

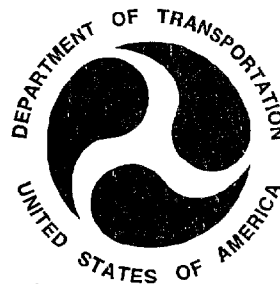
NEW CAR ASSESSMENT PROGRAM
SIDE IMPACT TEST

FORD MOTOR COMPANY

2000 FORD TAURUS
4 DOOR SEDAN

NHTSA NO: MY0211

MGA PROVING GROUNDS
5000 WARREN ROAD
BURLINGTON, WI 53105



Test Date: January 5, 2000

Report Date: January 13, 2000

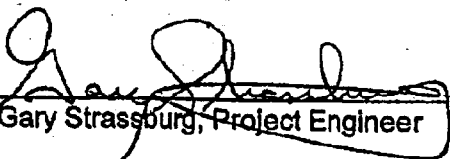
FINAL REPORT

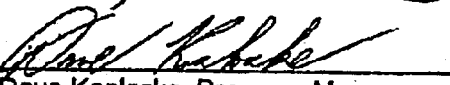
Prepared For:

U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
SAFETY PERFORMANCE STANDARDS
OFFICE OF CRASHWORTHINESS STANDARDS
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SECTION 1
PURPOSE AND TEST PROCEDURE

This side impact test is part of the FY00 NCAP Side Impact Program, sponsored by the National Highway Traffic Safety Administration (NHTSA), under Contract No. DTNH22-97-D-22001. The purpose of this test was to evaluate side impact protection of a 2000 Ford Taurus 4-Door.

This side impact test was conducted in accordance with the New Car Assessment Program Side Impact Testing Procedure dated October 1996.

MGA does not endorse or certify products. The manufacturer's name appears solely for identification purposes.

SECTION 2

SUMMARY OF SIDE IMPACT TEST

A 2000 Ford Taurus 4-Door was impacted on the left or driver's side by a Moving Deformable Barrier (MDB) which was moving forward in a 27° crabbed position to the tow road guidance system at a velocity of 38.2 mph (61.5 kph). The target vehicle was stationary and was positioned at an angle of 63° to the line of forward motion. The side impact test was conducted by MGA Research Corporation in Burlington, Wisconsin, on January 5, 2000. Pre- and post-test photographs of the test vehicle, the MDB and the side impact dummies (SIDs) are included in Appendix A.

Two Side Impact Dummies (SIDs) were placed in the driver and left rear designated seating positions according to instructions specified in the New Car Assessment Program Side Impact Laboratory Test Procedure which is dated October 1996. The side impact event was documented by nine high speed cameras. Camera locations and other pertinent camera information can be found in this report.

The SIDs were instrumented with the following accelerometers.

1. Left Upper Rib (LUR) uniaxial accelerometer (Y-direction)
2. Left Lower Rib (LLR) uniaxial accelerometer (Y-direction)
3. Lower Thoracic Spine (T₁₂) uniaxial accelerometer (Y-direction)
4. Pelvic (PEV) section uniaxial accelerometer (Y-direction)
5. Head Center of Gravity triaxial accelerometers (X, Y, and Z-direction)

The driver dummy was also instrumented with a 6 (six) neck transducer. The driver dummy was a SID III which is a standard SID with a modified head and neck assembly.

Appendix B contains the vehicle and dummy response data traces. A summary of the side impact dummy (SID) configuration and performance verification test data is shown in Appendix C. Dummy and vehicle calibration data can be found in Appendix D of this report.

The following table summarizes the results of the test:

Injury Criteria	Front SID	Rear SID
TTI (g)	85	85
Pelvis (g)	112	76

SECTION 3
SIDE IMPACT DUMMY (SID) AND
VEHICLE TEST DATA

DATA SHEET NO. 1
GENERAL VEHICLE TEST PARAMETER DATA

TEST VEHICLE INFORMATION:

Year/Make/Model/Body Style: 2000/Ford/Taurus /4 Door
 Vehicle NHTSA No.: MY0211 VIN: 1FAFP53U6Y6122419
 Vehicle Body Color: Gold Build Date: 11-99
 Engine Data: 6 Cylinders; CID; 3.0 Liter; cc
 Placement Longitudinal; X Lateral
 Transmission: 3 Speed; Manual; X Automatic; X Overdrive
 Final Drive: Rear Wheel Drive; X Frt. Wheel Drive; Four Wheel Drive

 Odometer Reading 410 miles
 Options: X A/C; X Pwr. Steering; X Pwr. Brakes; X Pwr. Windows;
 X Cruise Control; X Tilt Wheel; X Power Door Locks;

DATA FROM TIRE PLACARD:

Tire Pressure (at capacity): 30 Psi FRONT
30 Psi REAR
 Recommended Tire Size: P215/60/R16
 Tires on Test Vehicle: P215/ 60/R16 Manufacturer: Continental

