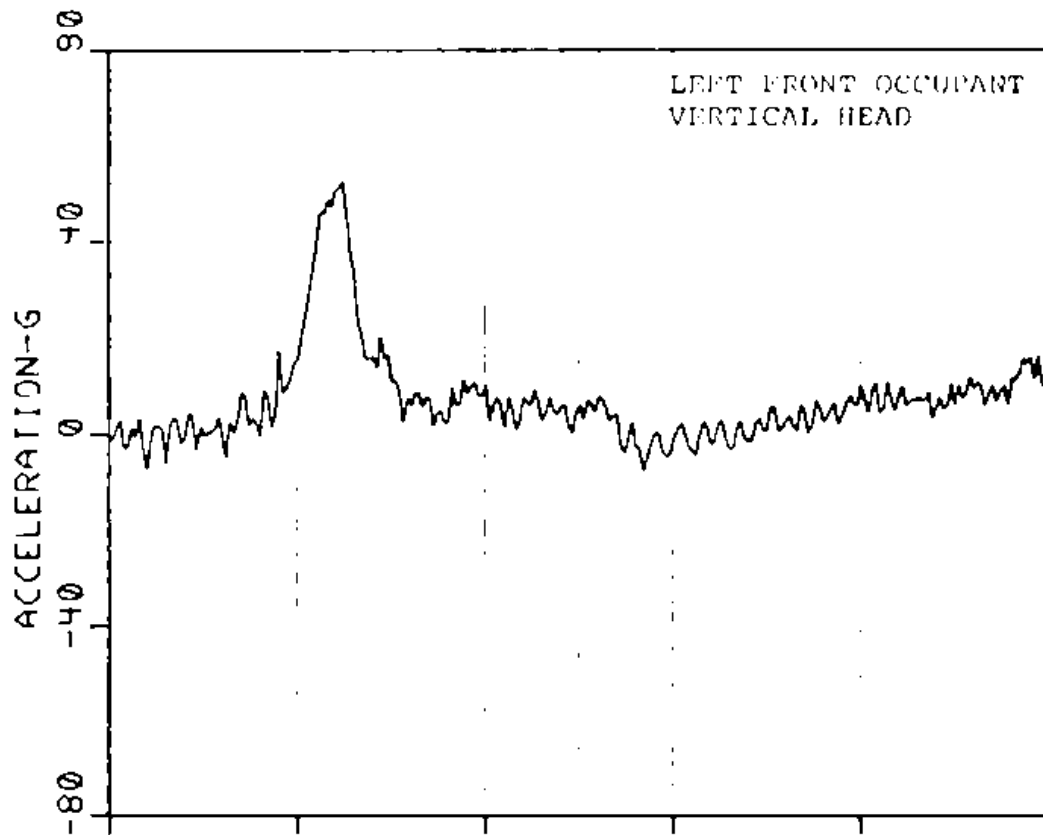
TEST#8327-6.2 VW MODRAB LF HRVY



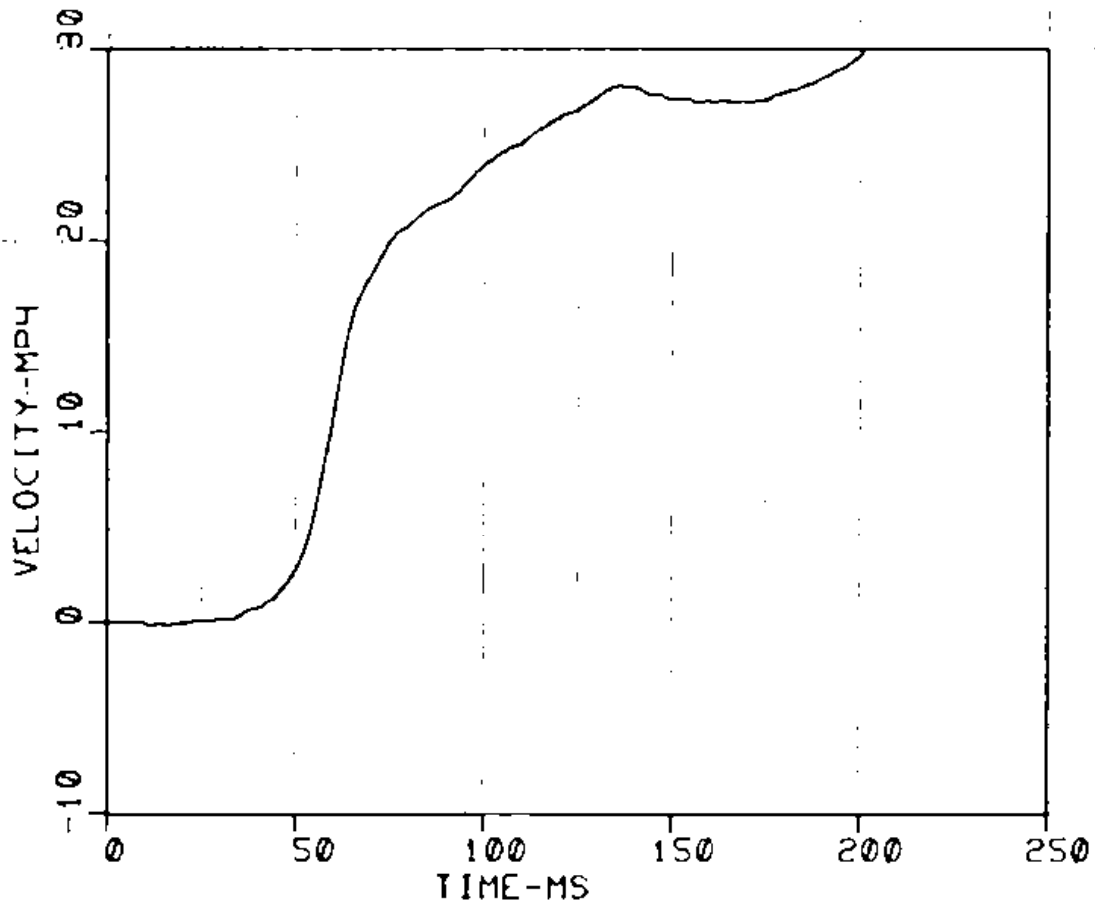
TEST#8327-6.2 VW MODRAB LF HRSY



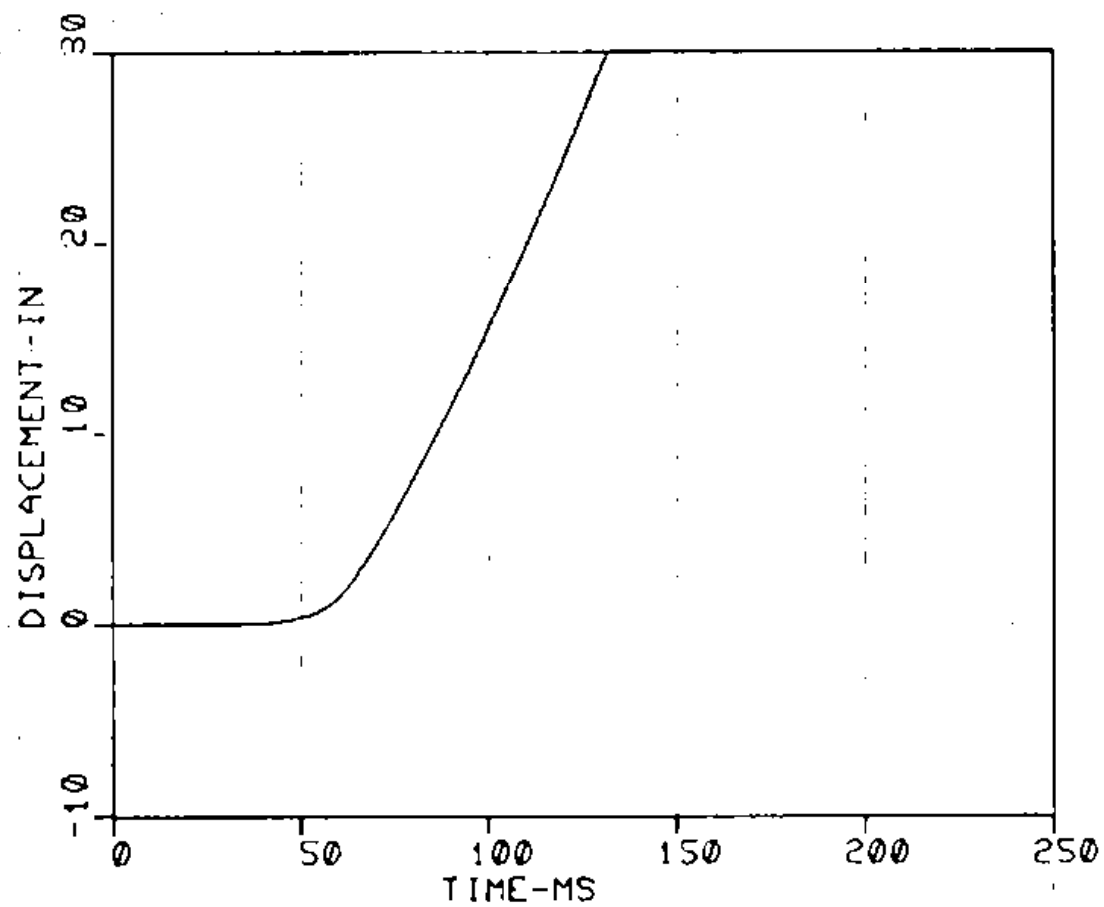
TEST#9327-6.2 VW MODRAB LF HIGZ



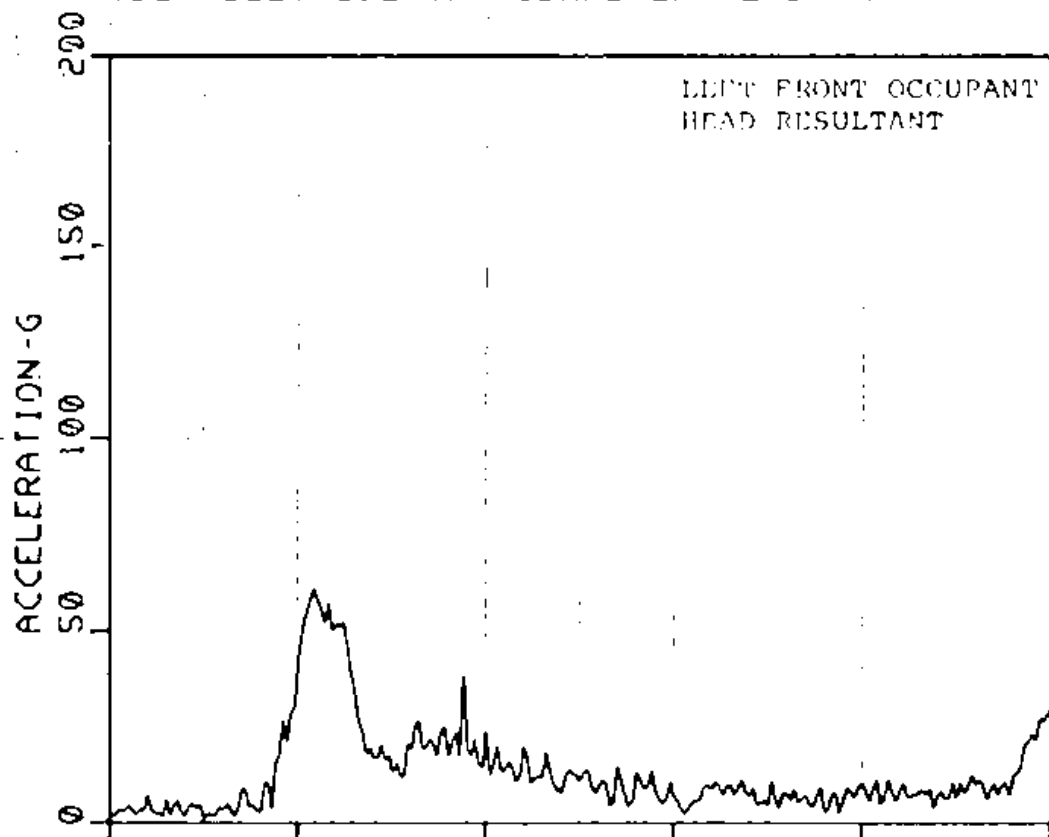
TEST#9327-6.2 VW MODRAB LF H1VZ



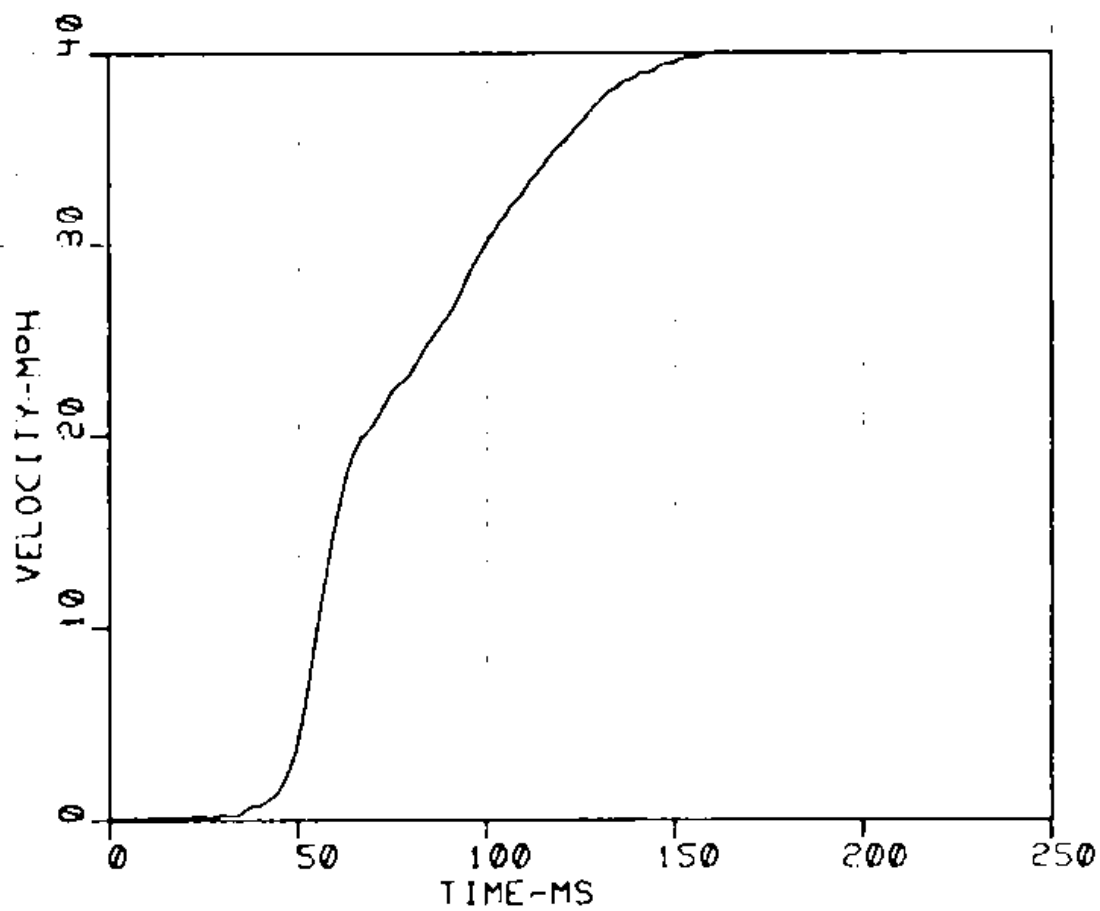
TEST#8327-6.2 VW MODRAB LF HISZ



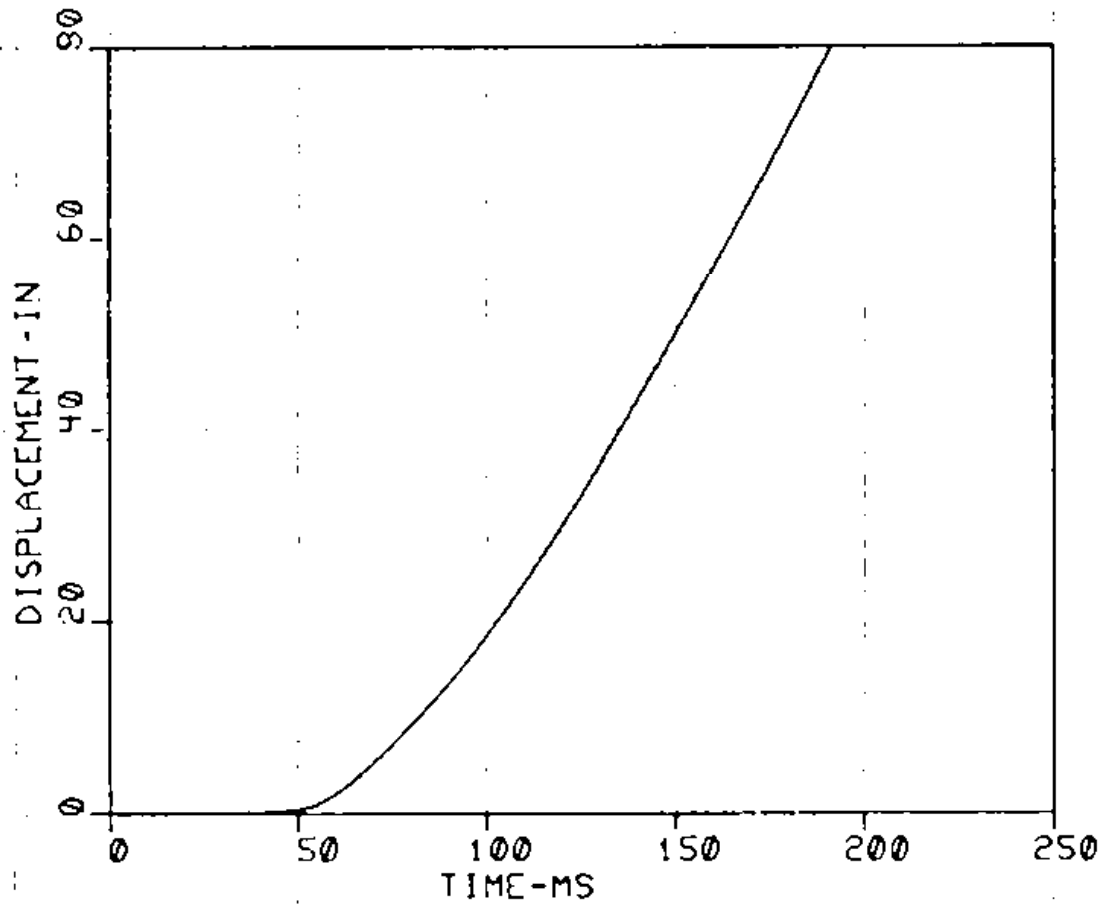
TEST#8327-6.2 VW MODRAB LF HEAD AR



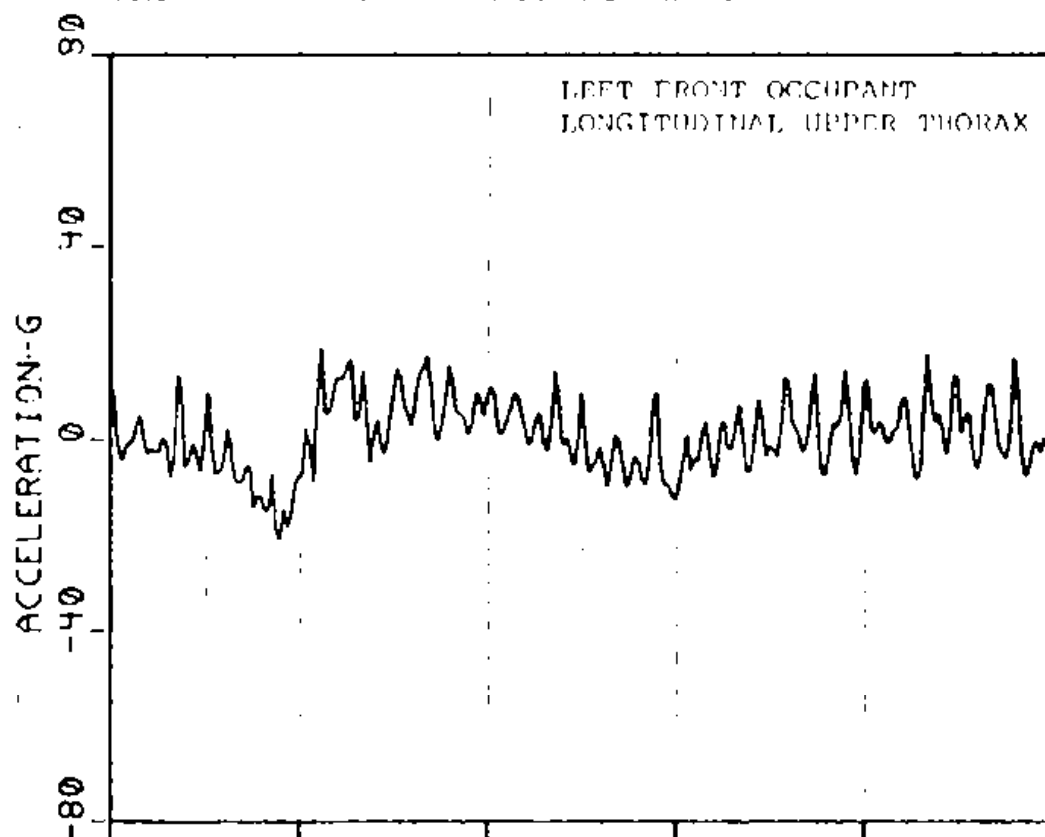
TEST#8327-6.2 VW MODRAB LF HEAD VR



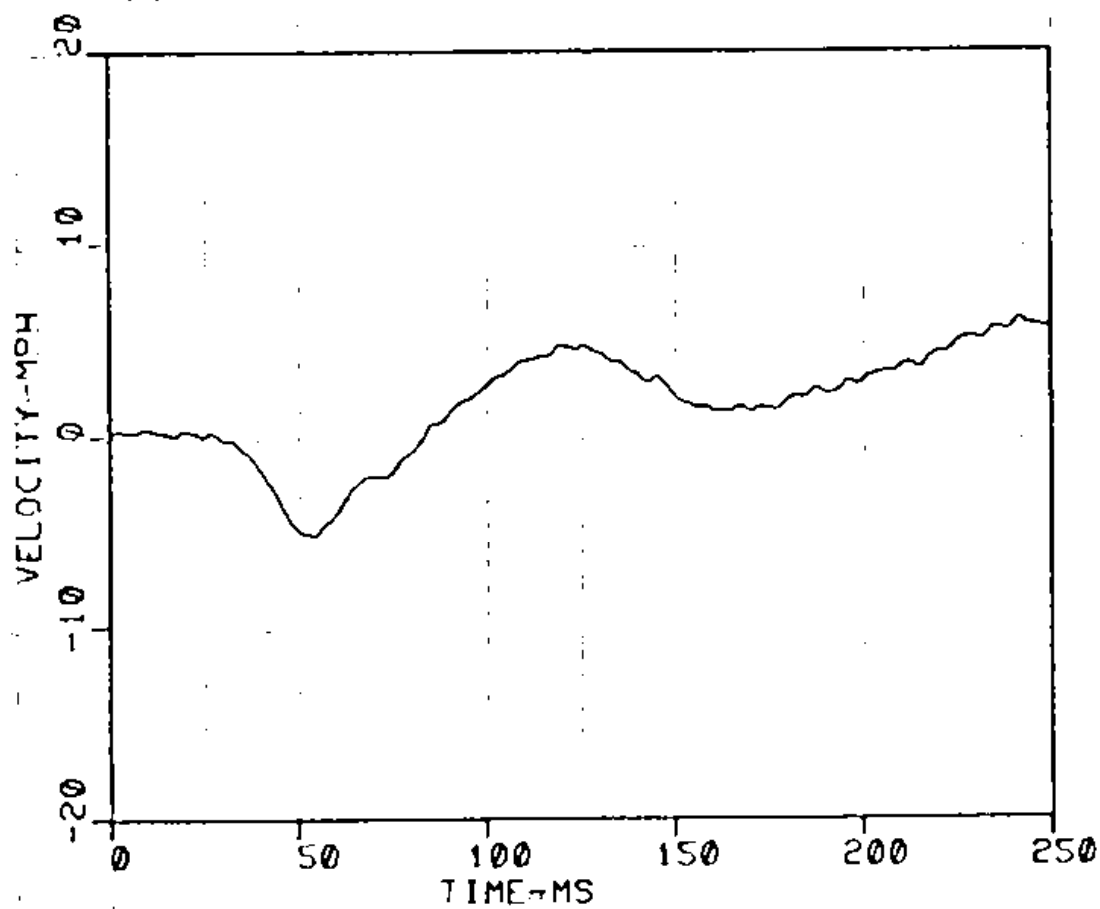
TEST#9327-6.2 VW MODRAB LF HEAD SR



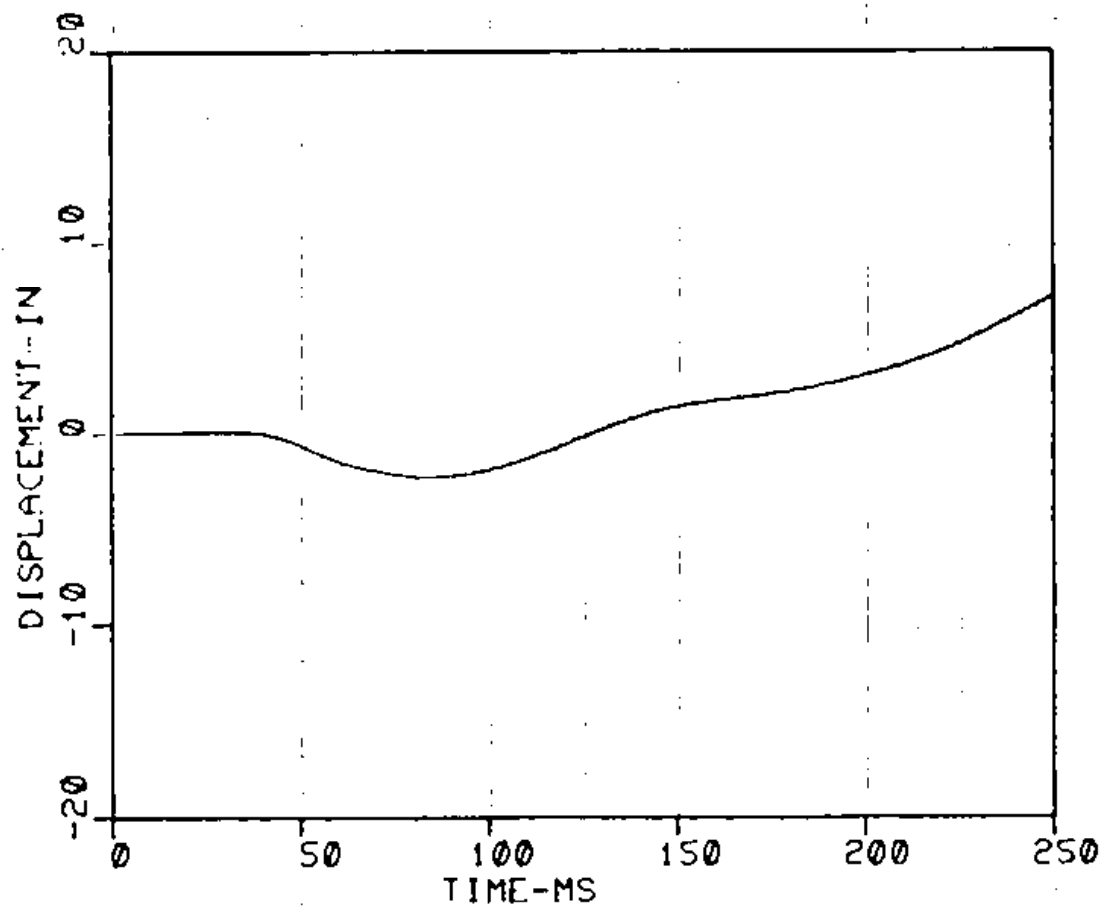
TEST#9327-6.2 VW MODRAB LF 1PGX



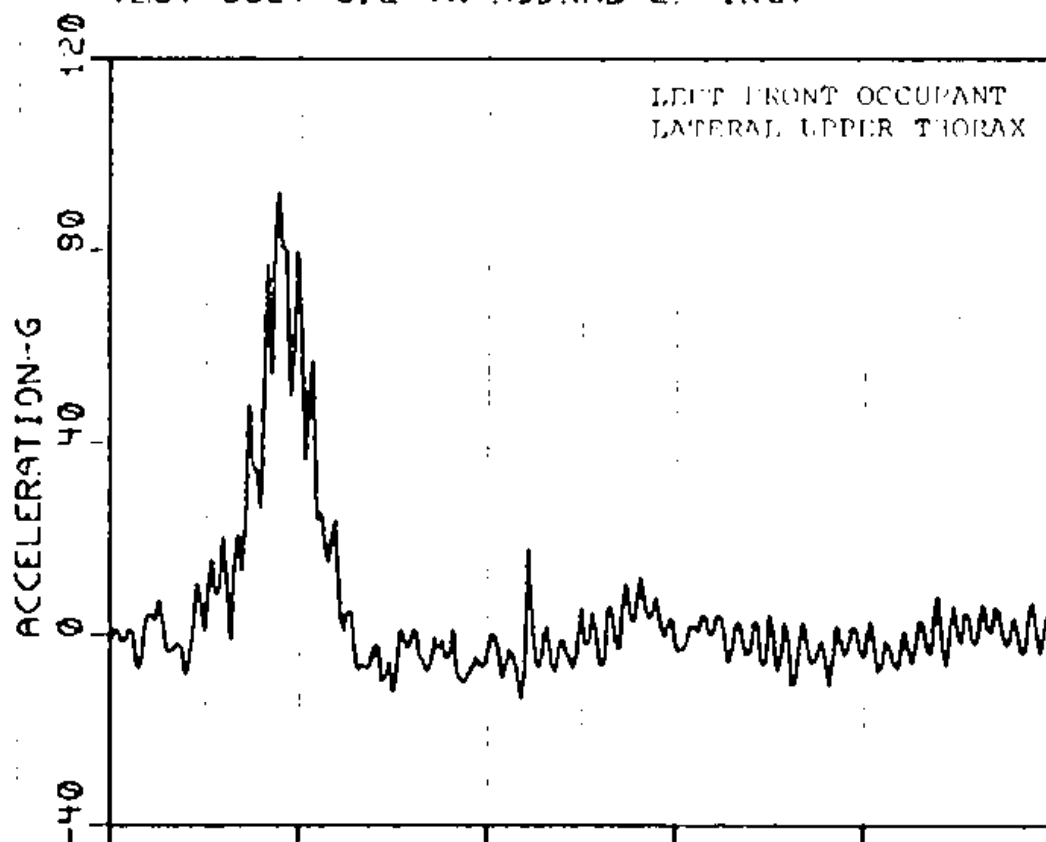
TEST#9327-6.2 VW MODRAB LF 1PVX



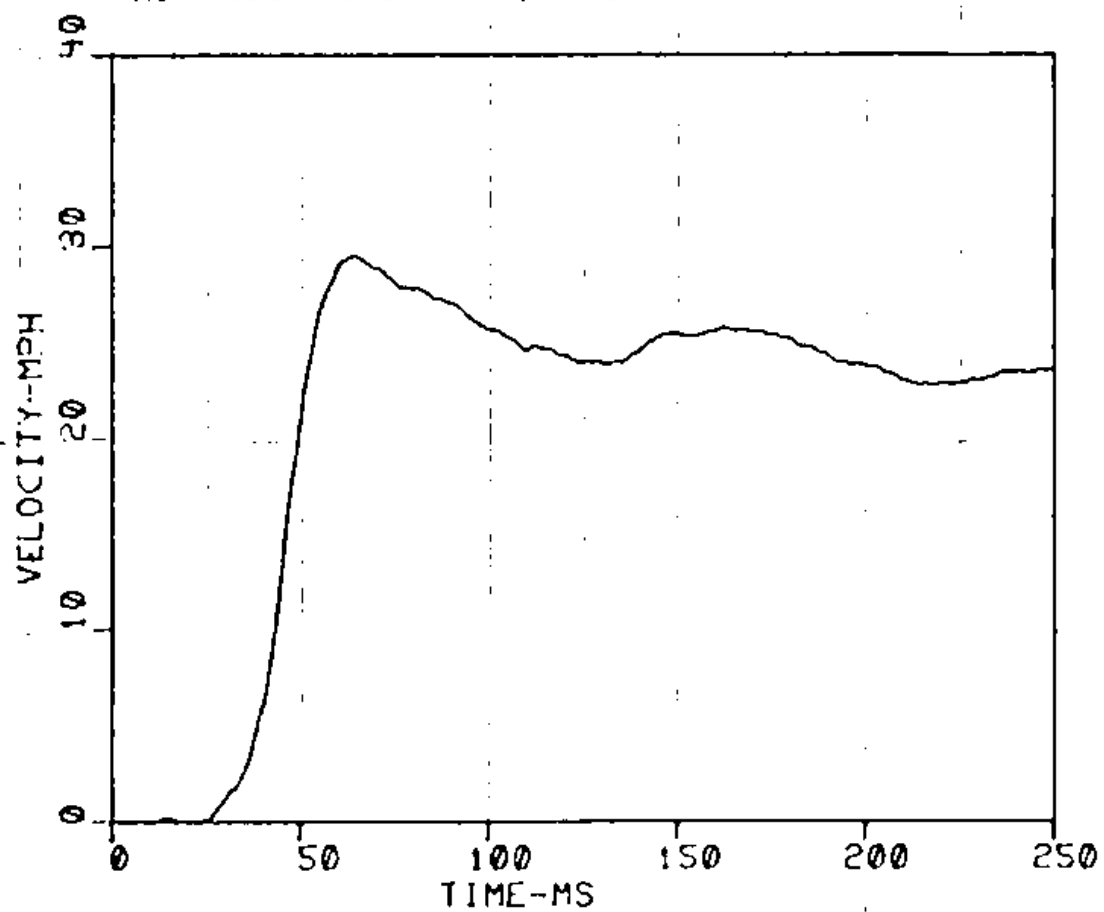
TEST#9327-6.2 VW MODRAB LF 1PSX



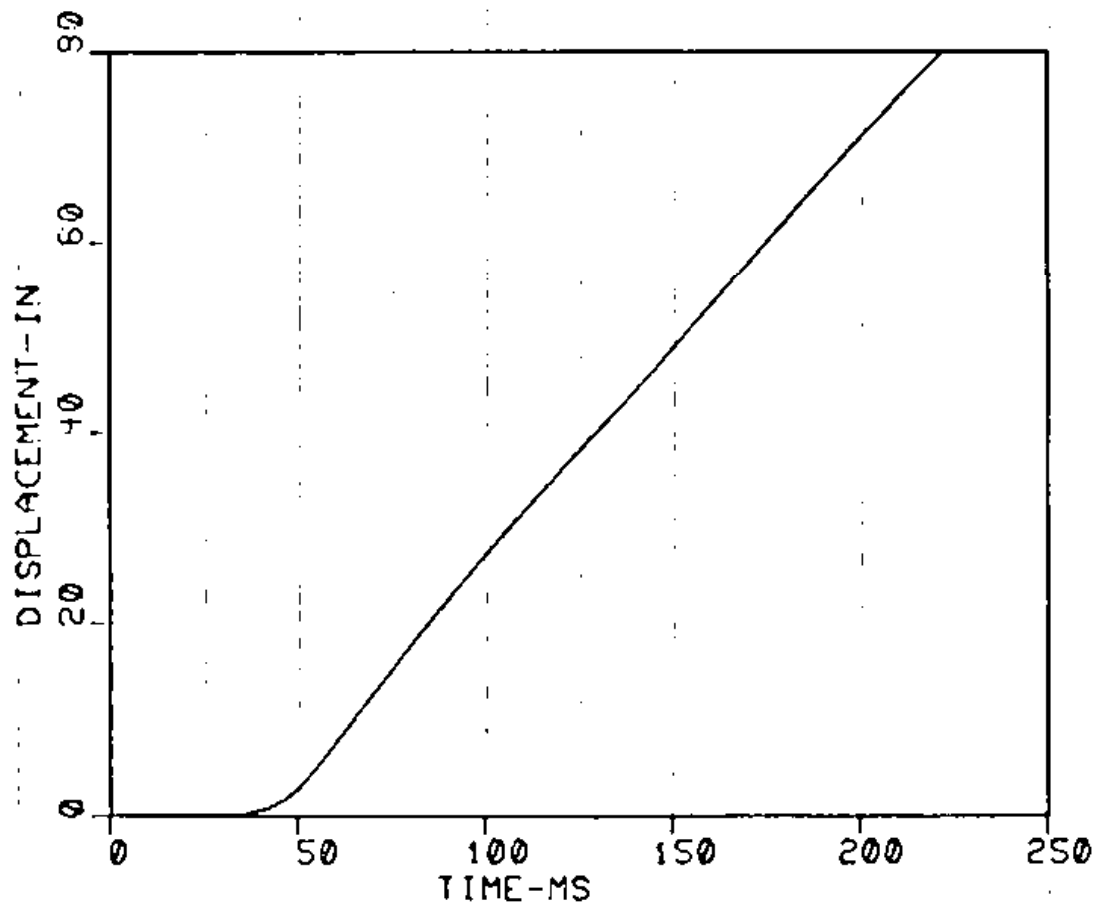
TEST#9327-6.2 VW MODRAB LF 1RGY



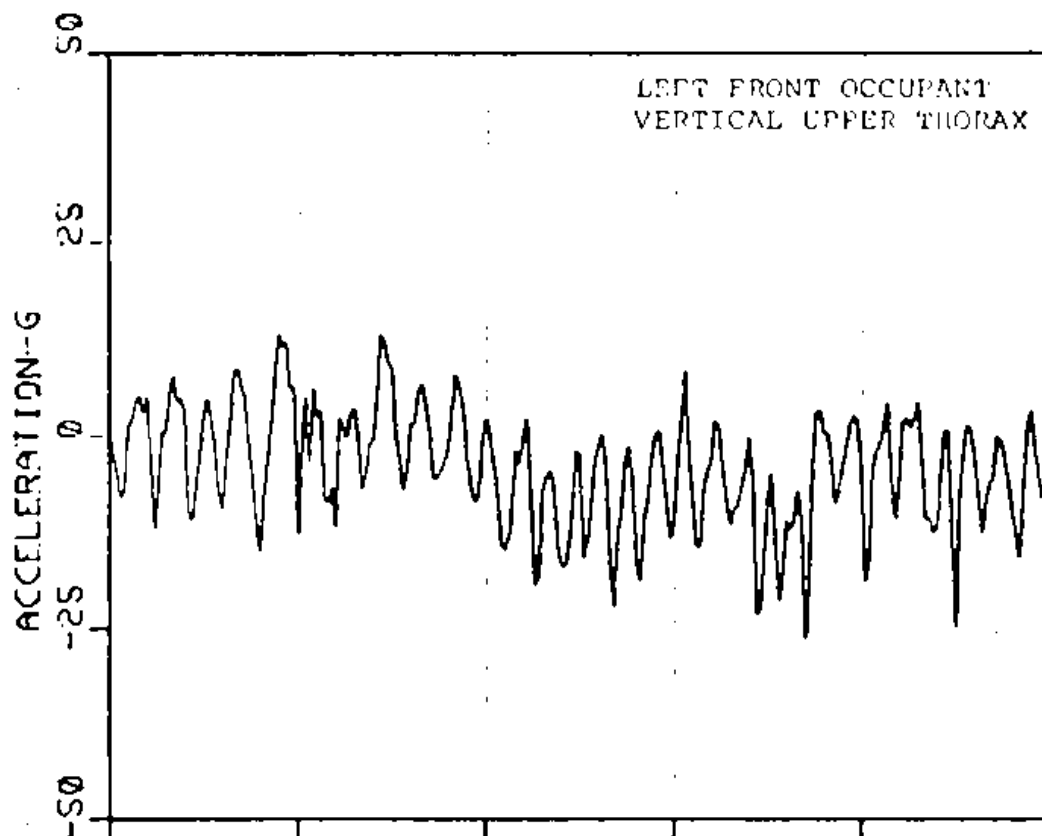
TEST#9327-6.2 VW MODRAB LF 1RVY



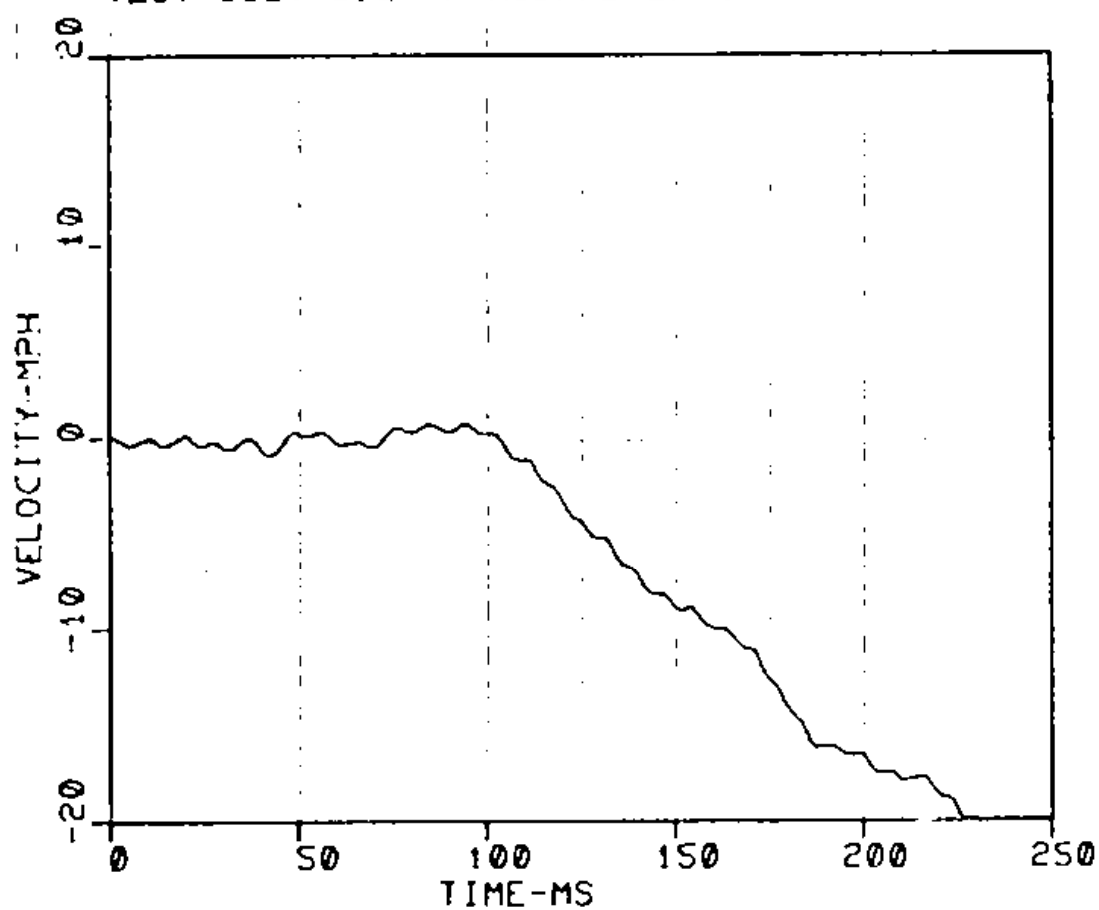
TEST#9327-6.2 VW MODRAB LF 1RSY



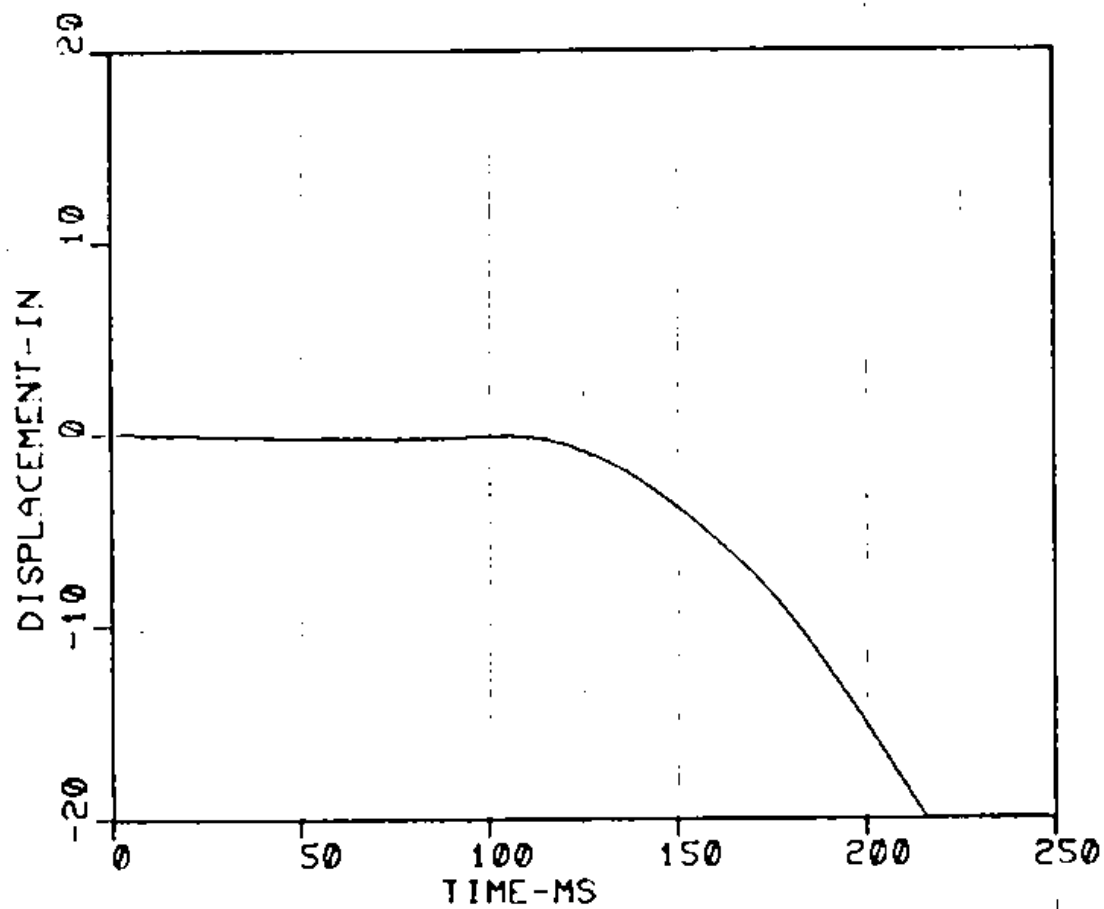
TEST#9327-6.2 VW MODRAB LF 11GZ



TEST#9327-6.2 VW MODRAB LF 11VZ

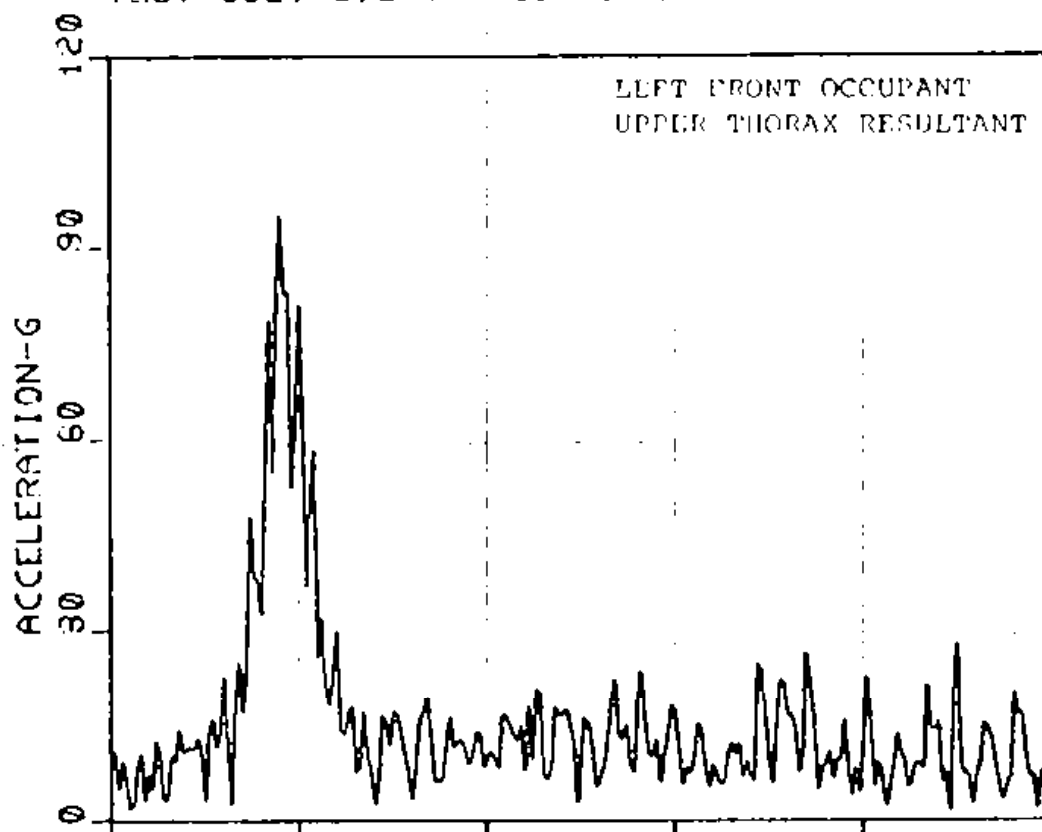


TEST#9327-6.2 VW MODRAB LF 11SZ

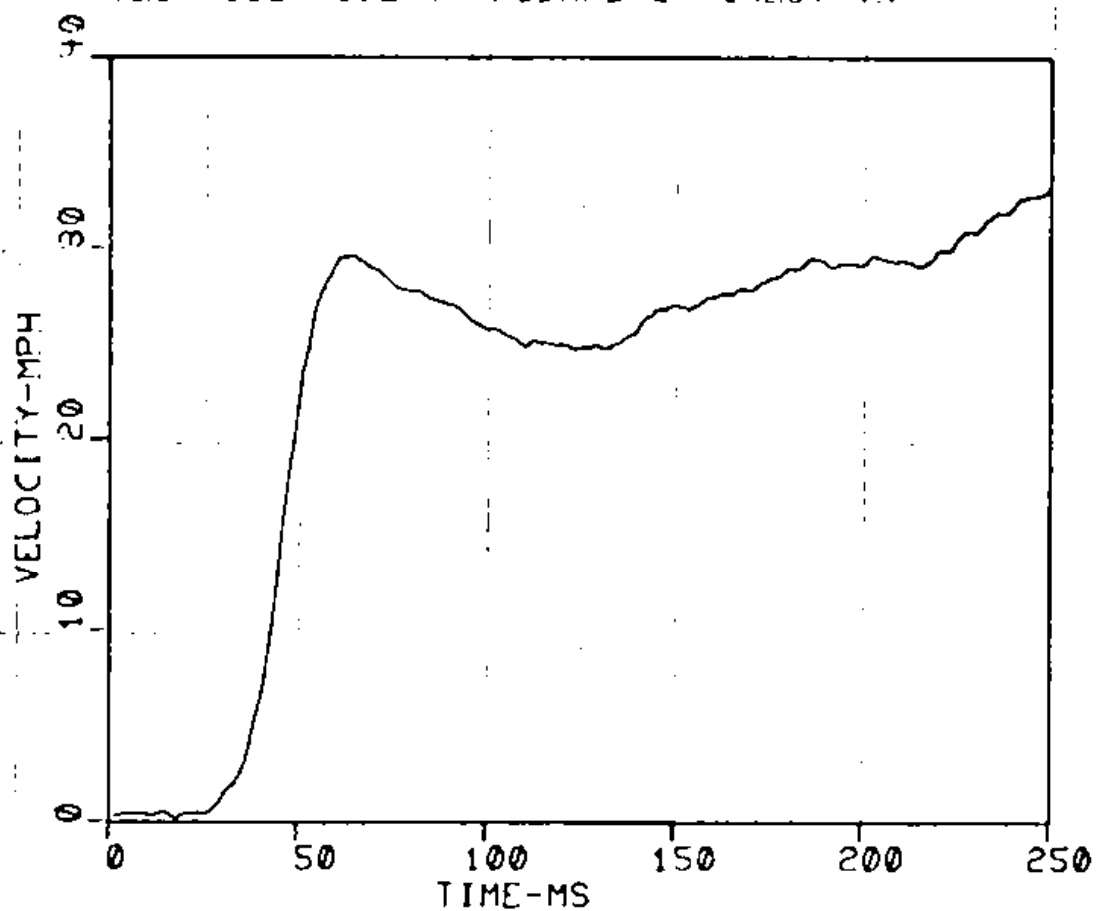


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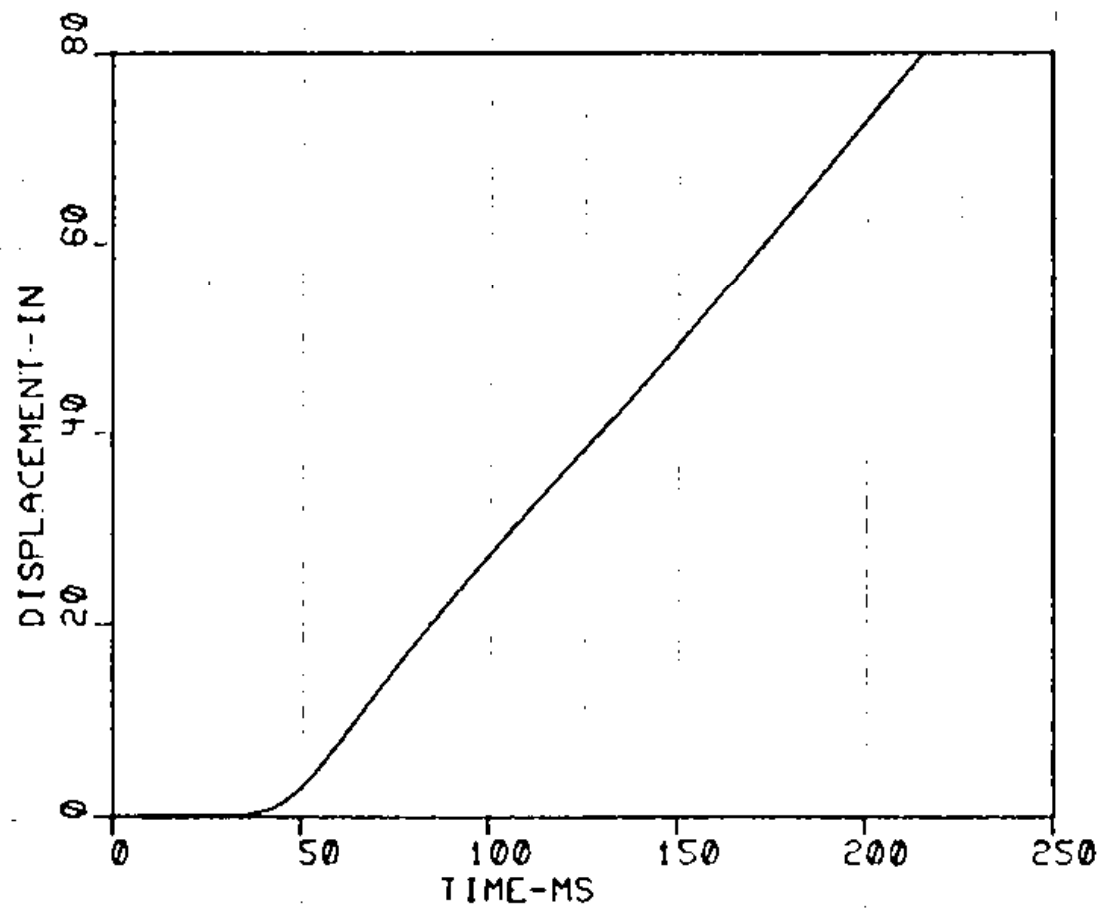
TEST#8327-6.2 VW MODRAB LF CHEST AR