Vehicle Capacity Data:

Number of Occupants: 3 Front; 3 Rear; 3rd Seat, 6 Total
 Type of Front Seats: X Bucket; Bench; Split Bench
 Type of Front Seat Back: Fixed; X Adjustable with X Lever
 Vehicle Maximum Capacity Loading = 499.0 kg (A)
 No. of Occupants x 68.04 kg. = 408.3 kg (B)
 Cargo Capacity (A-B) = 90.7 kg

GENERAL VEHICLE TEST PARAMETER DATA (Cont'd)WEIGHT OF TEST VEHICLE WITH MAXIMUM FLUIDS:

Right Front =	<u>492.6</u>	kg	Right Rear =	<u>259.0</u>	kg
Left Front =	<u>473.6</u>	kg	Left Rear =	<u>282.1</u>	kg
TOTAL FRONT =	<u>966.2</u>	kg	TOTAL REAR =	<u>541.1</u>	kg
% of Total Weight =	<u>64.1</u>	%	% of Total Weight =	<u>35.9</u>	%
TOTAL WEIGHT =	<u>1507.3</u>	kg			

GENERAL VEHICLE TEST PARAMETER DATA (Cont'd)Year/Make/Model/Body Style: 2000/Ford/Taurus/4 DoorVehicle NHTSA No.: MY0211 Test Date: January 5, 2000CALCULATION OF VEHICLE'S TARGET TEST WEIGHT:

Total Test Vehicle Delivered Weight with Maximum Fluids	=	<u>1507.3</u> kg
Cargo Carrying Capacity of Test Vehicle*	=	<u>90.7</u> kg
Weight of 2 Side Impact Dummies (2 x <u>80.7</u> kg.)	=	<u>161.4</u> kg
TEST VEHICLE TARGET WEIGHT	=	<u>1759.4</u> kg

ACTUAL WEIGHT OF TEST VEHICLE WITH 2 DUMMIES AND CARGO (Fully Loaded):

Right Front =	<u>498.5</u> kg	Right Rear =	<u>338.8</u> kg
Left Front =	<u>511.7</u> kg	Left Rear =	<u>409.1</u> kg
TOTAL FRONT =	<u>1010.2</u> kg	TOTAL REAR =	<u>747.9</u> kg
% of Total Weight =	<u>57.5</u> %	% of Total Weight =	<u>42.5</u> %
TOTAL WEIGHT =	<u>1758.1</u> kg		

TEST VEHICLE ATTITUDE:

CURB WEIGHT ATTITUDE:

Right Front 715 mm Left Front 714 mm Right Rear 712 mm Left Rear 693 mm

FULLY LOADED WEIGHT ATTITUDE:

Right Front 711 mm Left Front 702 mm Right Rear 668 mm Left Rear 641 mm

TEST ATTITUDE:

Right Front 705 mm Left Front 705 mm Right Rear 668 mm Left Rear 651 mm* light trucks and MPV's RCW is 136 kgs or manufacturer's value, whichever is less

GENERAL VEHICLE TEST PARAMETER DATA (Cont'd)

Test Vehicle Wheelbase: 2757 mm

C.G. = 1113 mm rearward of front wheel centerline

TOTAL VEHICLE LENGTH:

Right Side = 4310 mm

Centerline = 4968 mm

Left Side = 4310 mm

GENERAL VEHICLE TEST PARAMETER DATA (Cont'd)

Year/Make/Model/Body Style: 2000/Ford/Taurus/4 Door

Vehicle NHTSA No.: MY0211 Test Date: January 5, 2000

FRONT SEAT CUSHION PLACEMENT:

Total Length of Adjustment Travel: 254 mm

Test Position: 127 mm rearward of frontmost position

FRONT SEAT BACK ADJUSTMENT POSITION:

Seat Back Angle = 27.5° measured on the seat frame

SECOND POSITION SEAT:

Total Length of Fore/Aft Adjustment Travel: NA

Seat Back Adjustment Position: NA

ADJUSTABLE STEERING COLUMN POSITION: Mid position. Set in the third notch out of 5

<u>WINDOW POSITIONS:</u>	Left Front	<u>Closed</u>	Left Rear	<u>Closed</u>
	Right Front	<u>Open</u>	Right Rear	<u>Open</u>

AMOUNT OF STODDARD SOLVENT IN FUEL TANK:

Fuel system usable capacity = 16.0 gallons

Test Volume: 14.85 gallons 92.8 % of capacity

LOCATIONS OF IMPACT POINT ON TEST VEHICLE SIDE TO BE IMPACTED:

Wheelbase: = 2757 mm

Impact Point is 439 mm rearward of front axle centerline

DATA SHEET NO. 2
TEST VEHICLE SUMMARY OF RESULTS

Year/Make/Model/Body Style: 2000/Ford/Taurus/4 Door

Vehicle NHTSA No.: MY0211 Test Date: January 5, 2000

Overall Length = 4968 mm; Overall Width = 1852 mm

TEST WEIGHT:

Right Front =	<u>520.3</u>	kg	Right Rear =	<u>334.3</u>	kg
Left Front =	<u>523.9</u>	kg	Left Rear =	<u>372.4</u>	kg
TOTAL FRONT =	<u>1044.2</u>	kg	TOTAL REAR =	<u>706.7</u>	kg
% of Total Weight =	<u>59.6</u>	%	% of Total Weight =	<u>40.4</u>	%
TOTAL WEIGHT =	<u>1750.9</u>	kg			

Wheelbase = 2757 mm

Longitudinal C.G. from Center of Front Axle = 1113 mm

Impact Angle with Respect to Impactor = 90 degrees

MAXIMUM EXTERIOR STATIC CRUSH:

1. LEVEL 1 (255 mm above ground) = 208 mm
2. LEVEL 2 (524 mm above ground) = 435 mm
3. LEVEL 3 (611 mm above ground) = 406 mm
4. LEVEL 4 (902 mm above ground) = 318 mm
5. LEVEL 5 (1325 mm above ground) = 106 mm

Maximum Post-Test Intrusion = 435 mm

OCCUPANTS:

	<u>Driver</u>	<u>Left Rear Passenger</u>
Type of Dummy	<u>SID</u>	<u>SID</u>
Restraints Used	<u>Side Airbag and 3pt</u> <u>belt</u>	<u>3pt belt</u>

TEST VEHICLE SUMMARY OF RESULTS (Cont'd)INSTRUMENTATION:

Number of Vehicle Data Channels:	=	<u>24</u>
Number of Cameras:		
Onboard Vehicle	=	<u>3</u>
Offboard Vehicle	=	<u>4</u>
Deformable Barrier	=	<u>2</u>
TOTAL	=	<u>9</u>

DATA SHEET NO. 3

MOVING DEFORMABLE BARRIER (MDB) SUMMARY OF RESULTSYear/Make/Model/Body Style: 2000/Ford/Taurus/4 DoorVehicle NHTSA No.: MY0211 Test Date: January 5, 2000POSITION OF IMPACT (MDB) ON MONORAIL:Crabbed 27° to leftMDB DETAILS:

Overall Width of Framework Carriage	=	<u>1252 mm</u>
Overall Length of MDB (incl. honeycomb impact face)	=	<u>4115 mm</u>
Wheelbase of Framework Carriage	=	<u>2591 mm</u>
Tread of Framework Carriage (Front & Rear)	=	<u>1880 mm</u>
C.G. Location Rearward of Front Axle	=	<u>1100 mm</u>
C.G. Location From Center Line	=	<u>-10 mm</u>
C.G. Location Above Ground Level	=	<u>477 mm</u>

MDB WEIGHT:

Left Front	=	<u>458.8 kg</u>	Left Rear	=	<u>230.3 kg</u>
Right Front	=	<u>324.4 kg</u>	Right Rear	=	<u>350.6 kg</u>
TOTAL FRONT	=	<u>783.2 kg</u>	TOTAL REAR	=	<u>580.9 kg</u>
TOTAL MDB WEIGHT = <u>1364.1 kg</u>					

Impact Angle (MDB C/L to Target Vehicle C/L) = 90 degreesImpact Speed = Primary: 38.2 mph (61.5 kph) Secondary: 38.0 mph (61.2 kph)

CRASH TEST SUMMARY FOR SIDE IMPACTOR (Cont'd)MAXIMUM STATIC CRUSH OF HONEYCOMB IMPACT FACE:

- | | | |
|----|---------------------------------|-----------------|
| 1. | Row A Top of Stack (813 mm) | = <u>118</u> mm |
| 2. | Row B Mid Stack (686 mm) | = <u>79</u> mm |
| 3. | Row C Top of Bumper (533 mm) | = <u>86</u> mm |
| 4. | Row D Center of Bumper (432 mm) | = <u>151</u> mm |

INSTRUMENTATION:

Number of MDB Data Channels = 7

DATA SHEET NO. 4

POST-TEST OBSERVATIONSYear/Make/Model/Body Style: 2000/Ford/Taurus/4 DoorVehicle NHTSA No.: MY0211 Test Date: January 5, 2000VISIBLE DUMMY CONTACT POINTS:

	<u>LEFT FRONT SID</u>	<u>LEFT REAR SID</u>
Head	<u>Airbag</u>	<u>C-Post</u>
Arm	<u>Airbag</u>	<u>Door panel</u>
Pelvis	<u>Airbag</u>	<u>Arm rest</u>
Left Knee	<u>Door panel</u>	<u>Door panel</u>
Right Knee	<u>Left Knee</u>	<u>Left Knee</u>

DOOR OPENING:

	<u>LEFT SIDE</u>	<u>RIGHT SIDE</u>
Front	<u>Door opened at latch</u>	<u>Remained closed</u>
Rear	<u>Door opened at latch</u>	<u>Remained closed</u>

MDB DISTANCE FROM TARGET IMPACT POINT:Horizontal: 1 mm ForwardVertical: 13 mm AboveARM REST LOCATIONS:Front: 228 mm from below windowRear: 237 mm from below window

POST-TEST OBSERVATIONS (Cont'd)SEAT CRUSH:

Front Seat Back:	72 mm	Front Seat Cushion:	53 mm
Left Rear Seat Back:	44 mm	Rear Seat Cushion:	12 mm

GLAZING DAMAGE:

Windshield cracked, front and rear left side door glass broken

PILLAR PERFORMANCE:

No separation was noted

SILL SEPARATION:

None

OTHER NOTABLE IMPACT EFFECTS:

Front and rear left side doors opened at the latches

AIRBAG DEPLOYMENT STATUS:

	<u>DRIVER</u>	<u>FRONT PASSENGER</u>	<u>REAR PASSENGER</u>
Frontal	<u>No</u>	<u>No</u>	<u>NA</u>
Side	<u>Yes</u>	<u>No</u>	<u>NA</u>

SECTION 4
OCCUPANT AND VEHICLE INFORMATION

DATA SHEET NO. 5
SIDE IMPACT DUMMY (SID) INSTRUMENTATION DATA

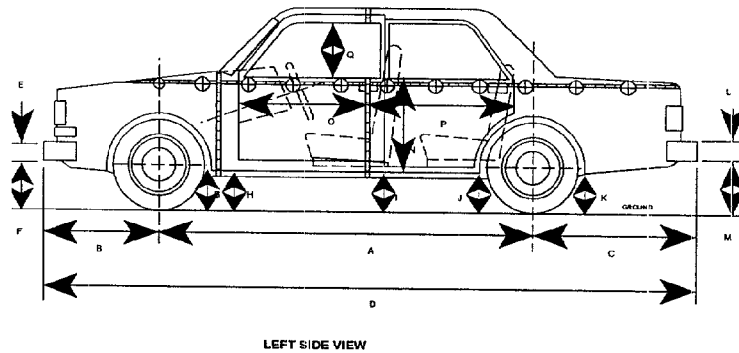
Year/Make/Model/Body Style: 2000/Ford/Taurus/4 Door

Vehicle NHTSA No.: MY0211 Test Date: January 5, 2000

		Driver SID ID # 271			Left Passenger SID ID # 272		
		Pos. Direct.		Neg. Direct.	Pos. Direct.		Neg. Direct.
		Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)
HEAD ACCELERATIONS							
Longitudinal		6.1	200	-35.1	92	5.3	40
Lateral		23.4	48	-7.7	179	121.0	55
Vertical		44.1	67	-3.8	89	19.9	48
Resultant		48.8	67	----	----	123.8	54
HIC		256	----	----	----	804	----
RIB ACCELERATIONS							
Left Upper Rib (LUR) Y		86.4	38	-18.3	76	82.3	38
Left Lower Rib (LLR) Y		75.6	36	-21.0	18	95.2	37
SPINE ACCELERATIONS							
Lower Lateral Y		83.6	34	-33.6	67	74.8	50
PELVIS ACCELERATIONS							
Lateral Y		111.6	30	-31.5	72	75.5	39

REFERENCE: Positive Direction- Longitudinal (X) = forward
Lateral (Y) = to right
Vertical (Z) = down

DATA SHEET NO. 6
VEHICLE PRE AND POST-TEST MEASUREMENTS



D = Length at Centerline

R = Right Side Length

S = Left Side Length

T = Width at B Post

E & L = Bumper Thickness

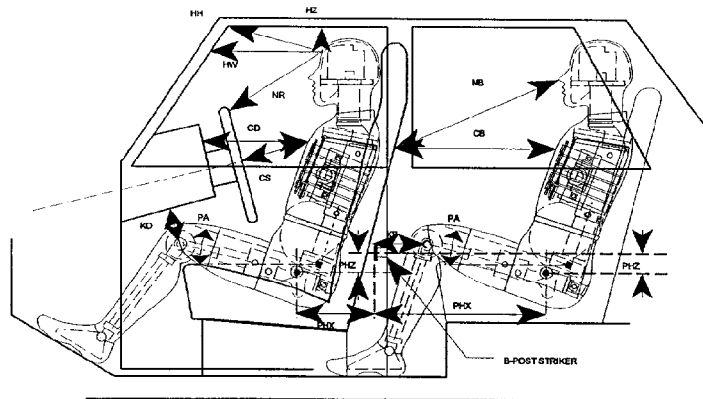
J1 = To Pinch Weld

J2 = To Sill

ALL MEASUREMENTS IN (mm)