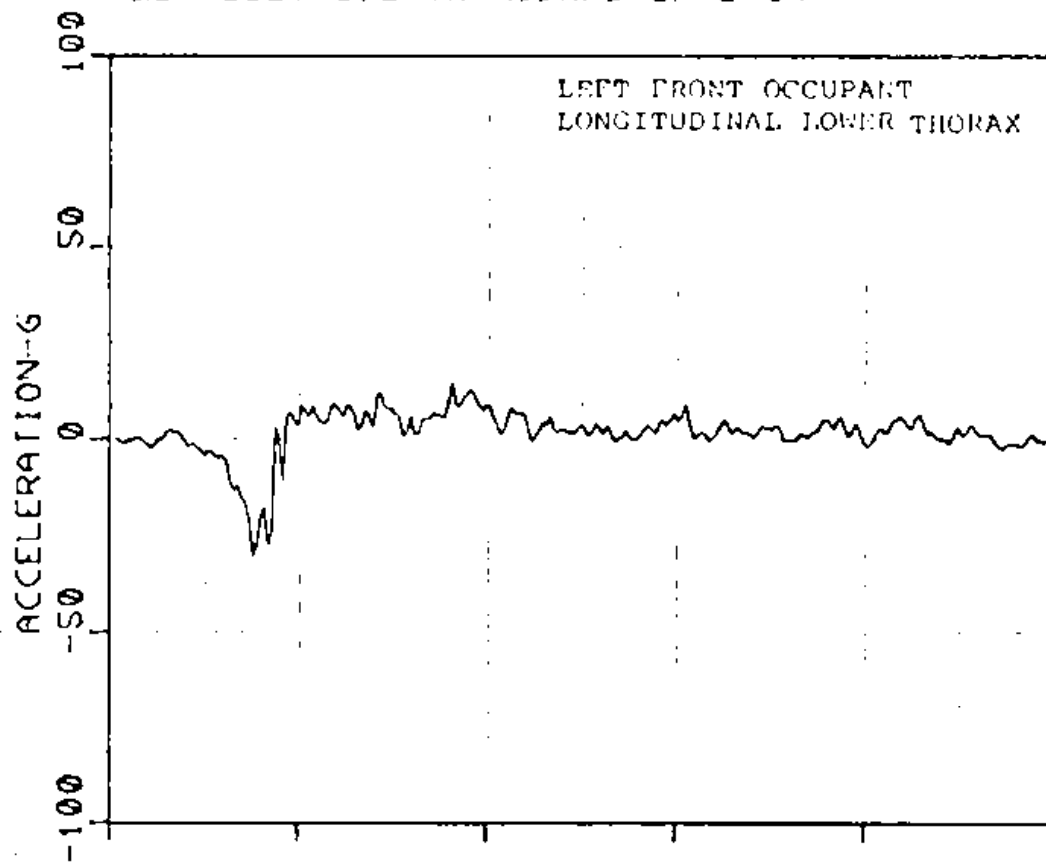
TEST#8327 6.2 VW MODRAB LF CHEST VR



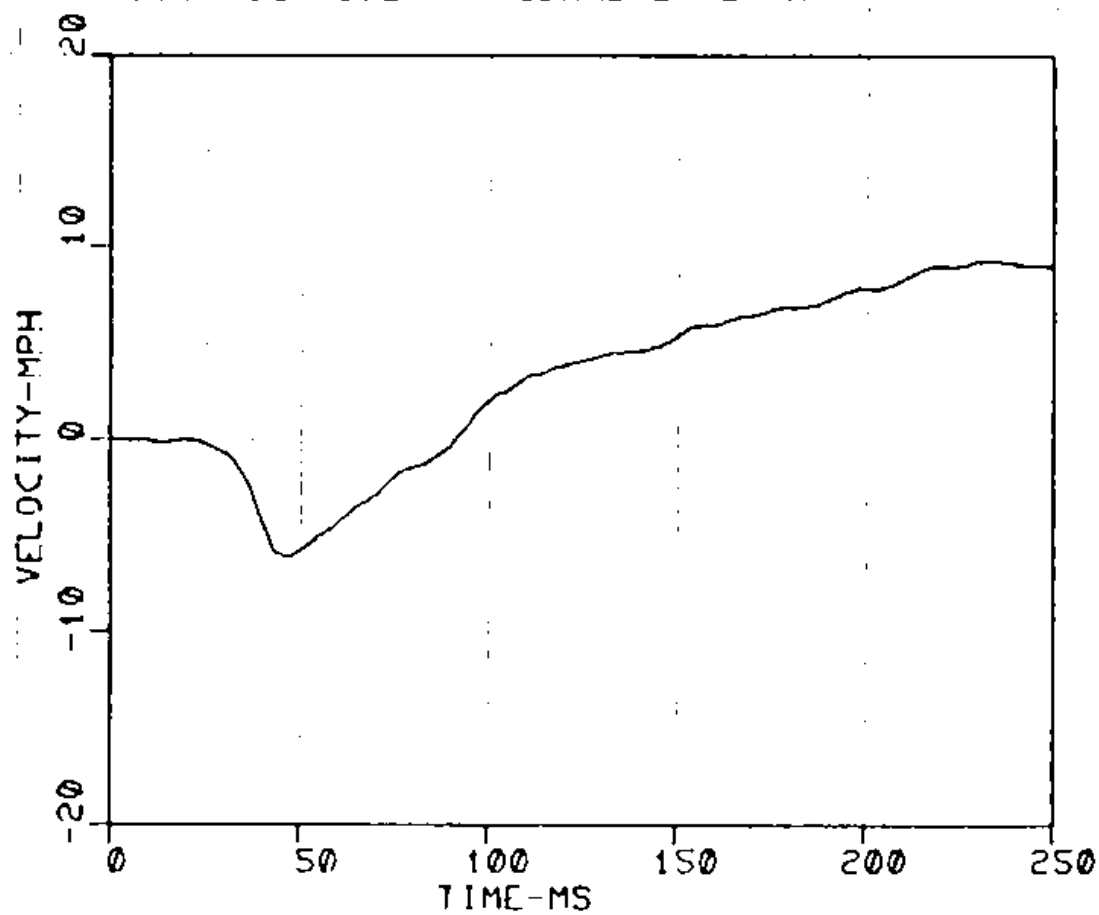
TFST#8327-6.2 VW MODRAB LF CHEST SR



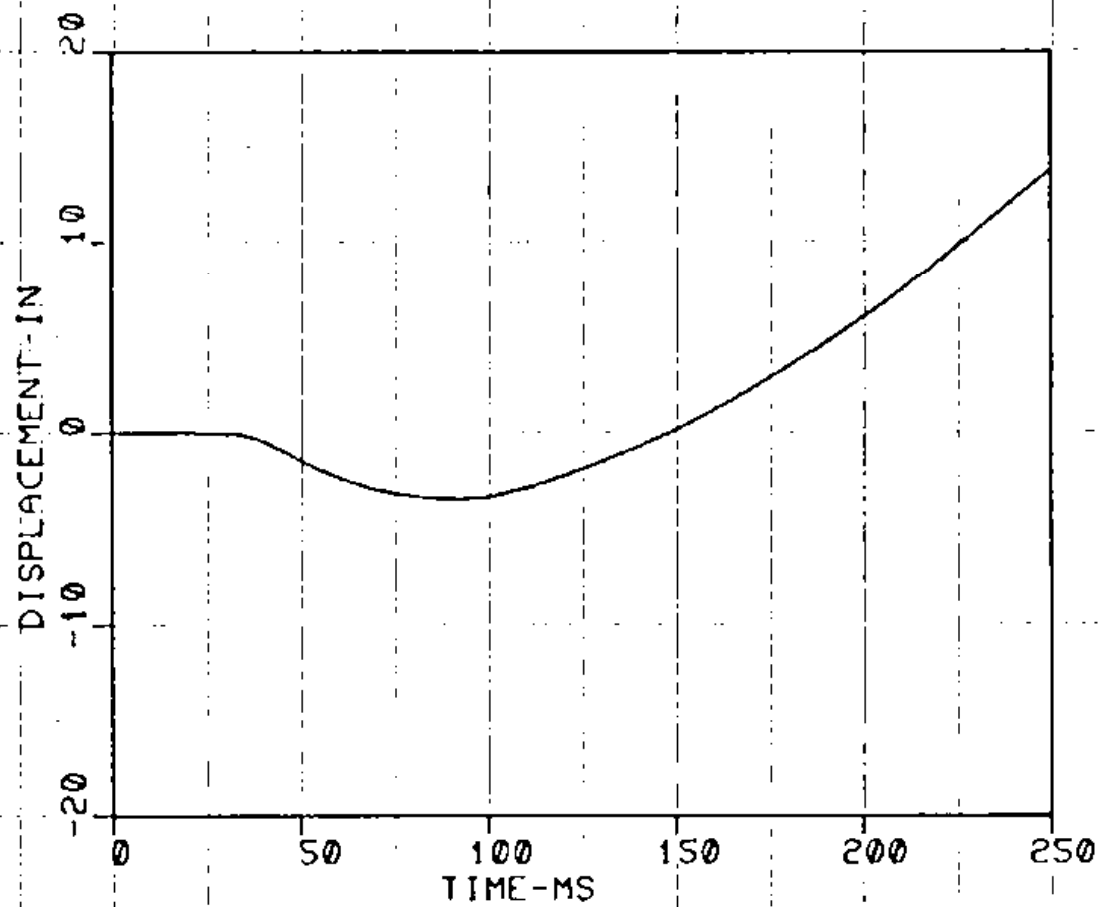
TEST#9327-6.2 VW MODRAB LF 2PGX



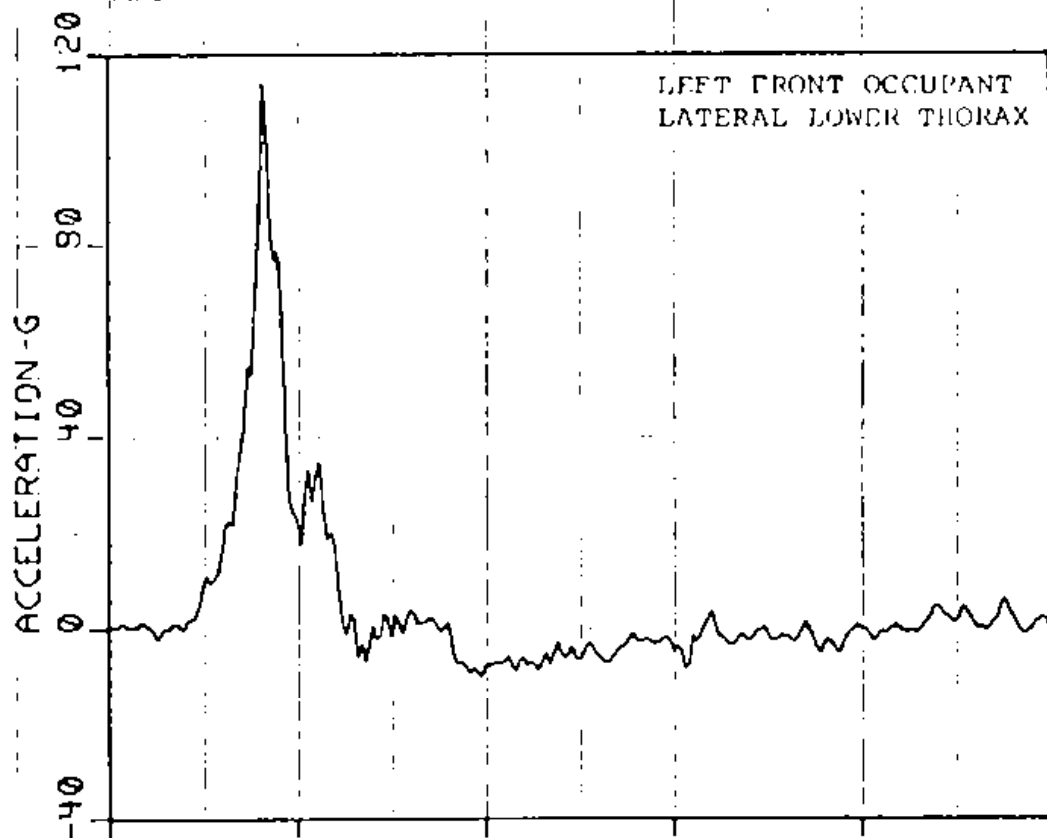
TEST#9327-6.2 VW MODRAB LF 2PVX



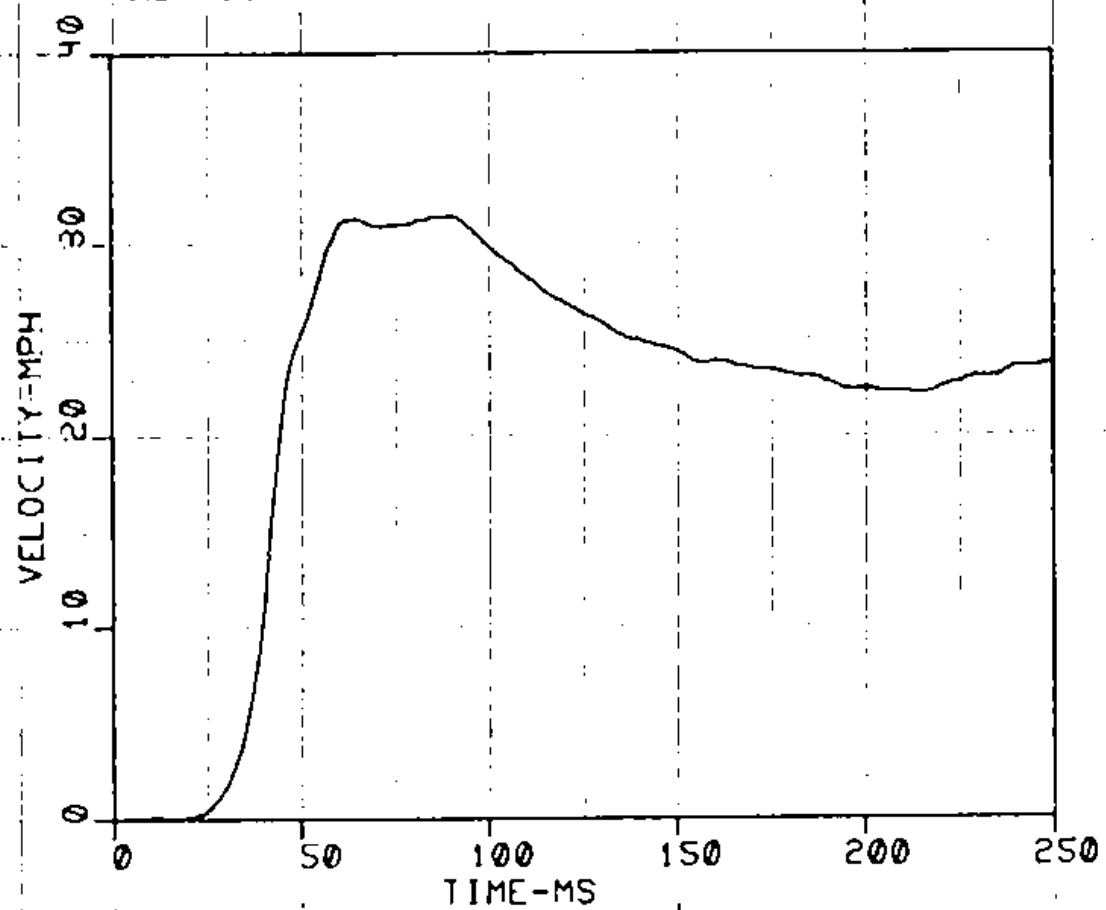
TEST#9327-6.2 VW RABBIT LF 2PSX



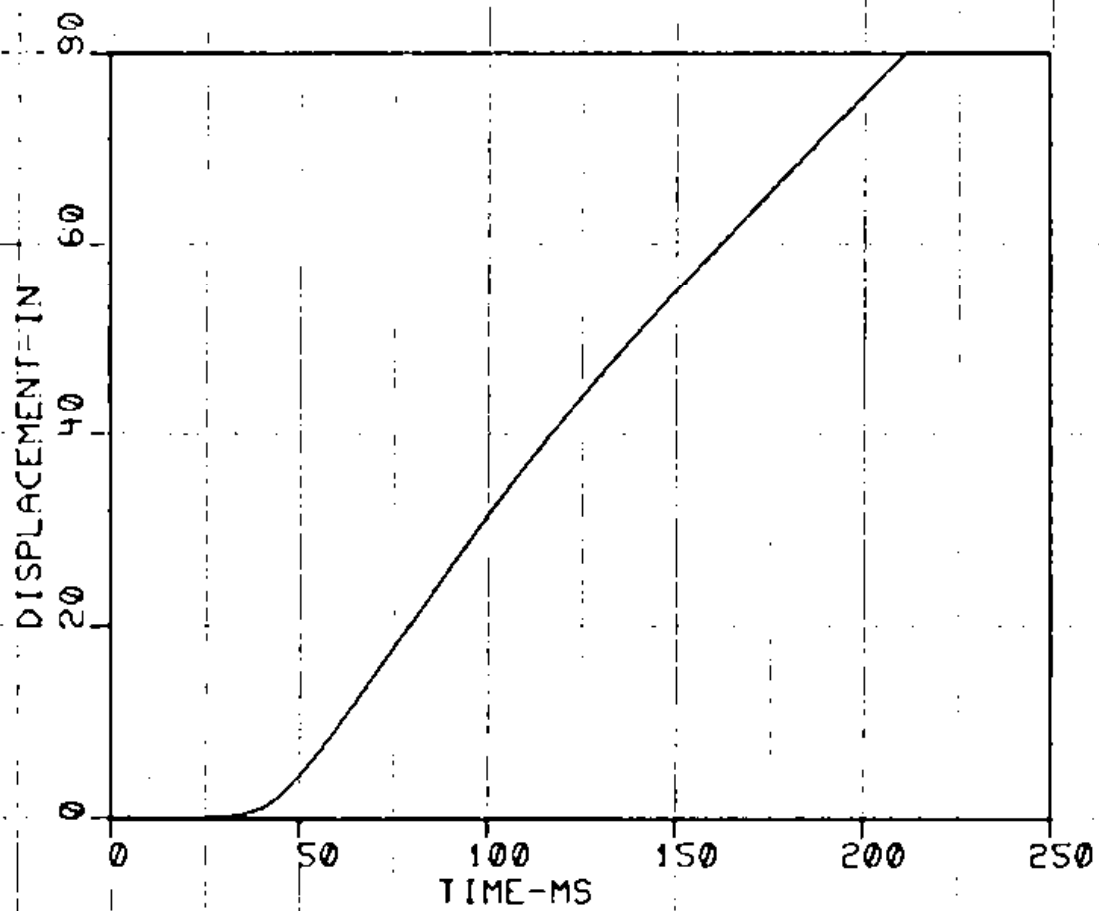
TEST#9327-6.2 VW MODRAB LF 2RGY



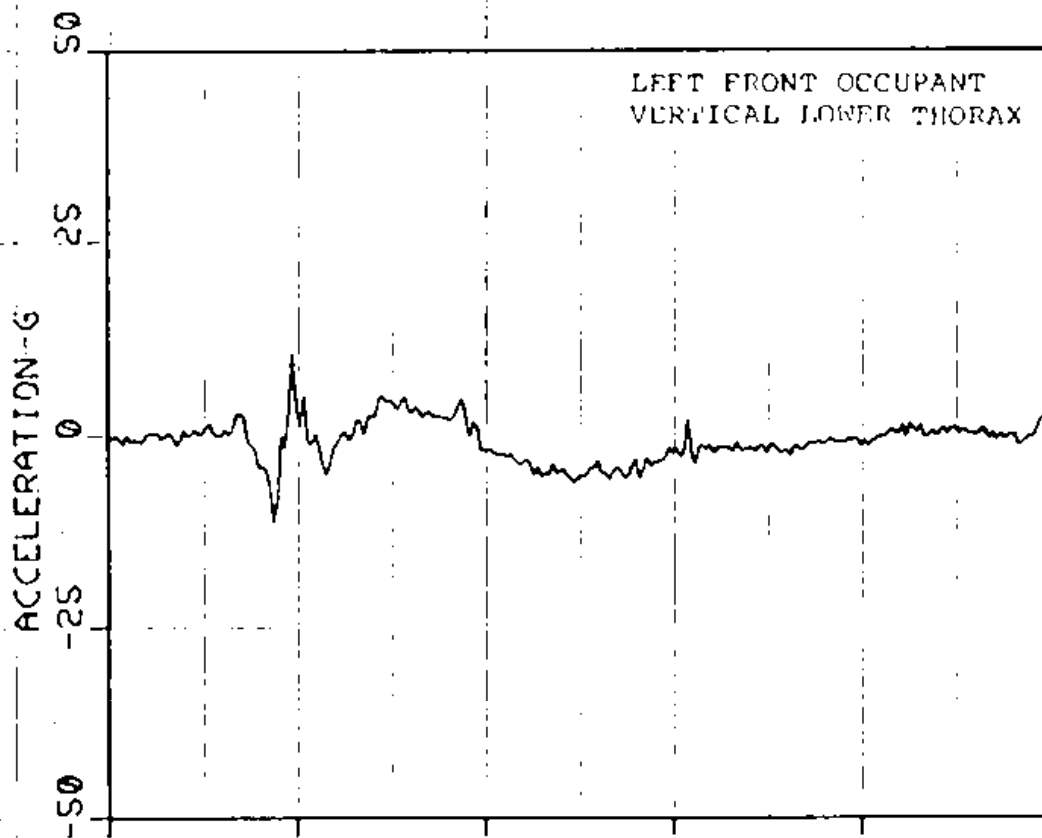
TEST#9327-6.2 VW MODRAB LF 2RGY



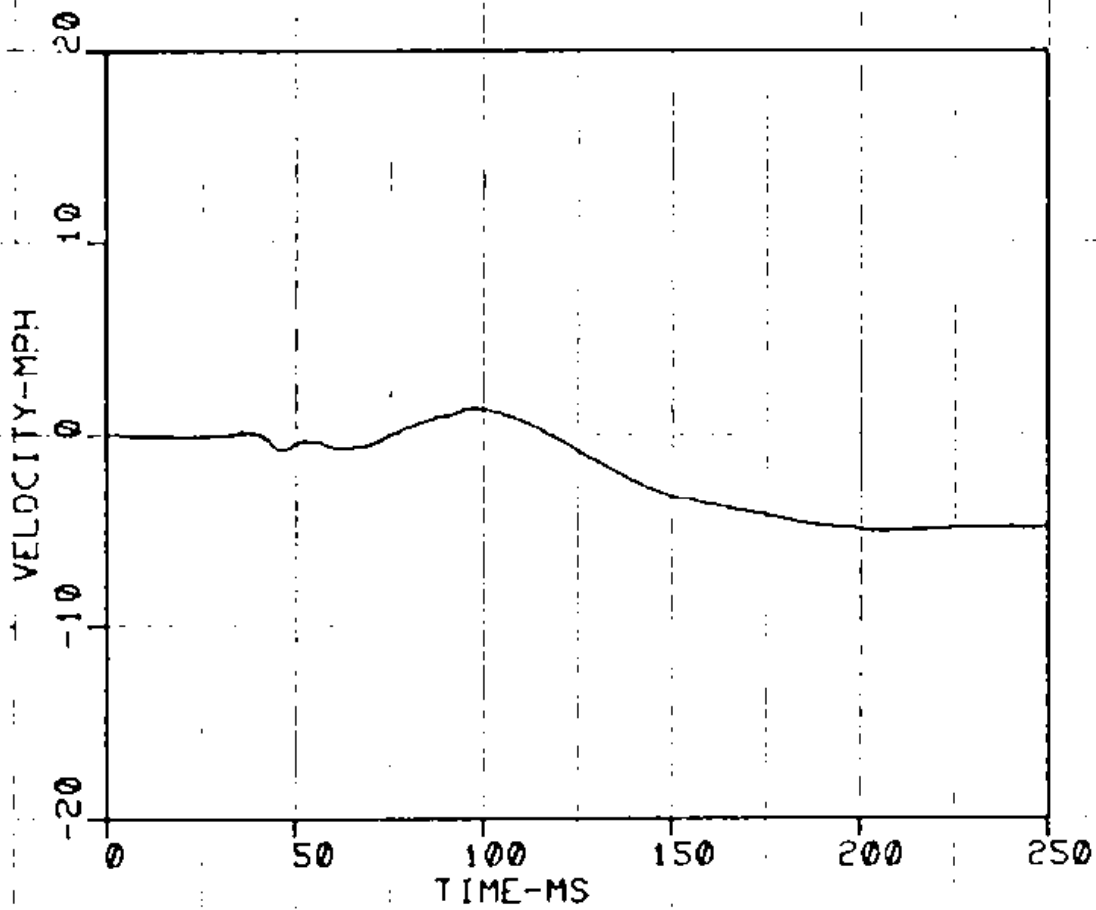
TEST#8327-6.2 VW MODRAB LF 2RSY



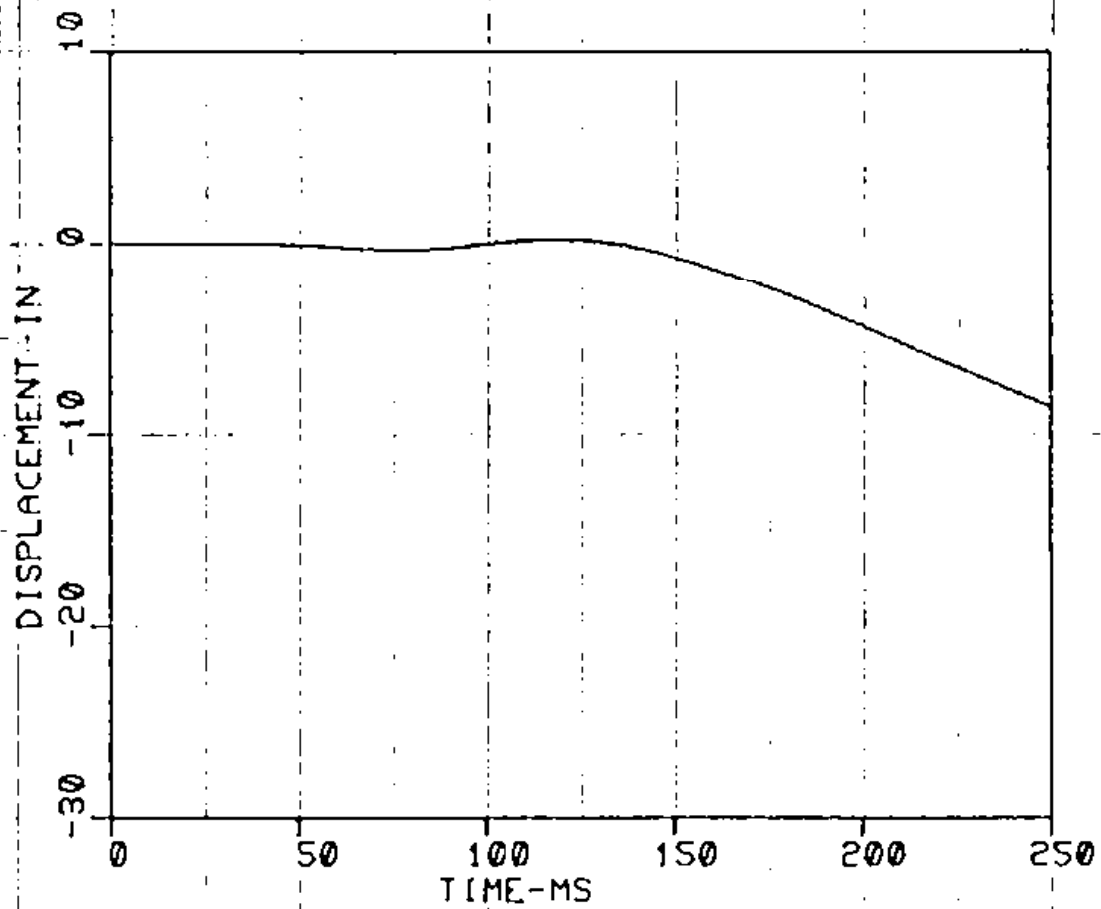
TEST#8327-6.2 VW MODRAB LF 21GZ



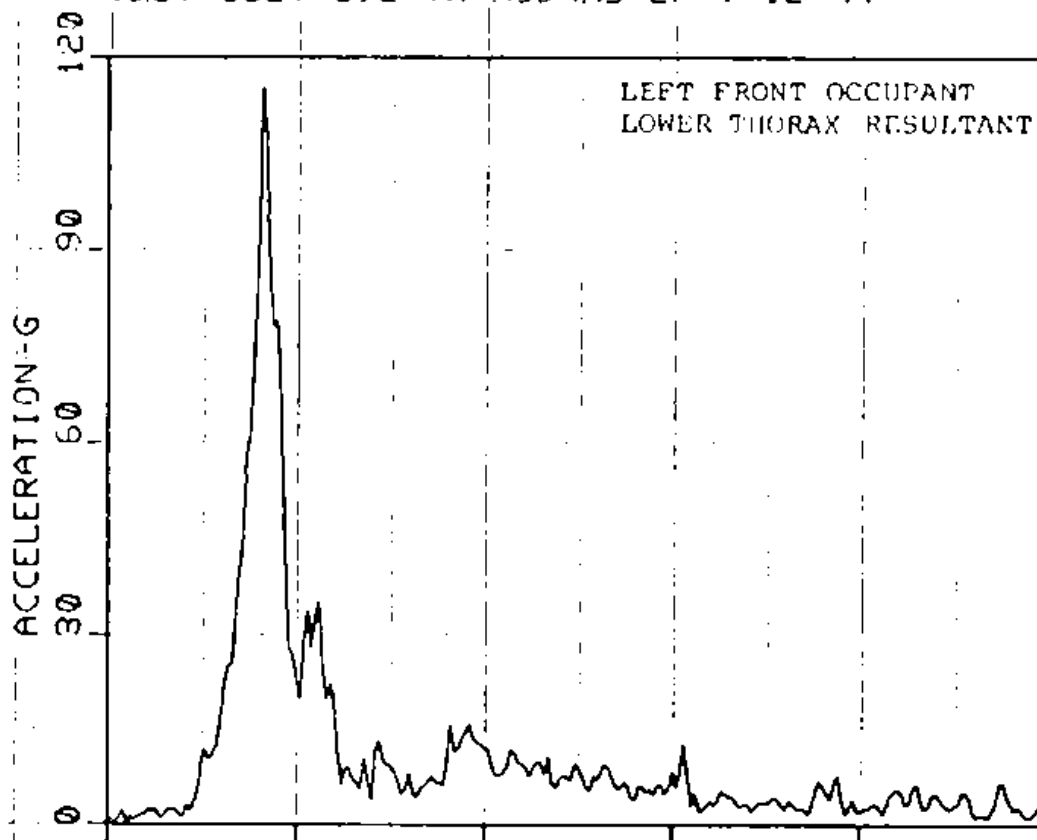
TEST#8327-6.2 VW MODRAB LF 21VZ



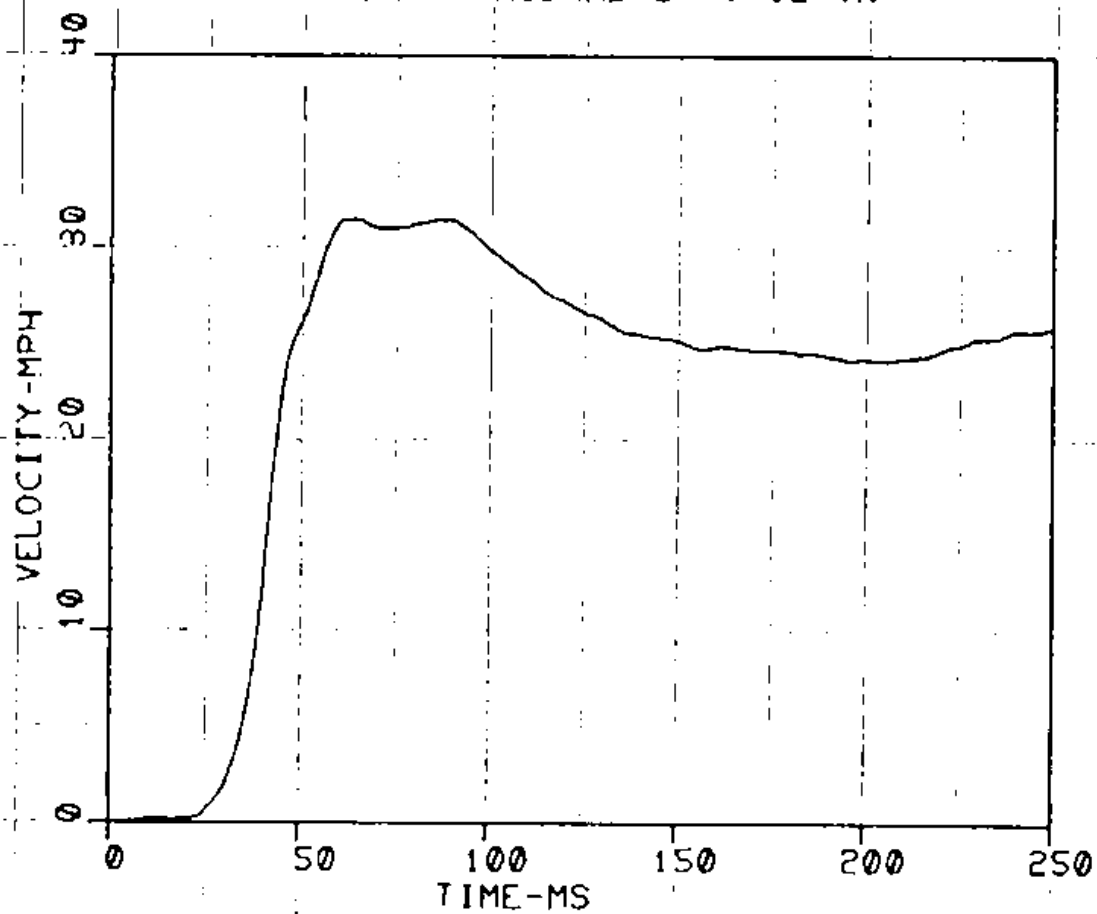
TEST#9327-6.2 VW MODRAB LF 215Z



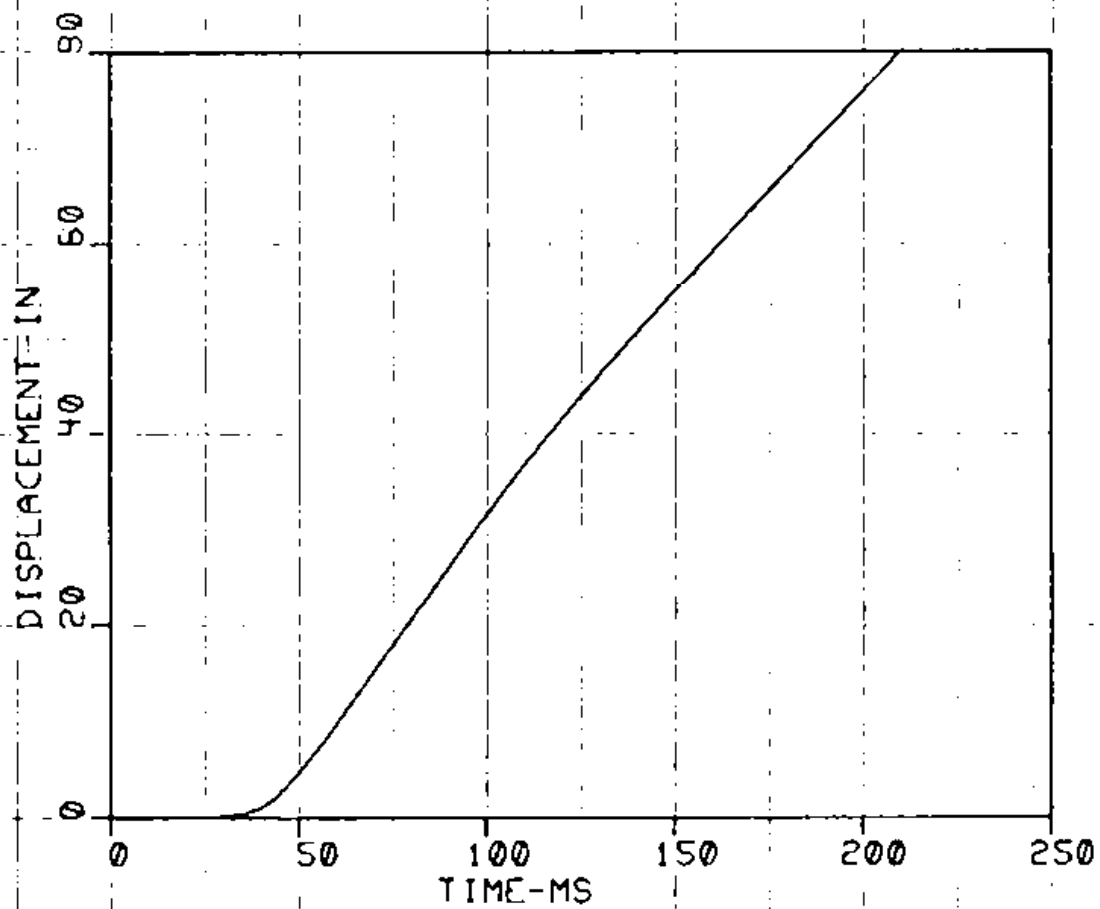
TEST#9327-6.2 VW MODRAB LF T-12 AR



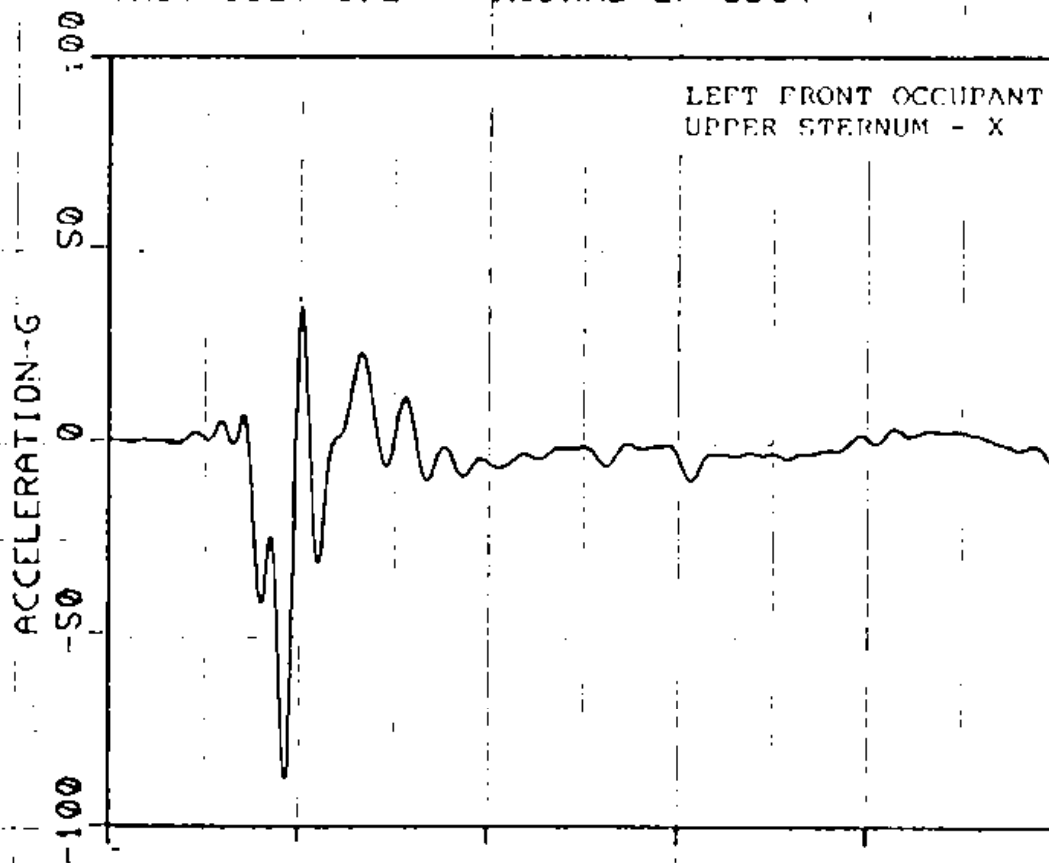
TEST#9327-6.2 VW MODRAB LF T-12 VR



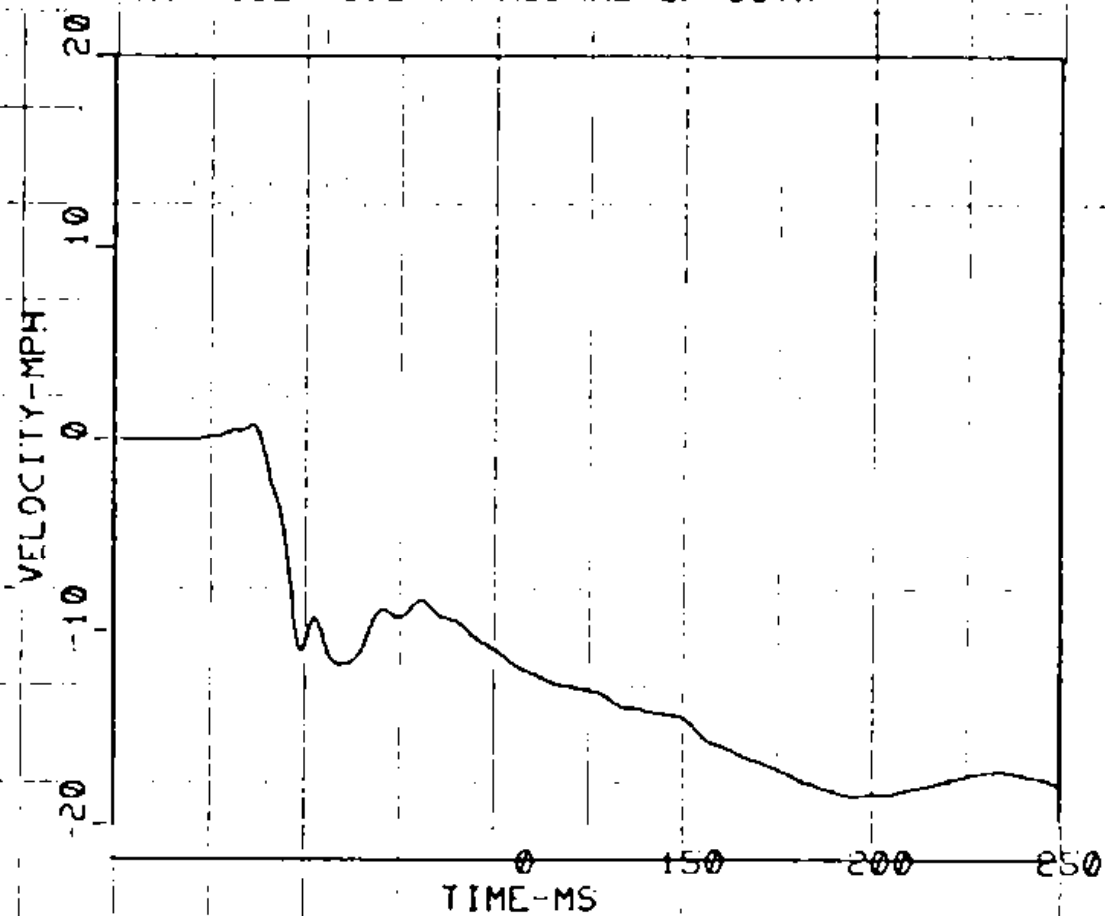