	PRE-TEST	POST-TEST	Δ CHANGE
A	2757	2718	39
B	1025	1038	-13
C	1186	1239	-53
D	4968	4995	-27
E	140	140	0
F	395	414	-19
G	172	165	7
H	180	174	6
I	163	123	40
J1/J2	156/161	155/147	1/14
K	230	235	-5
L	170	170	0
M	371	405	-34
N	645	570	75
O	812	726	86
P	1221	845	376
Q	475	443	32
R	4310	4318	-8
S	4310	4234	76
T	1852	1512	340

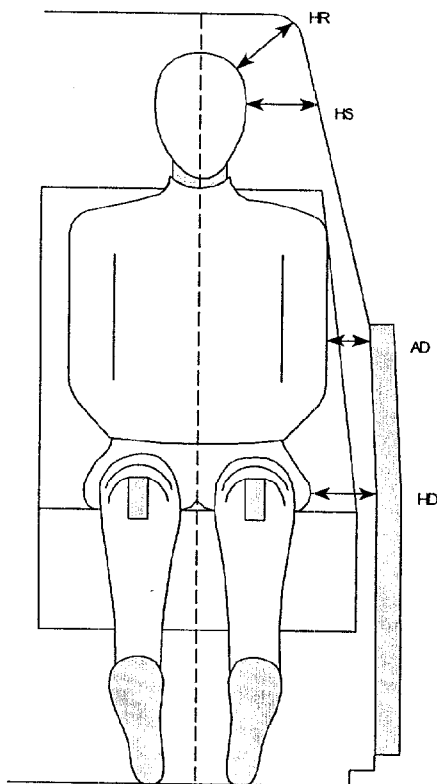
DATA SHEET NO. 7

SIDE IMPACT DUMMY (SID) LONGITUDINAL CLEARANCE DIMENSIONSYear/Make/Model/Body Style: 2000/Ford/Taurus/4 DoorNHTSA NO.: MY0211 Test Date: January 5, 2000NOTE: All dimensions are in mm with tolerance of ± 3 mm

	DRIVER SID ID # 271		LEFT REAR PASSENGER SID ID # 272
HH	352	HZ	173
HW	621	NB	648
HZ	153	CB	585
NR	411	KBL (KBA)	282 (0.0°)
CD	534	KBR (KBA)	273 (0.0°)
CS	308	PA°	23.2°
KDL(KDA°)	187 (28.5°)	PHX	235
KDR(KDA°)	172 (38.3°)	PHZ	300
PA°	23.3°		
PHX	177		
PHZ	143		

NOTE: 2-door vehicle shown. Rear dummy PHX & PHZ measurements for 4-door vehicle would use the C-post striker as reference point.

DATA SHEET NO. 8

SIDE IMPACT DUMMY (SID) LATERAL CLEARANCE DIMENSIONSYear/Make/Model/Body Style: 2000/Ford/Taurus/4 DoorNHTSA NO.: MY0211 Test Date: January 5, 2000

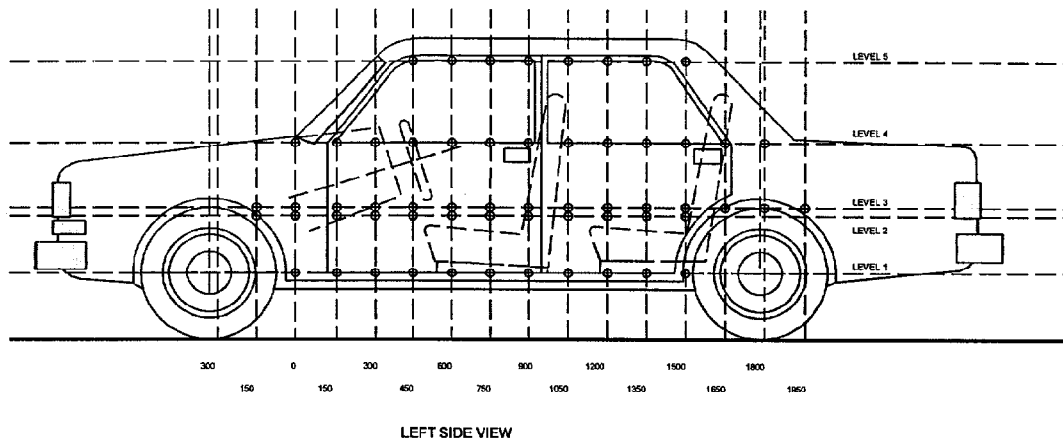
NOTE: All dimensions are in mm

	DRIVER SID ID # 271	LEFT REAR PASSENGER SID ID # 272
HR	205	190
HS	340	238
AD	119	102
HD	144	161

DATA SHEET NO. 9
VEHICLE SIDE MEASUREMENTS

Year/Make/Model/Body Style: 2000/Ford/Taurus/4 Door

NHTSA NO.: MY0211 Test Date: January 5, 2000



NOTE: All measurements are in millimeters (mm)