TEST#8327-6.2 VW MODRAB LF T-12 SR



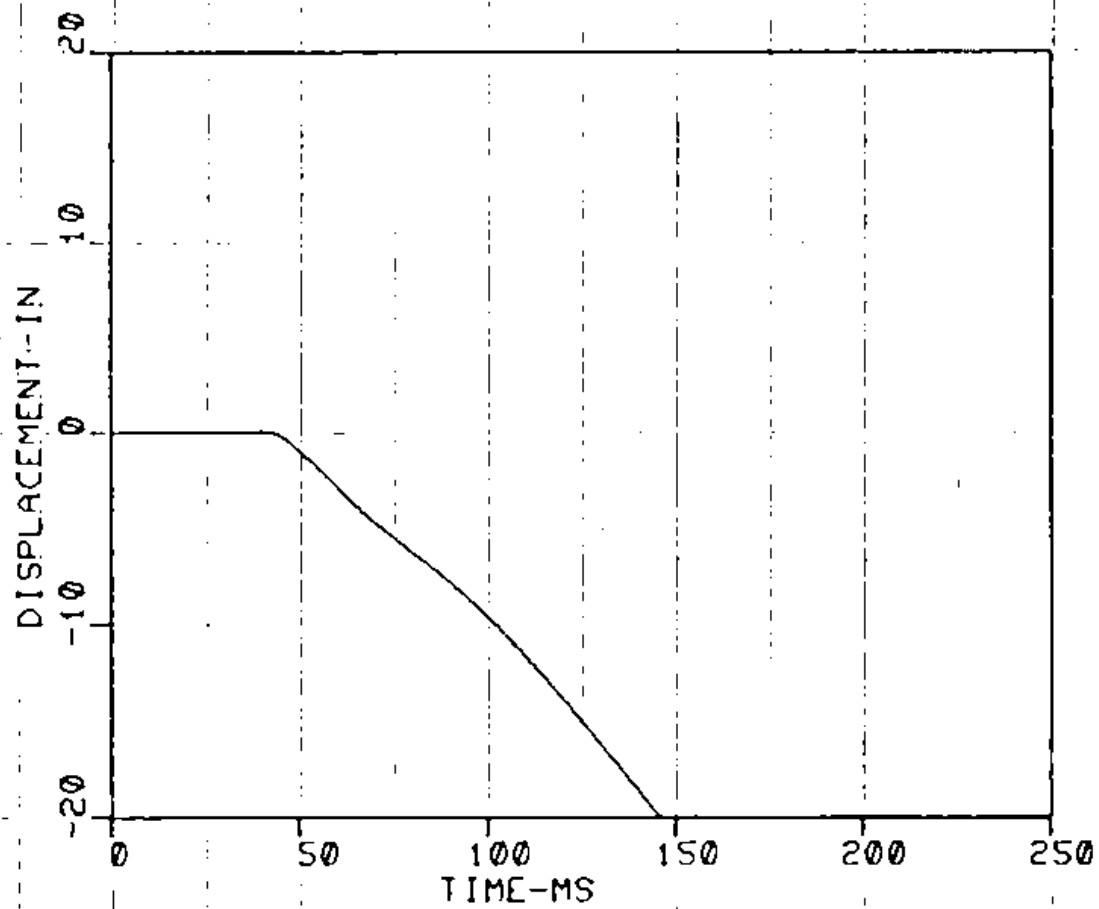
TEST#8327-6.2 VW MODRAB LF USGX



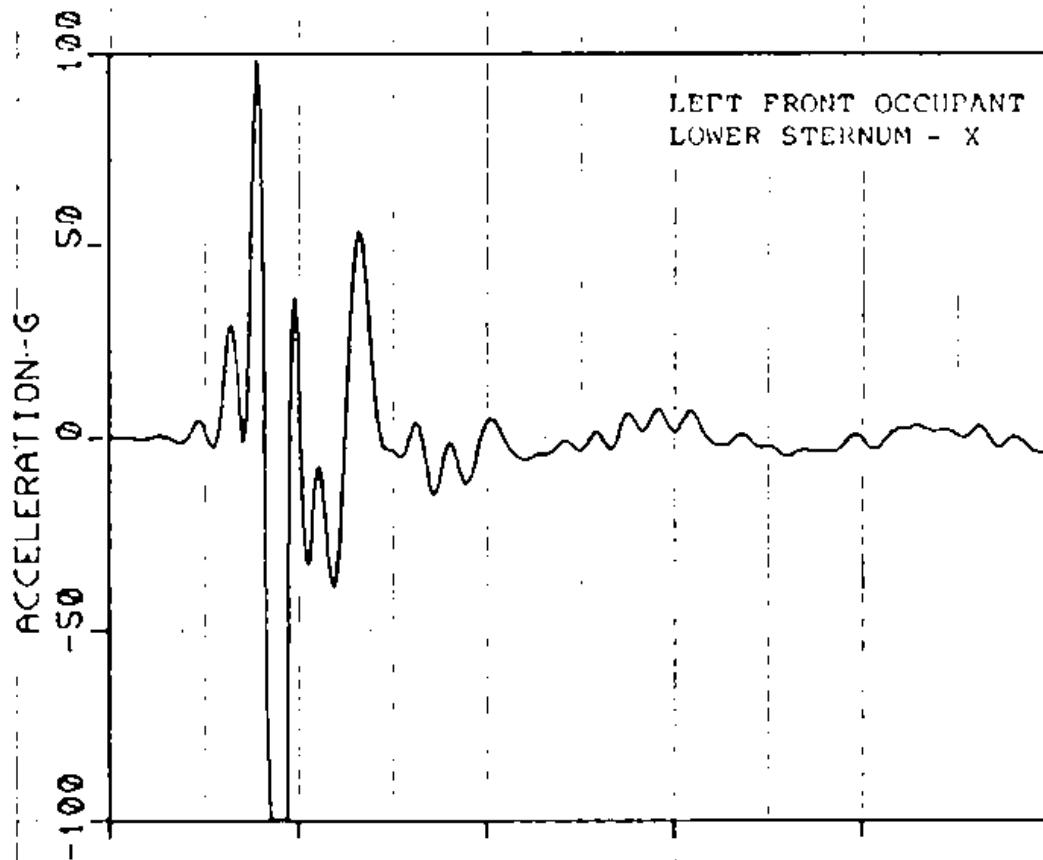
TEST#8327-6.2 VW MODRAB LF USVX



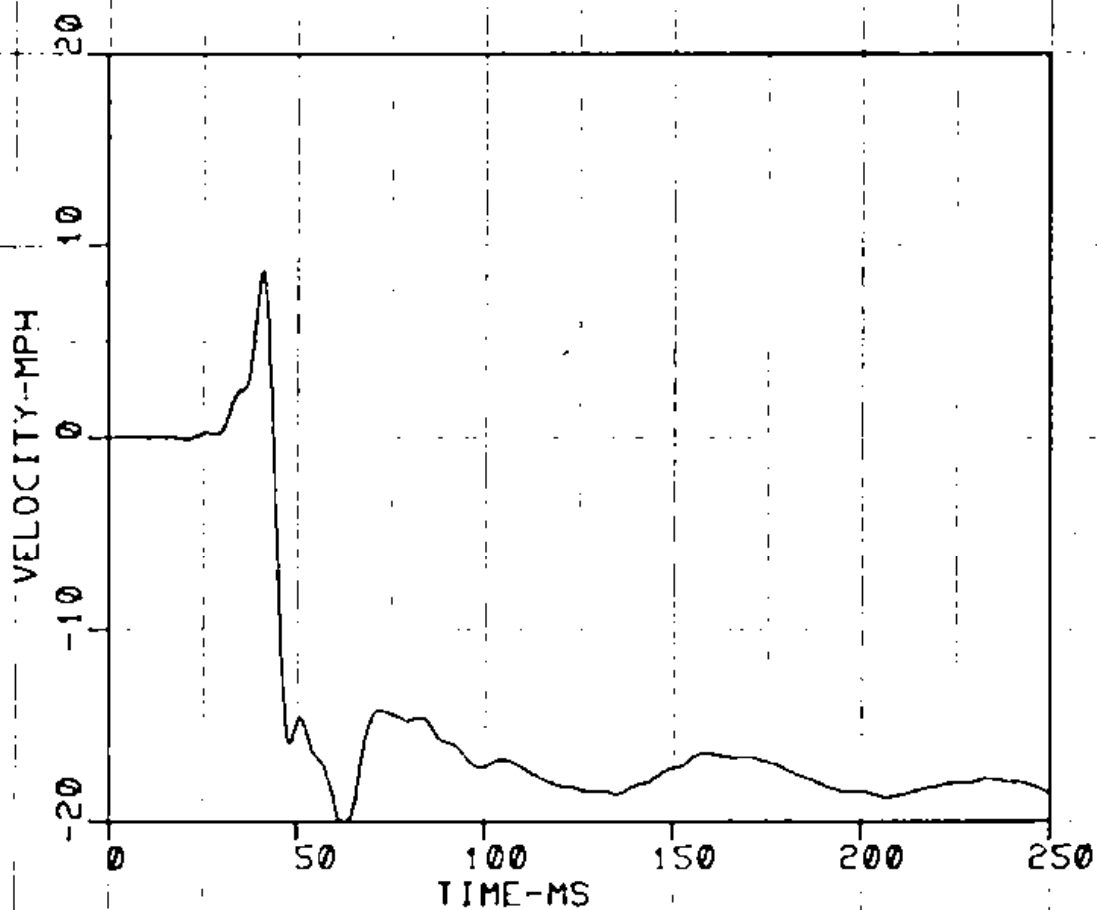
TEST#8327-6.2 VW MODRAB LF USSX



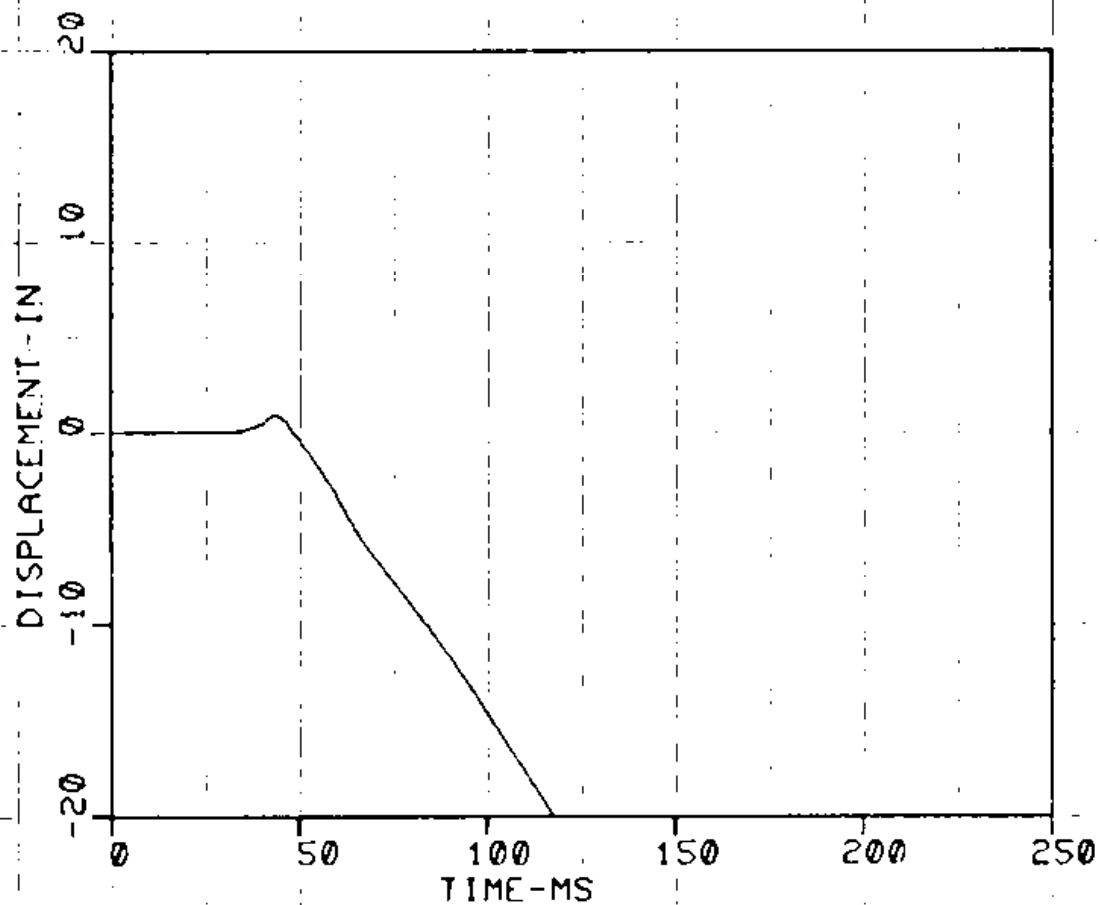
TEST#9327-6.2 VW MODRAB LF LSGX



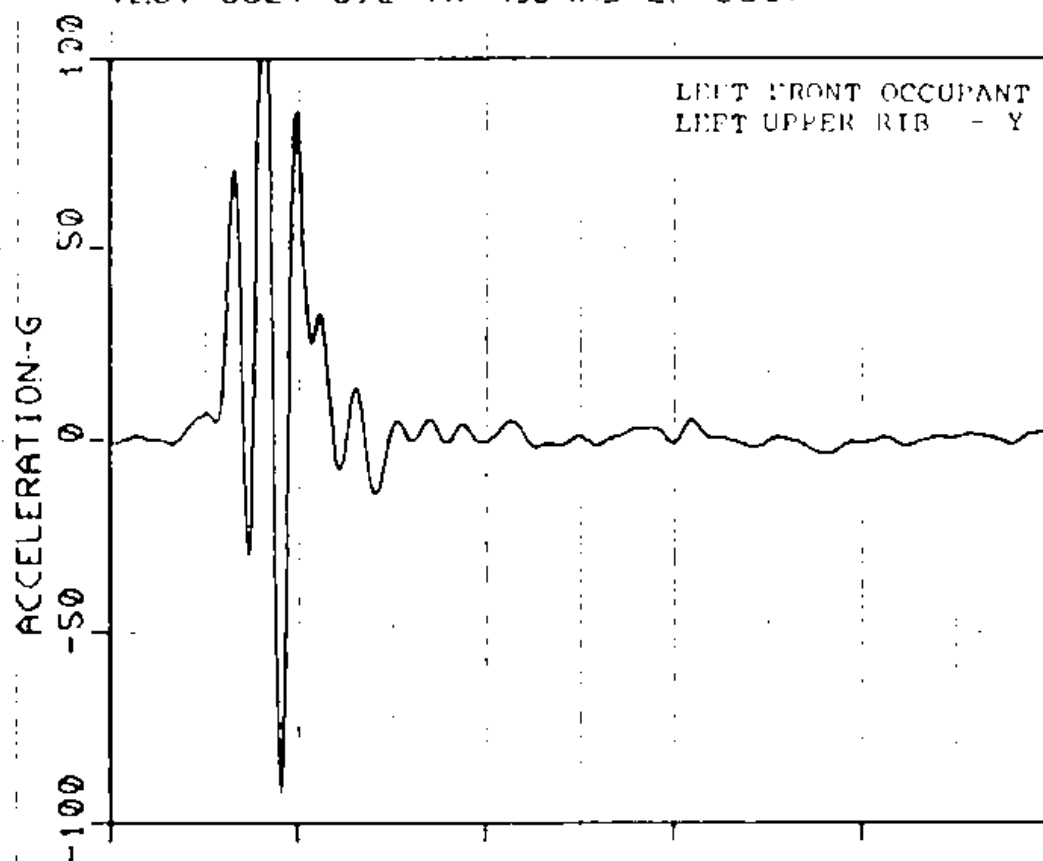
TEST#9327-6.2 VW MODRAB LF LSVX



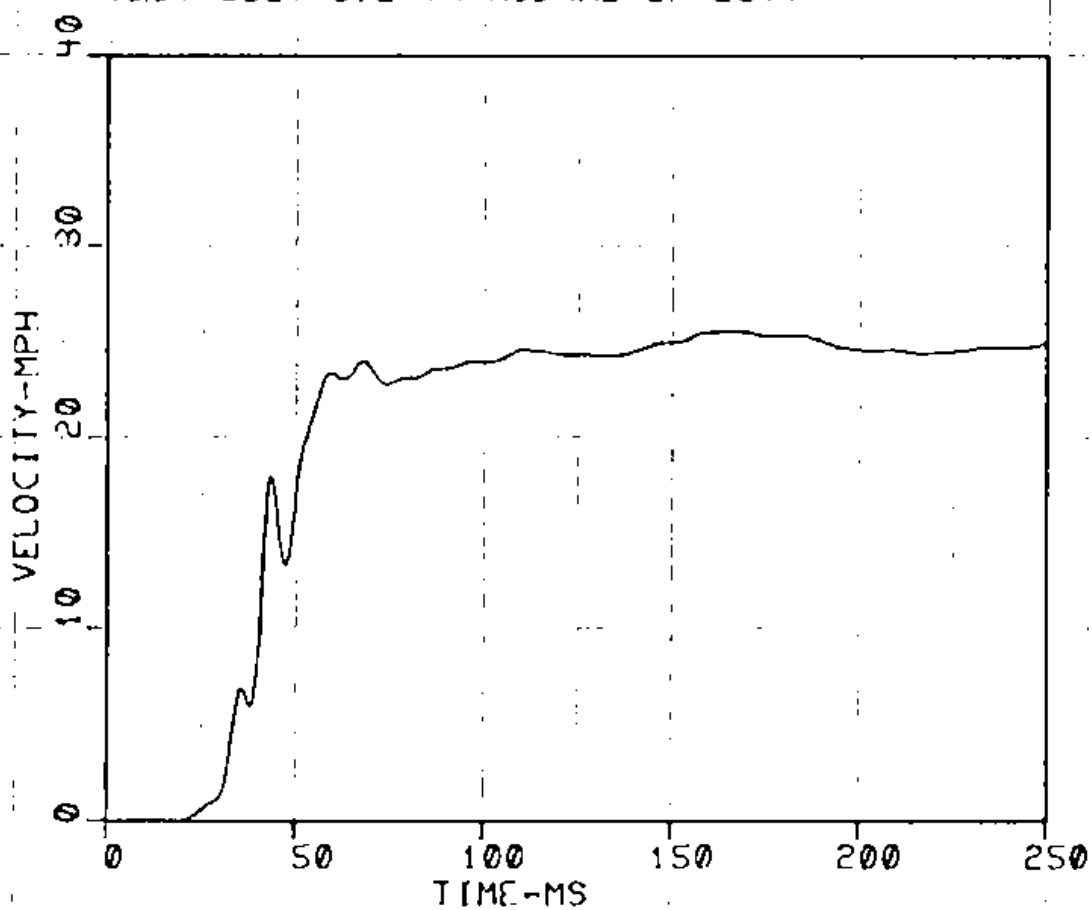
TEST#9327-6.2 VW MODRAB LF LSSX



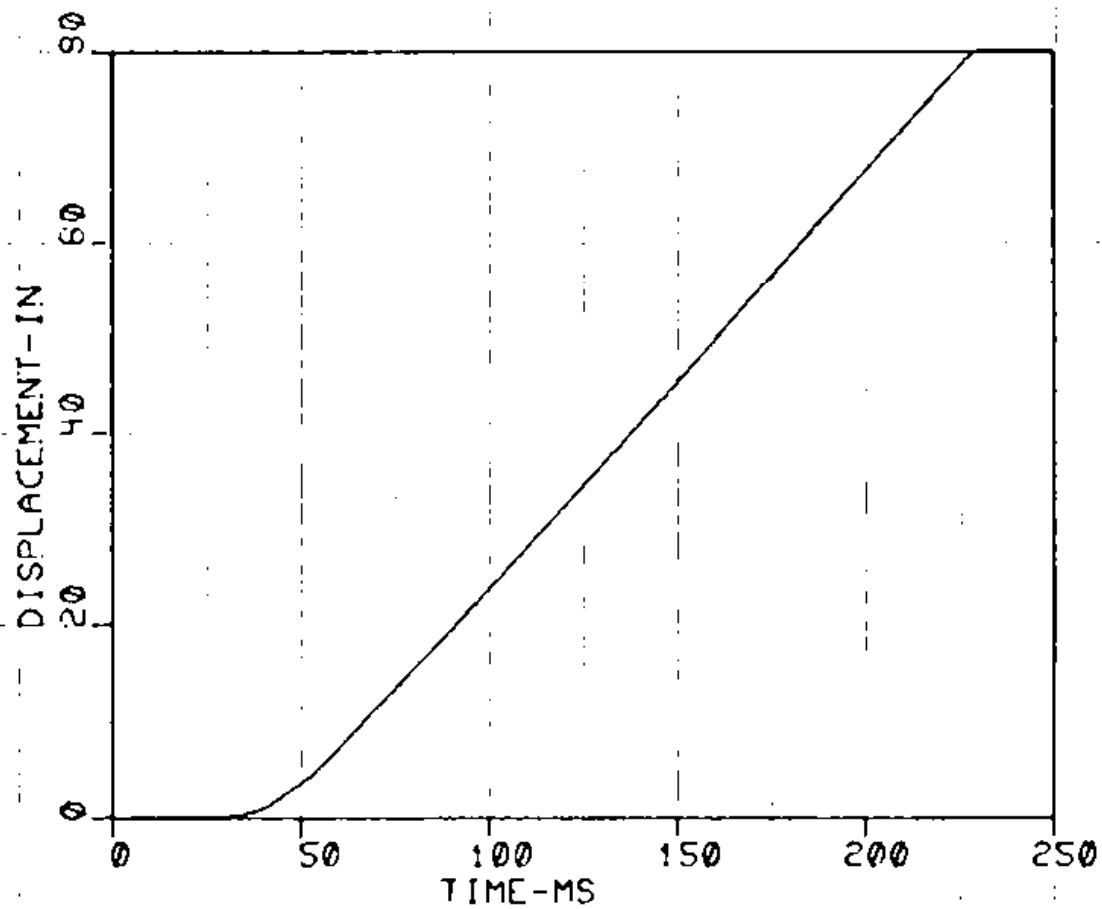
TEST#8327-6.2 VW MODRAB LF LUGY



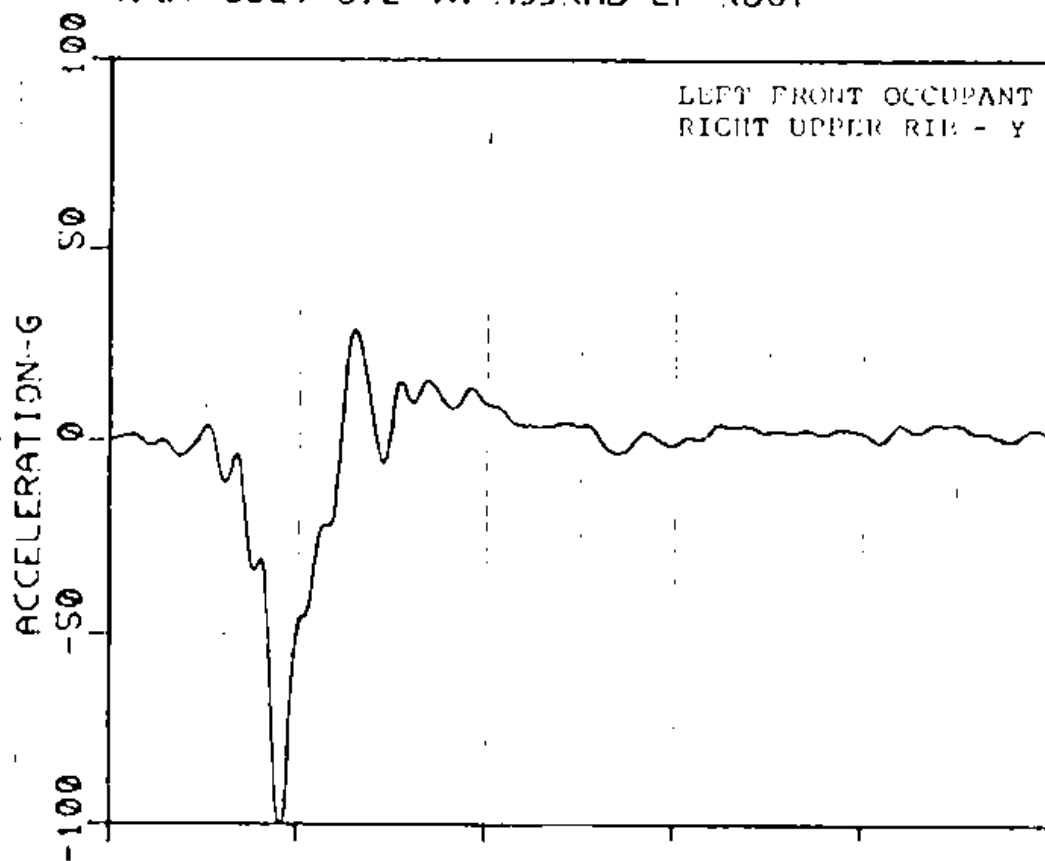
TEST#8327-6.2 VW MODRAB LF LUVY



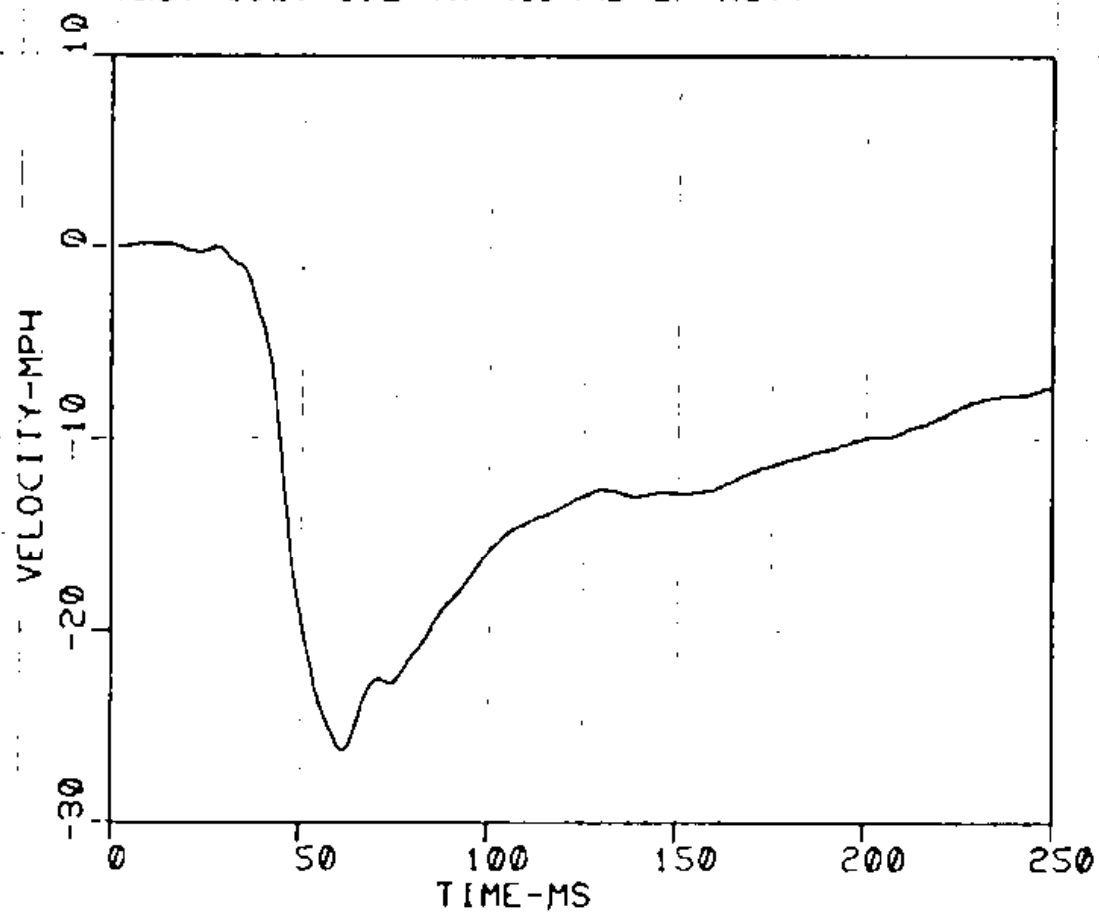
TEST#9327-6.2 VW MODRAB LF LUSY



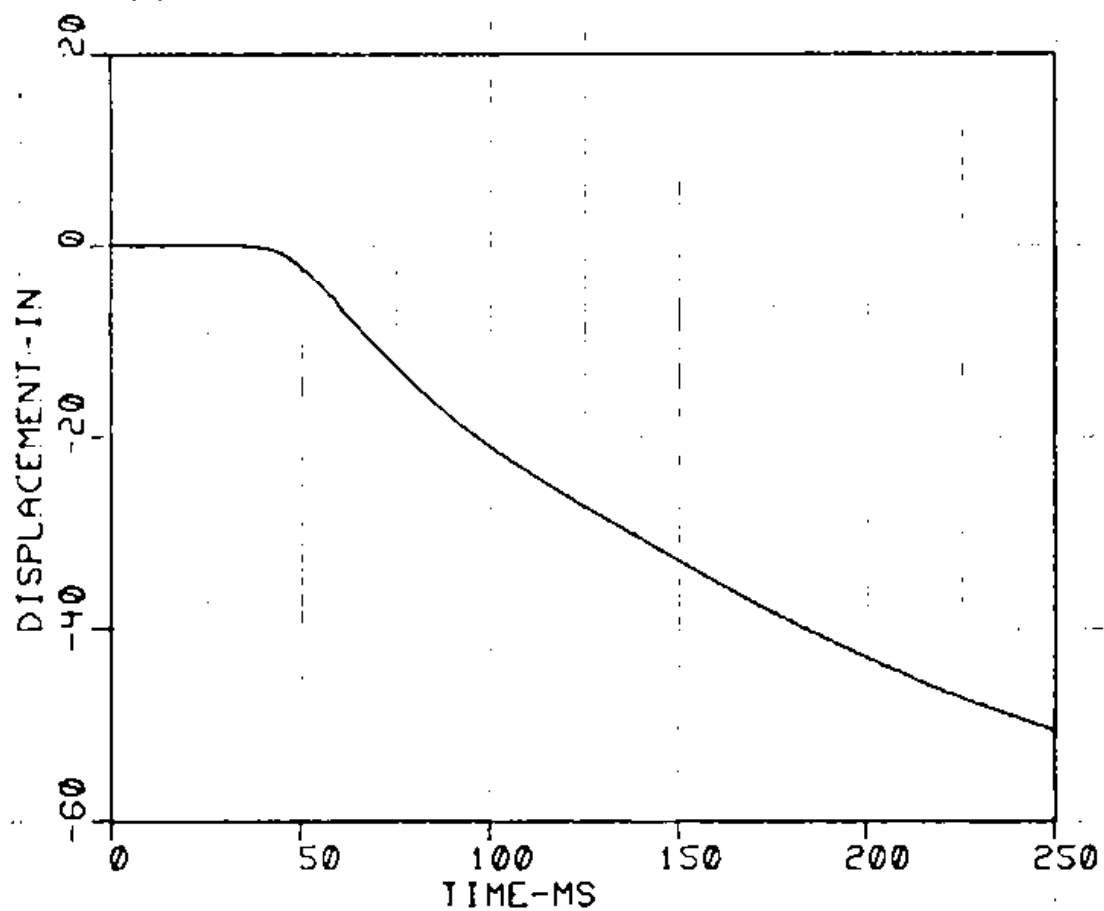
TEST#9327-6.2 VW MODRAB LF RUGY



TEST#9327-6.2 VW MODRAB LF RUGY

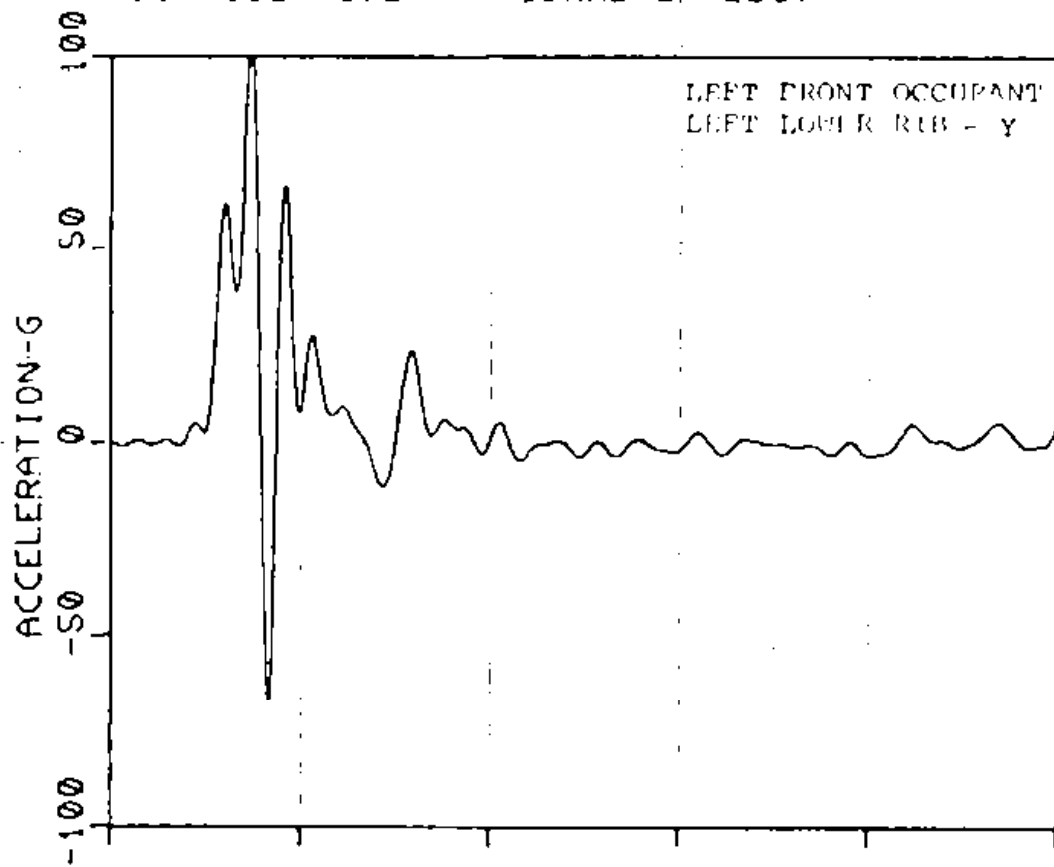


TEST#9327-6.2 VW MODRAB LF RUSY

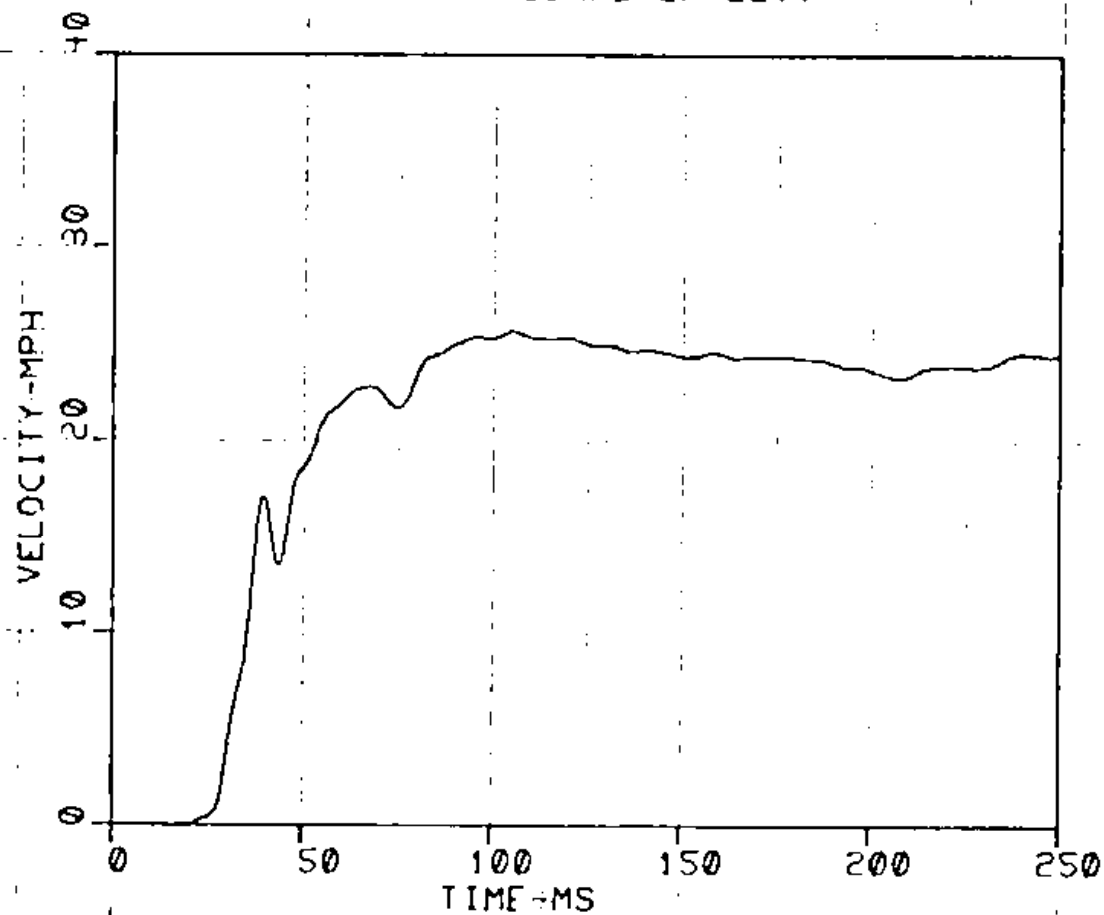


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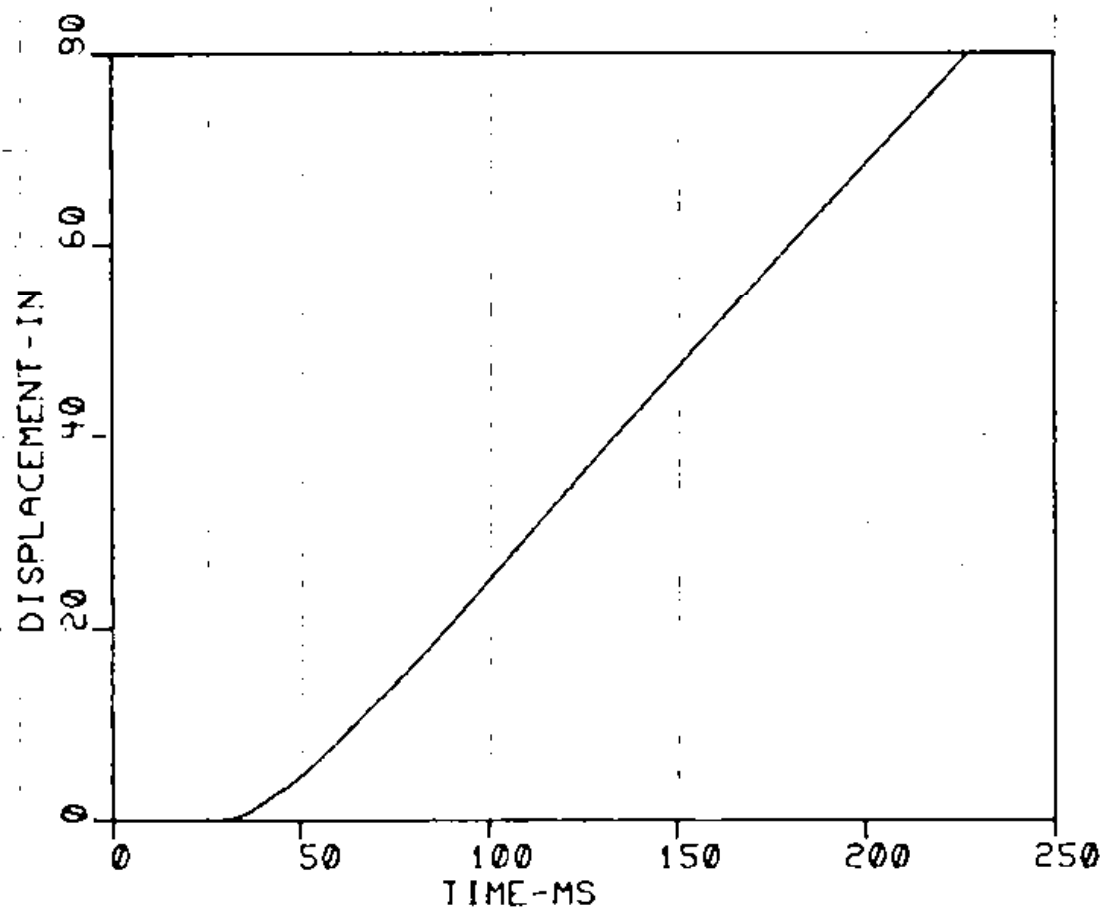
TEST#9327-6.2 VW MODRAB LF LLGY



TEST#9327-6.2 VW MODRAB LF LLGY

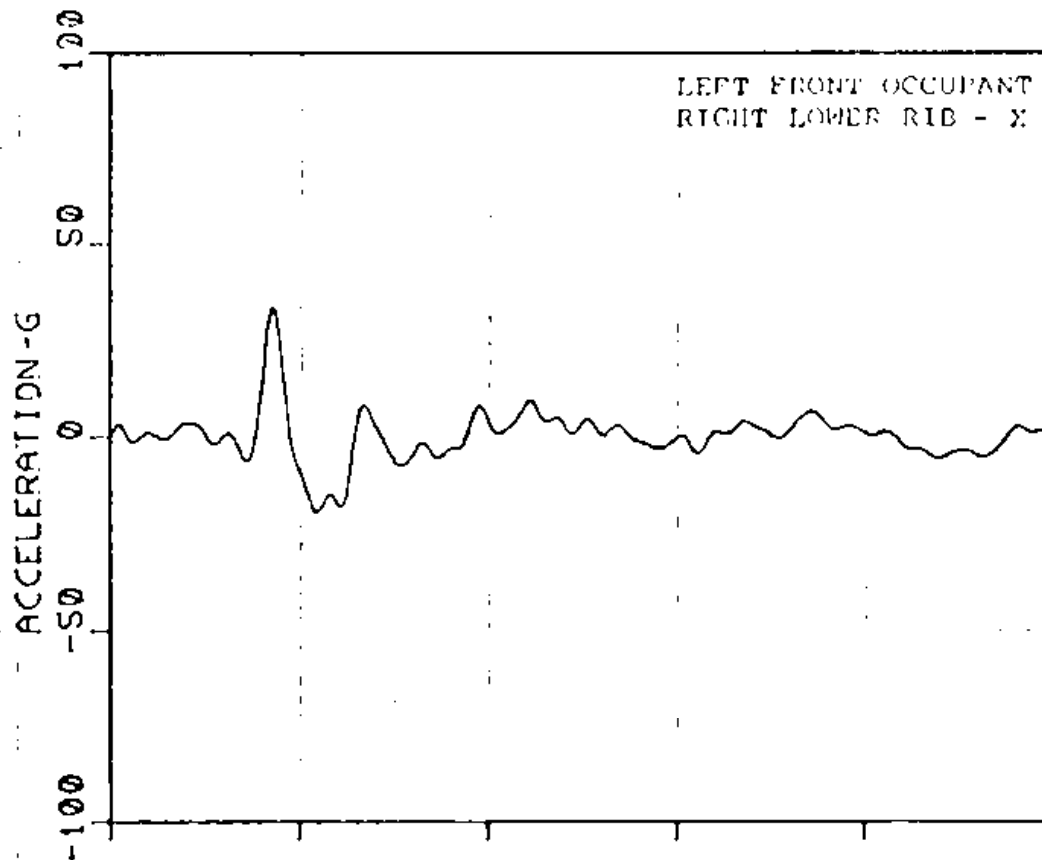


TEST#8327-B.2 VW MODRAB LF LLSY

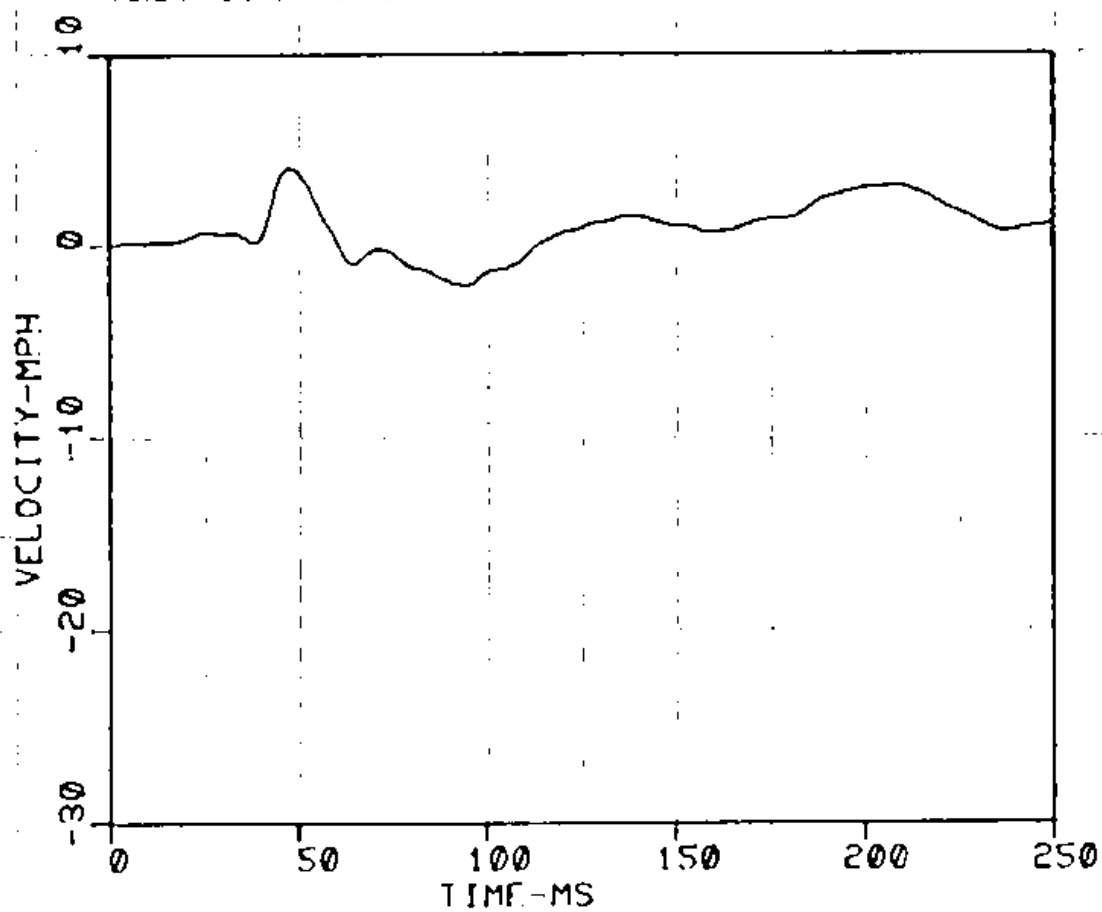


C-100

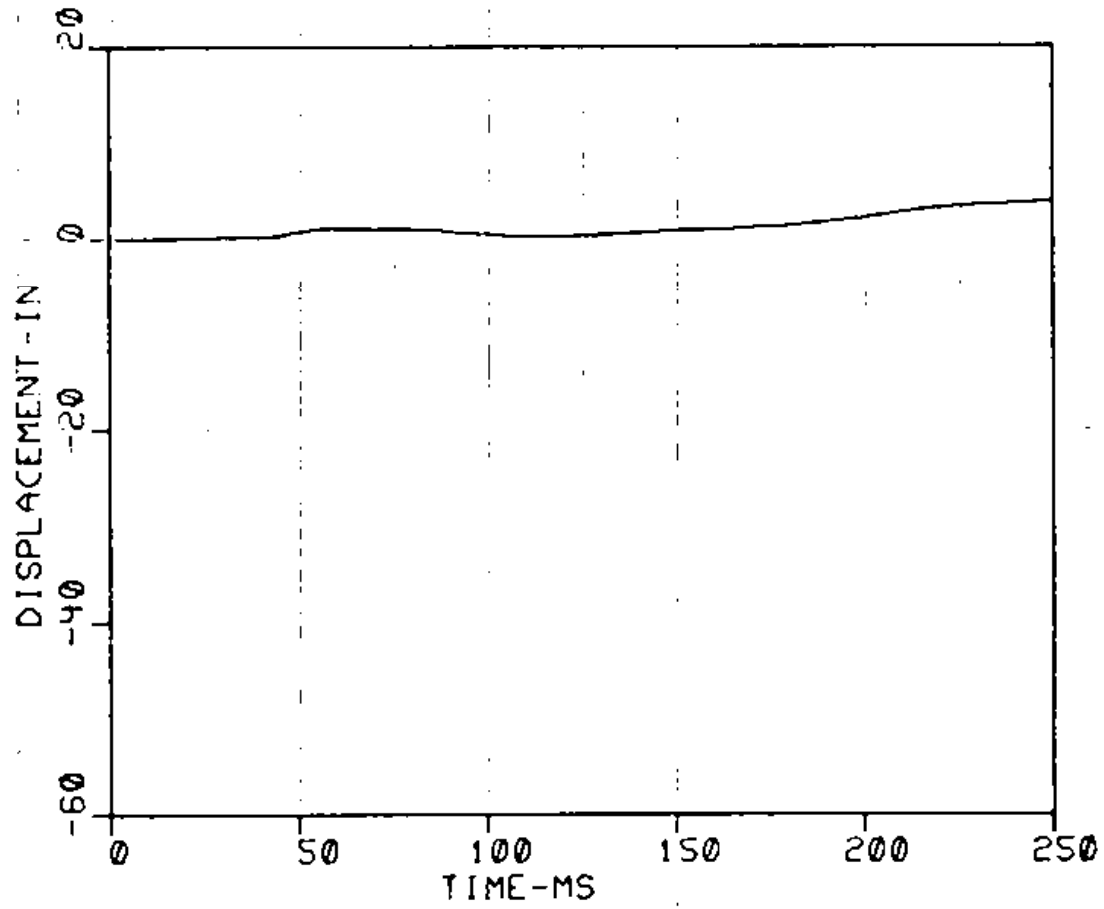
TEST#9327-6.2 VW MODRAB LF RLGX



TEST#9327-6.2 VW MODRAB LF RLVX

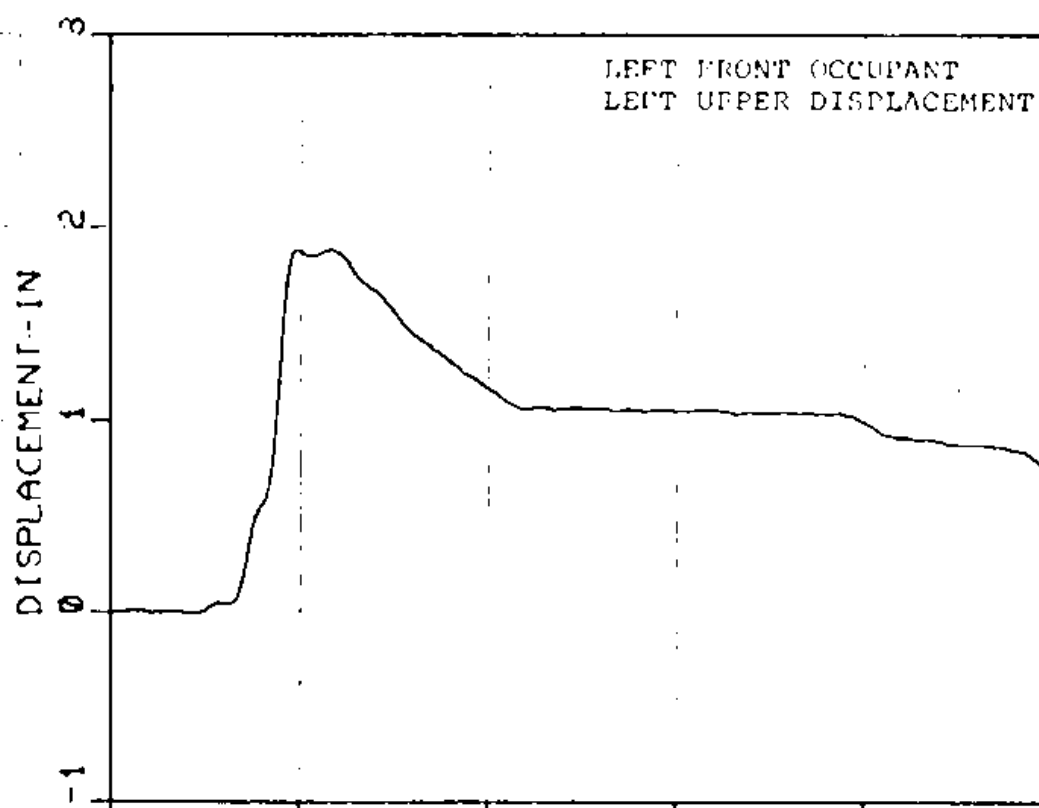


TEST#9327-6.2 VW MODRAB LF RLSX

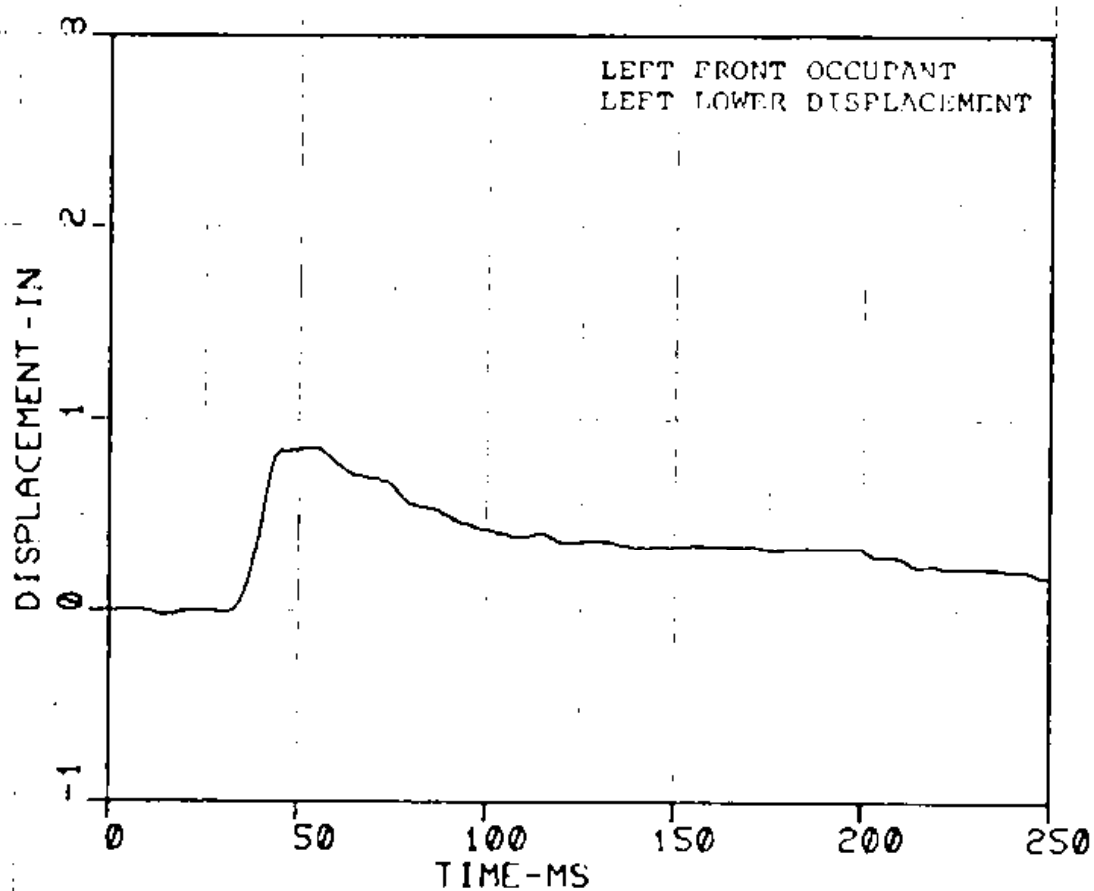


C-102

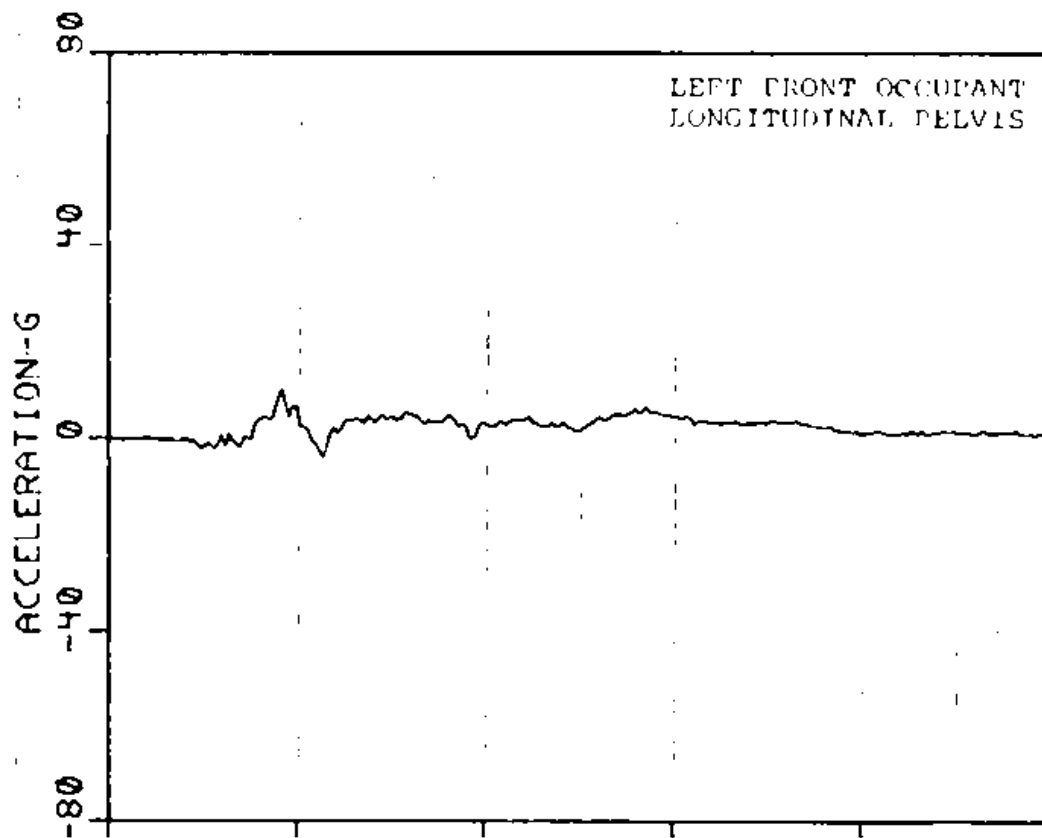
TEST#8327 6.2 VW MODRAB LF LUDY



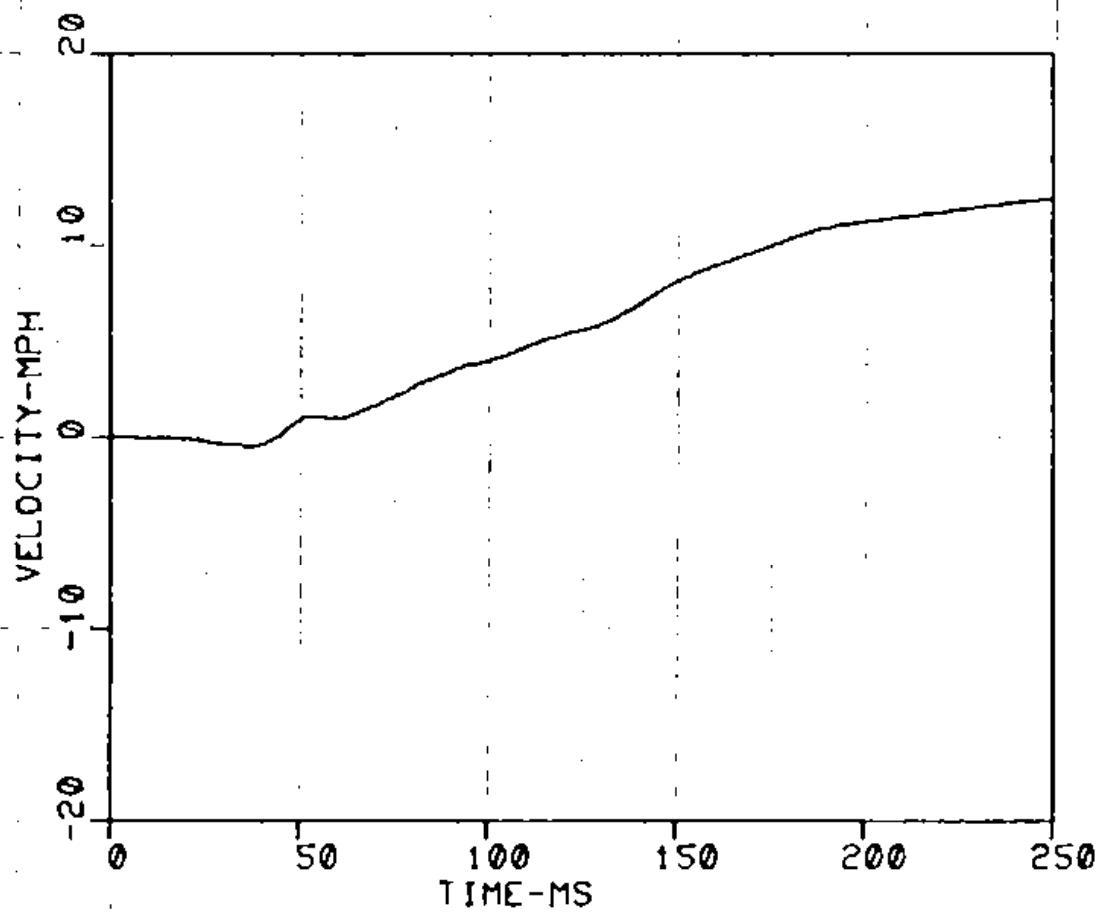
TEST#8327-6.2 VW MODRAB LF LLDY



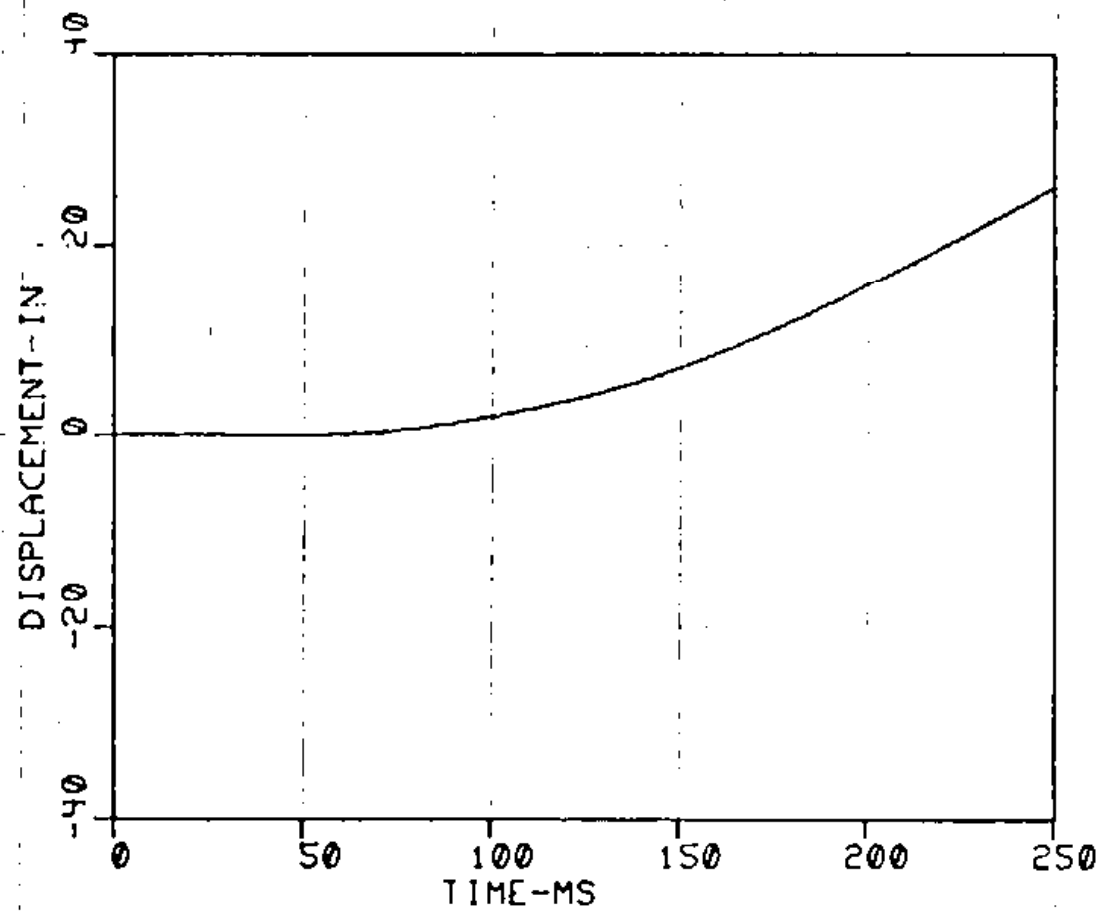
TEST#8327-6.2 VW MODRAB LF PPGX



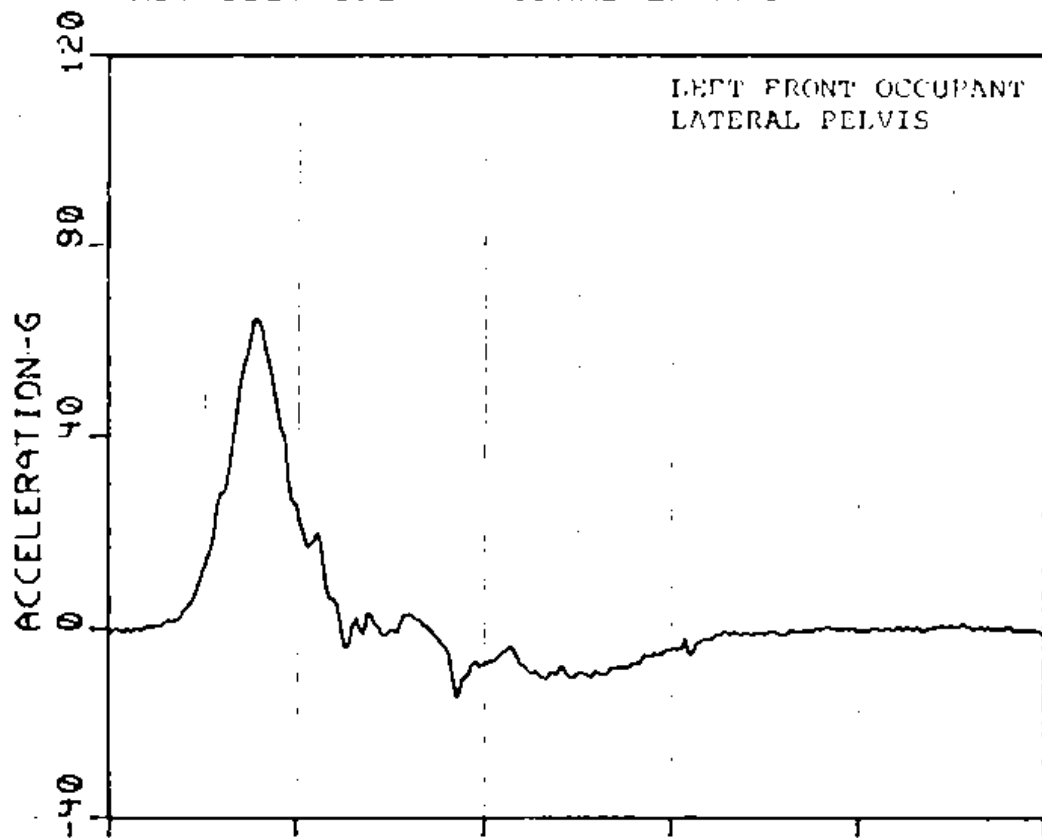
TEST#8327-6.2 VW MODRAB LF PPVX



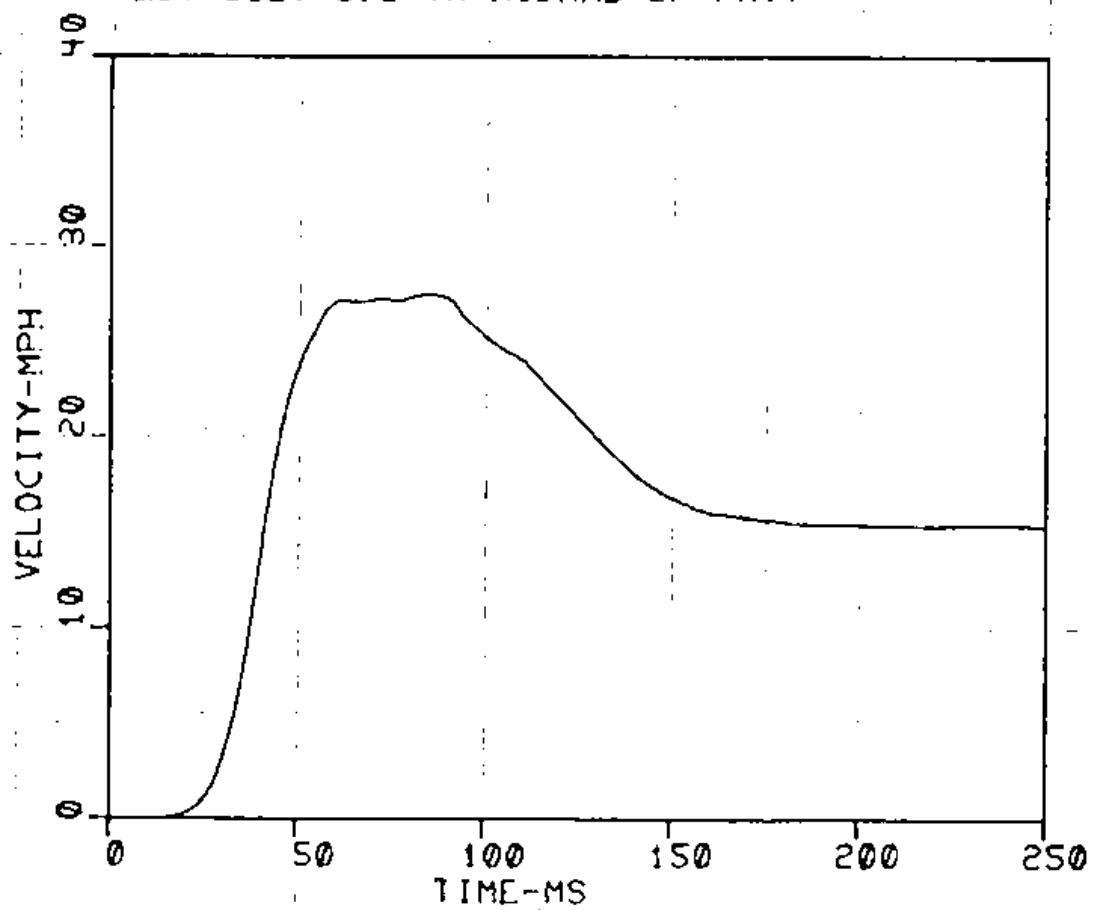
TEST#9327-6.2 VW MODRAB LF PPSX



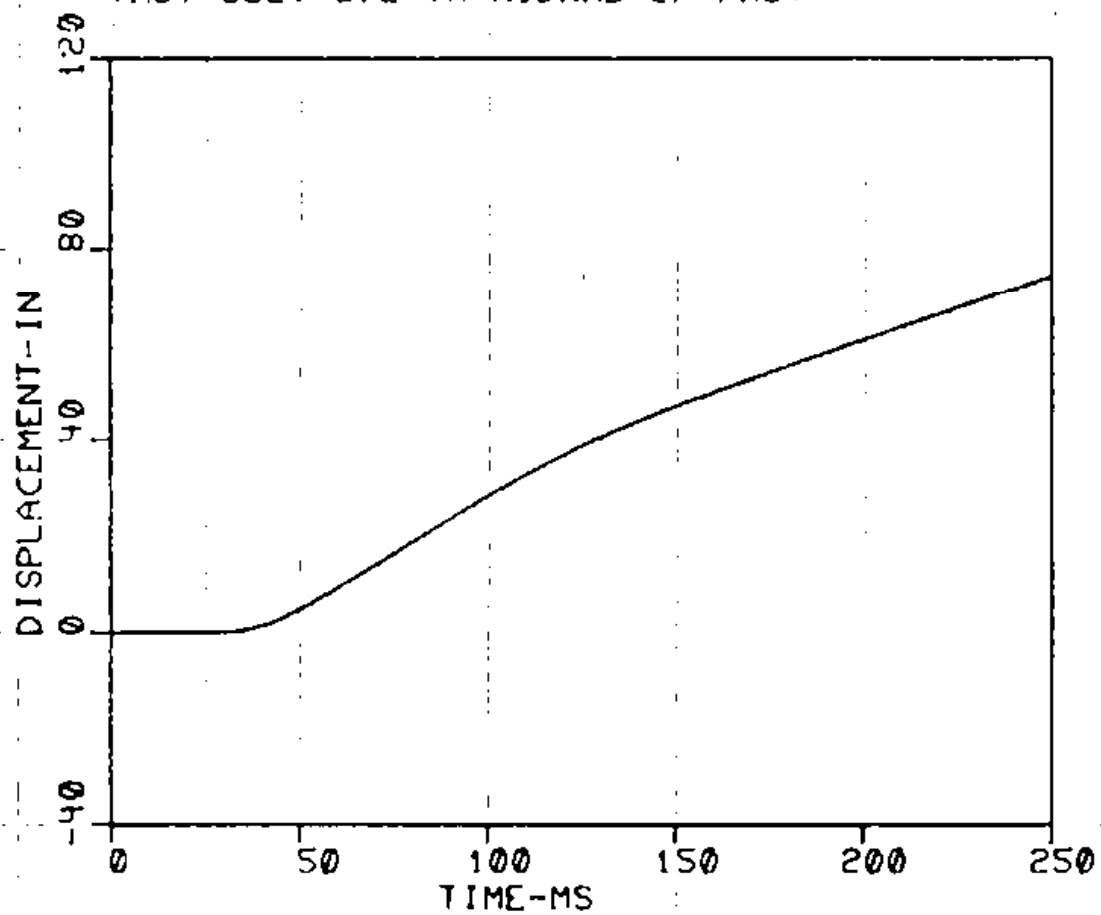
TEST#8327-6.2 VW MODRAB LF PRGY



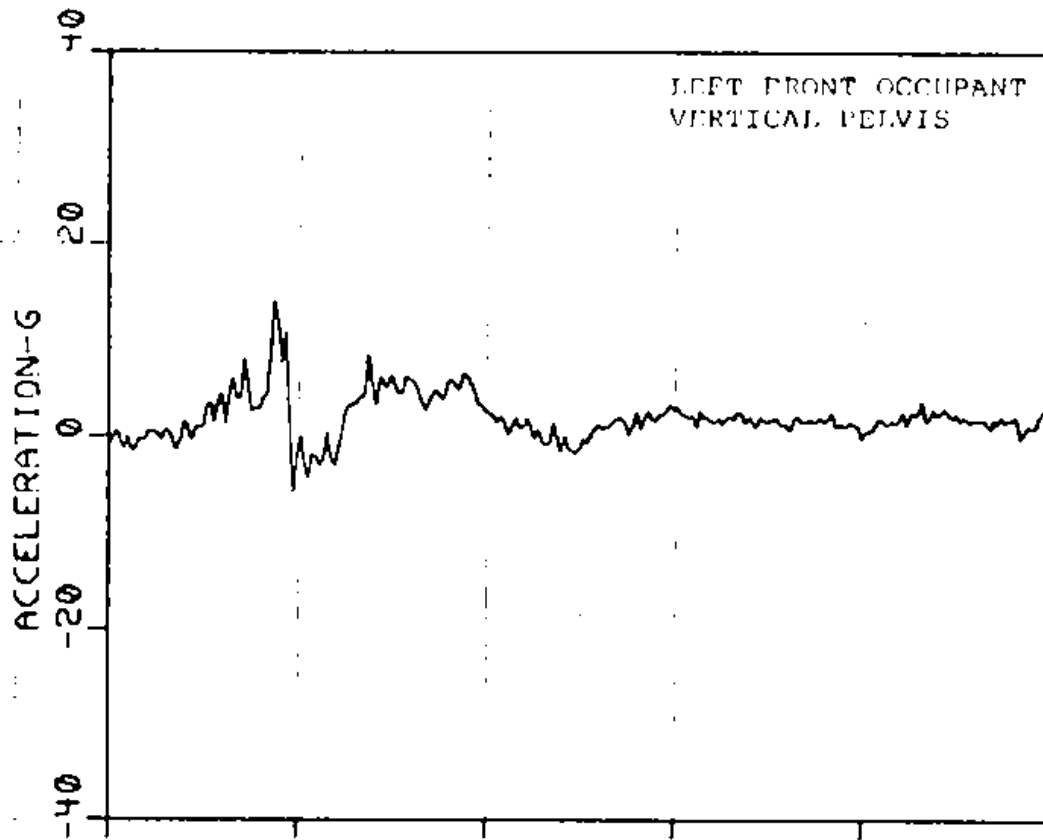
TEST#8327-6.2 VW MODRAB LF PRVY



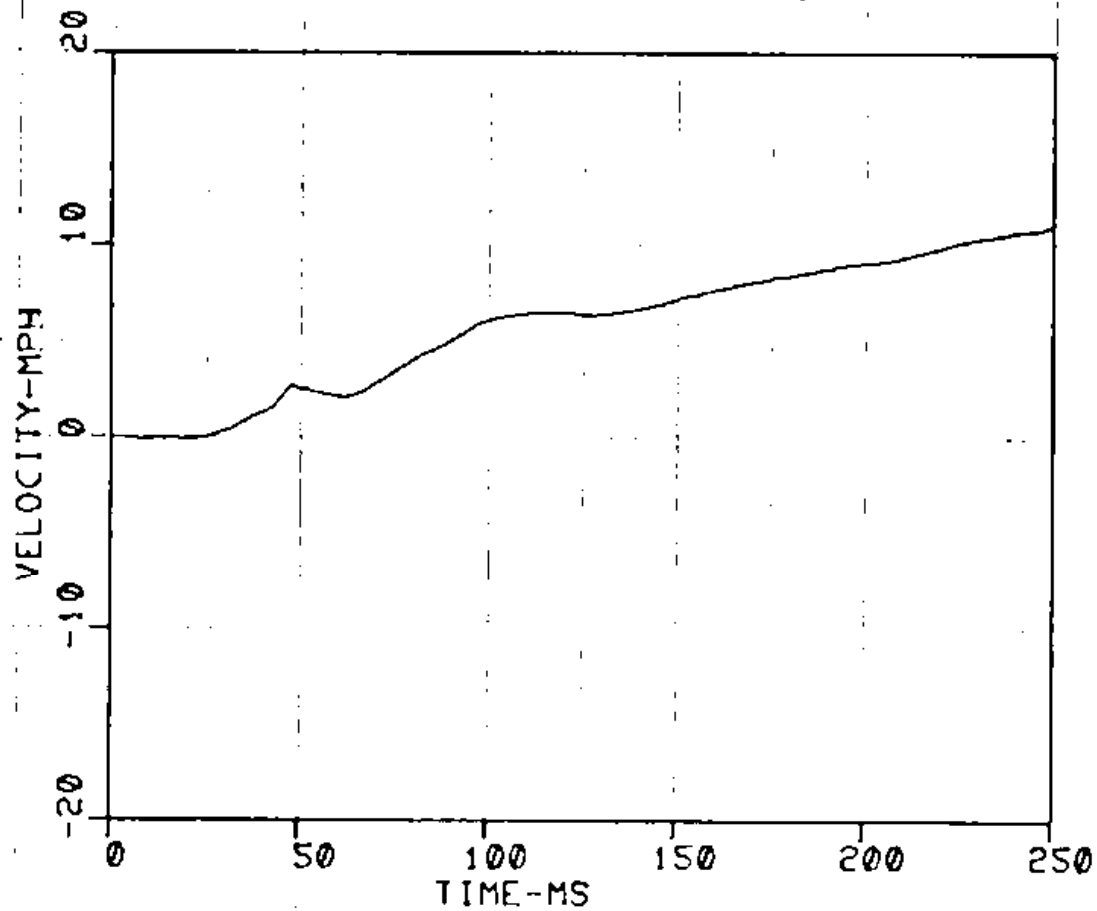
TEST#8327-6.2 VW MODRAB LF PRSY



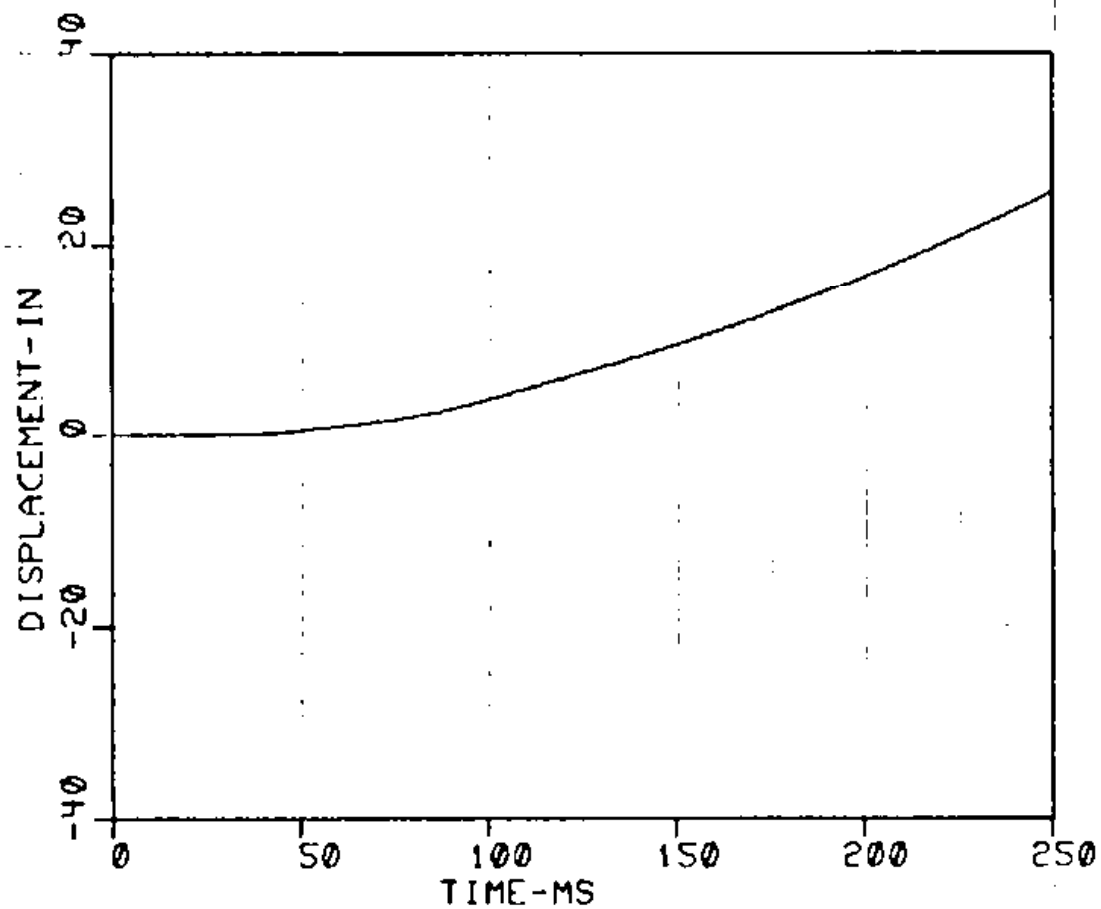
TEST#9327-6.2 VW MODRAB LF PIGZ



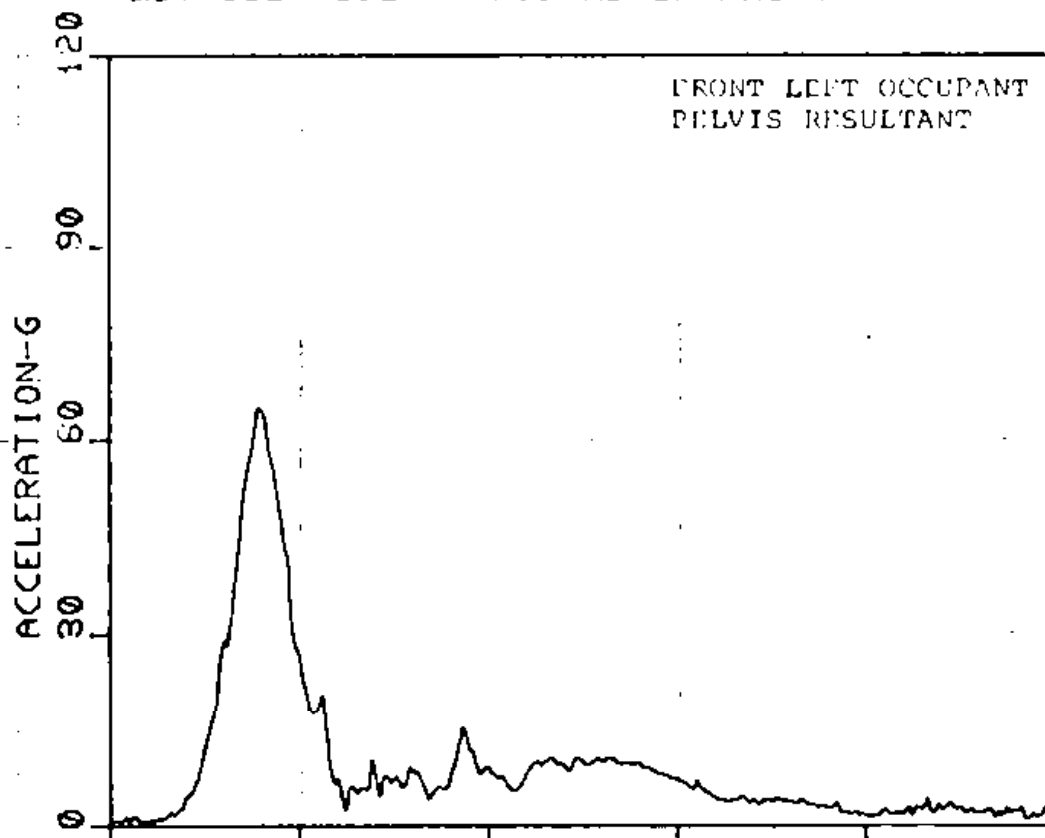
TEST#9327-6.2 VW MODRAB LF PIVZ



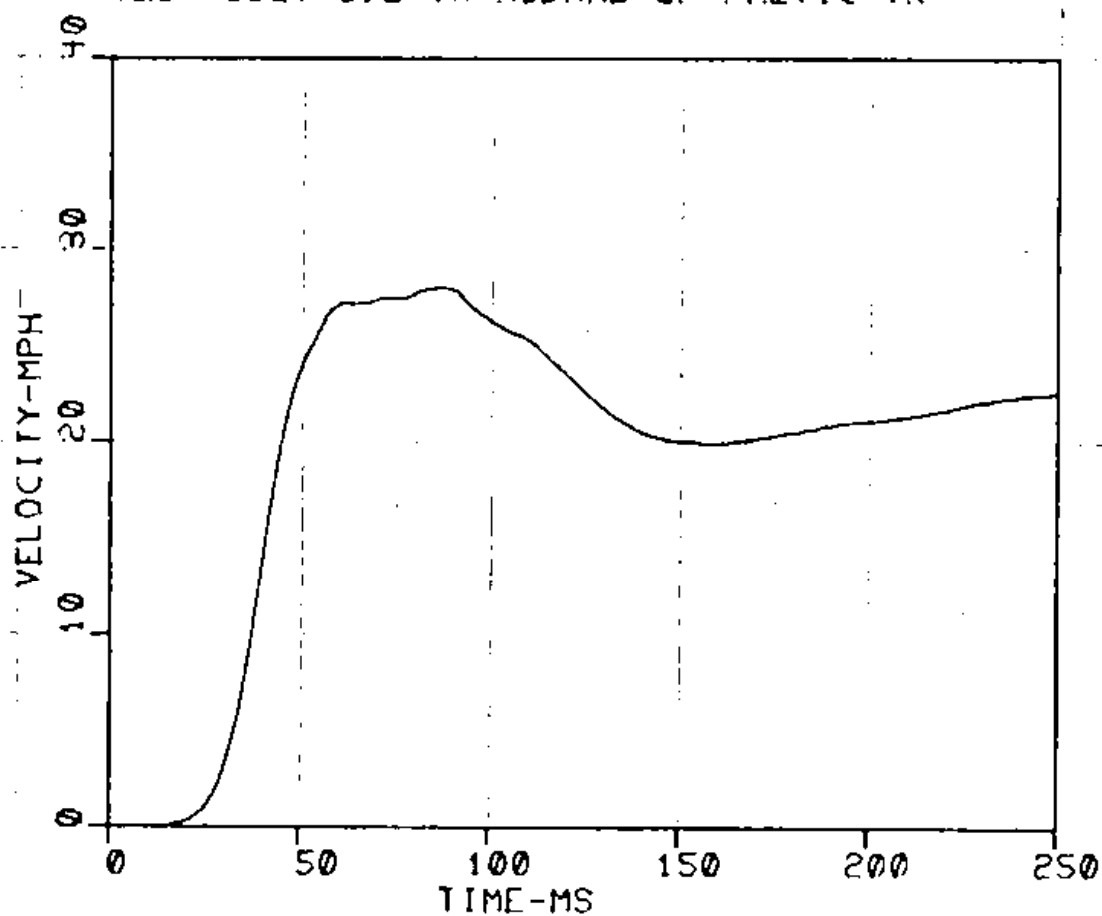
TEST#9327-6.2 VW MODRAB LF PISZ



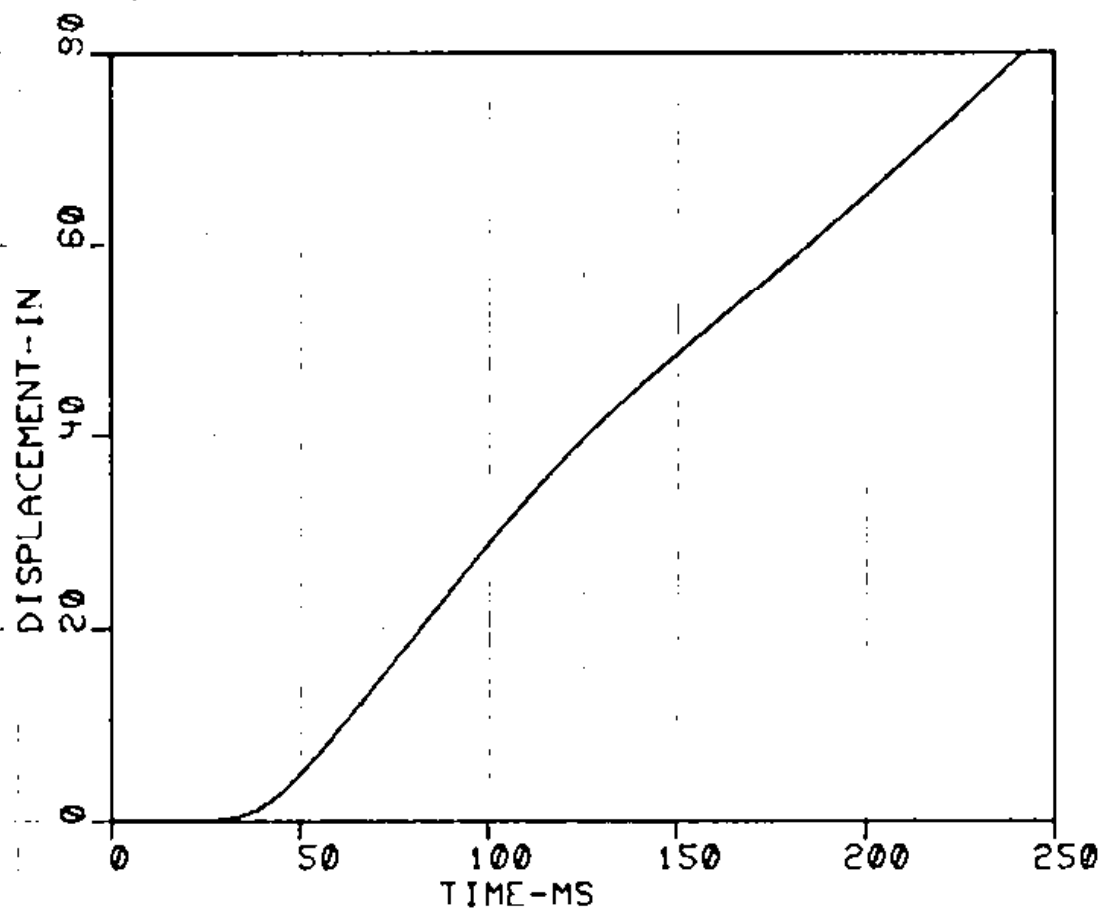
TEST#9327-6.2 VW MODRAB LF PELVIC AR



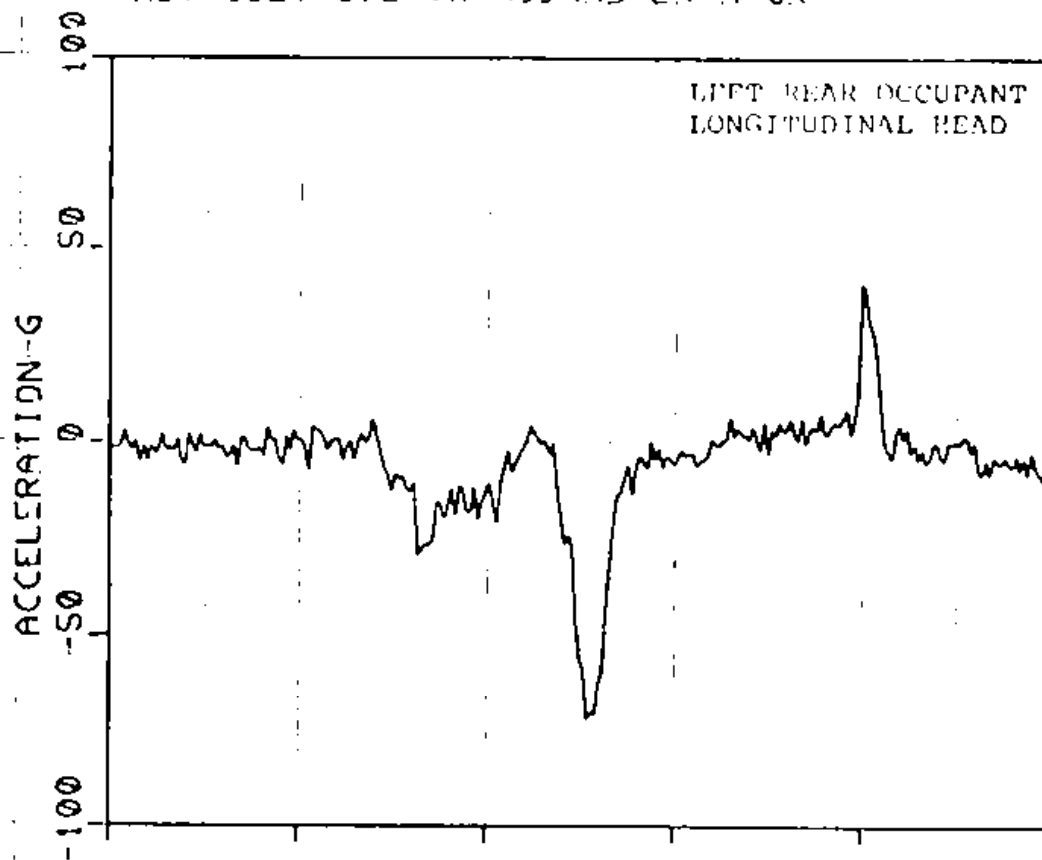
TEST#9327-6.2 VW MODRAB LF PELVIC VR