LEVEL 5 - WINDOW TOP
LEVEL 4 - WINDOW SILL
LEVEL 3 - MID-DOOR
LEVEL 2 - OCCUPANT H-POINT
LEVEL 1 - AXLE CENTERLINE HEIGHT OR SILL TOP HEIGHT

MEASUREMENTS ARE TAKEN WHEN THE VEHICLE IS IN THE "AS TESTED" CONFIGURATION

MEASUREMENTS ALONG THE VERTICAL 750 mm. LINE SHOWN ABOVE

Level 1 @ Axle Centerline Height (or Sill Top Height)	= <u>255</u> mm
Level 2 @ Occupant H-Point	= <u>524</u> mm
Level 3 @ Mid Door	= <u>611</u> mm
Level 4 @ Window Sill	= <u>902</u> mm
Level 5 @ Window Top	= <u>1325</u> mm

** The front and rear doors were ajar (open at the latches) when post test measurements were taken.

DATA SHEET NO. 10
VEHICLE EXTERIOR CRUSH PROFILES

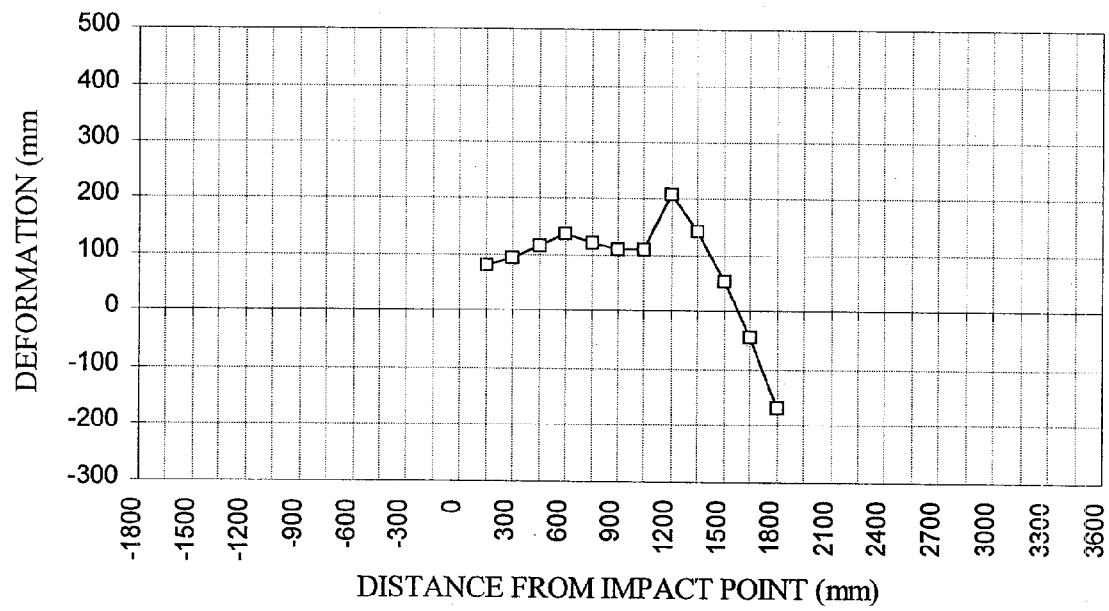
Longitudinal Distance (mm)	Level 1 - Axle Centerline		
	Pre-Test (mm)	Post-Test (mm)	Static Crush (mm)
-1800			
-1650			
-1500			
-1350			
-1200			
-1050			
-900			
-750			
-600			
-450			
-300			
-150			
0 (impact point)			
150	632	712	80
300	629	723	94
450	626	740	114
600	626	762	136
750	624	744	120
900	622	730	108
1050	622	730	108
1200	620	828	208
1350	621	763	142
1500	622	675	53
1650	624	578	-46
1800	626	460	-166

Reference plane is parallel to test vehicle longitudinal centerline.
Given dimensions = Reference plane to car body

DATA SHEET NO. 10
VEHICLE EXTERIOR CRUSH PROFILES

	Level 1 - Axle Centerline		
Longitudinal Distance (mm)	Pre-Test (mm)	Post-Test (mm)	Static Crush (mm)
1950			
2100			
2250			
2400			
2550			
2700			
2850			
3000			
3150			
3300			
3450			
3600			

Reference plane is parallel to test vehicle longitudinal centerline.
 Given dimensions = Reference plane to car body