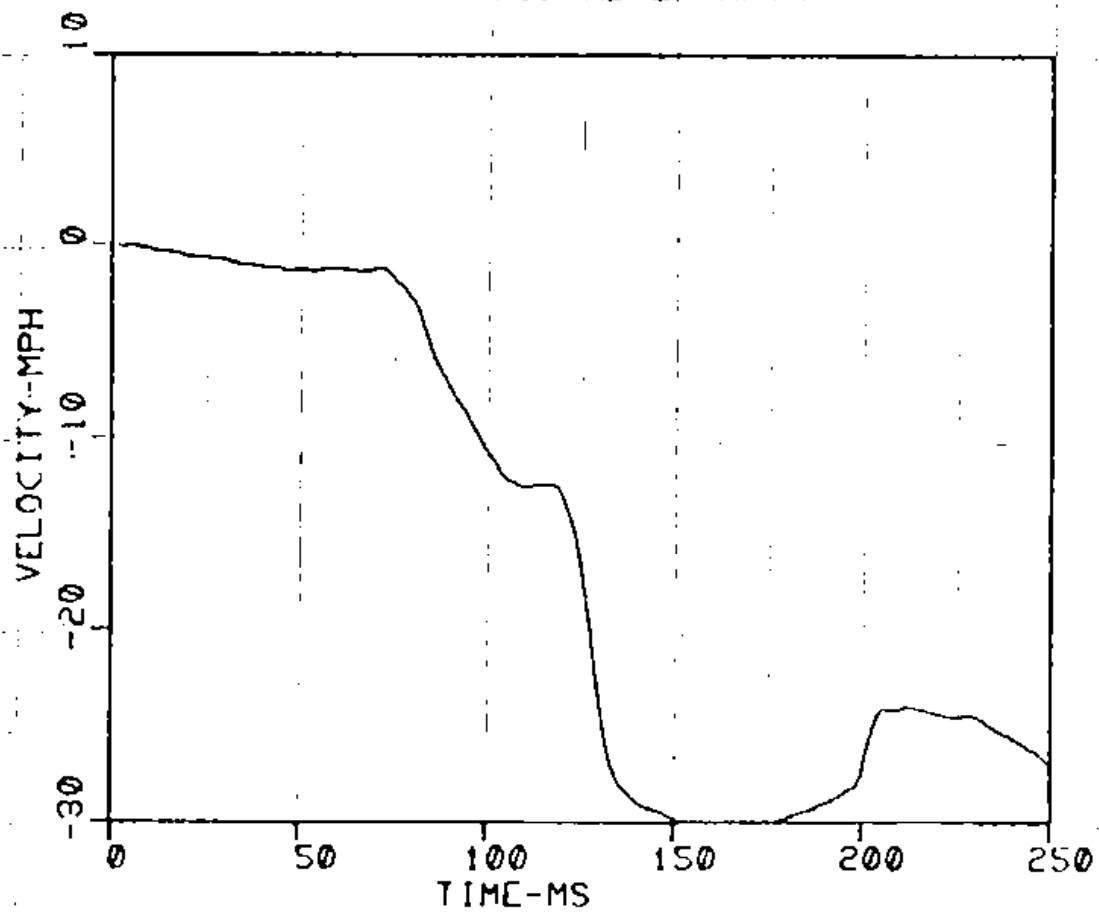
TEST#8327-B.2 VW MODRAB LF PELVIC SR



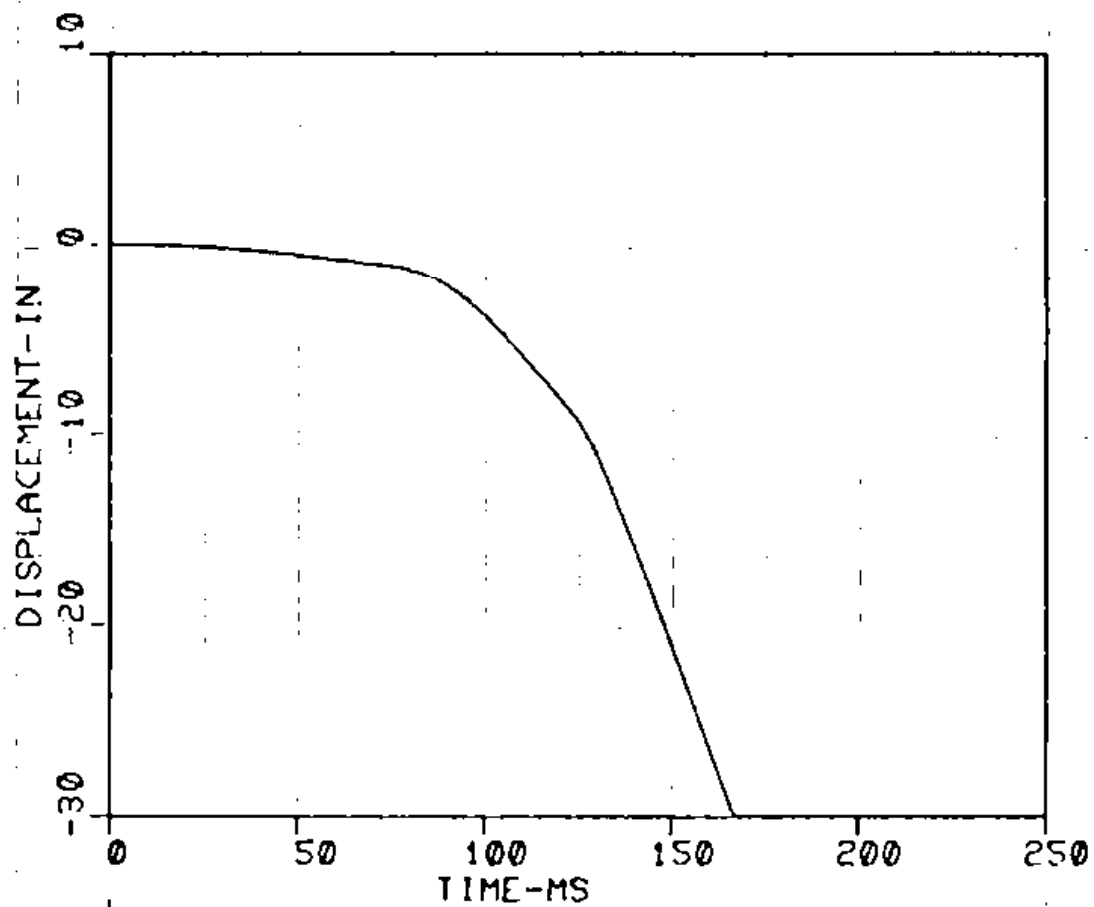
TEST#9327-6.2 VW MODRAB LR HPGX



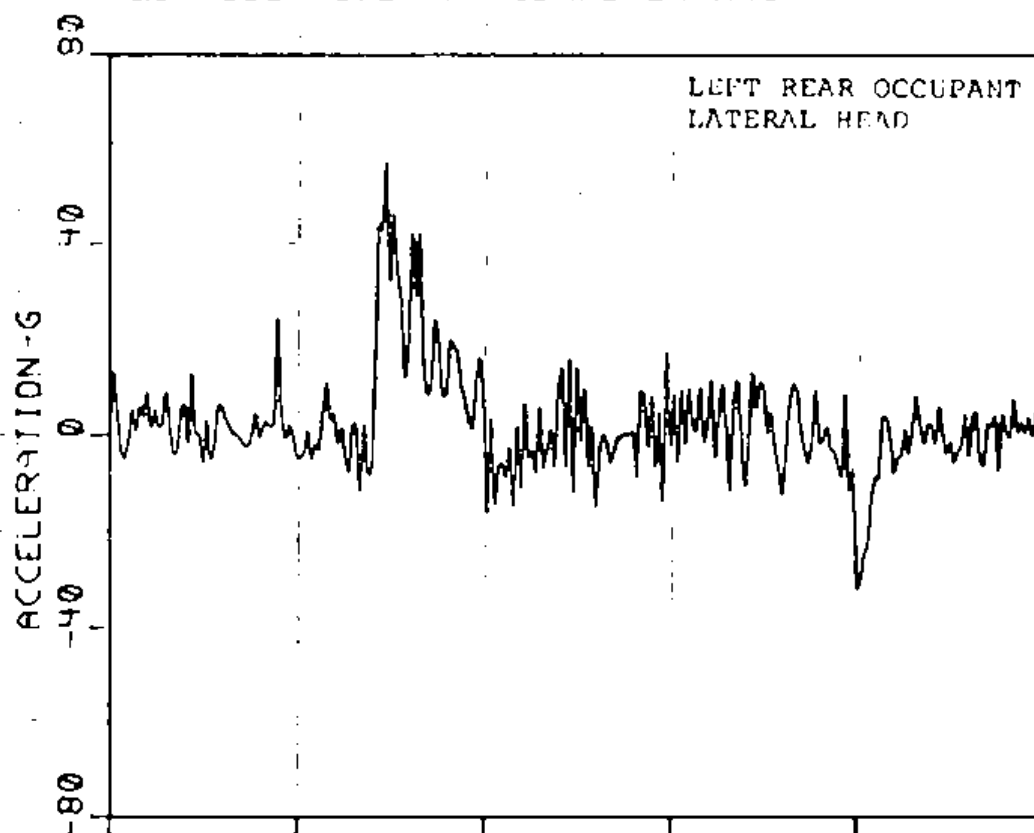
TEST#9327-6.2 VW MODRAB LR HPVX



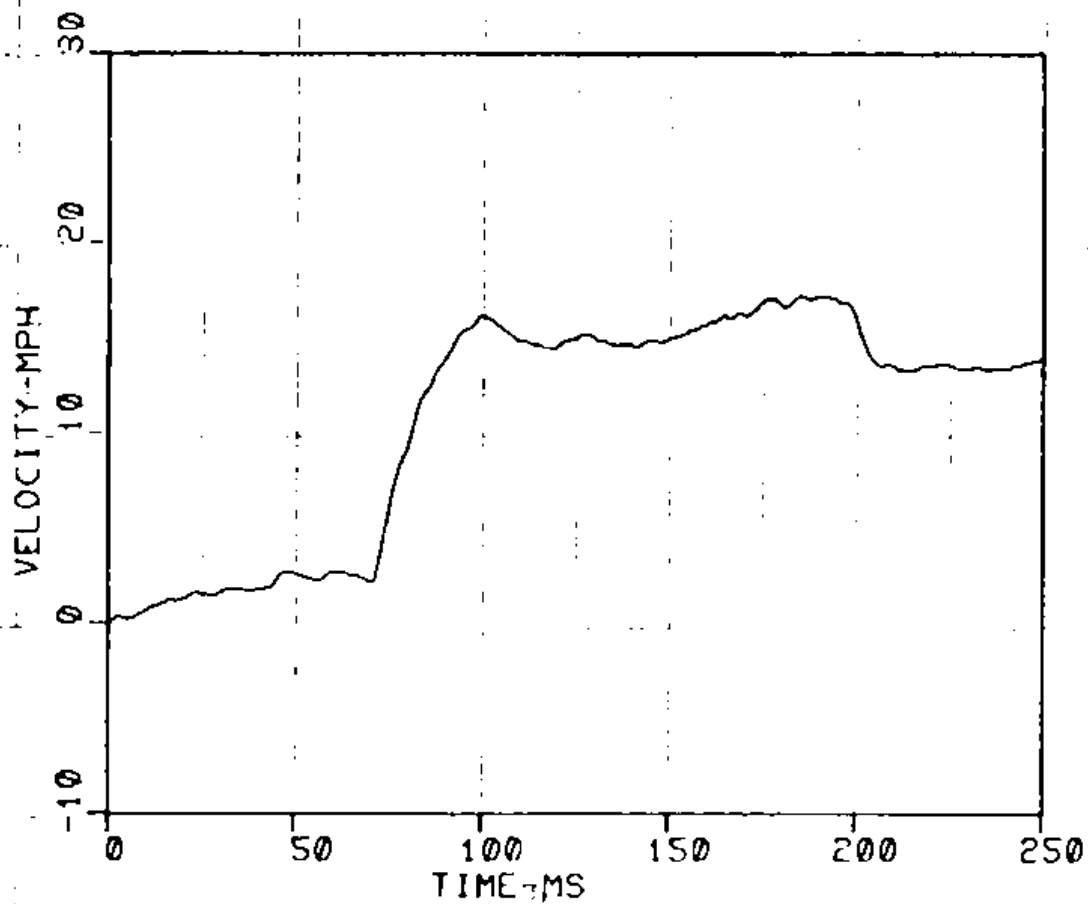
TEST#9327-6.2 VW MODRAB LR HPSX



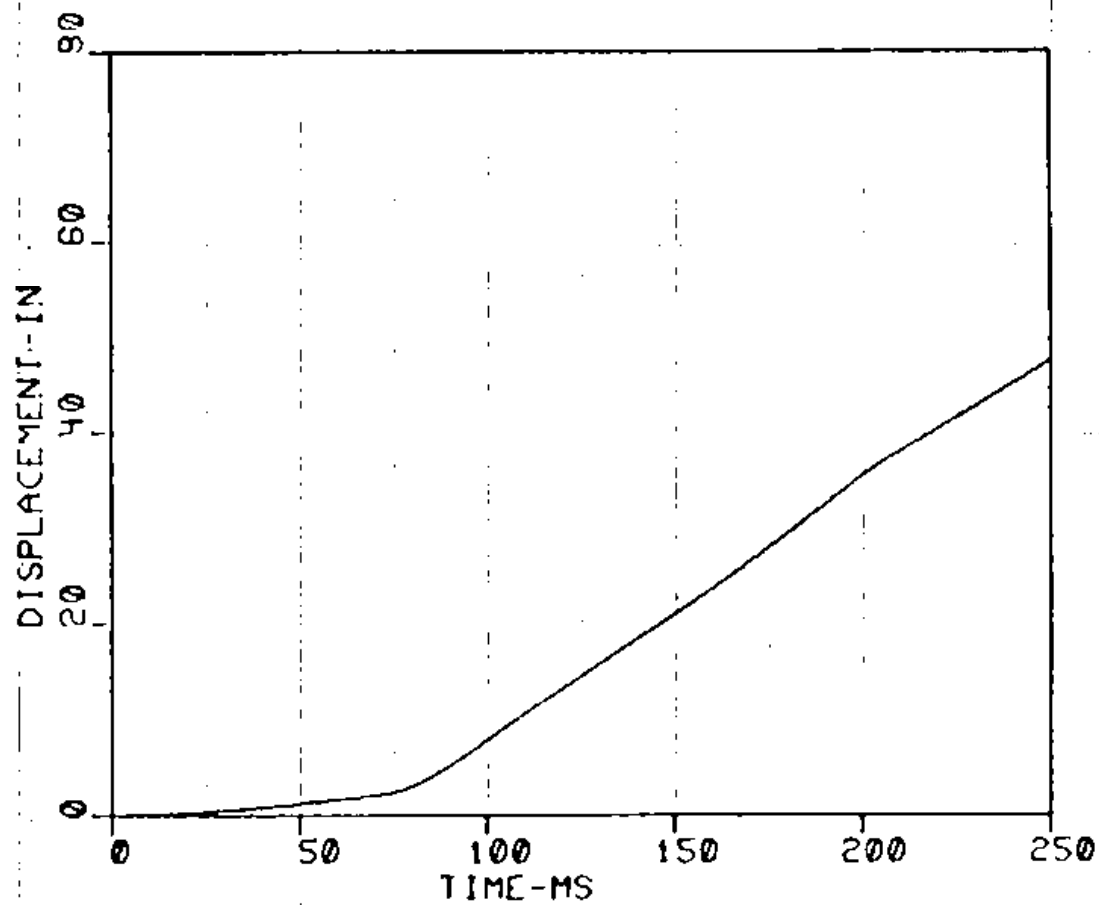
TEST#9327-6.2 VW MODRAB LR HRGY



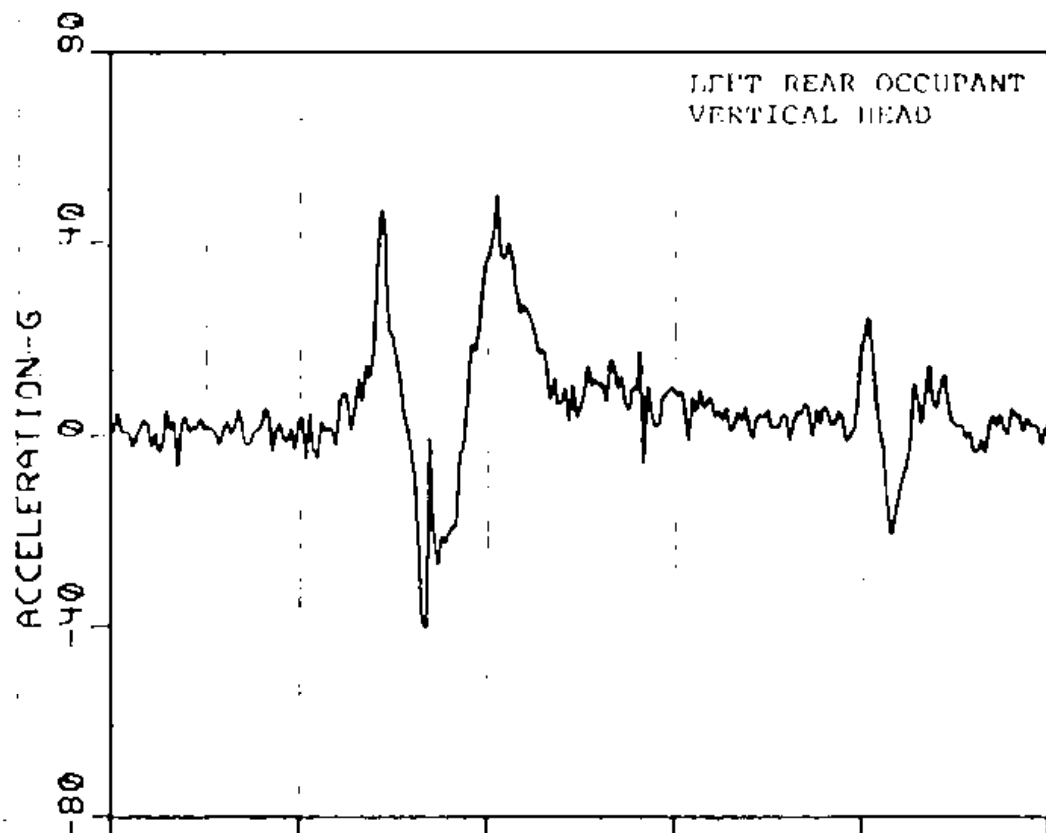
TEST#9327-6.2 VW MODRAB LR HRVY



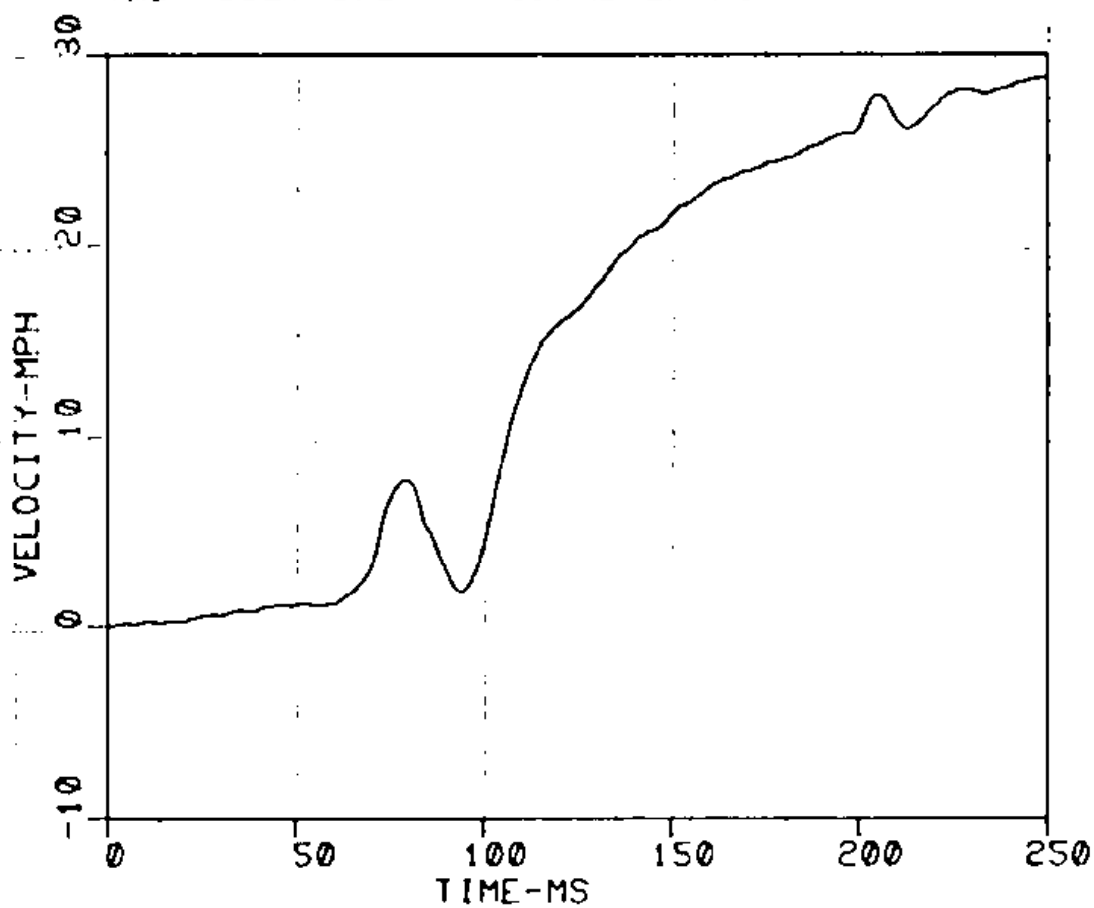
TEST#9327-6.2 VW MODRAB LR HRSY



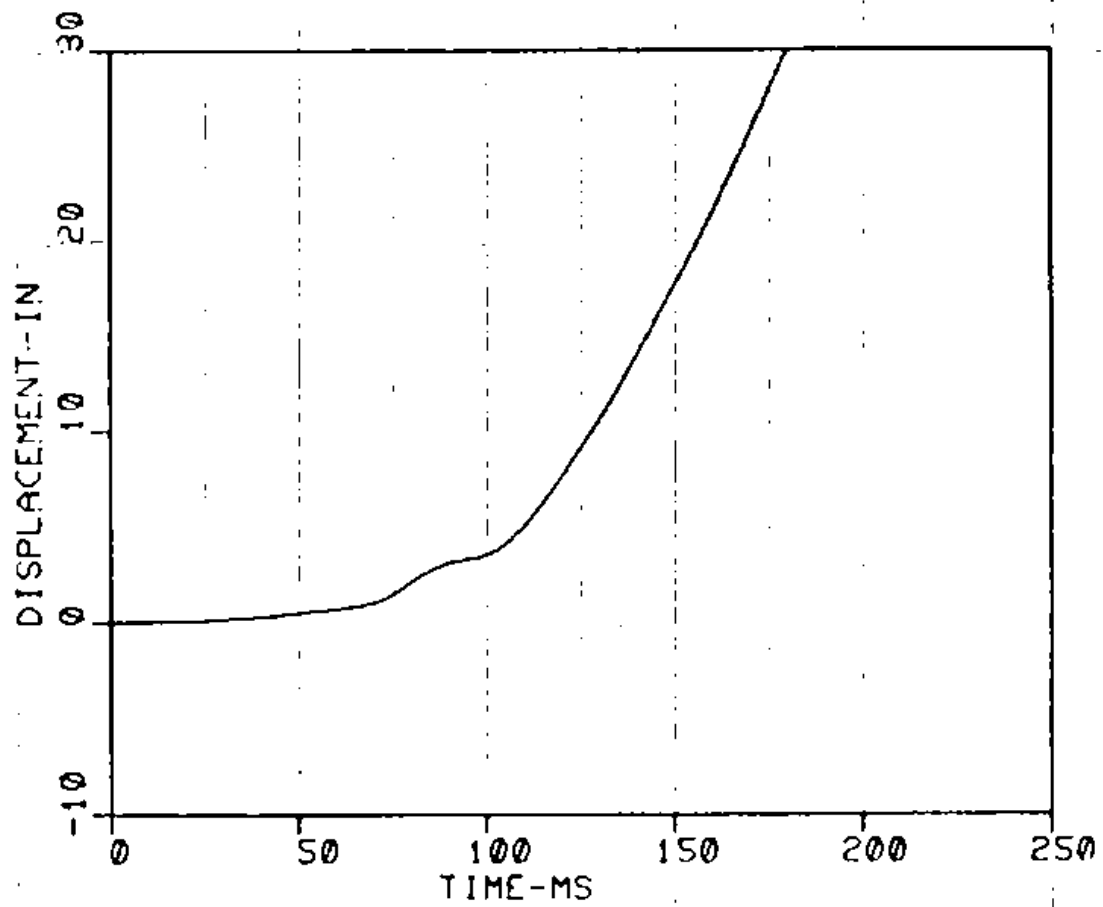
TEST#9327-6.2 VW MODRAB LR HIGZ



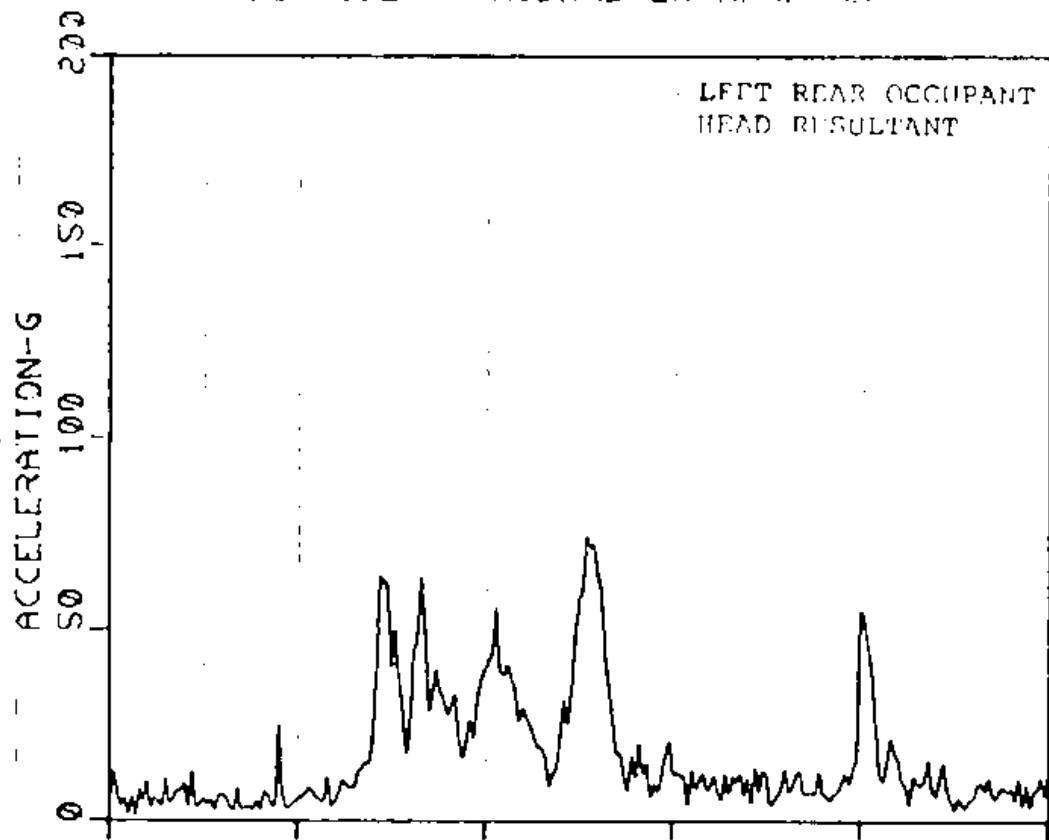
TEST#9327-6.2 VW MODRAB LR HIGZ



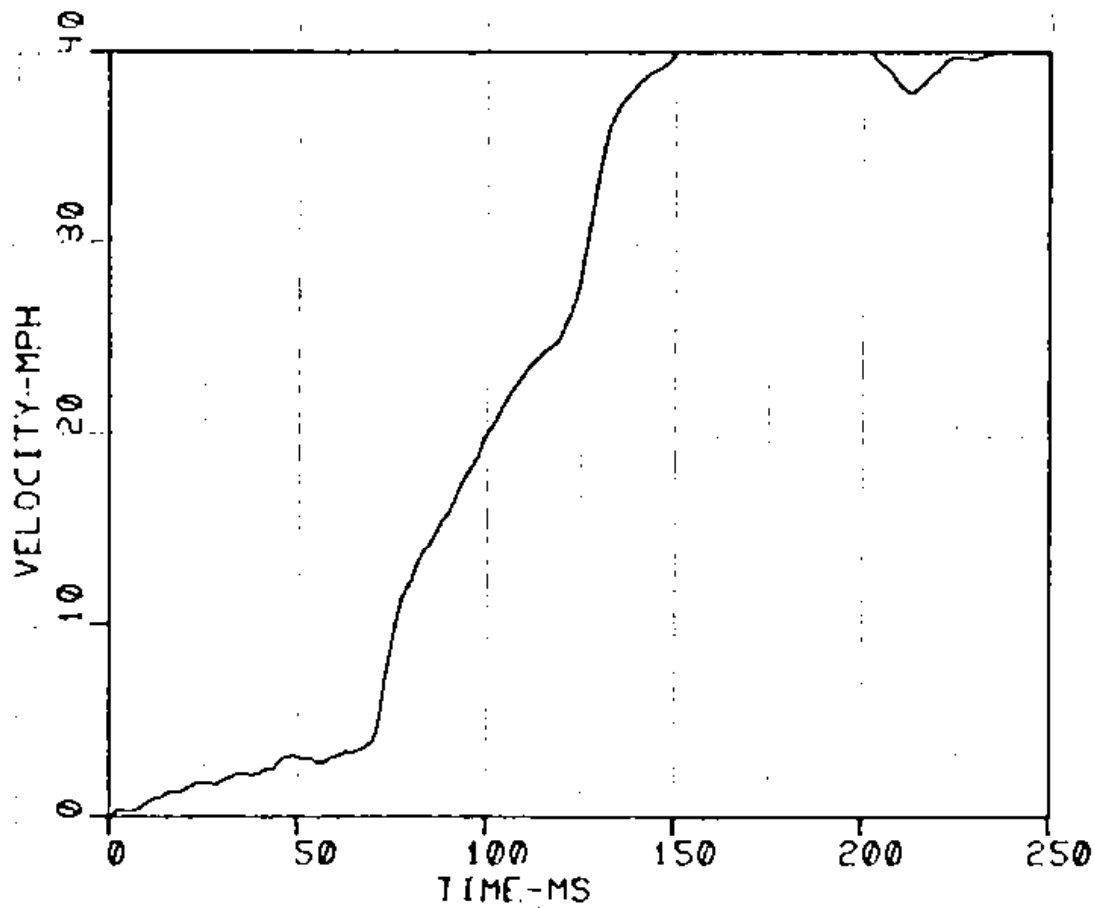
TEST#8327-6.2 VW MODRAB LR HISZ



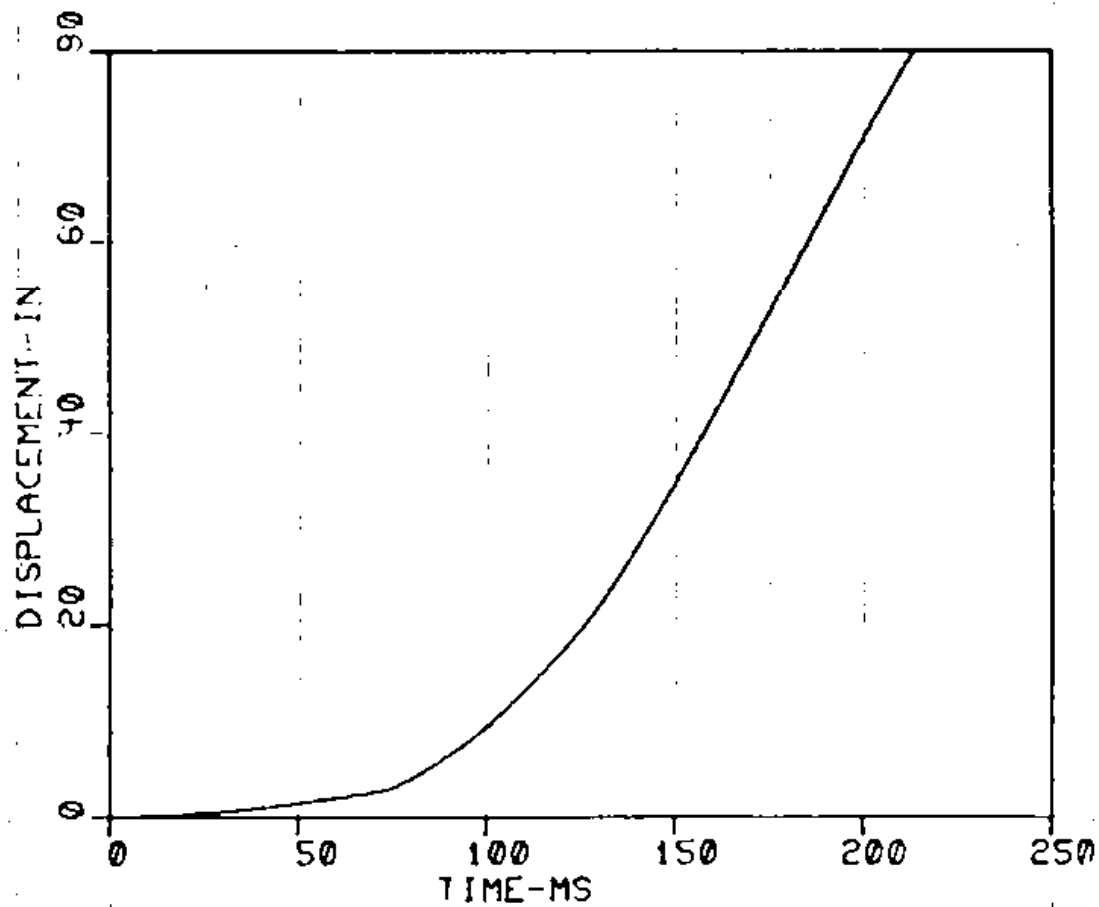
TEST#9327-6.2 VW MODRAB LR HEAD AR



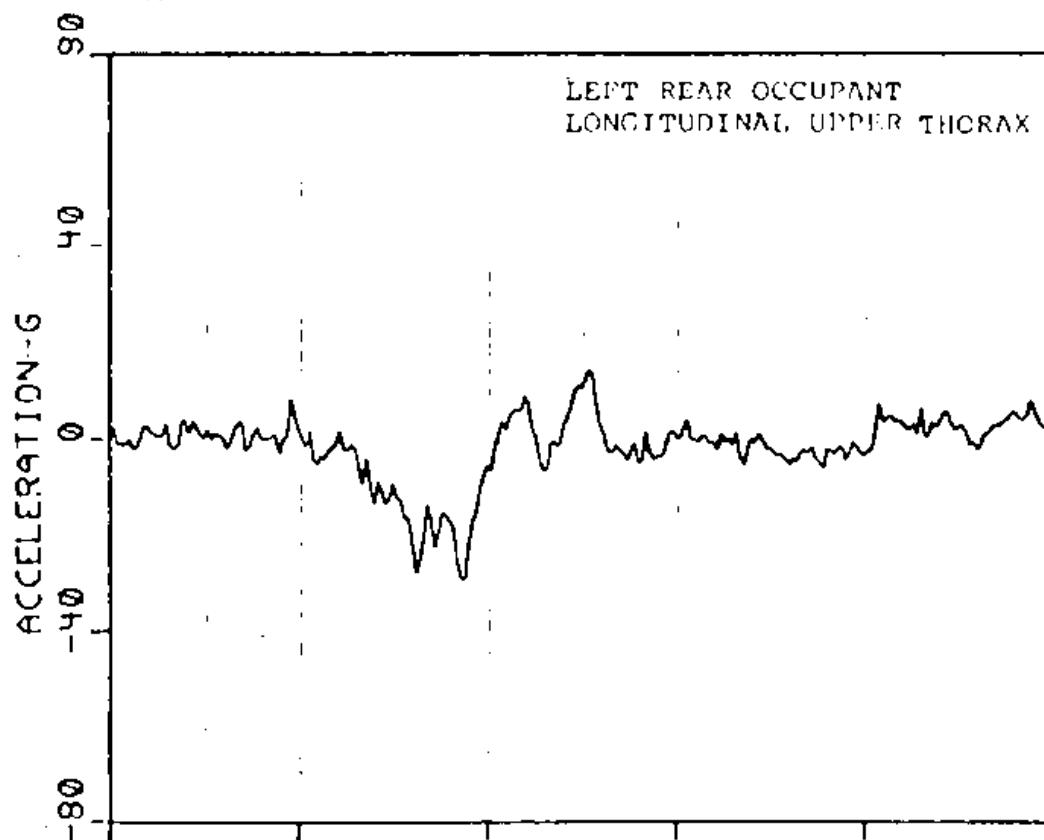
TEST#9327-6.2 VW MODRAB LR HEAR VR



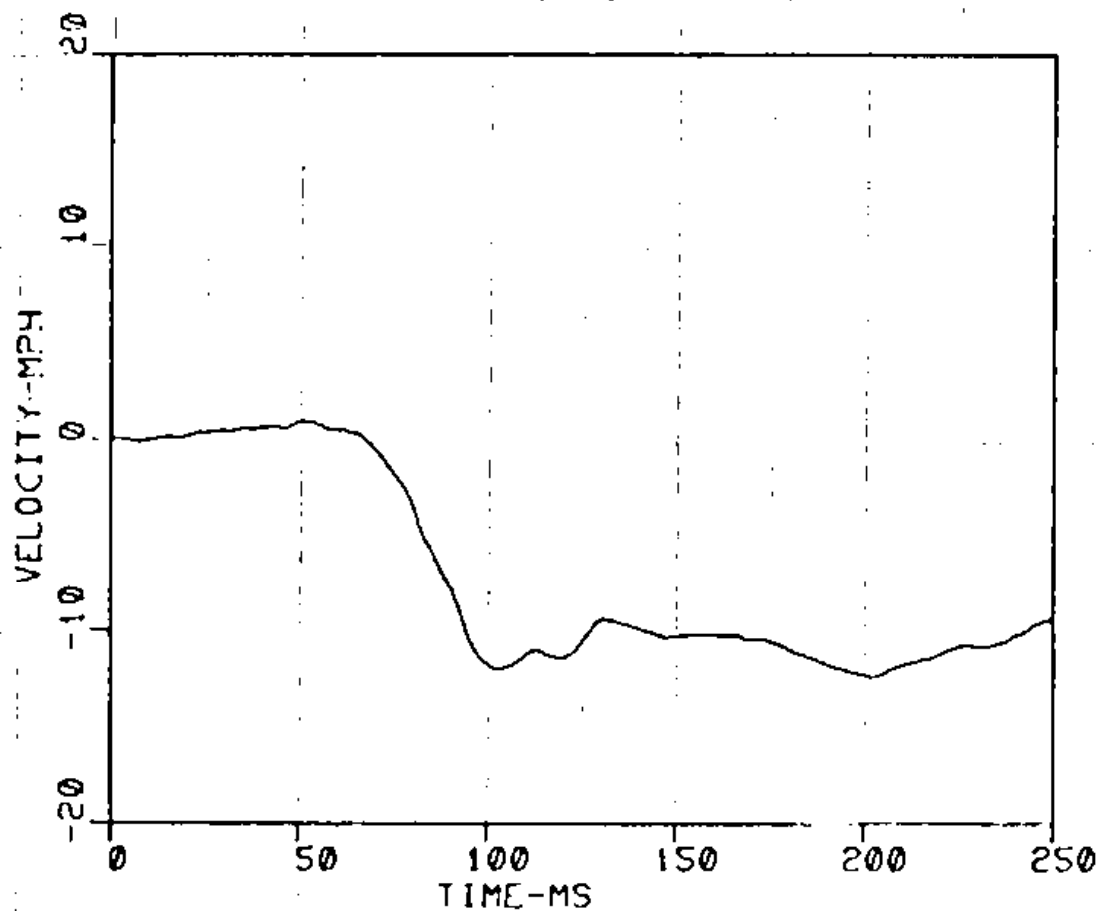
TEST#8327-6.2 VW MODRAB LR HEAD SR



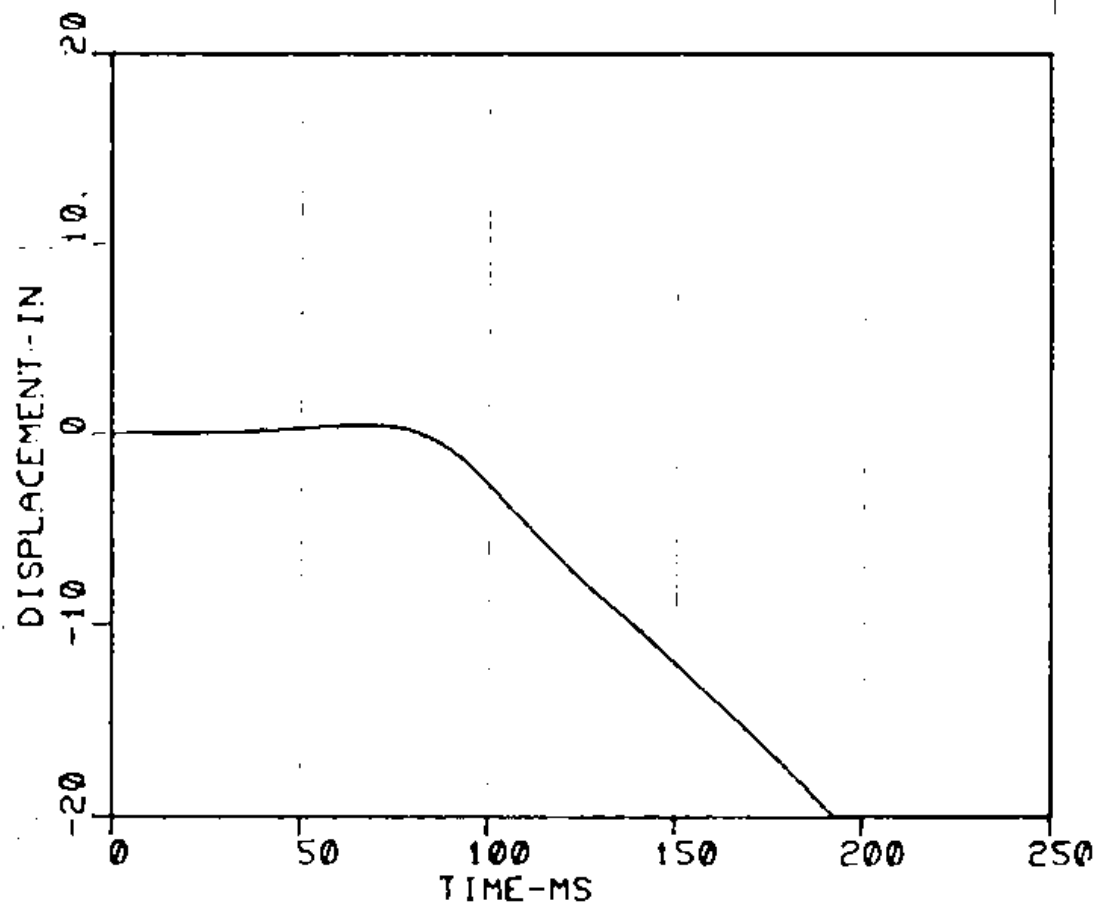
TEST#9327 6.2 VW MODRAB LR 1PGX



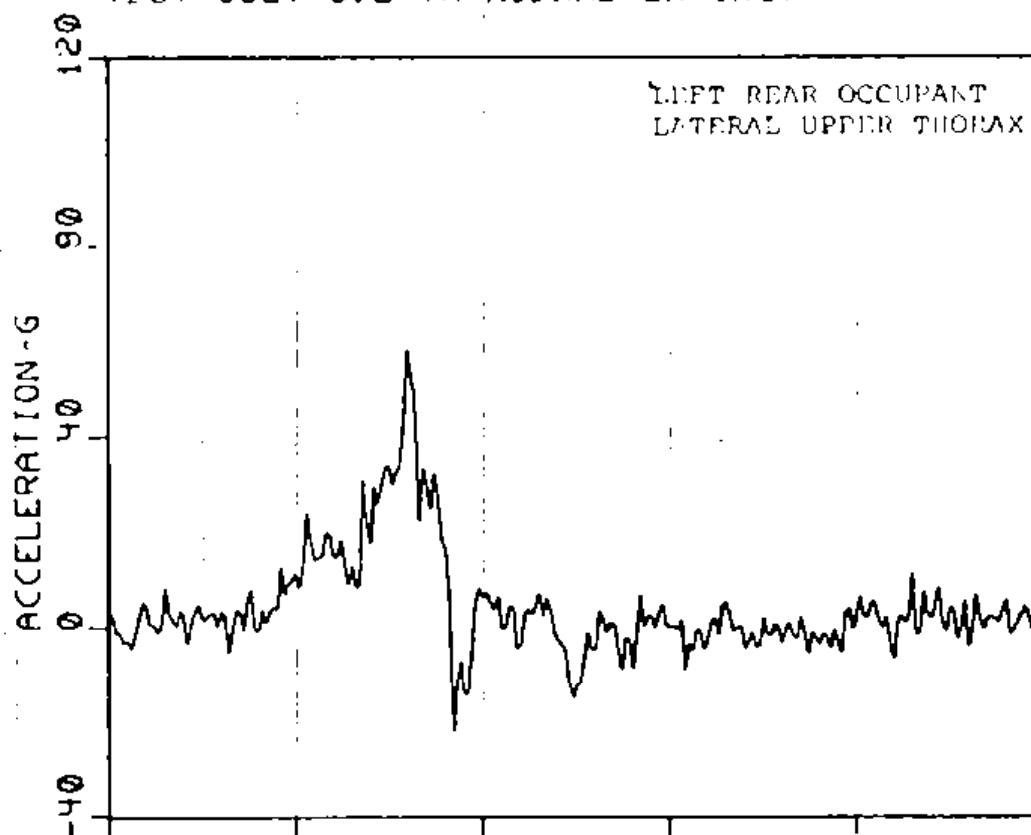
TEST#9327 6.2 VW MODRAB LR 1PVX



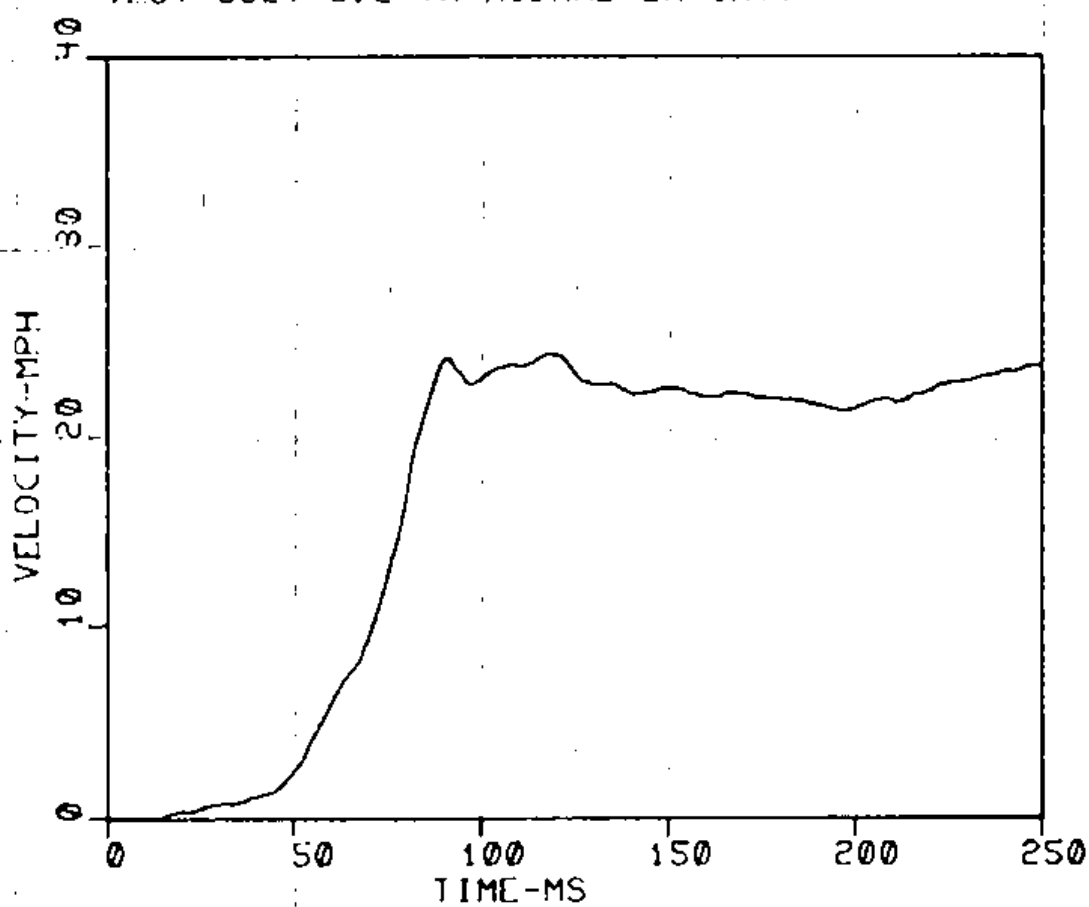
TEST#9327-6.2 VW MODRAB LR 1PSX



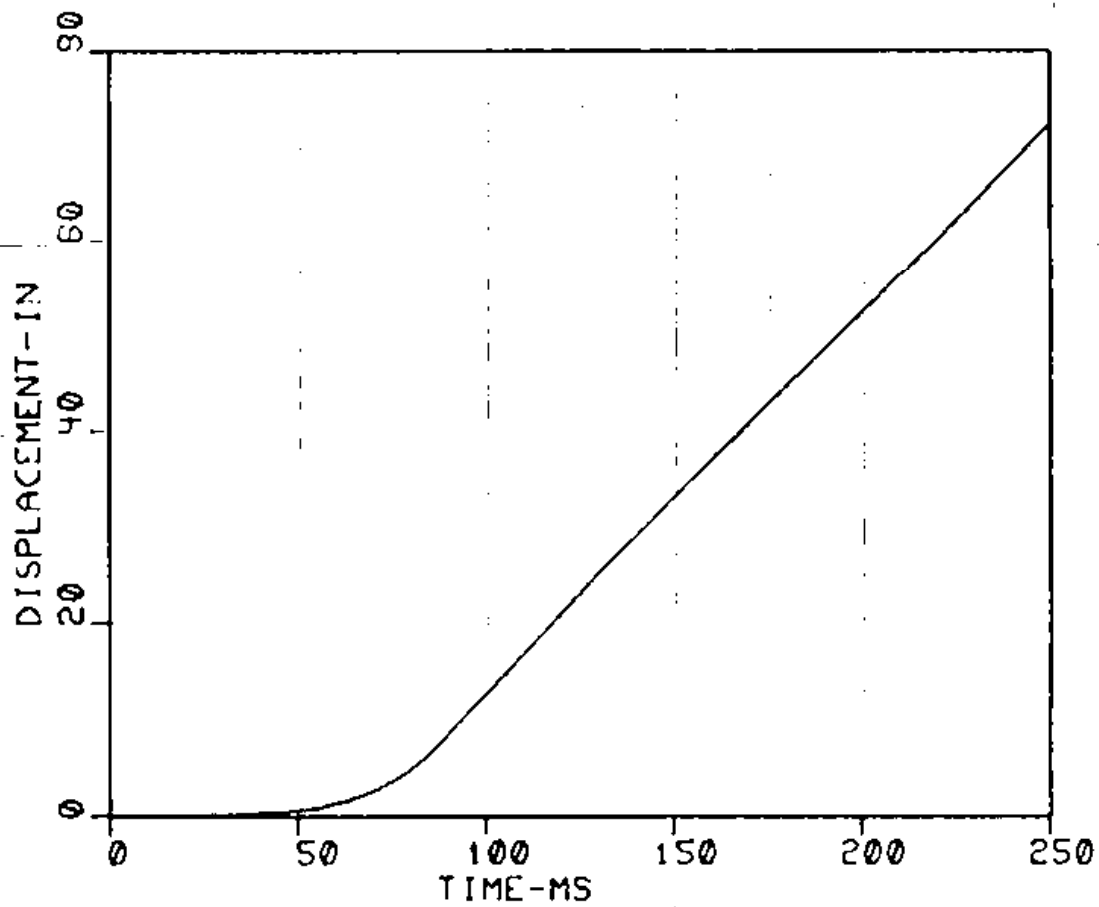
TEST#9327-B.2 VW MODRAB LR 1RGY



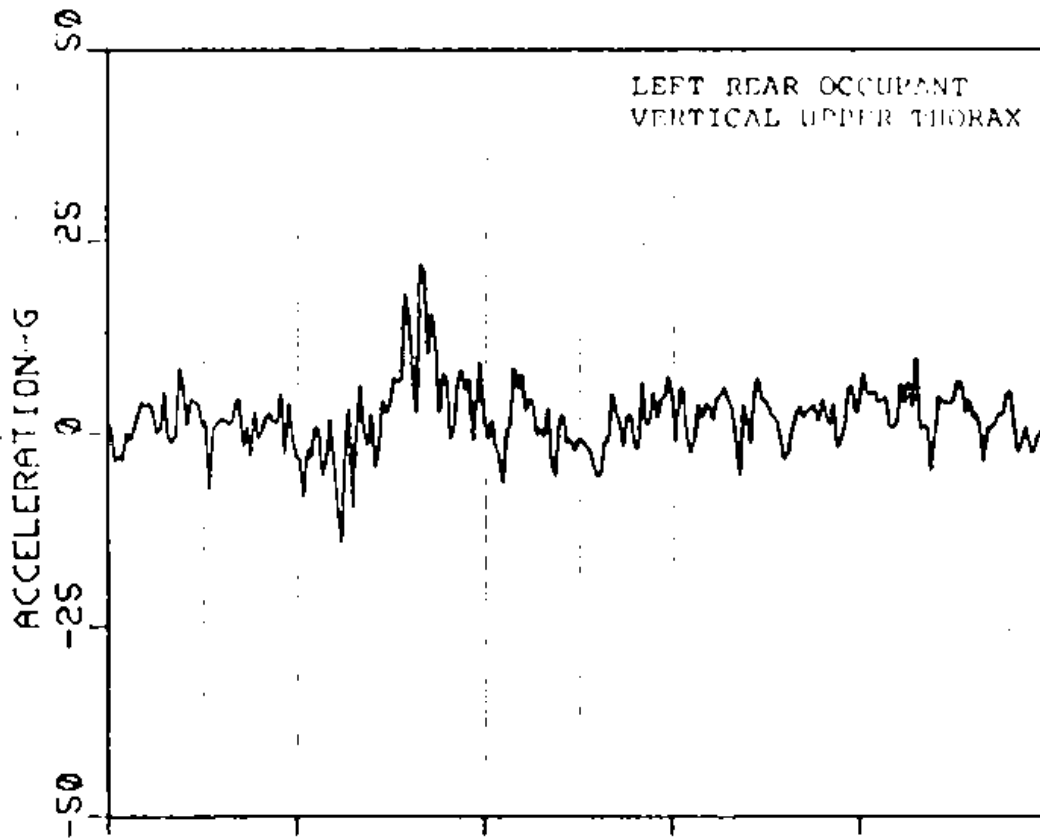
TEST#9327-B.2 VW MODRAB LR 1RVY