VEHICLE EXTERIOR STATIC CRUSH

LEVEL 1 - AXLE CENTERLINE

DATA SHEET NO. 10
VEHICLE EXTERIOR CRUSH PROFILES

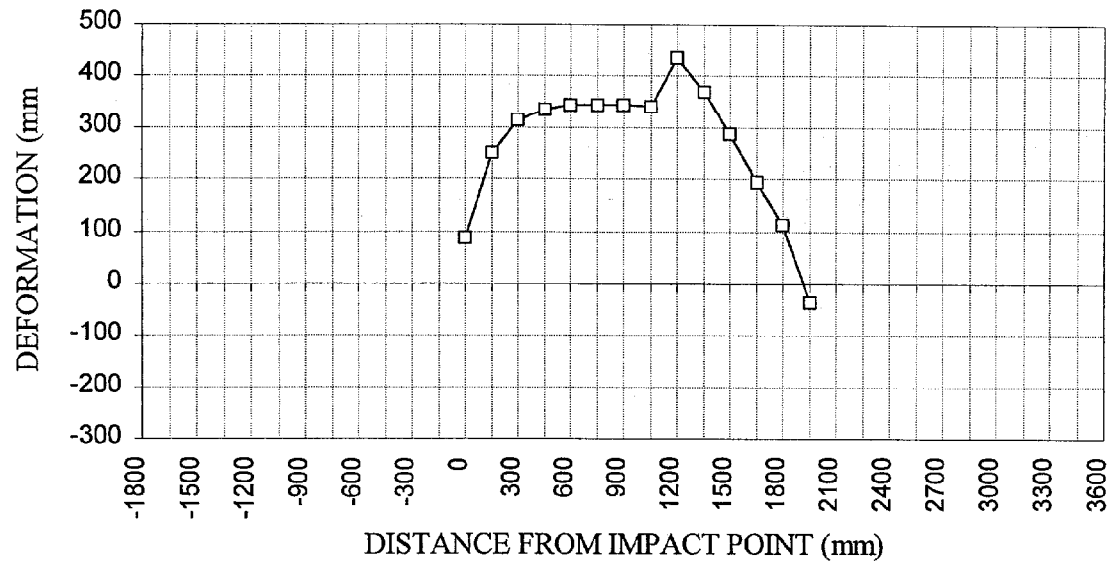
Longitudinal Distance (mm)	Level 2 - Occupant H-Point		
	Pre-Test (mm)	Post-Test (mm)	Static Crush (mm)
-1800			
-1650			
-1500			
-1350			
-1200			
-1050			
-900			
-750			
-600			
-450			
-300			
-150			
0 (impact point)	543	630	87
150	533	782	249
300	531	845	314
450	528	861	333
600	526	868	342
750	525	867	342
900	521	863	342
1050	518	857	339
1200	516	951	435
1350	516	884	368
1500	518	805	287
1650	518	713	195
1800	517	630	113

Reference plane is parallel to test vehicle longitudinal centerline.
Given dimensions = Reference plane to car body

DATA SHEET NO. 10
VEHICLE EXTERIOR CRUSH PROFILES

	Level 2 - Occupant H-Point		
Longitudinal Distance (mm)	Pre-Test (mm)	Post-Test (mm)	Static Crush (mm)
1950	523	487	-36
2100			
2250			
2400			
2550			
2700			
2850			
3000			
3150			
3300			
3450			
3600			

Reference plane is parallel to test vehicle longitudinal centerline.
 Given dimensions = Reference plane to car body

VEHICLE EXTERIOR STATIC CRUSH

LEVEL 2 - OCCUPANT H-POINT

DATA SHEET NO. 10
VEHICLE EXTERIOR CRUSH PROFILES

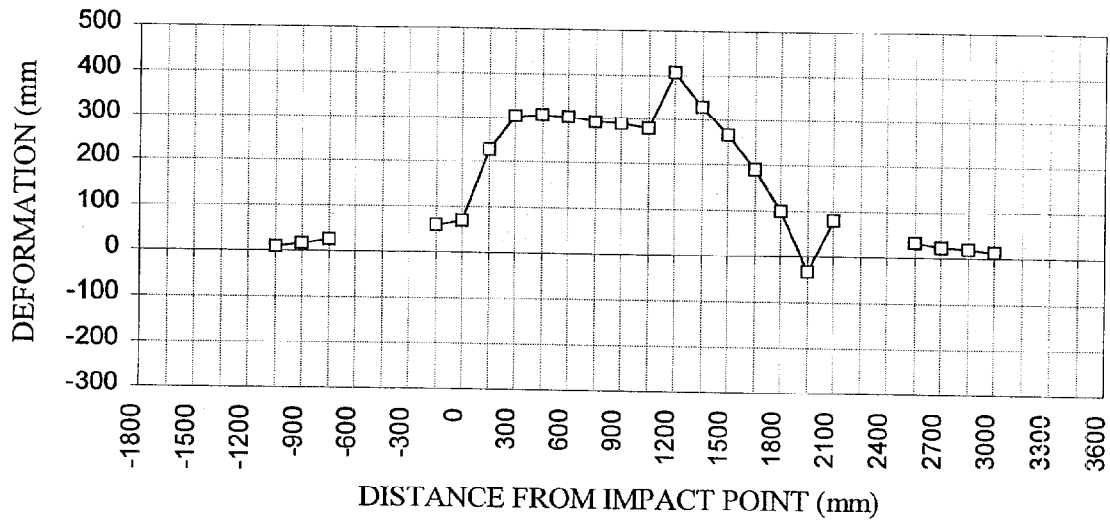
	Level 3 - Mid-Door		
Longitudinal Distance (mm)	Pre-Test (mm)	Post-Test (mm)	Static Crush (mm)
-1800			
-1650			
-1500			
-1350			
-1200			
-1050	619	628	9
-900	591	608	17
-750	558	582	24
-600			
-450			
-300			
-150	532	590	58
0 (impact point)	545	615	70
150	542	770	228
300	542	845	303
450	540	847	307
600	538	843	305
750	538	832	294
900	533	824	291
1050	531	811	280
1200	531	937	406
1350	529	859	330
1500	529	798	269
1650	528	718	190
1800	526	625	99