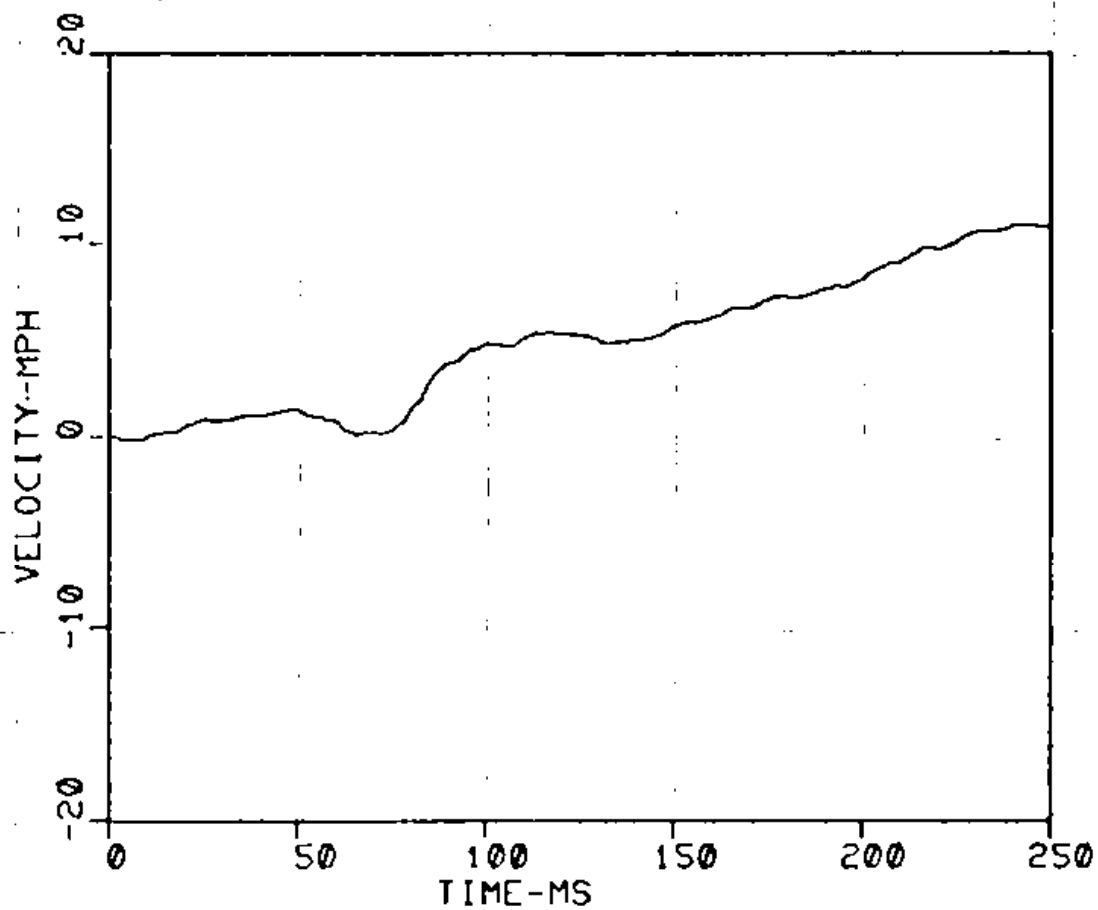
TEST#8327-6.2 VW MODRAB LR 1RSY



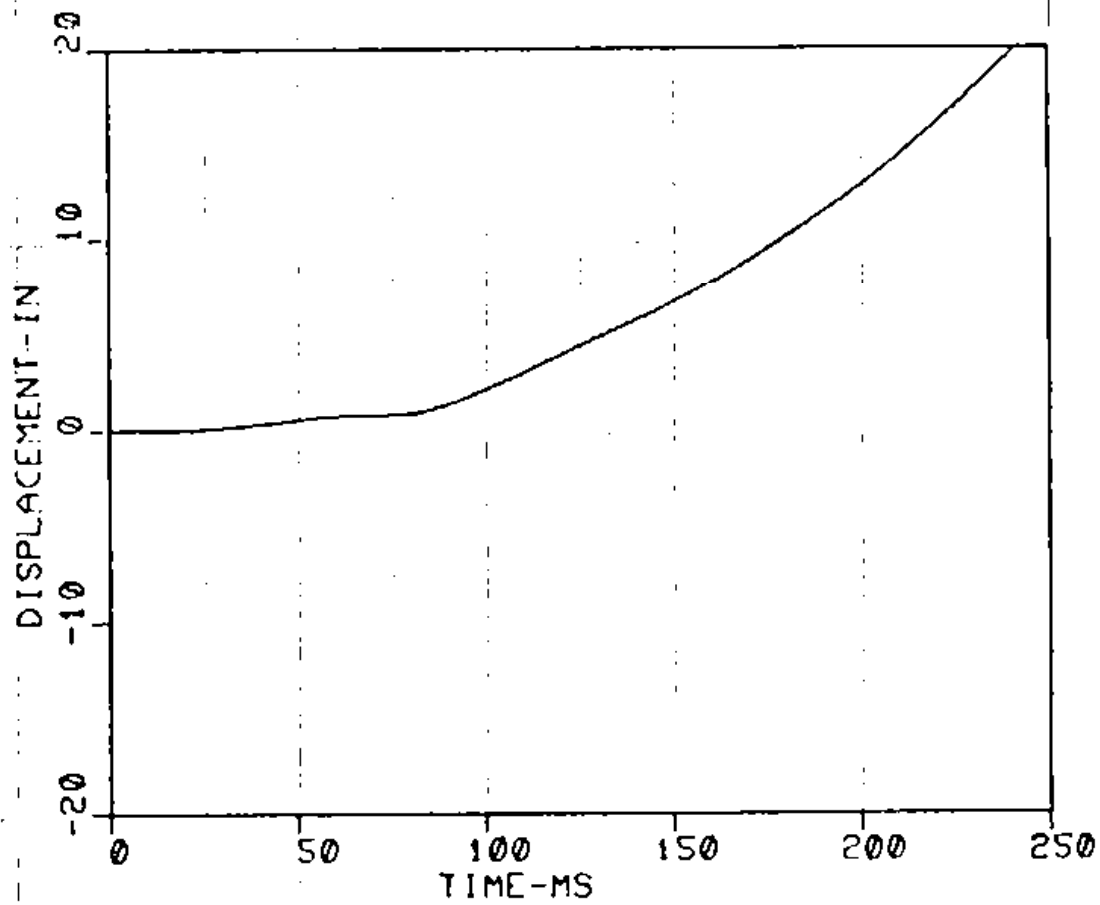
TEST#8327-6.2 VW MODRAB LR 11GZ



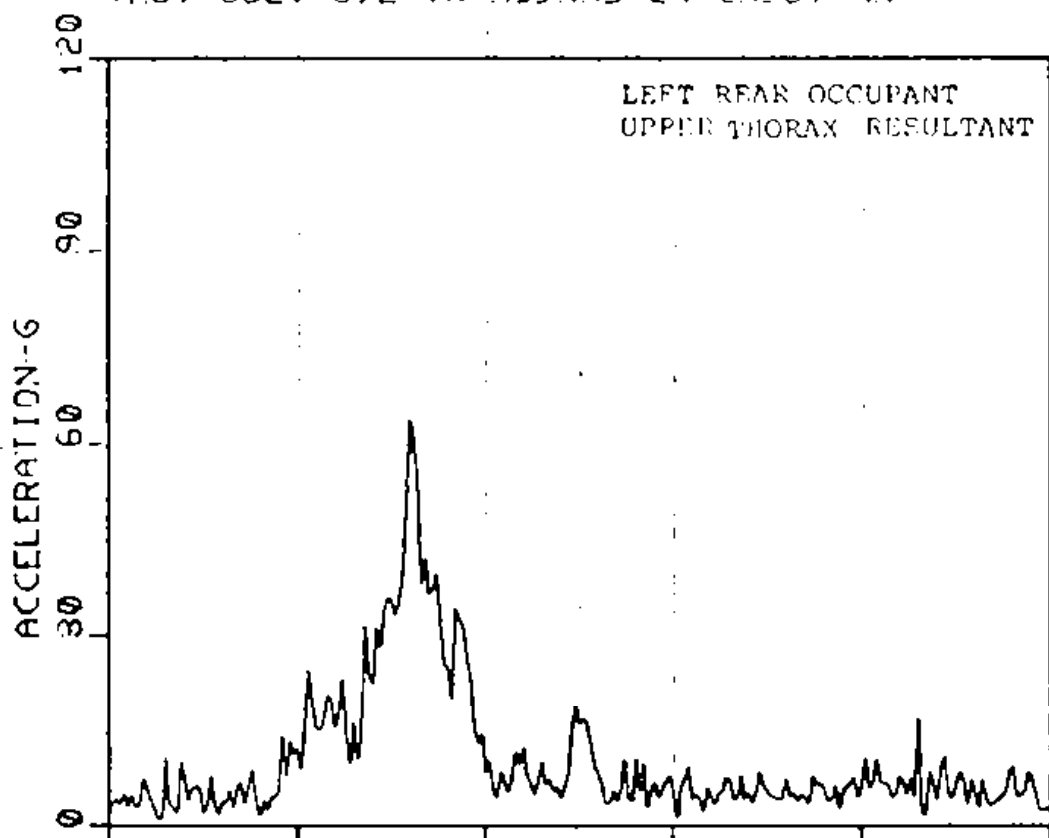
TEST#8327-6.2 VW MODRAB LR 11VZ



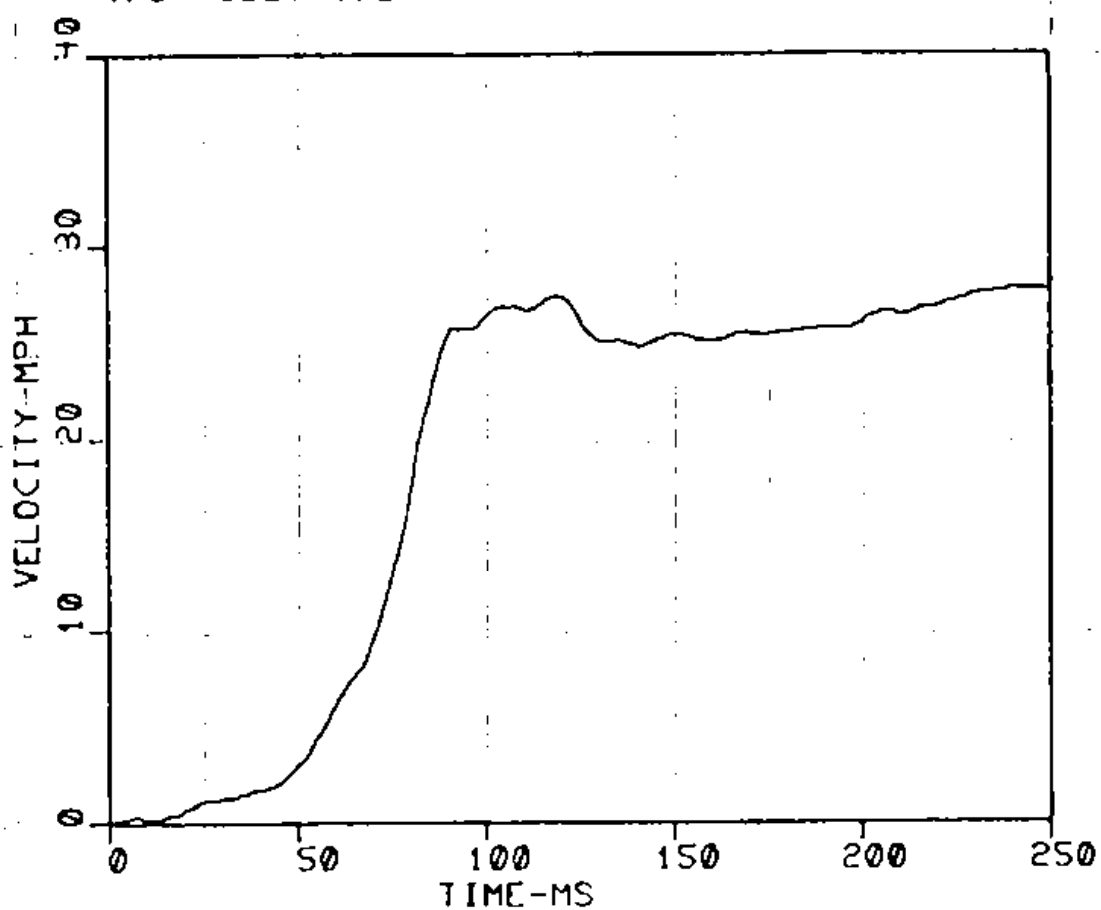
TEST#9327-6.2 VW MODRAB LR 11SZ



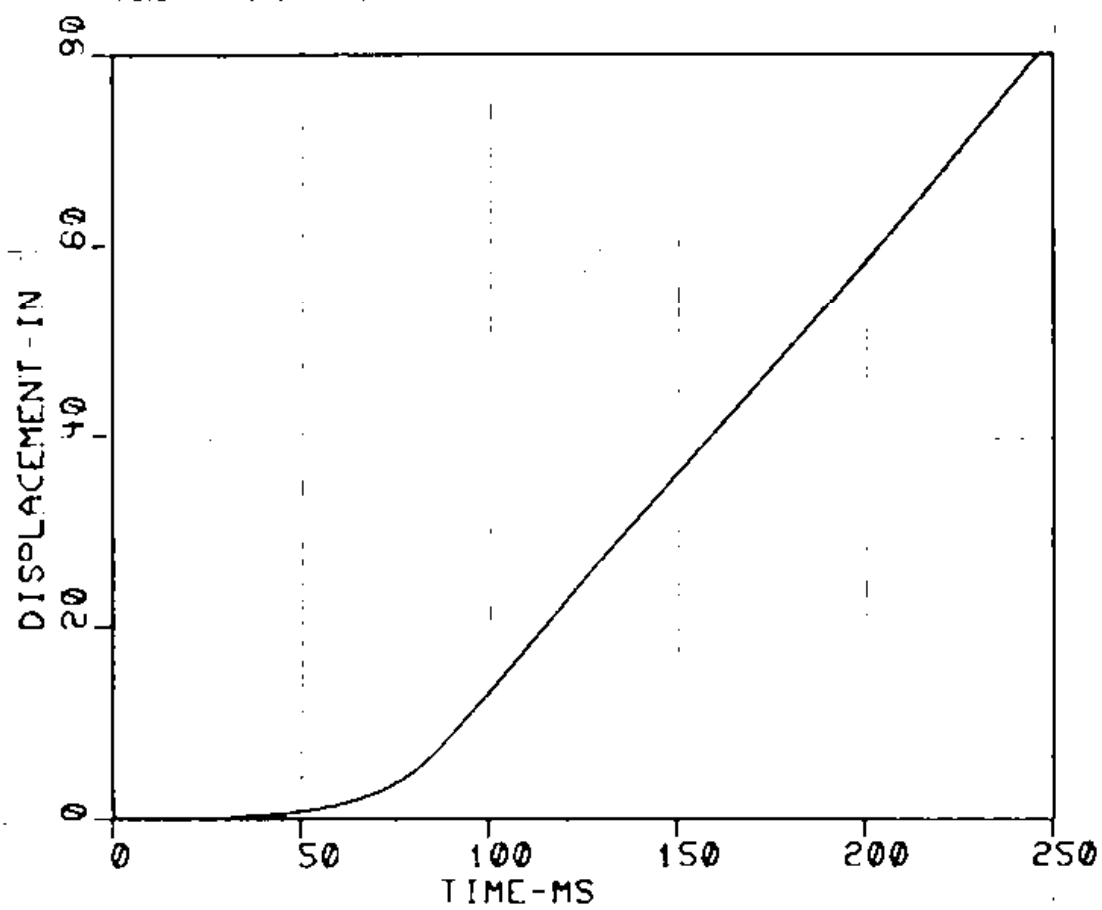
TEST#9327-6.2 VW MODRAB LR CHEST AR



TEST#9327-6.2 VW MODRAB LR CHST VR

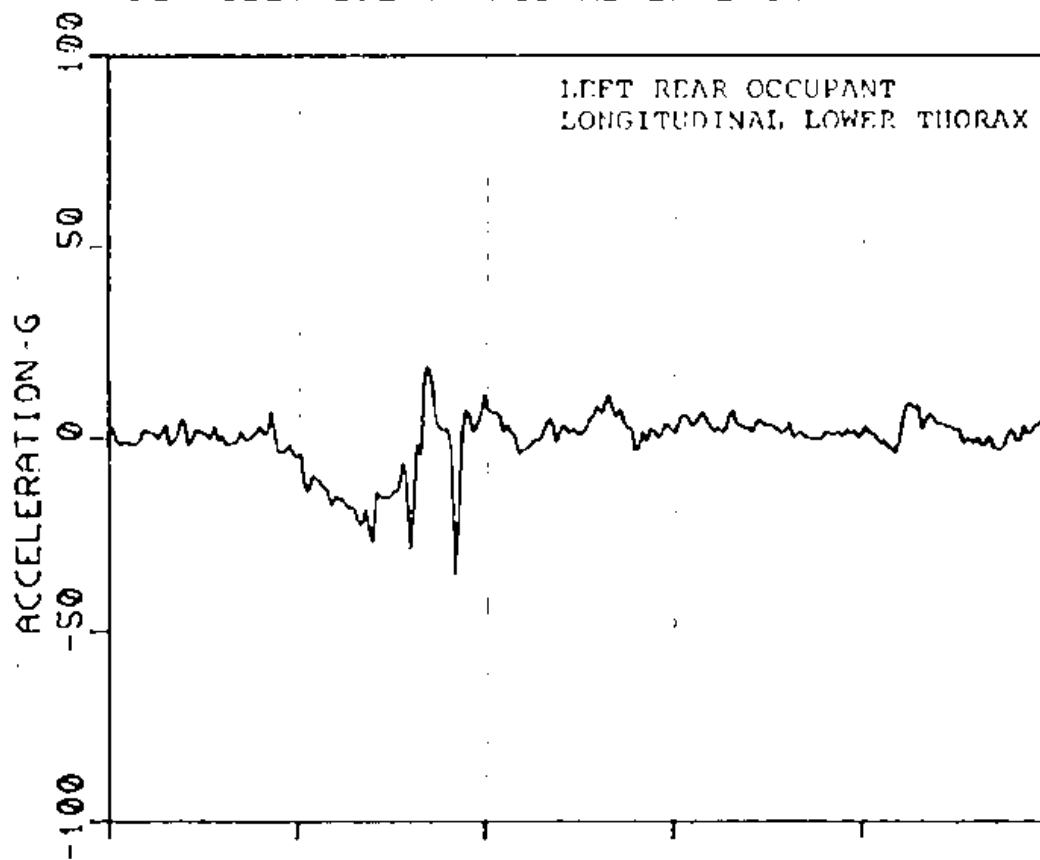


TEST#8327-6.2 VW MODRAB LR CHEST SR

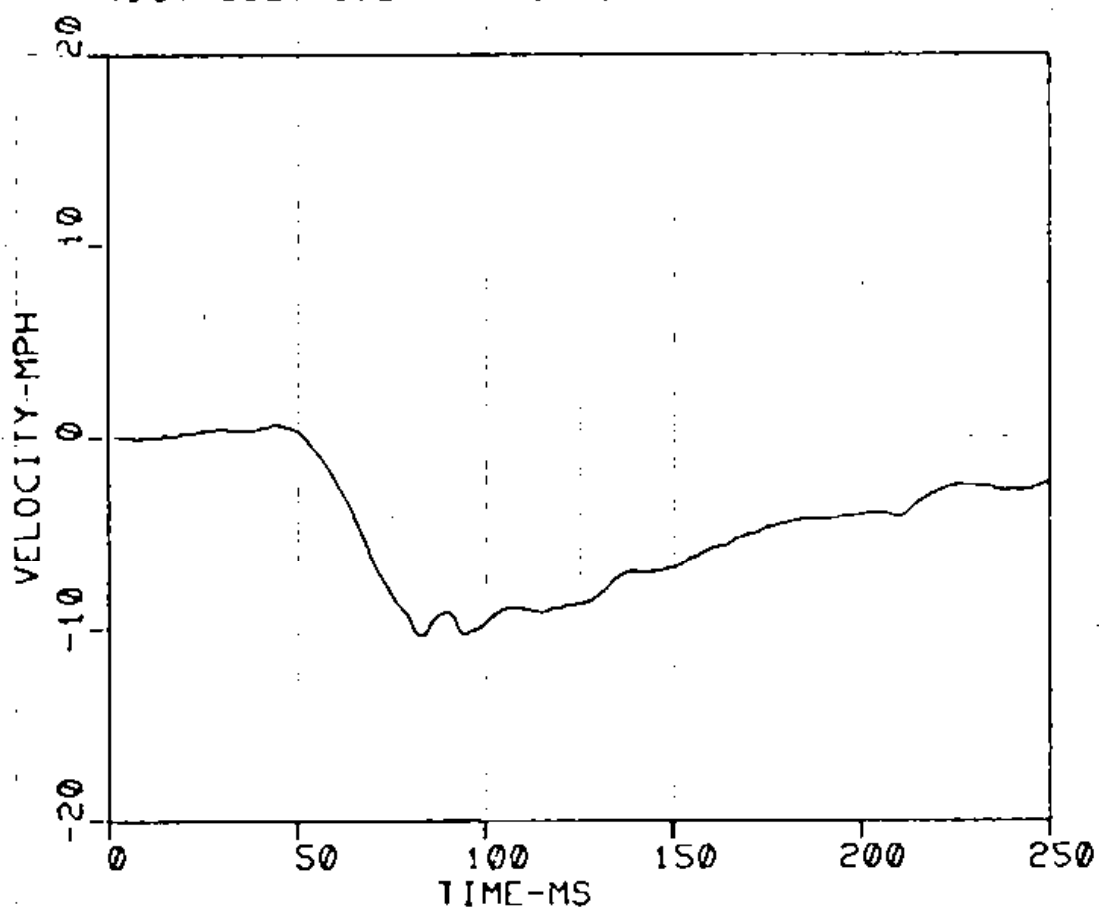


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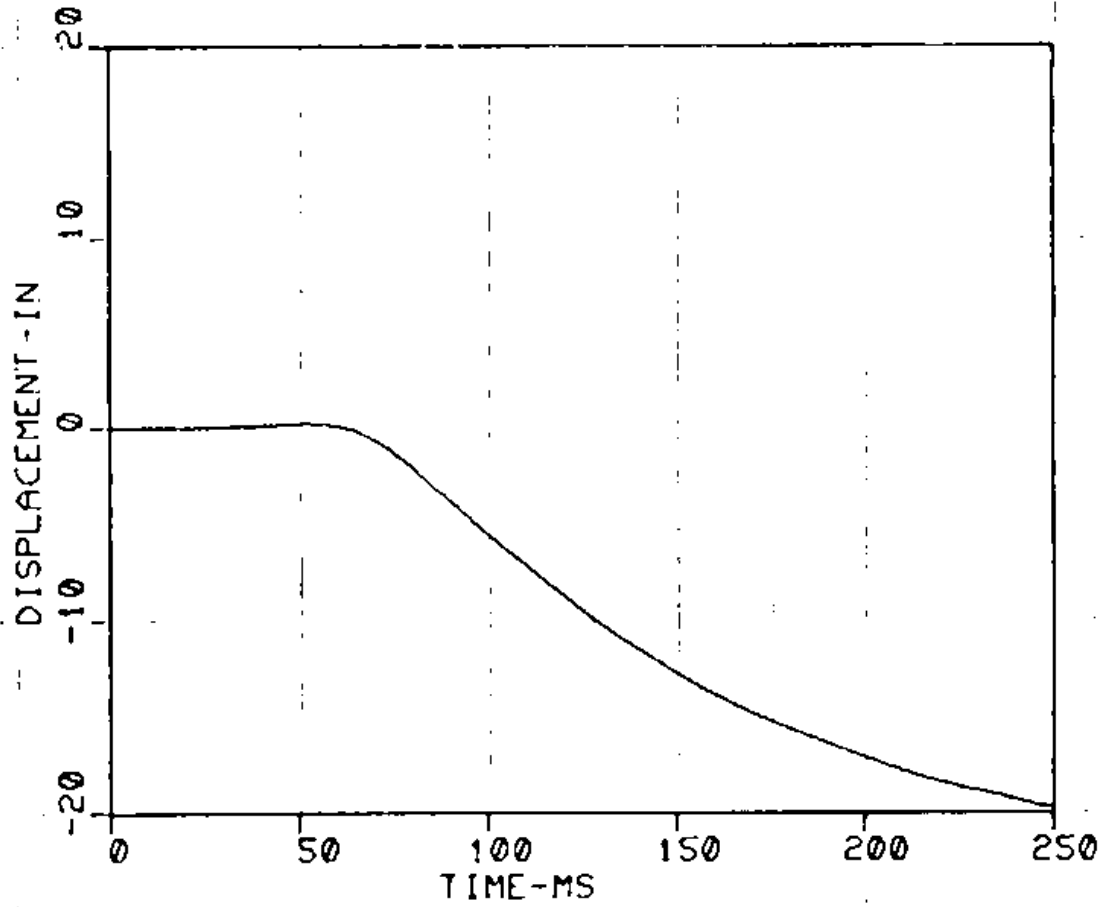
TEST#8327-6.2 VW MODRAB LR 2PGX



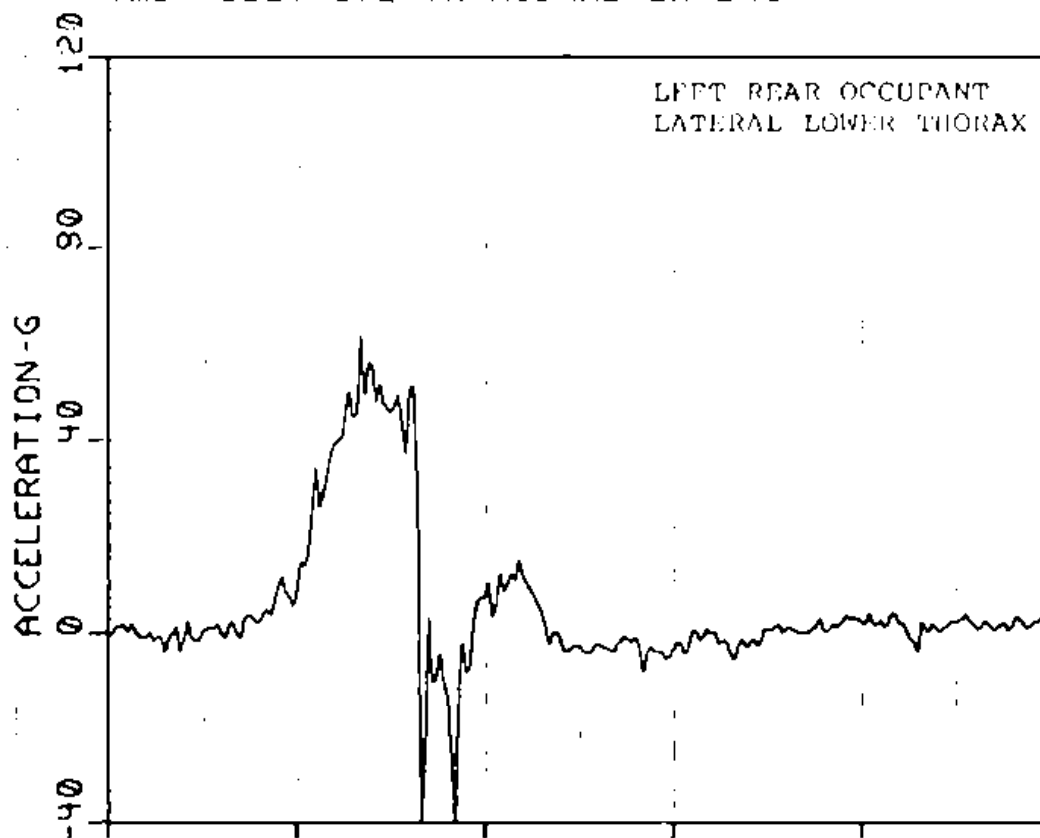
TEST#8327-6.2 VW MODRAB LR 2PVX



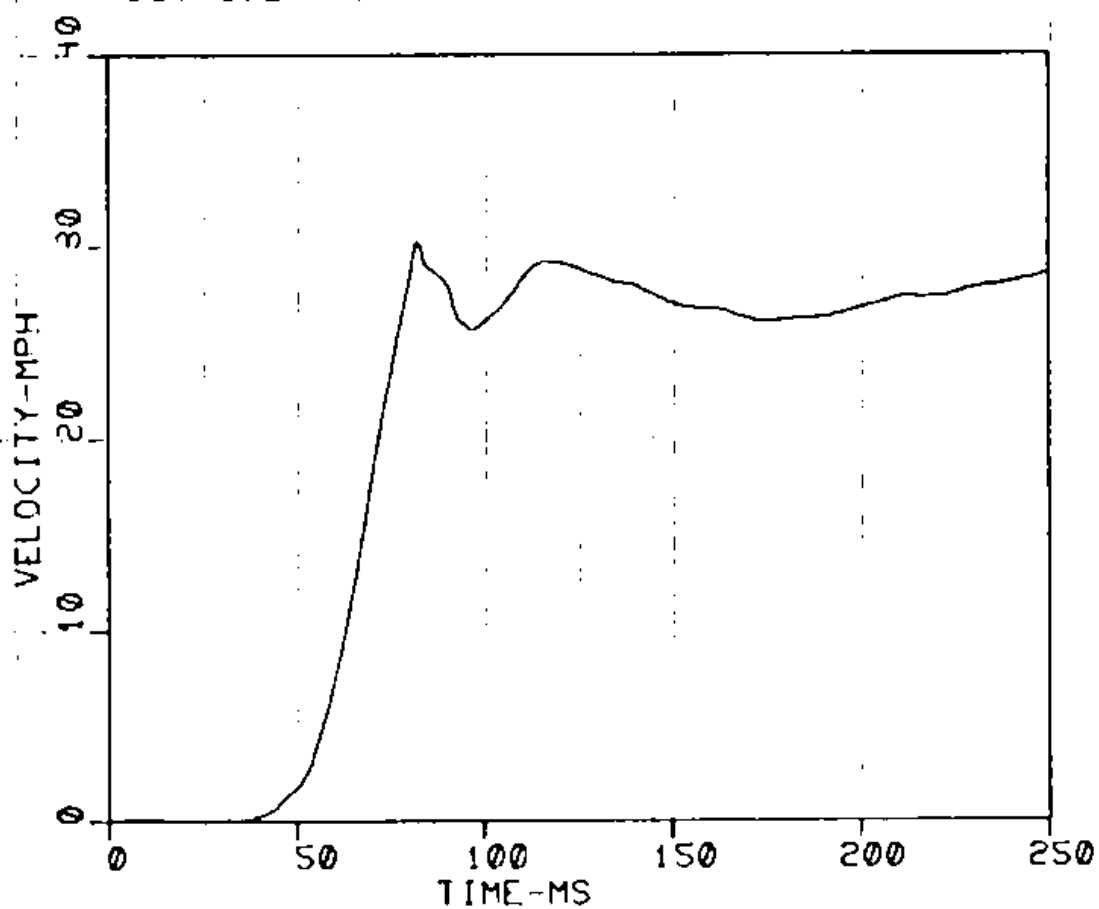
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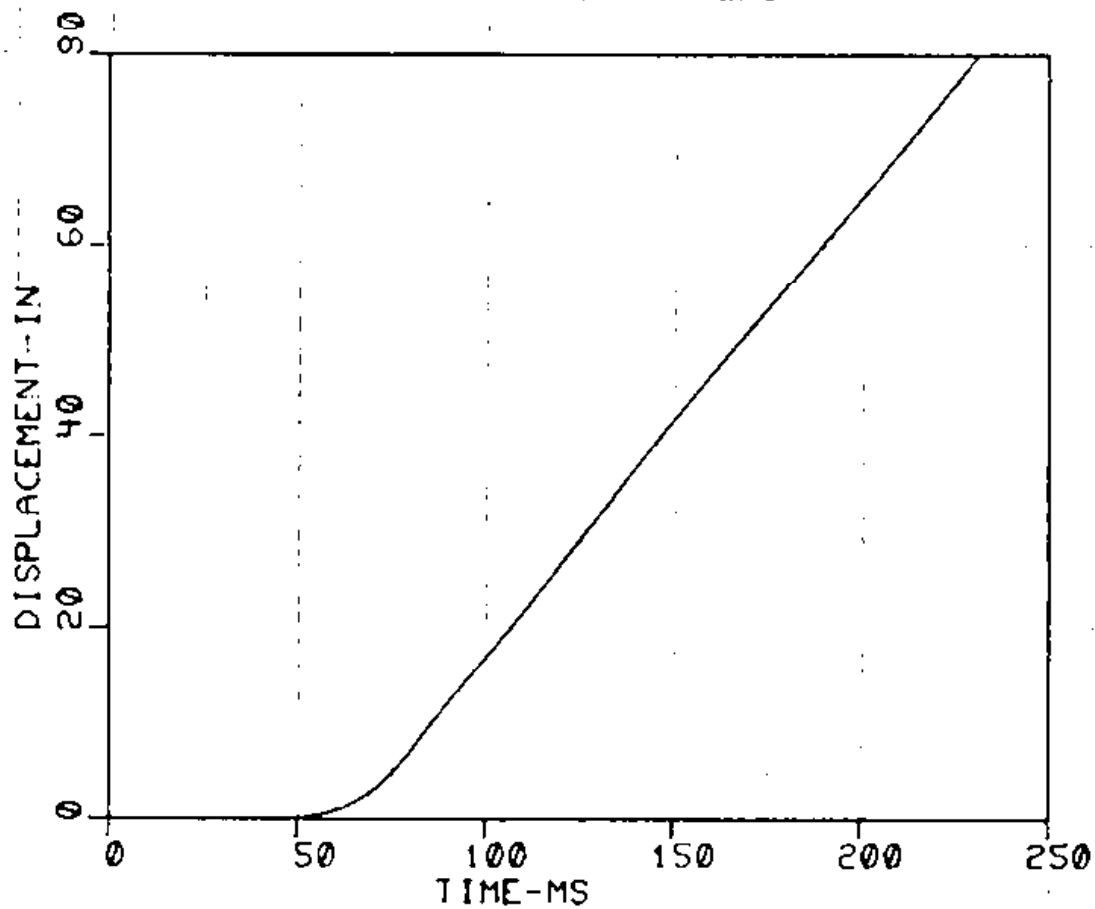
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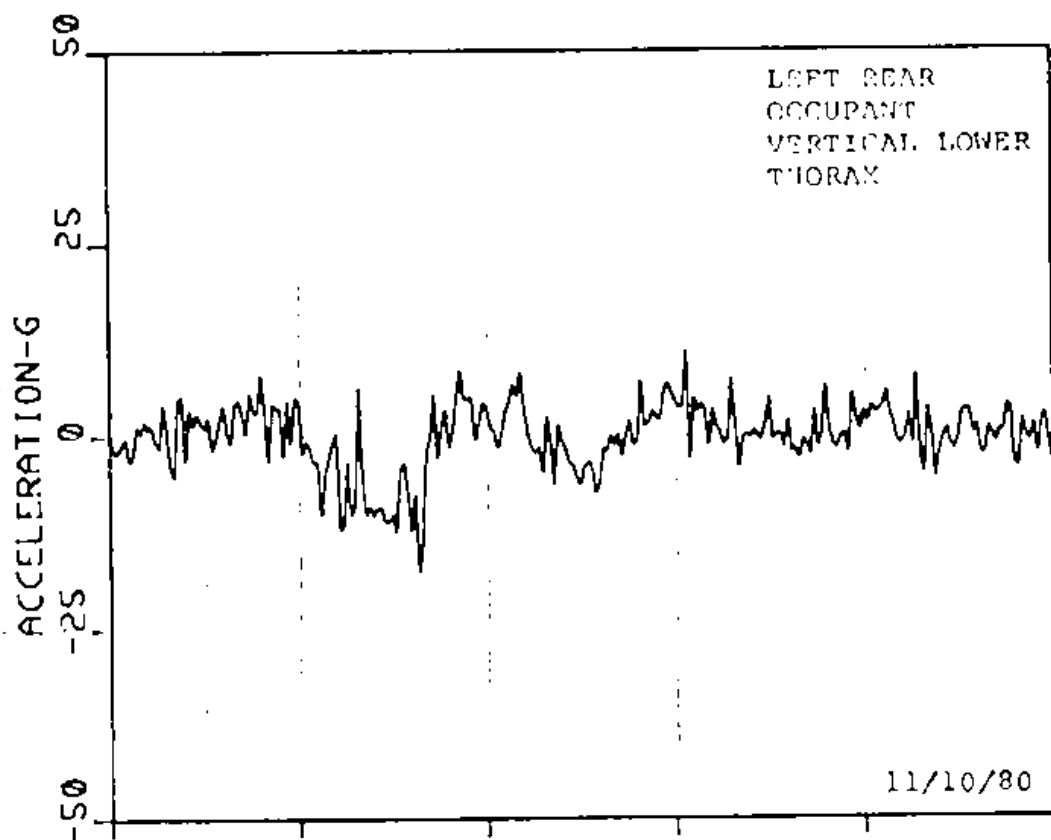
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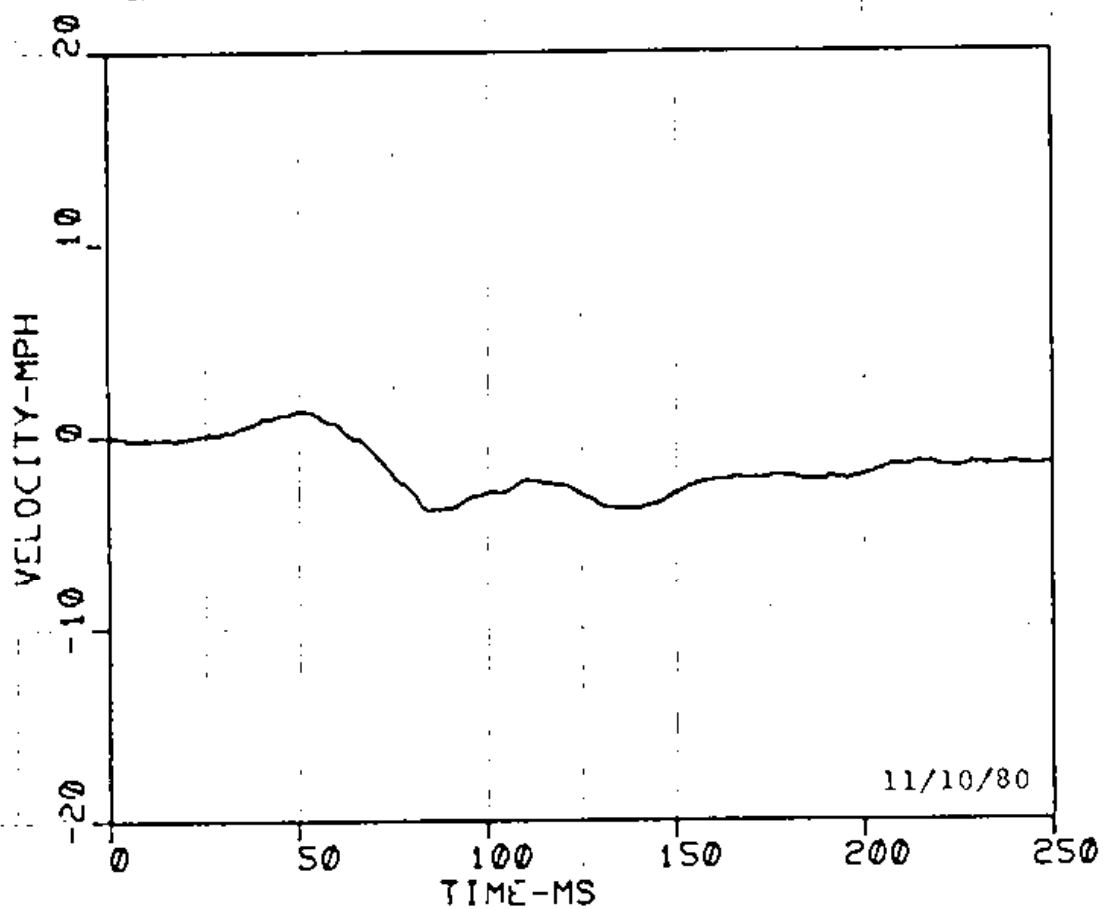
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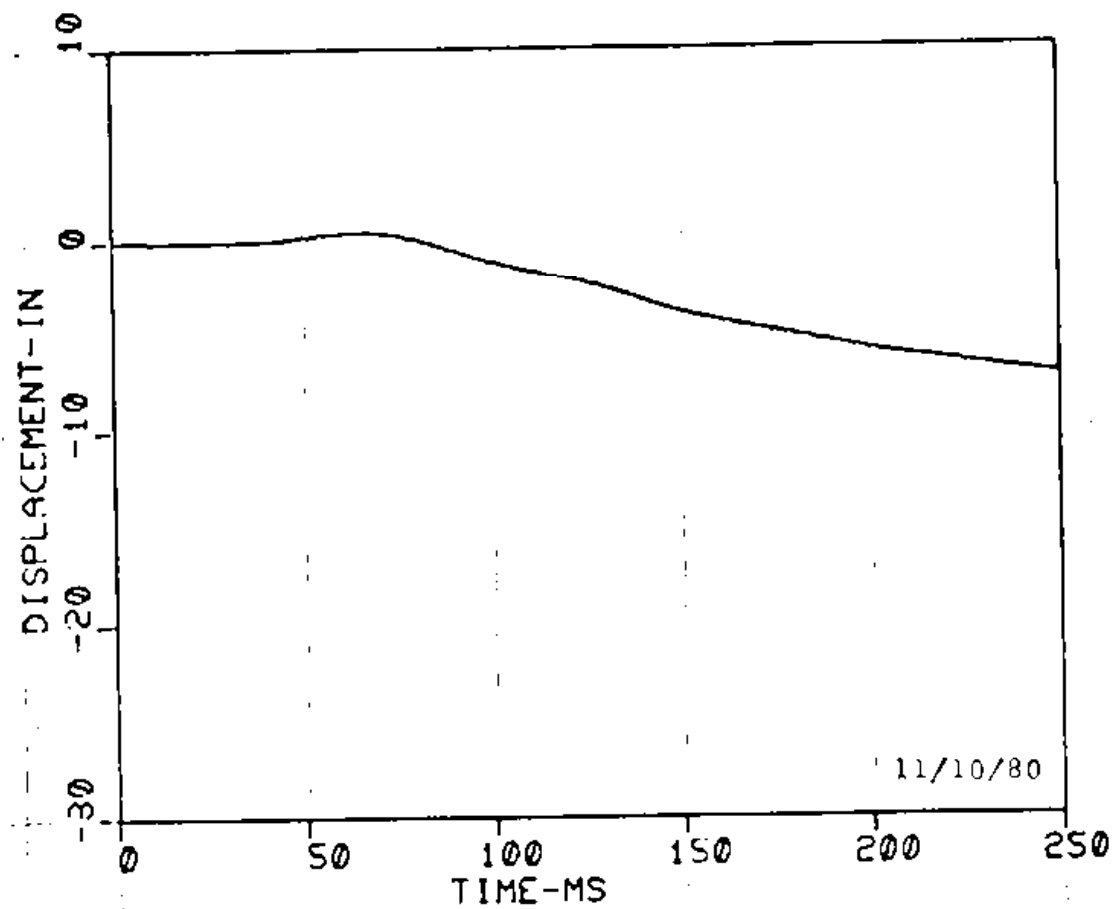
TEST#8327-6.2 VW MODRAB LR 2IGZ



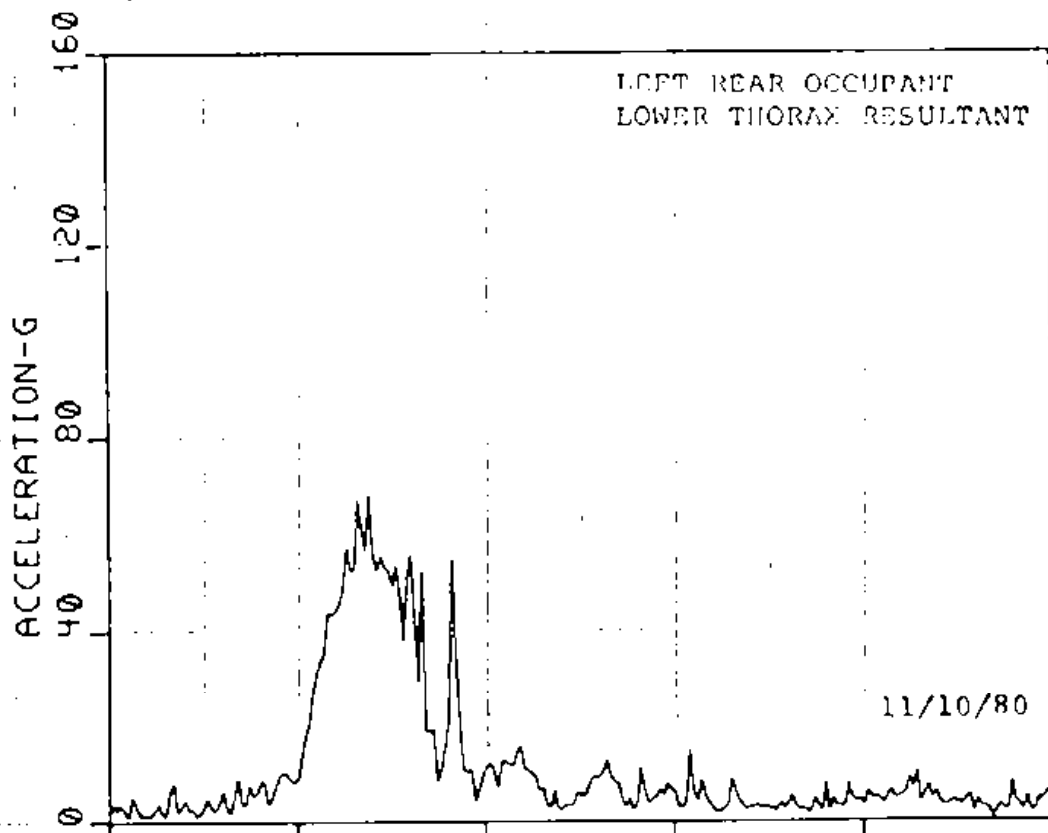
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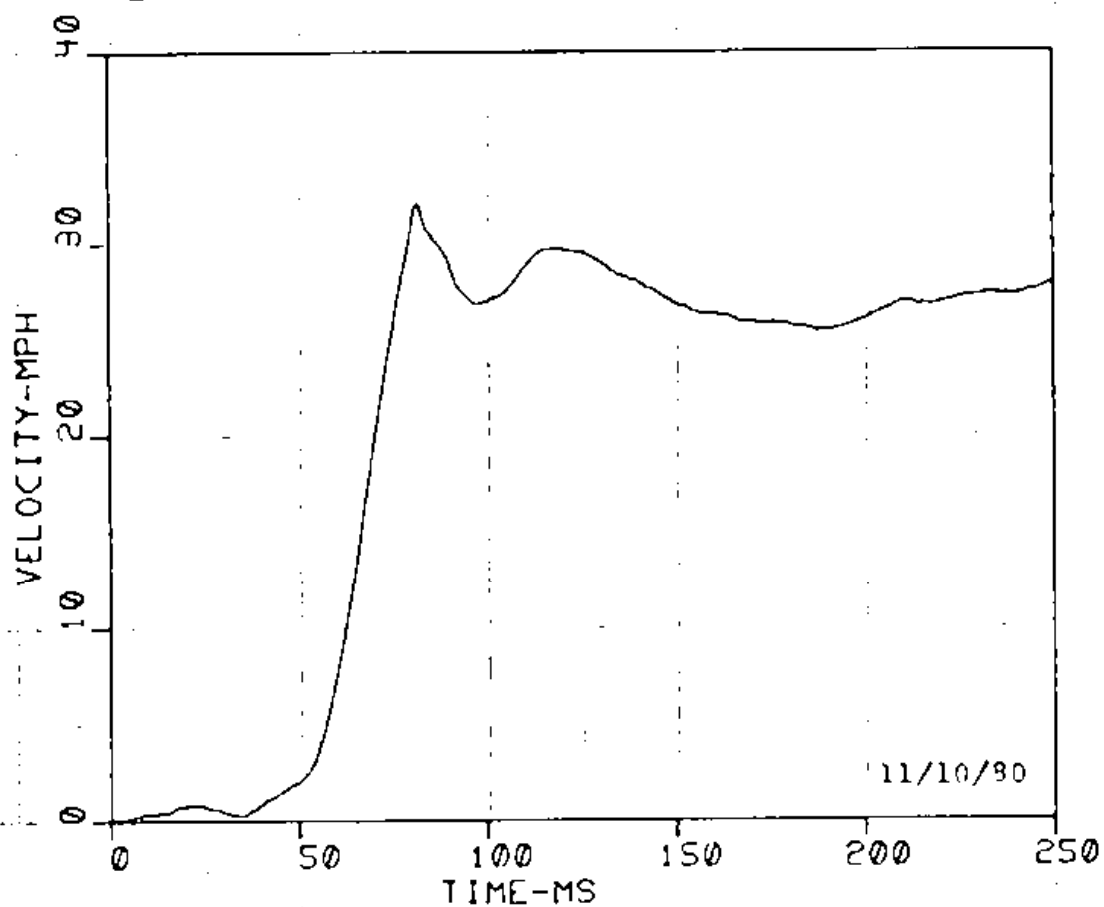
TEST#8327-6.2 VW MODRAB LR 2ISZ



TEST#8327-6.2 VW MODRAB LR T-12 AR

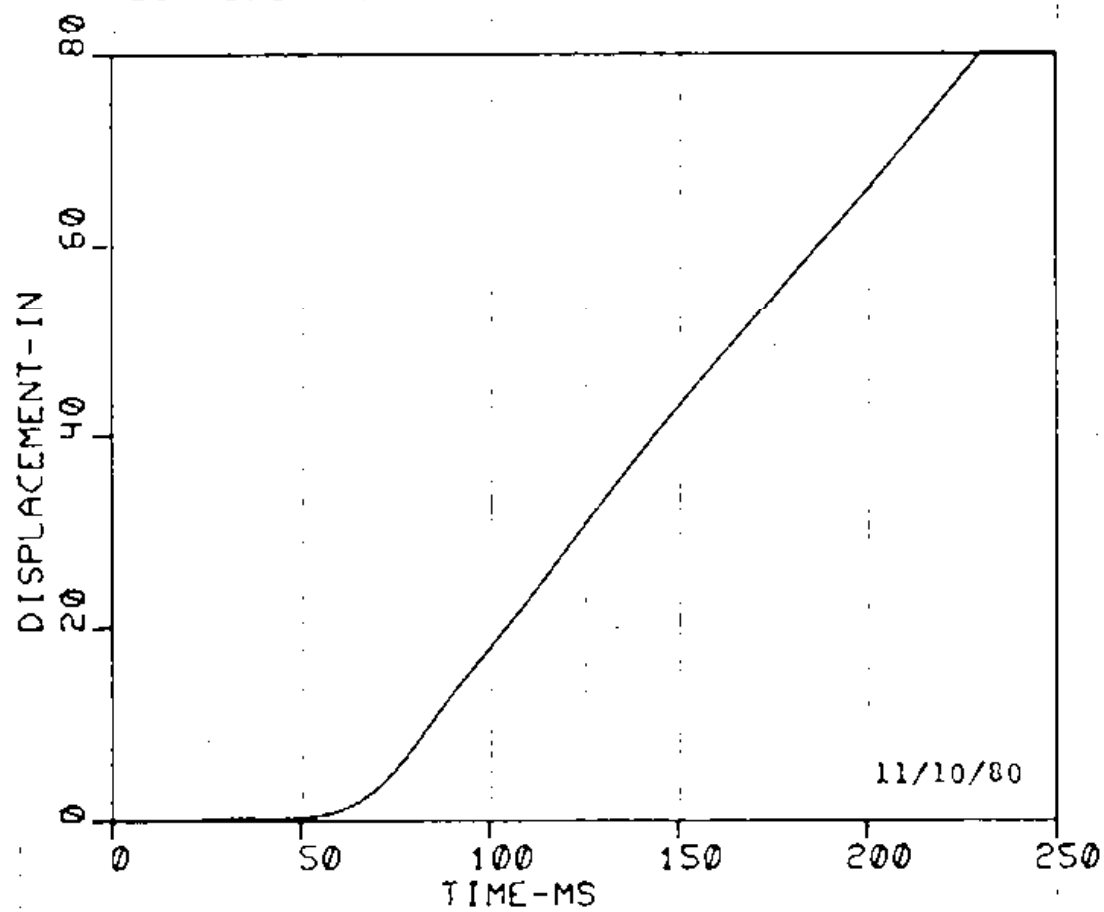


TEST#8327-6.2 VW MODRAB LR T-12 VR

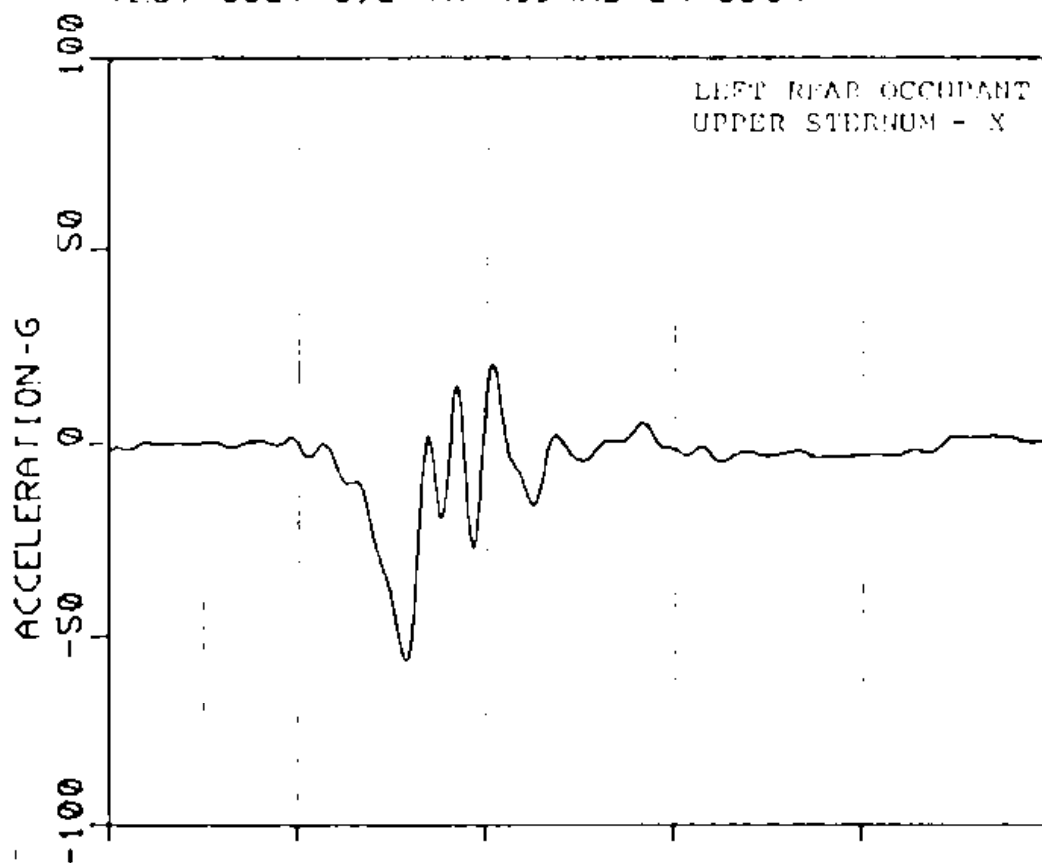


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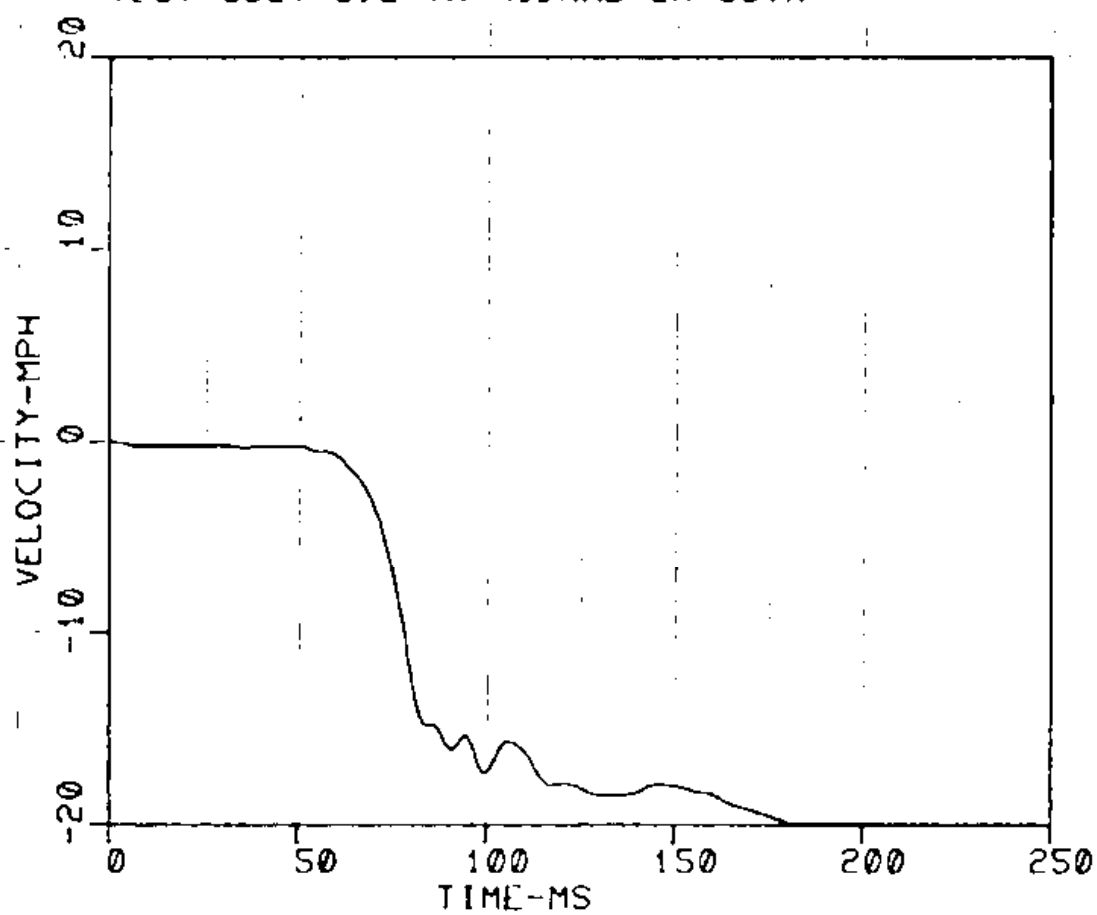
TEST#8327-6.2 VW MODRAB LR T-12 SR



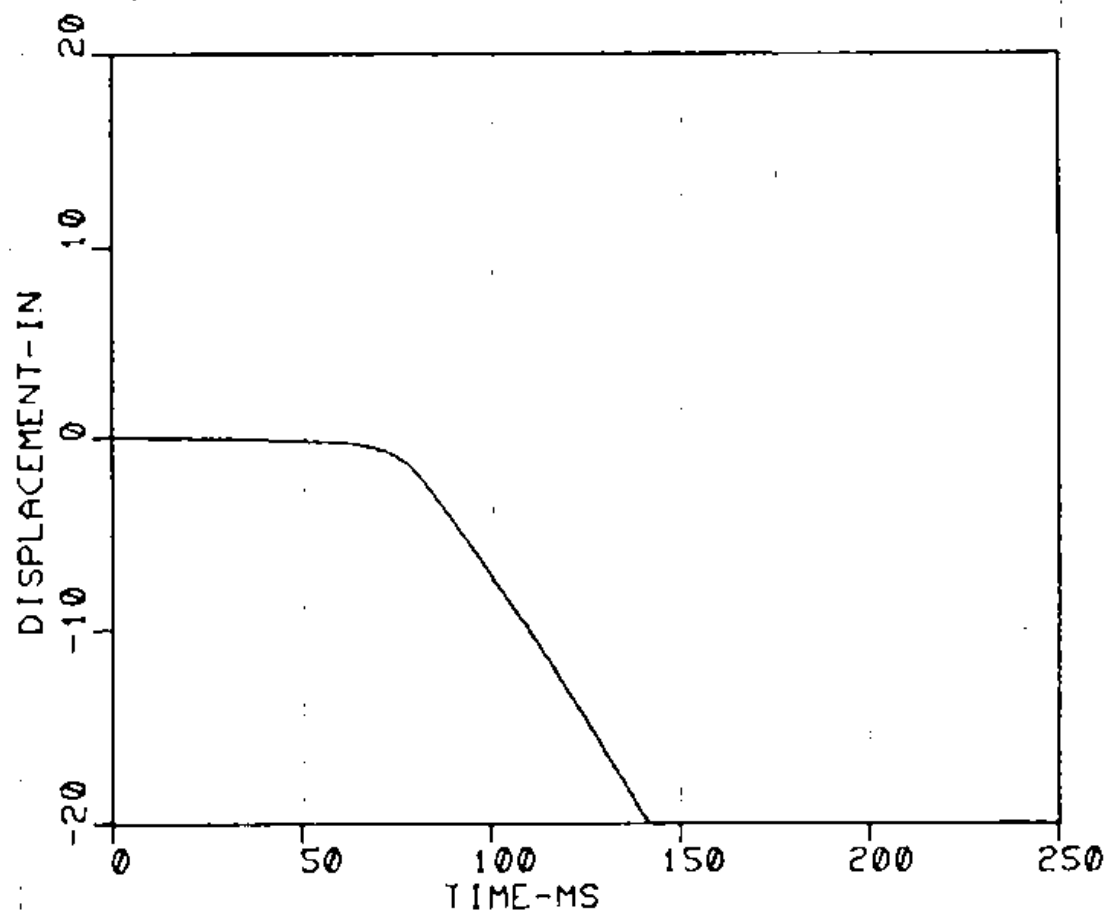
TEST#9327-6.2 VW MODRAB LR USGX



TEST#9327-6.2 VW MODRAB LR USVX

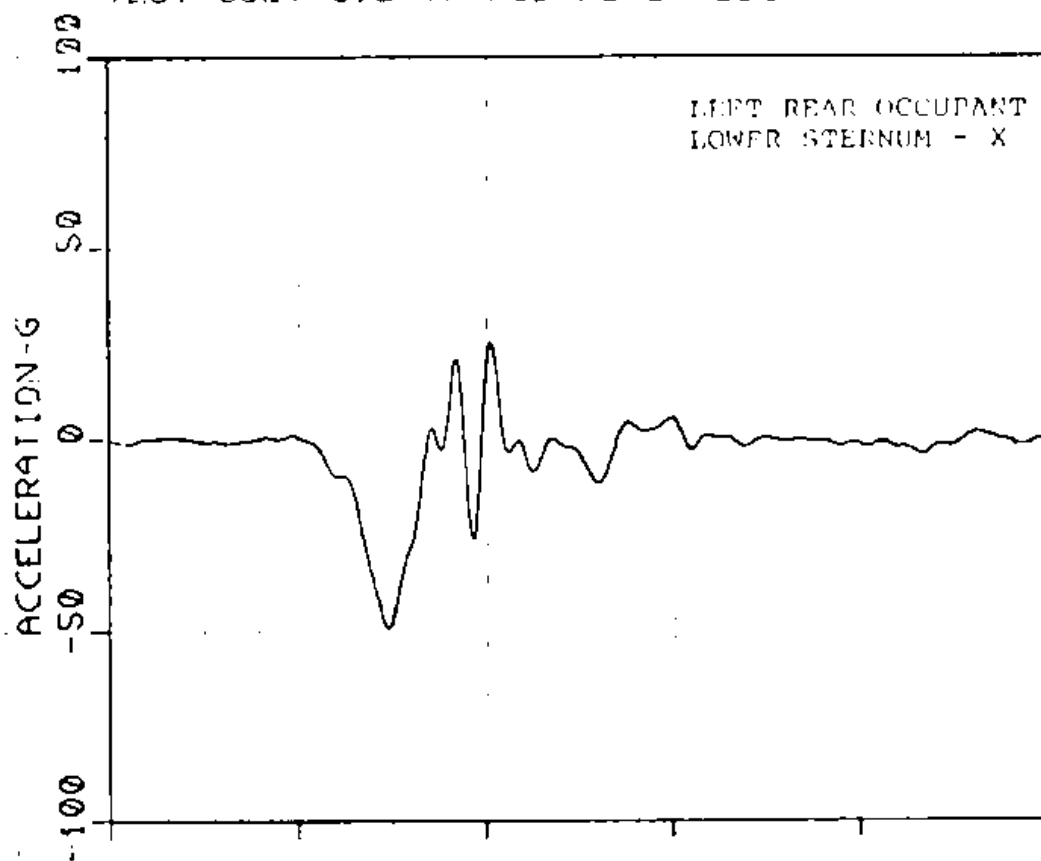


TEST#8327-6.2 VW MODRAB LR USSX

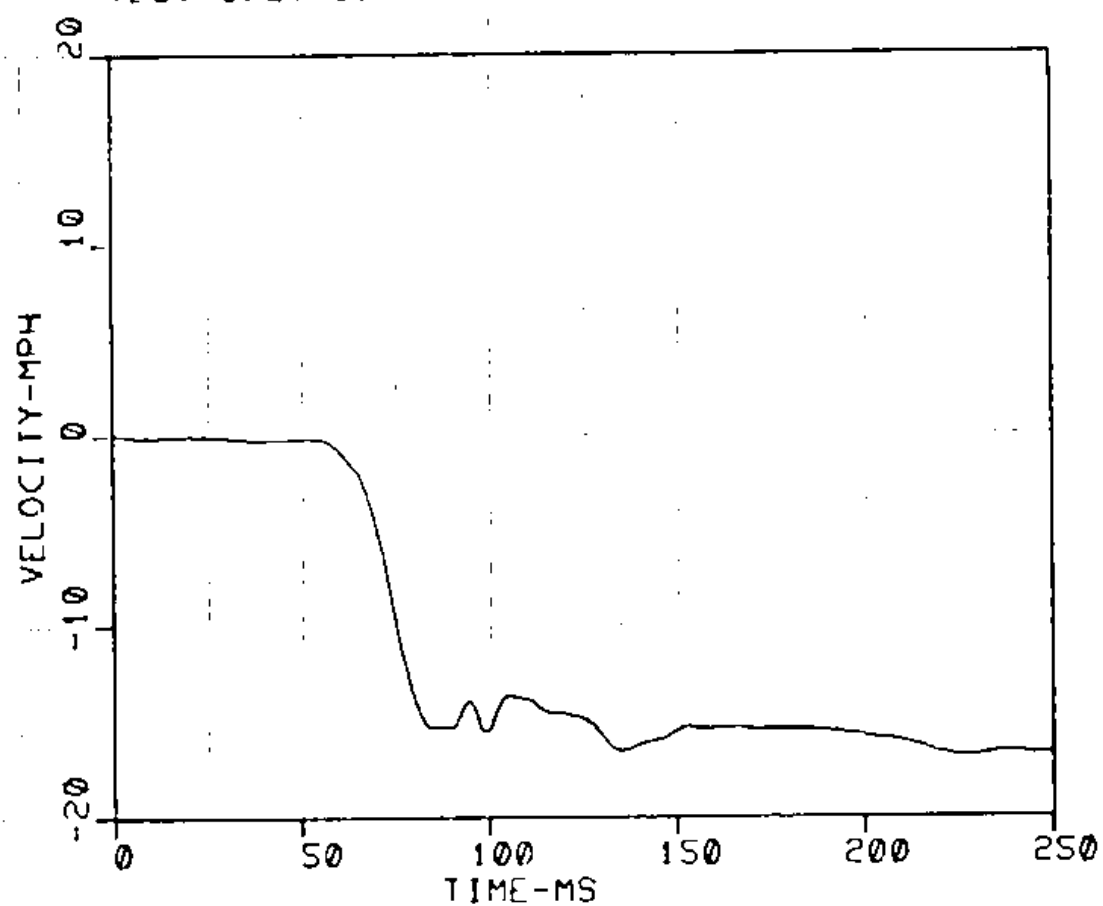


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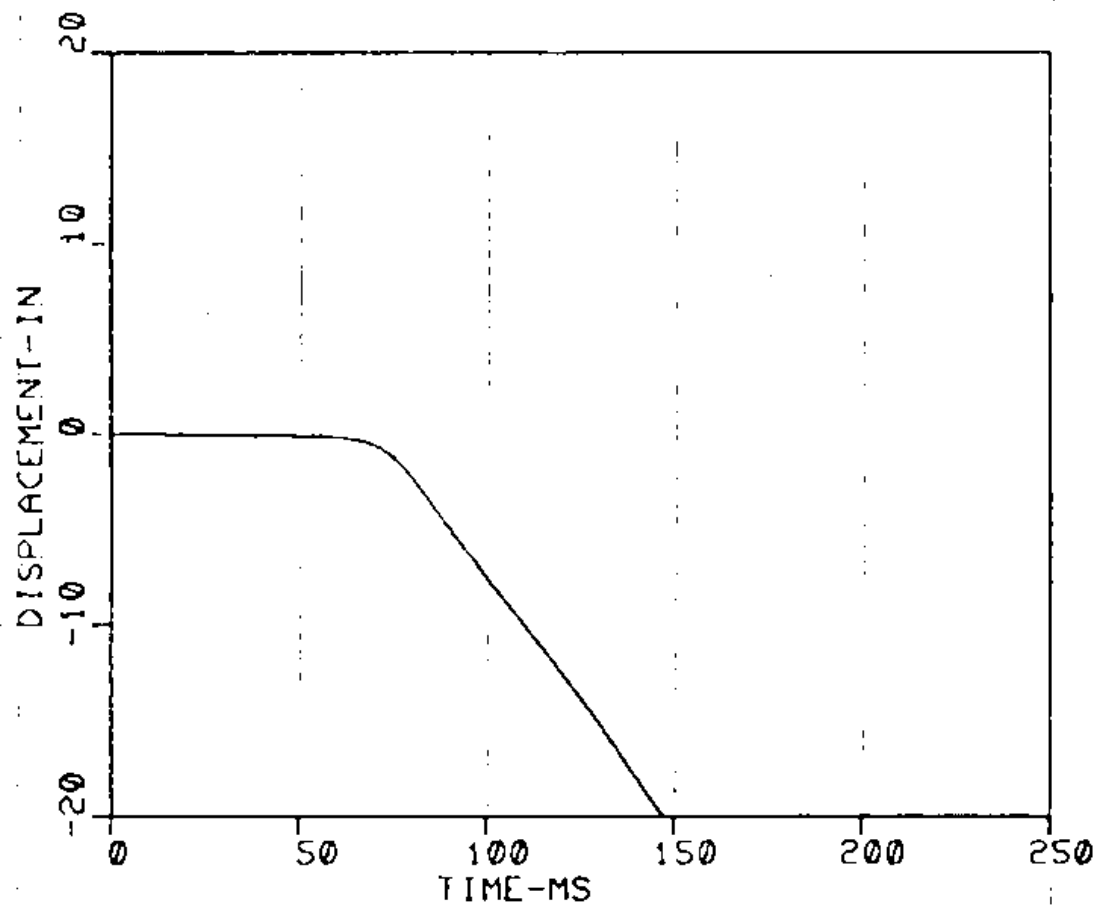
TEST#9327-6.2 VW MODRAB LR LSGX



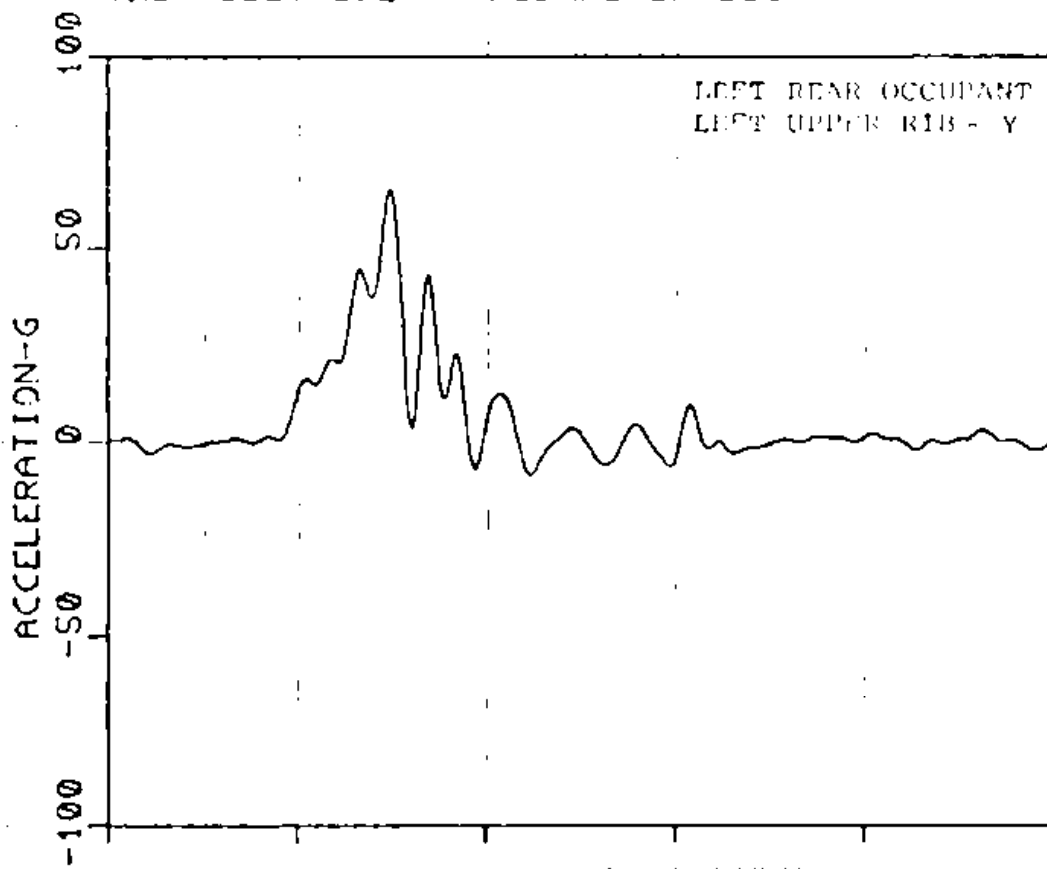
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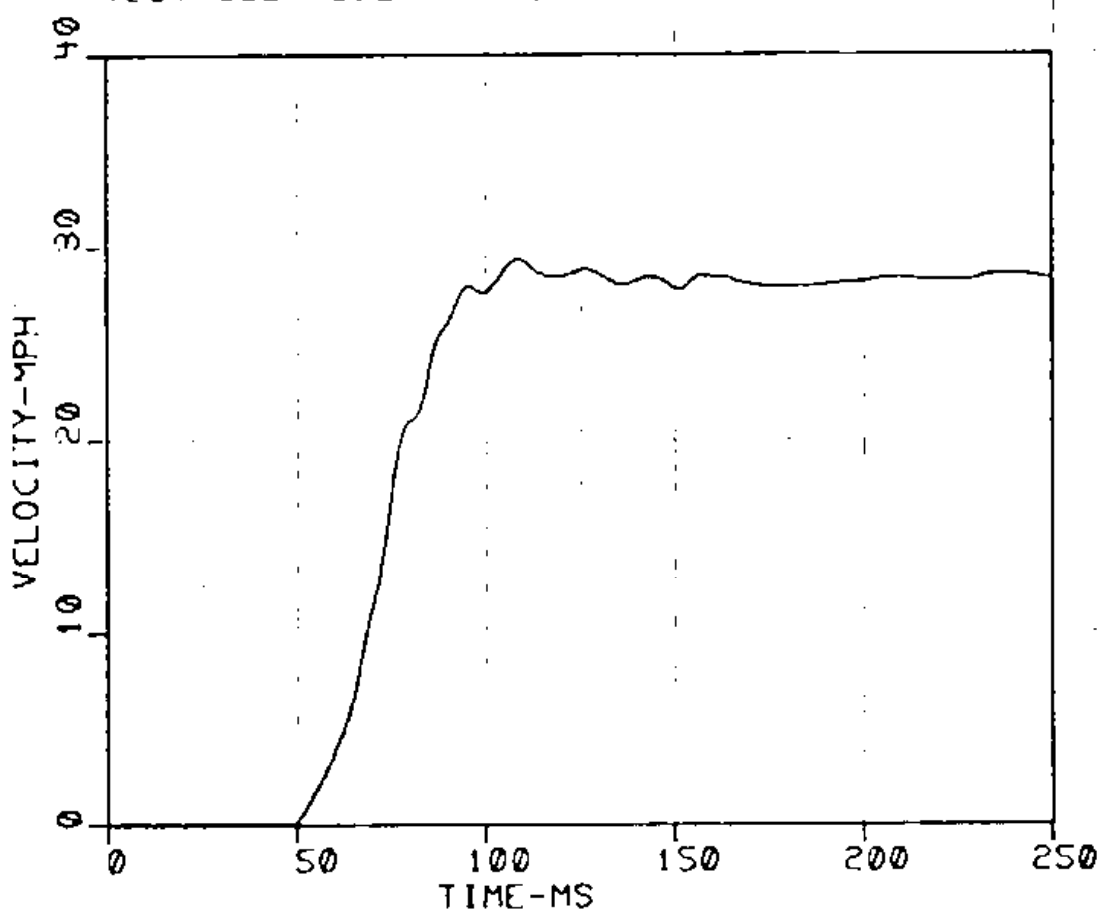
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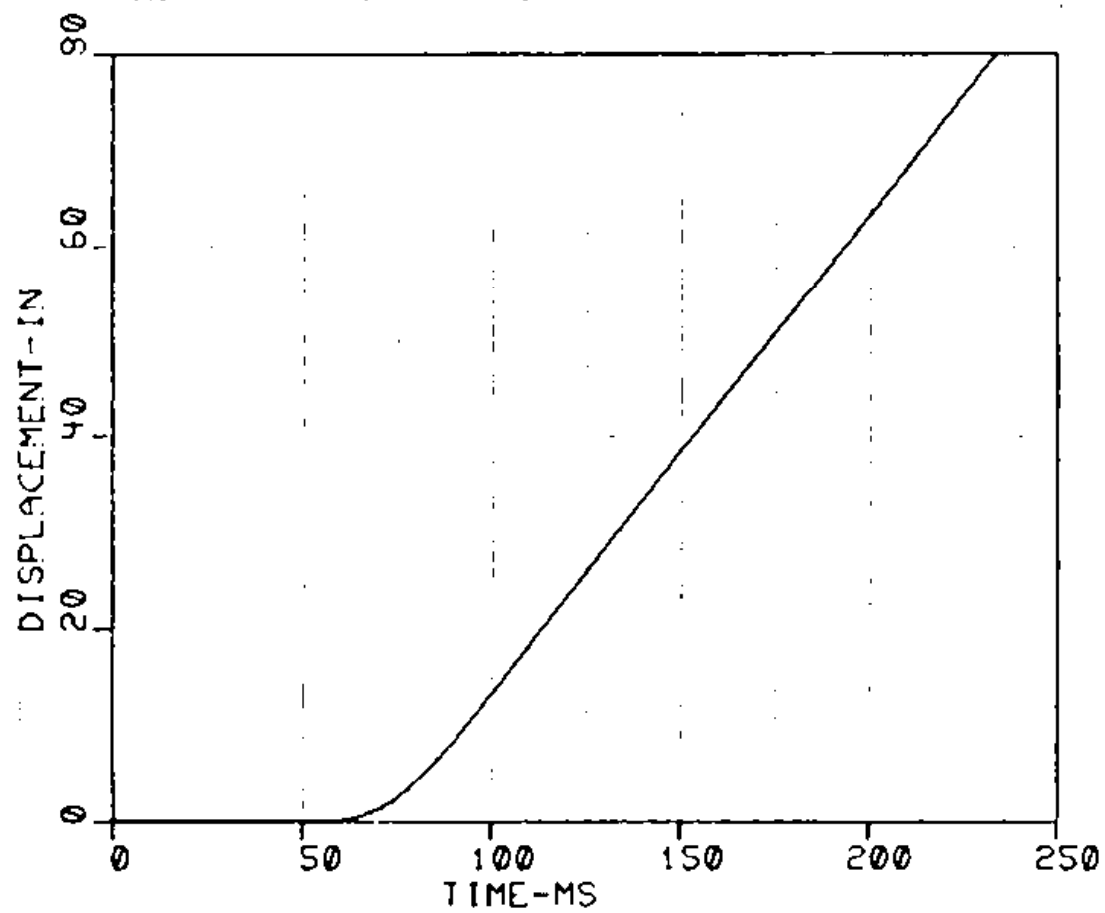
TEST#9327-6.2 VW MODRAB LR LUGY



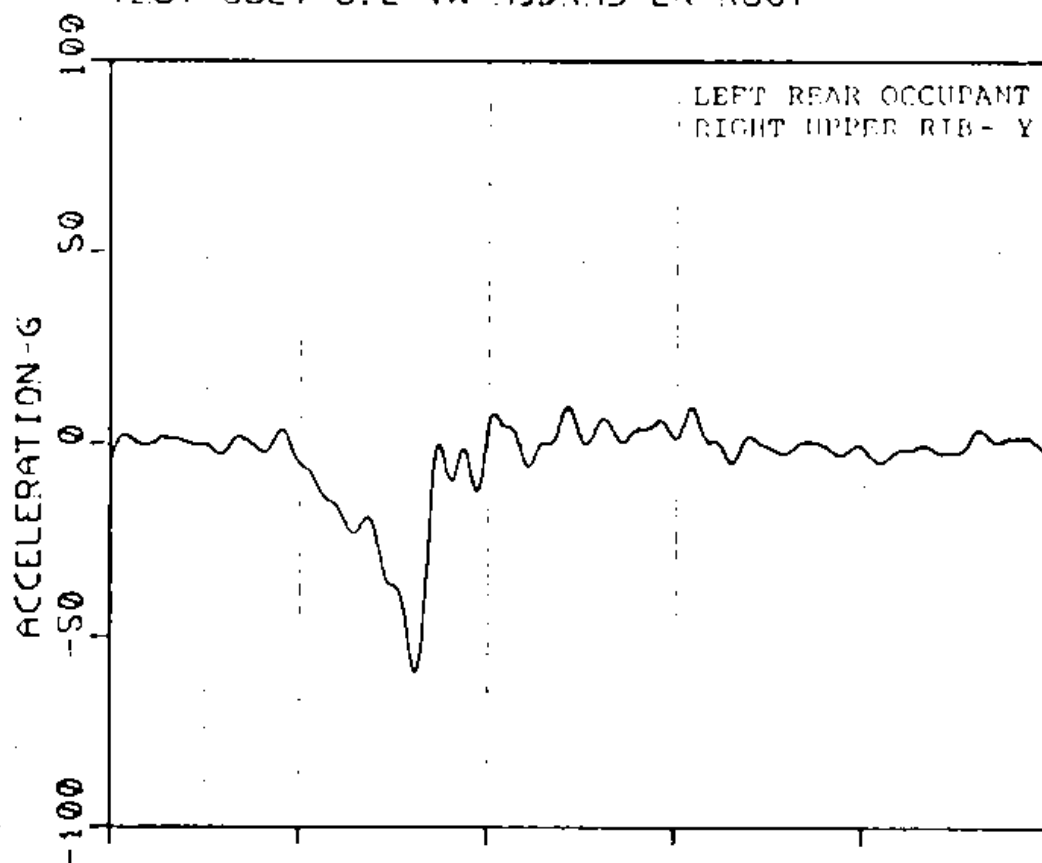
TEST#9327-6.2 VW MODRAB LR LUGY



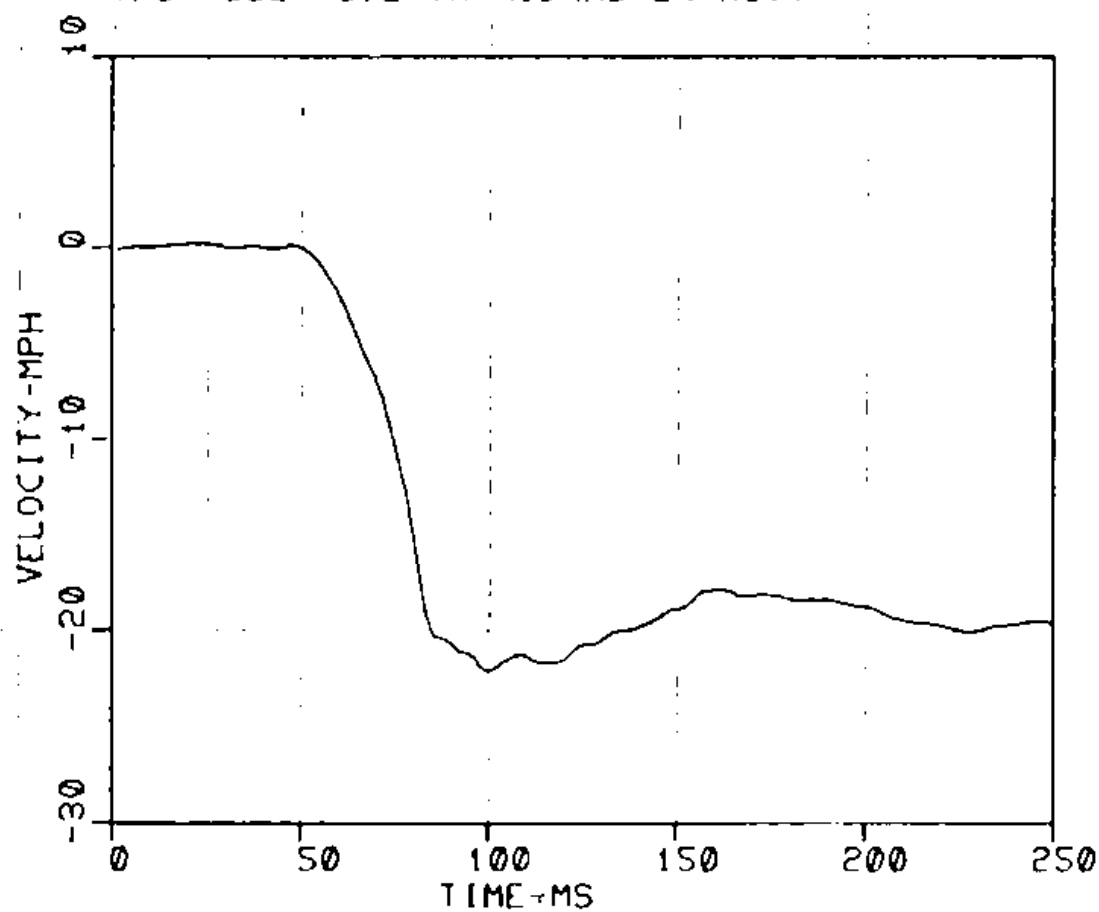
TEST#9327-6.2 VW MODRAB LR LUSY



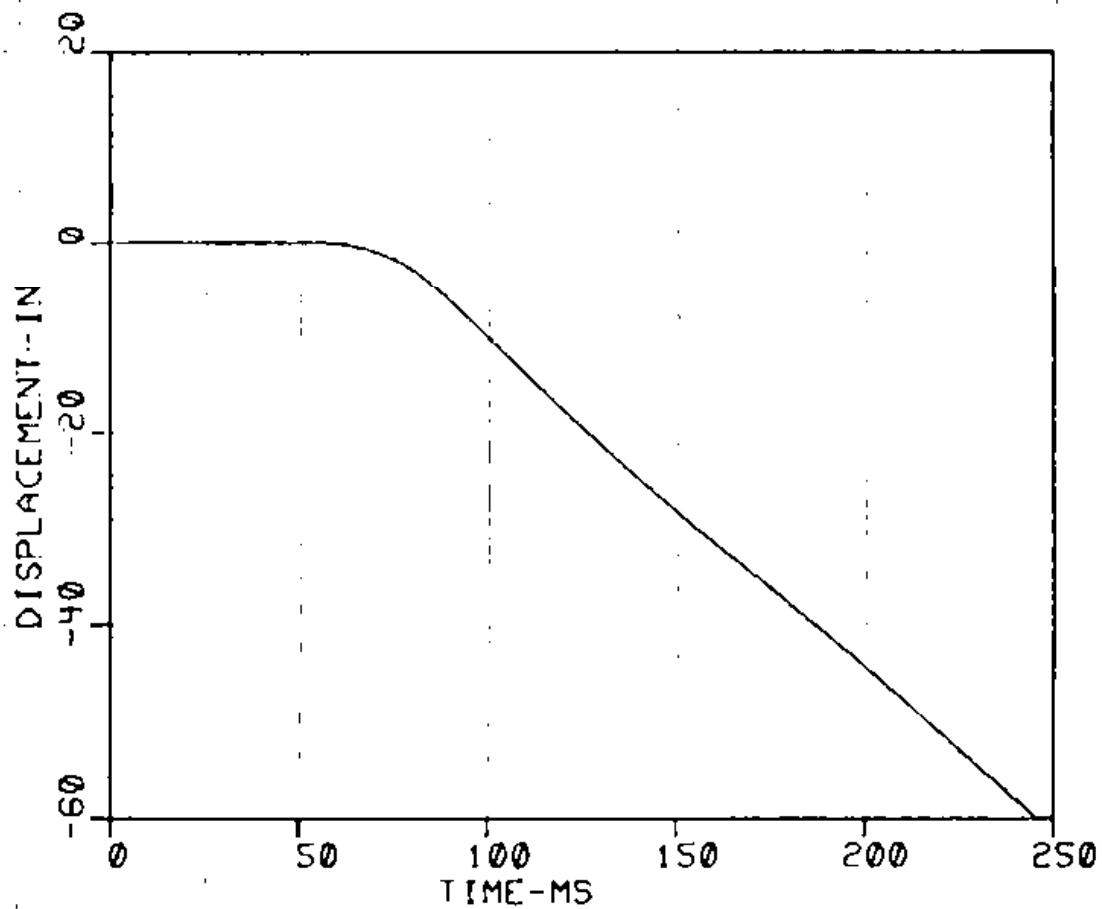
TEST#9327-6.2 VW MODRAB LR RUGY



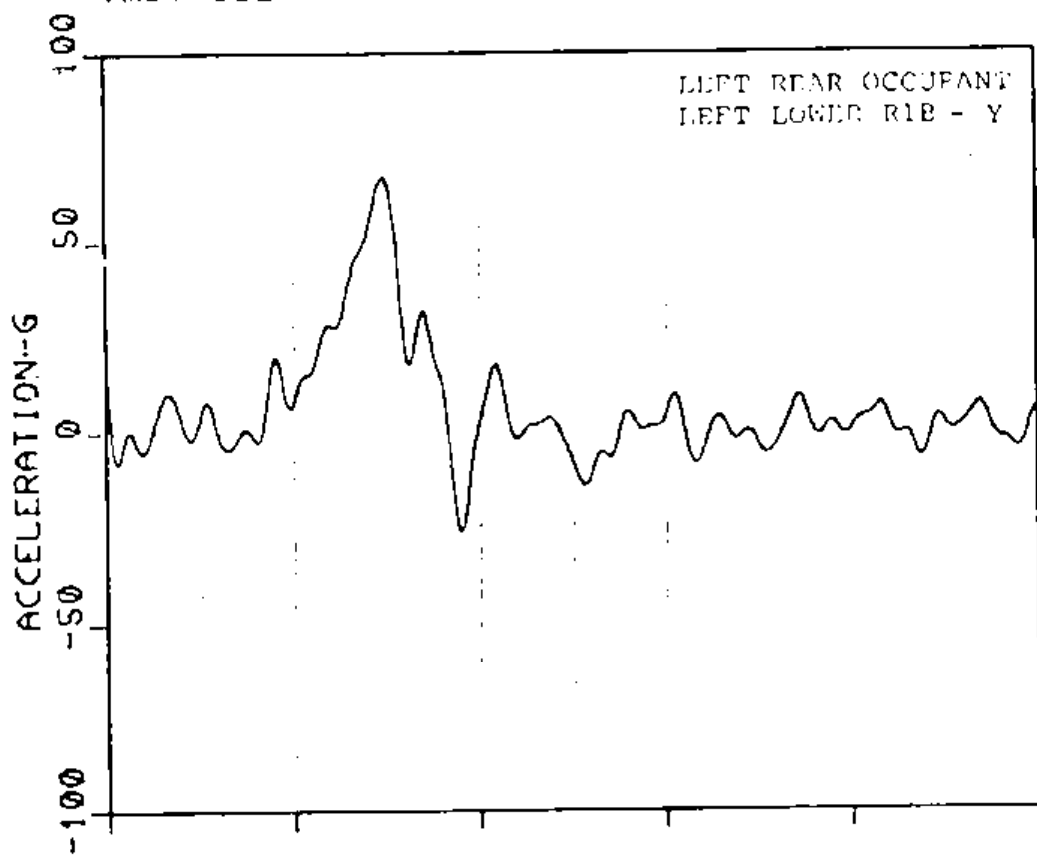
TEST#9327-6.2 VW MODRAB LR RUGY



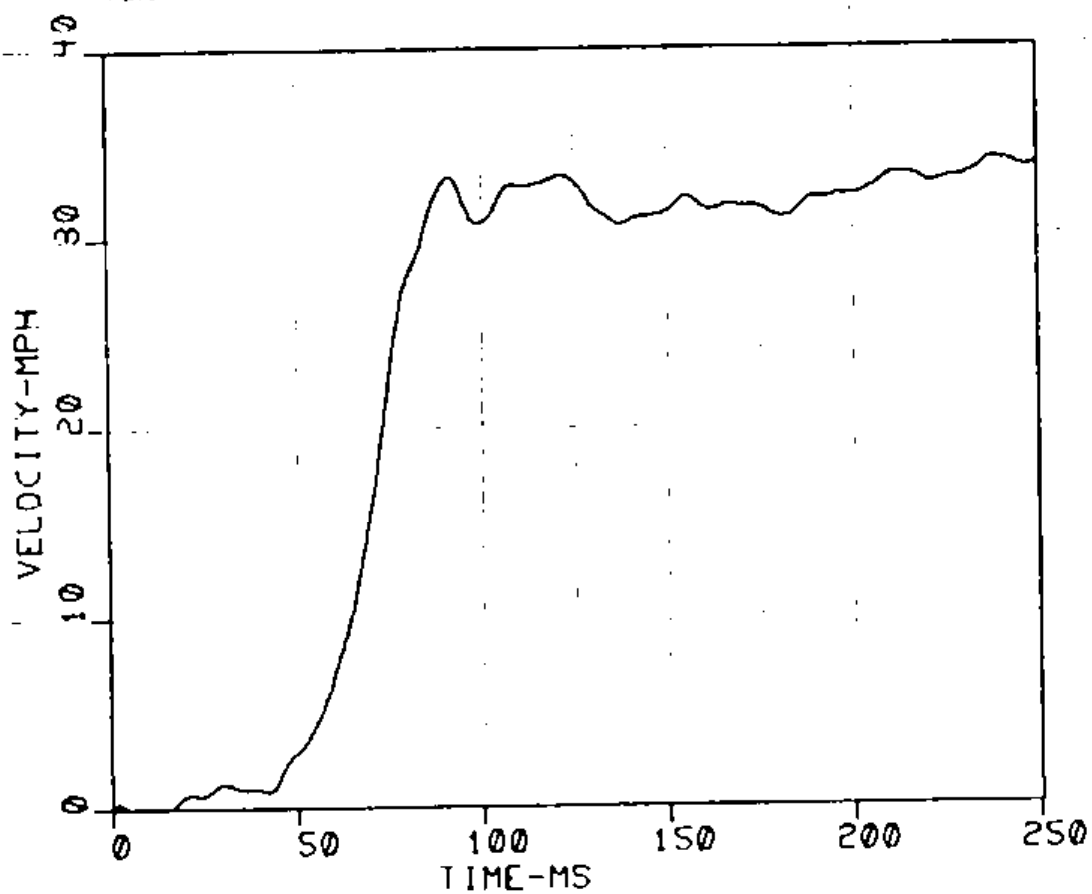
TEST#8327-6.2 VW MODRAB LR RUSY



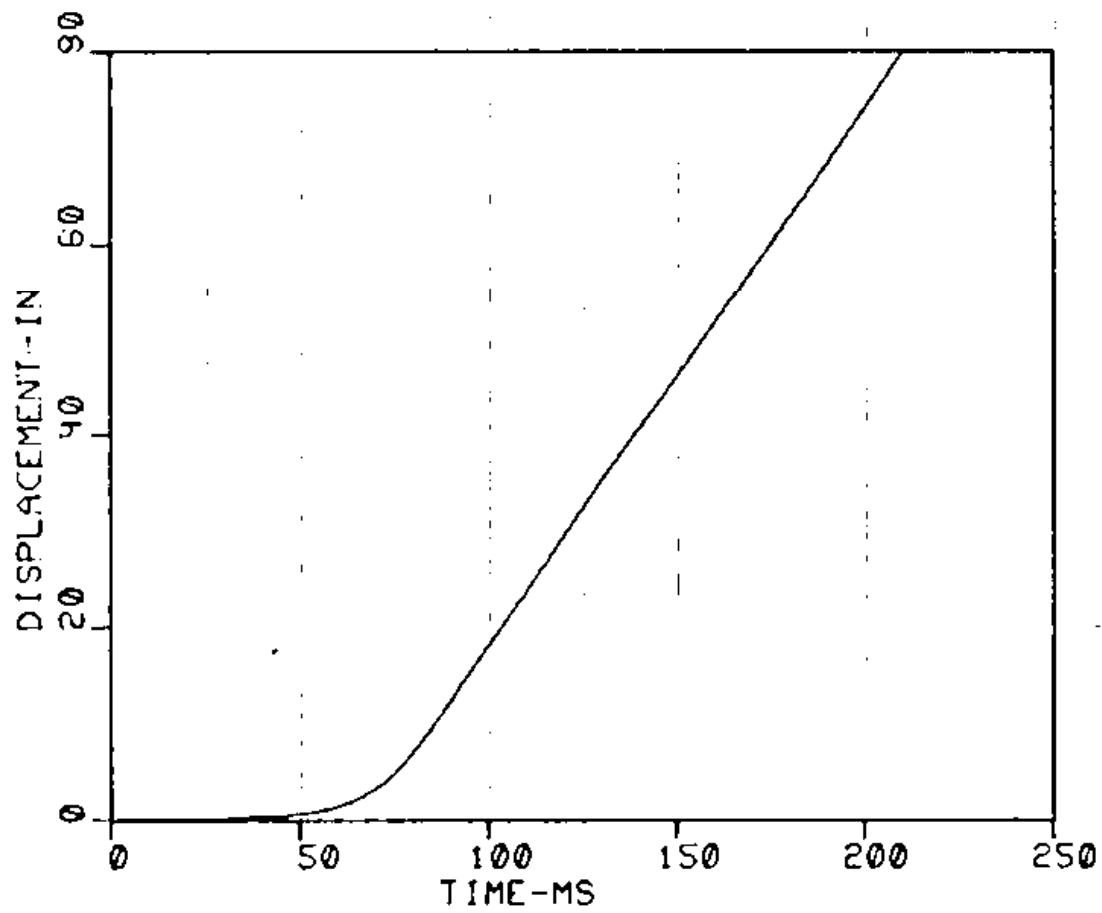
TEST#9327-6.2 VW MODRAB LR LLGY



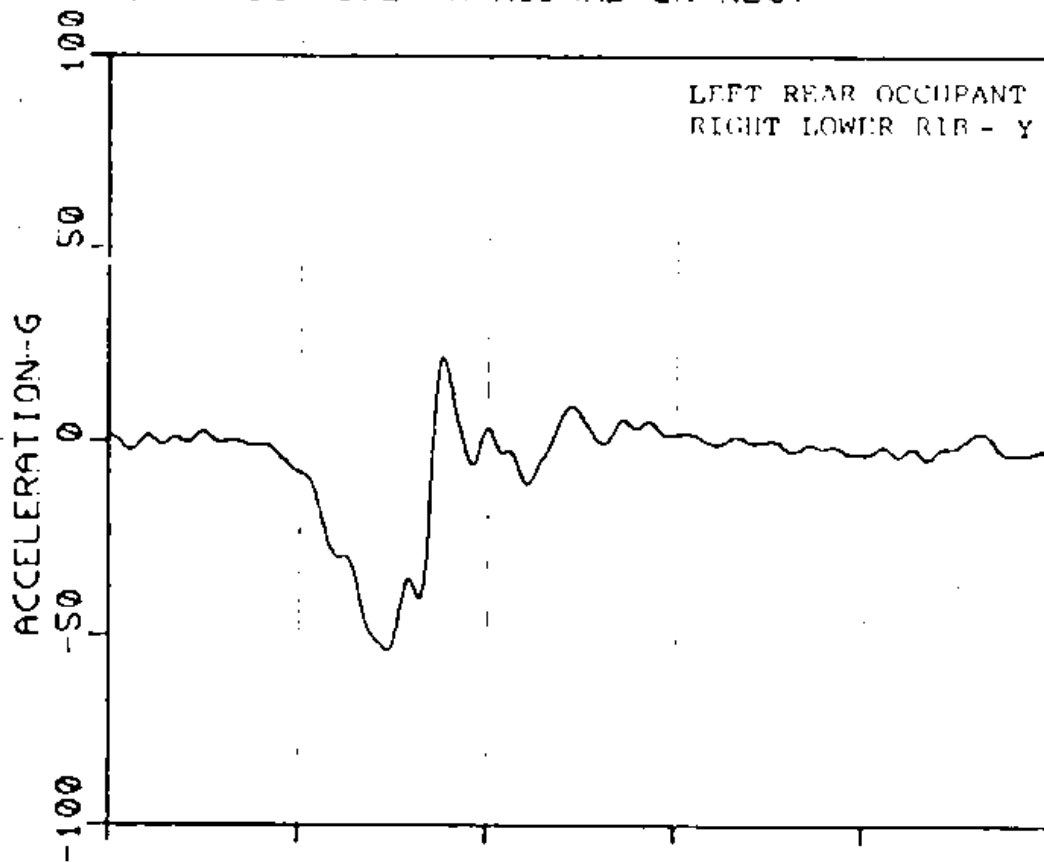
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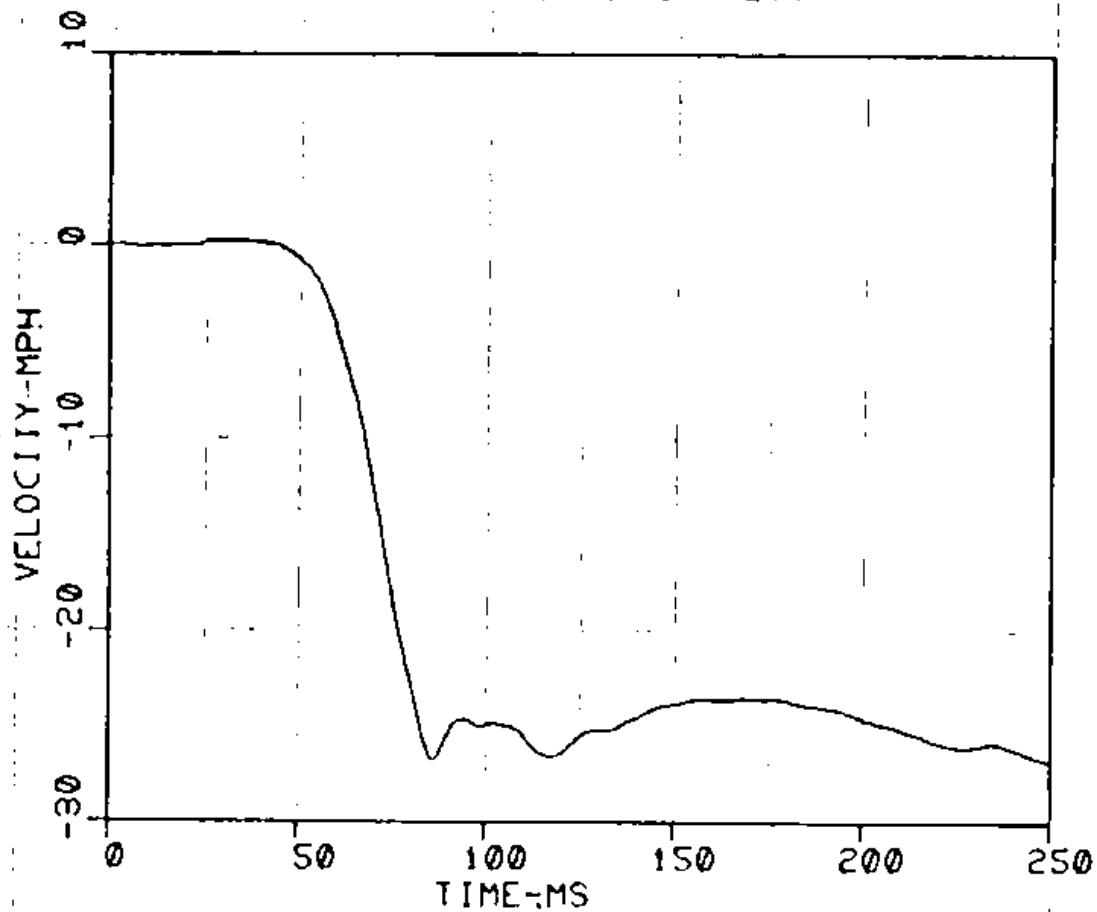
TEST#9327-6.2 VW MODRAB LR LLSY



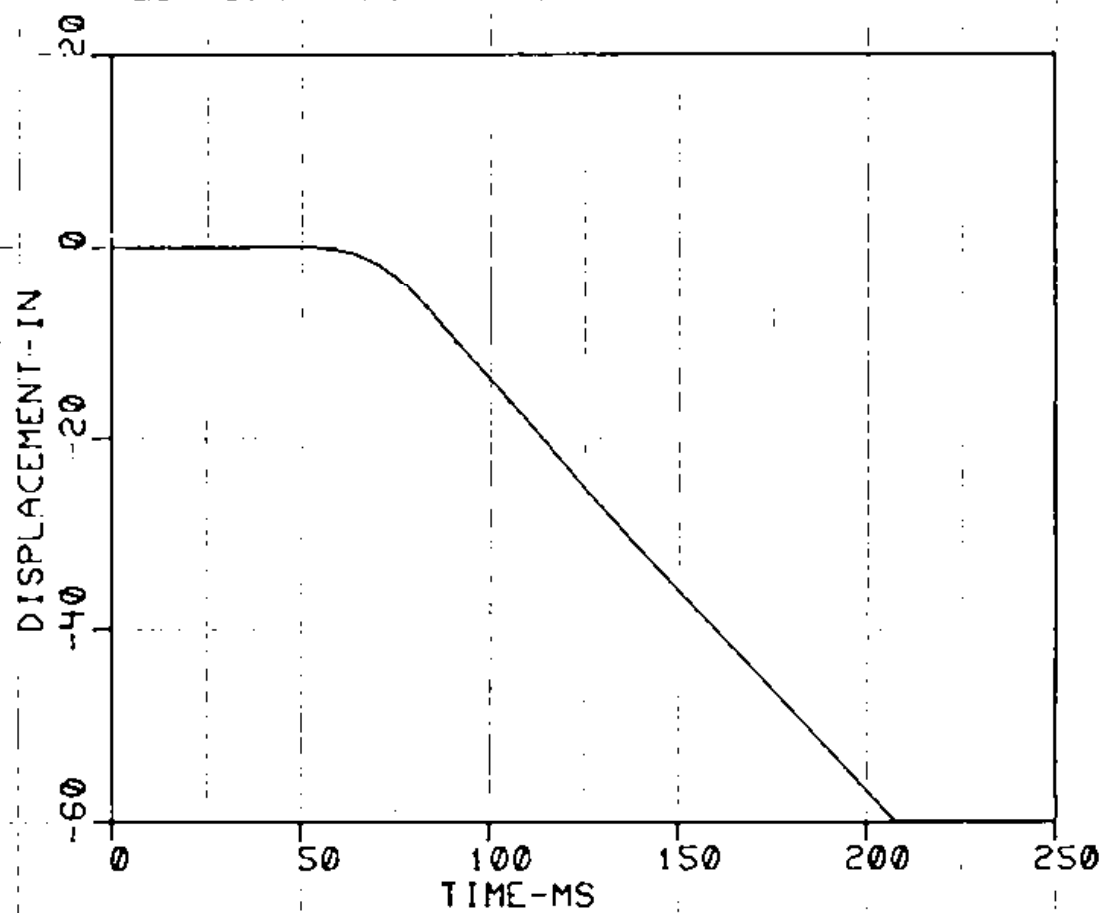
TEST#8327-6.2 VW MODRAB LR RLGY



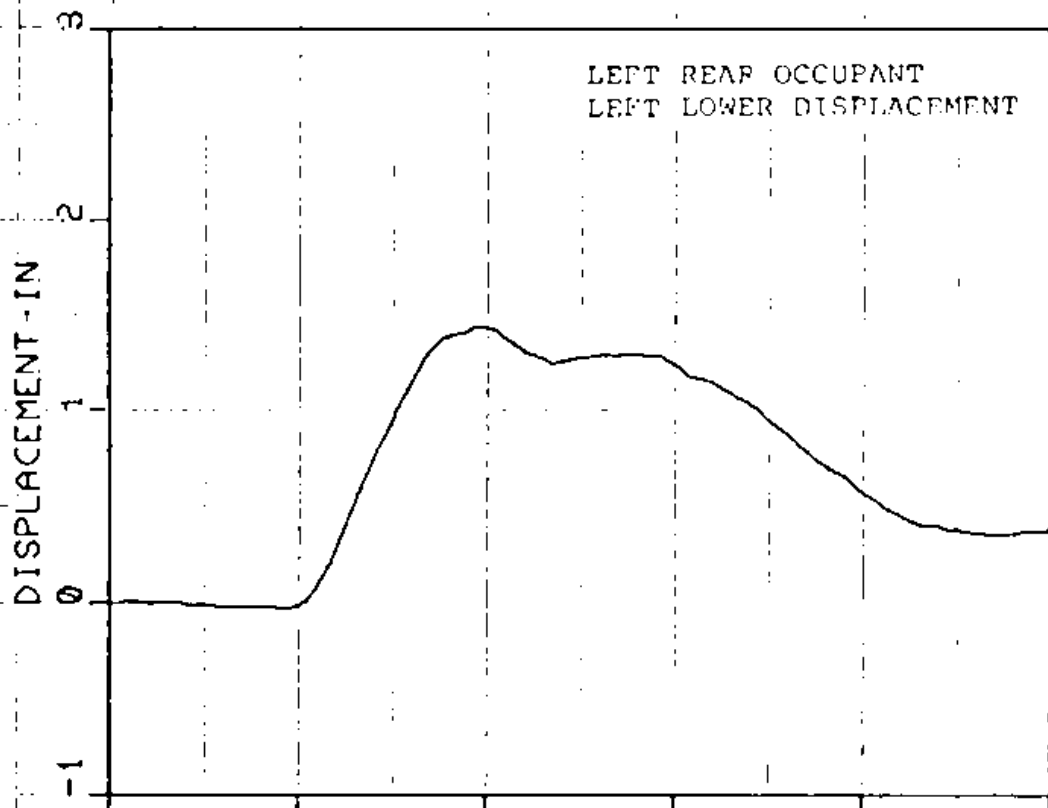
TEST#8327-6.2 VW MODRAB LR RLGY



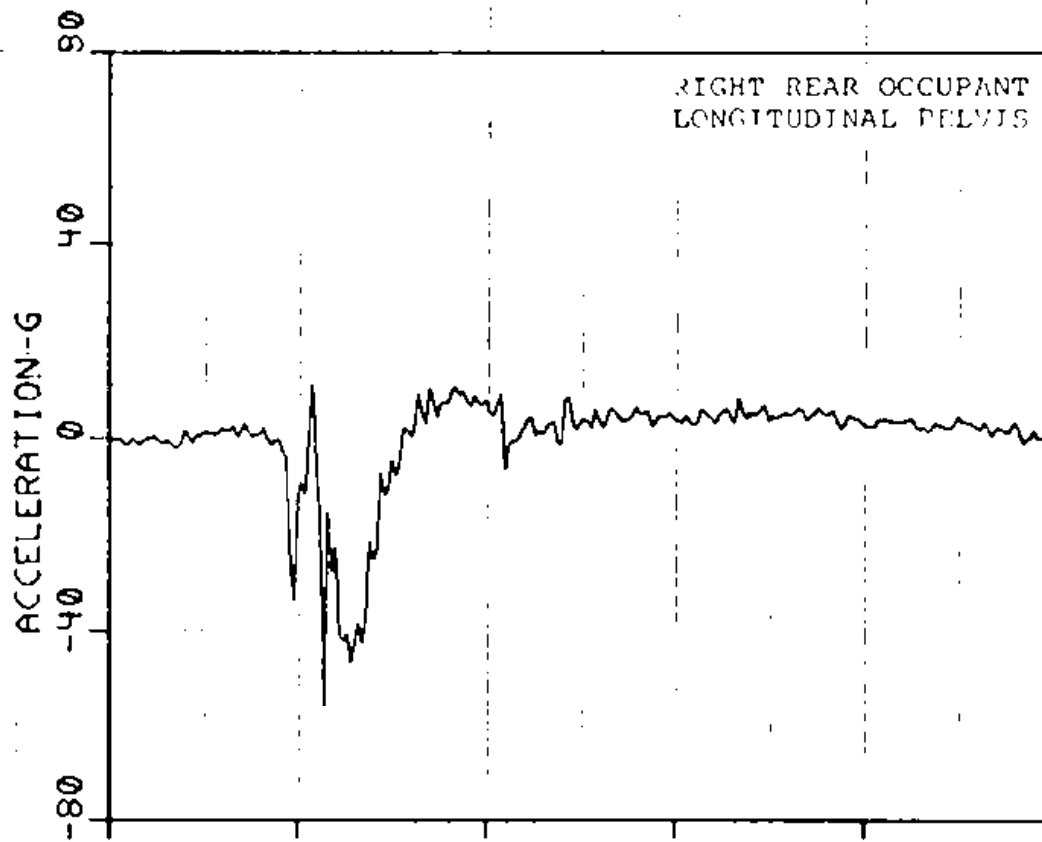
TEST#8327-6.2 VW MODRAB LR RLS7



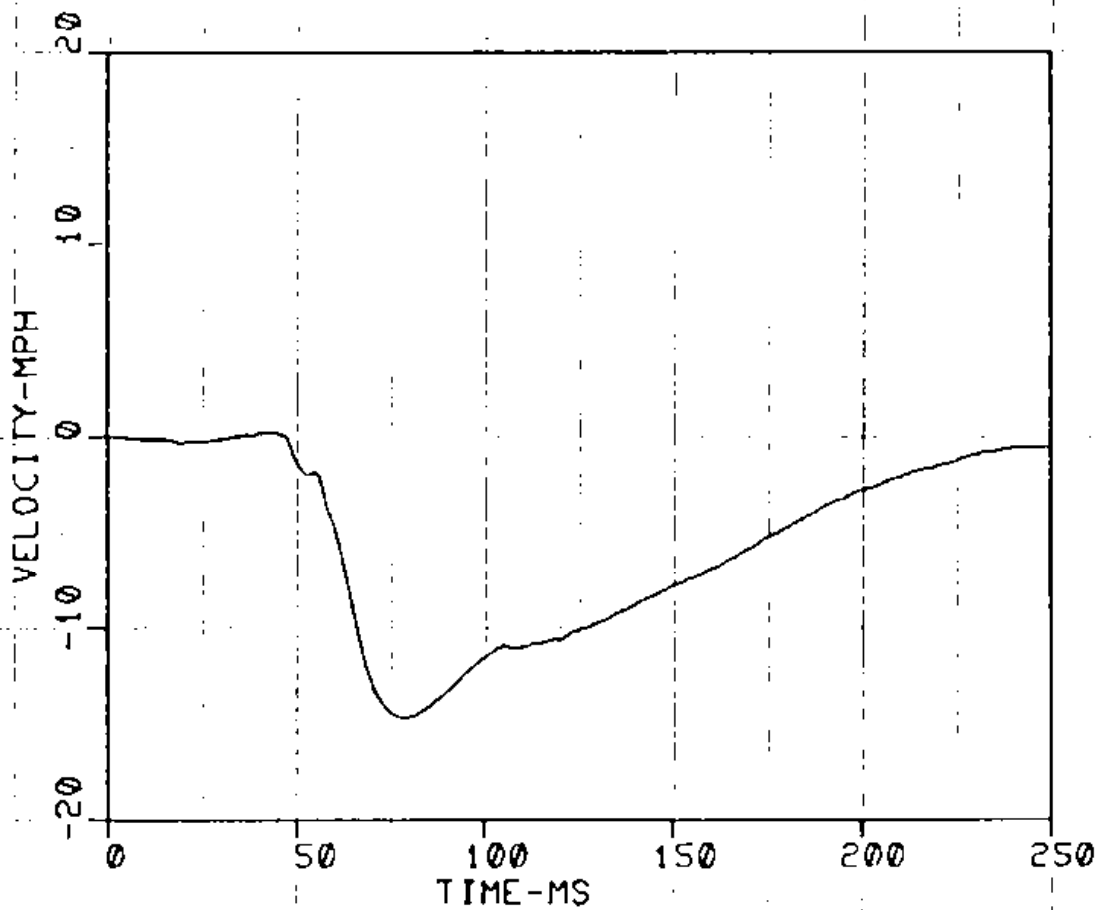
TEST#8327-6.2 VW MODRAB LR LLDY



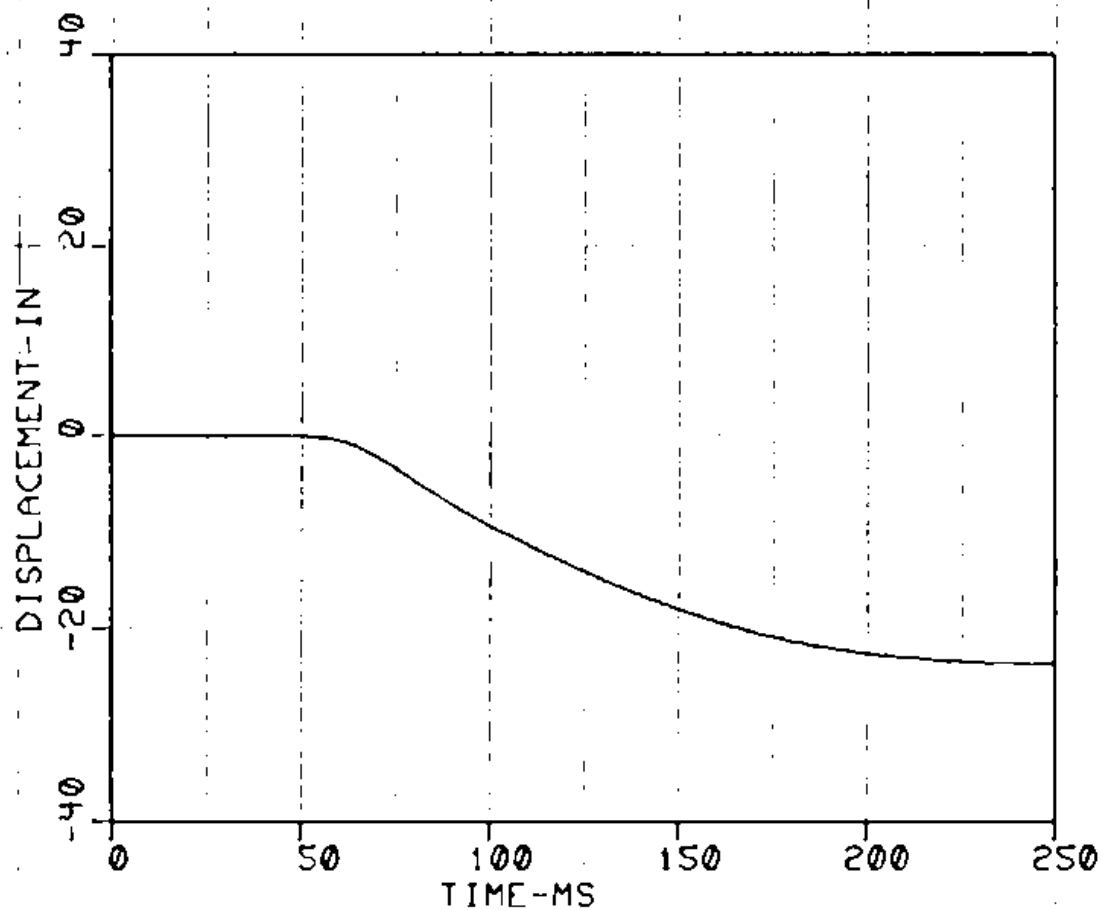
TEST#8327-6.2 VW MODRAB LR PPGX



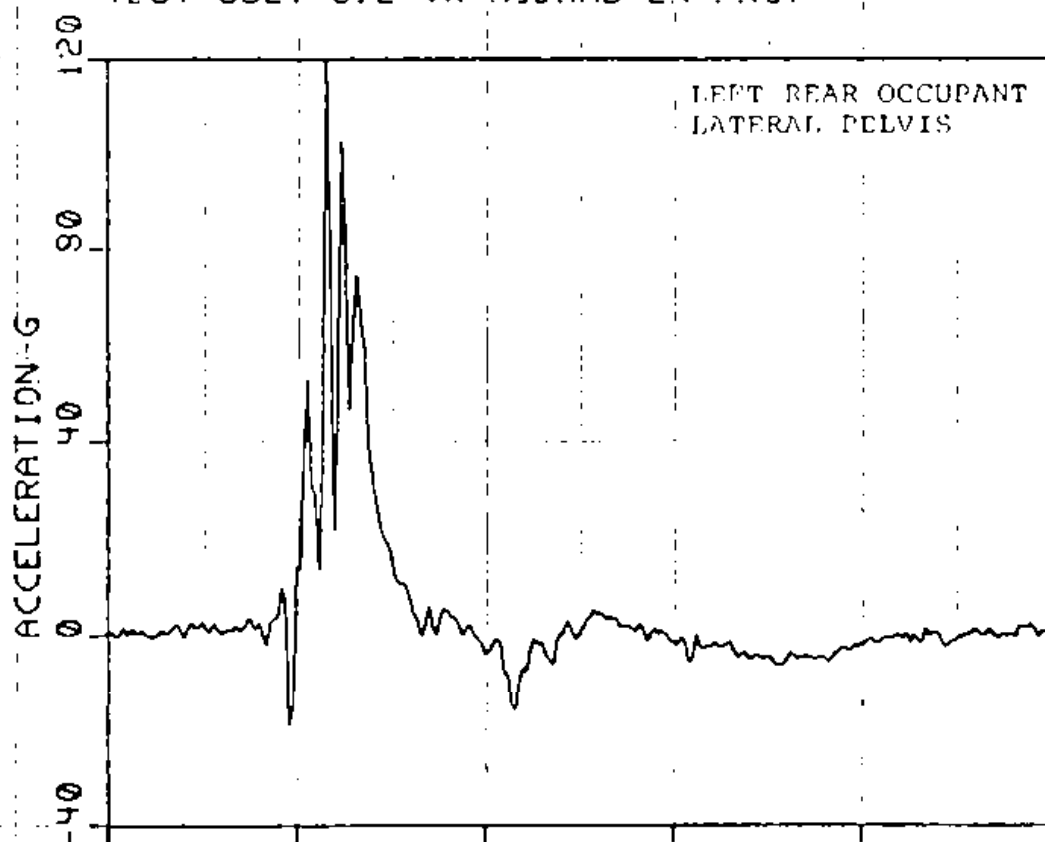
TEST#8327-6.2 VW MODRAB LR PPVX



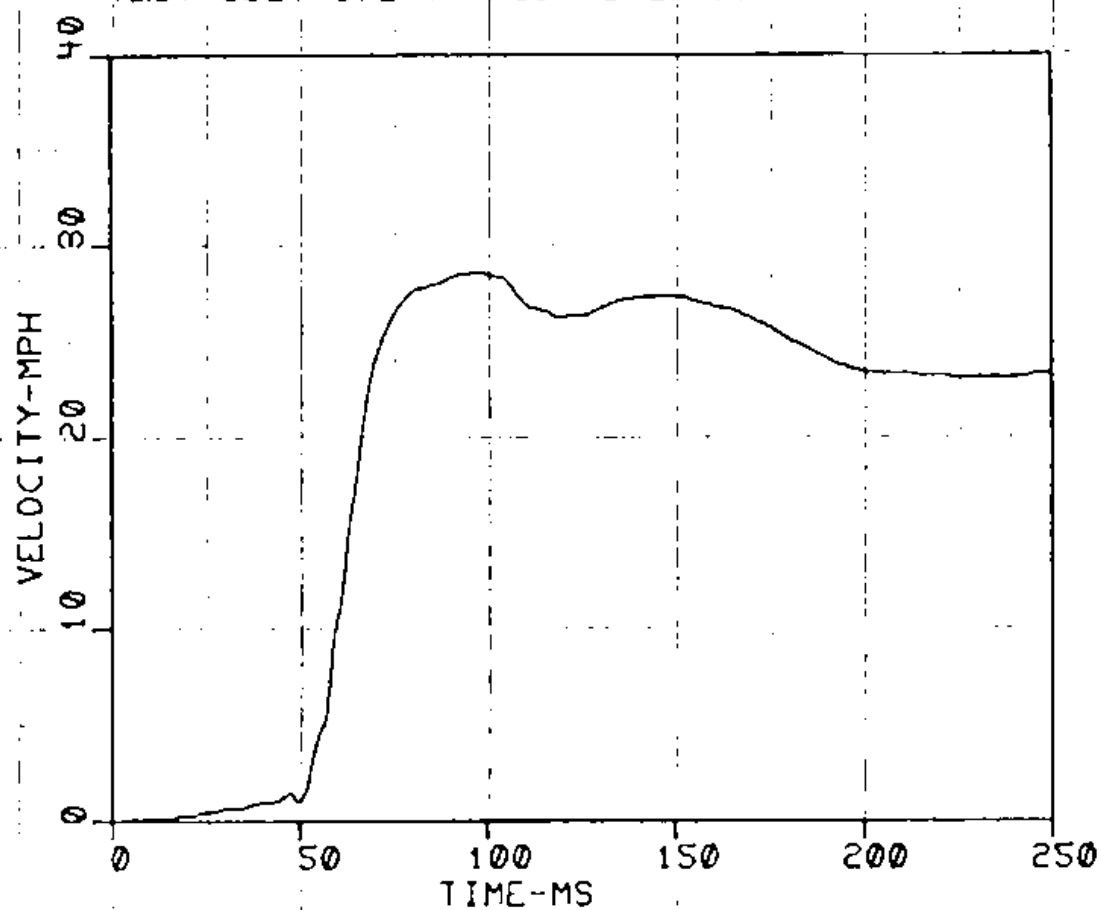
TEST#8327-6.2 VW MODRAB LR PPSX



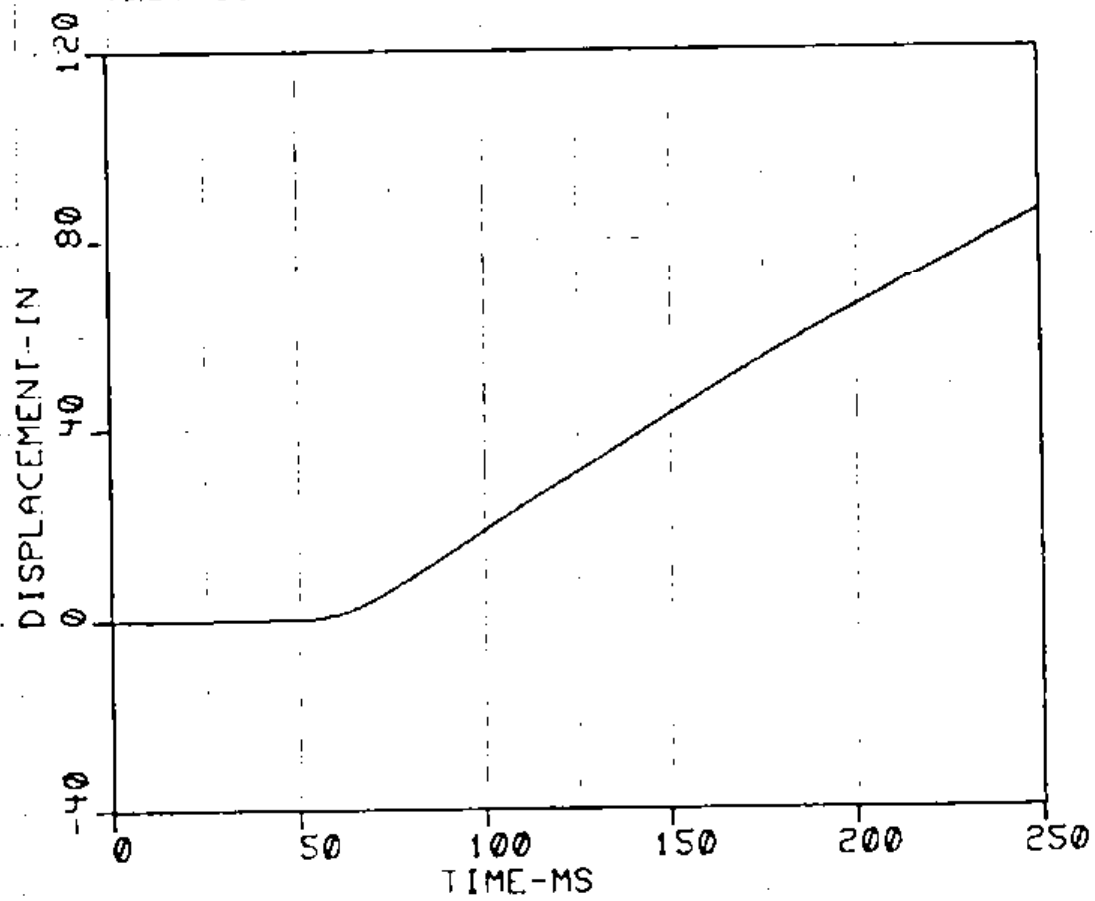
TEST#8327-6.2 VW MODRAB LR PRGY



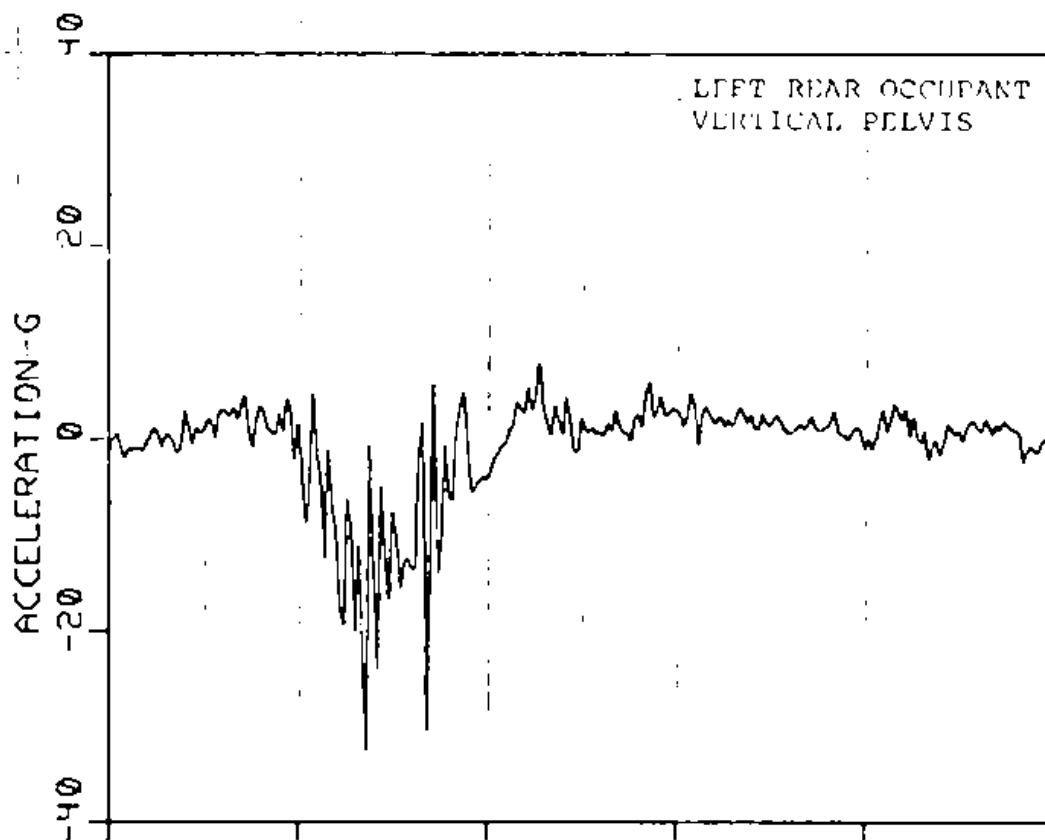
TEST#8327-6.2 VW MODRAB LR PRVY



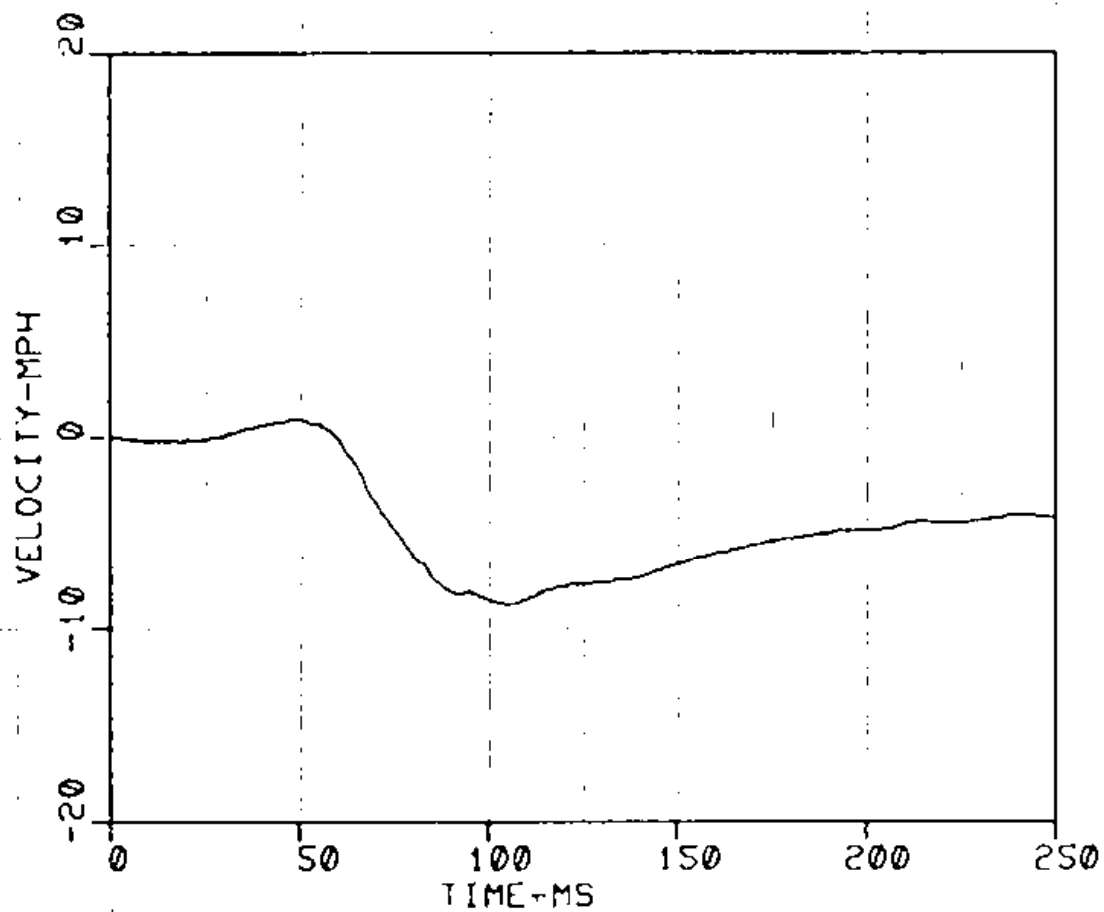
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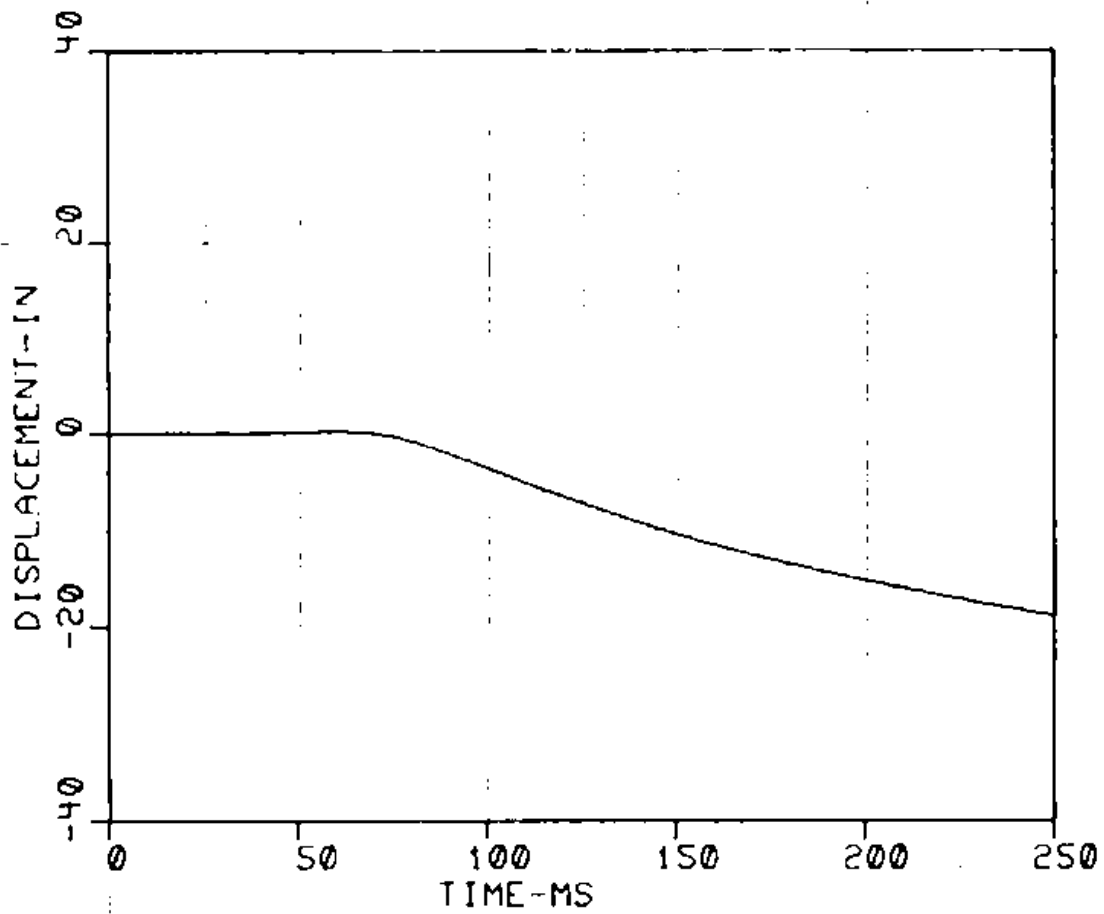
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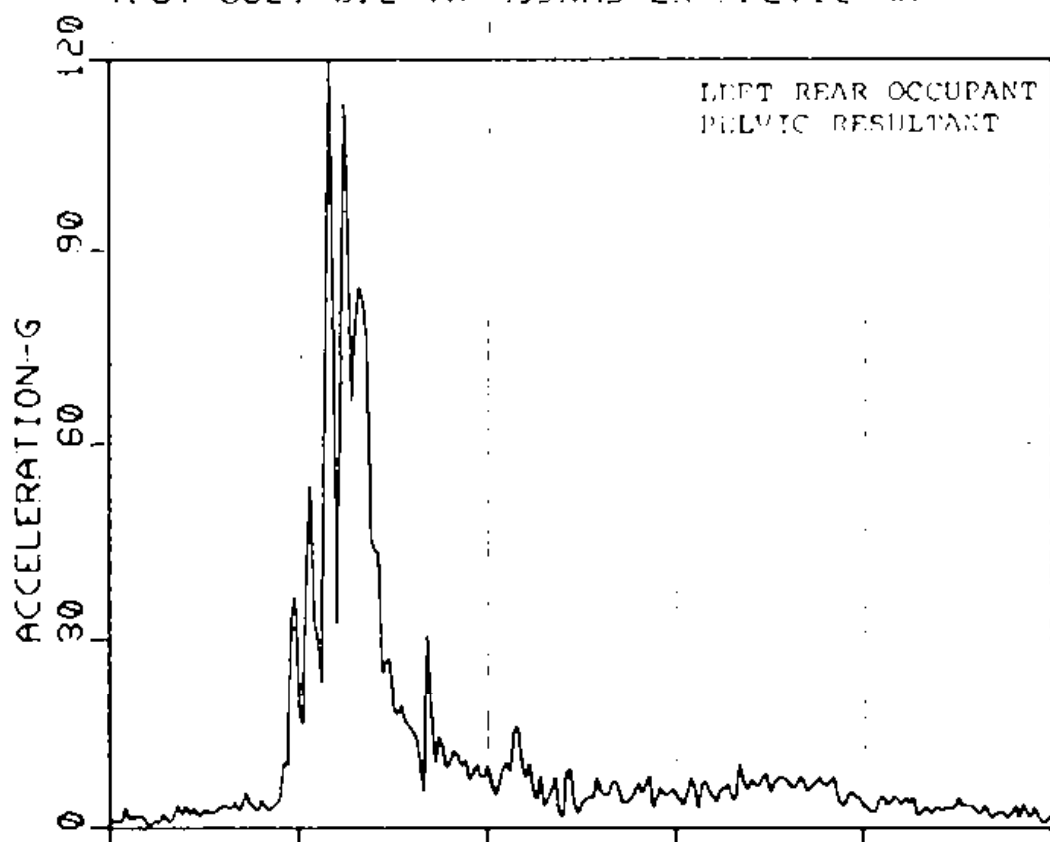
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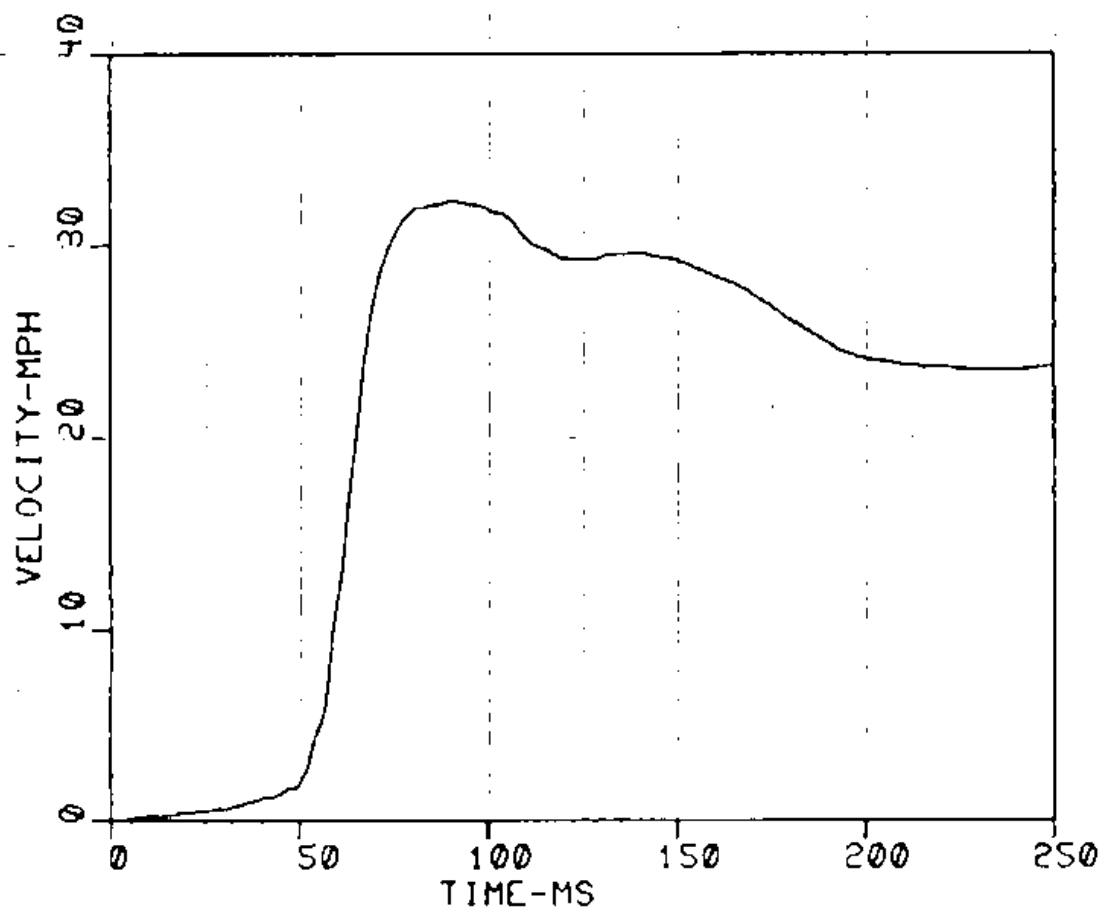
TEST#9327-6.2 VW MODRAB LR PISZ



TEST#8327-6.2 VW MODRAB LR PELVIC AR



TEST#8327-6.2 VW MODRAB LR PELVIC VR



TEST#8327-6.2 VW MODRAB LR PELVIC SR