Reference plane is parallel to test vehicle longitudinal centerline.
Given dimensions = Reference plane to car body

DATA SHEET NO. 10
VEHICLE EXTERIOR CRUSH PROFILES

	Level 3 - Mid-Door		
Longitudinal Distance (mm)	Pre-Test (mm)	Post-Test (mm)	Static Crush (mm)
1950	523	488	-35
2100	517	594	77
2250			
2400			
2550	536	568	32
2700	563	584	21
2850	581	600	19
3000	606	619	13
3150			
3300			
3450			
3600			

Reference plane is parallel to test vehicle longitudinal centerline.
 Given dimensions = Reference plane to car body

VEHICLE EXTERIOR STATIC CRUSH

LEVEL 3 - MID-DOOR

DATA SHEET NO. 10
VEHICLE EXTERIOR CRUSH PROFILES

	Level 4 - Window Sill		
Longitudinal Distance (mm)	Pre-Test (mm)	Post-Test (mm)	Static Crush (mm)
-1800			
-1650			
-1500			
-1350			
-1200			
-1050			
-900	672	687	15
-750	655	675	20
-600	645	667	22
-450	630	657	27
-300	619	652	33
-150	610	646	36
0 (impact point)	603	642	39
150	595	703	108
300	591	723	132
450	587	753	166
600	583	790	207
750	578	784	206
900	576	780	204
1050	571	784	213
1200	571	889	318
1350	568	818	250
1500	568	756	188
1650	567	692	125
1800	569	594	25

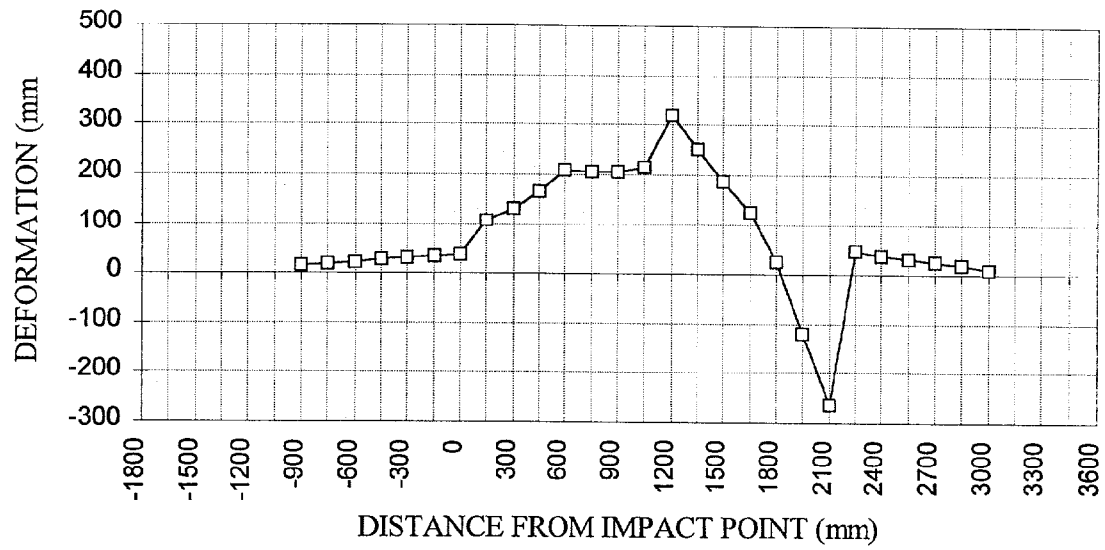
Reference plane is parallel to test vehicle longitudinal centerline.
Given dimensions = Reference plane to car body

DATA SHEET NO. 10
VEHICLE EXTERIOR CRUSH PROFILES

	Level 4 - Window Sill		
Longitudinal Distance (mm)	Pre-Test (mm)	Post-Test (mm)	Static Crush (mm)
1950	569	452	-117
2100	575	310	-265
2250	582	630	48
2400	591	628	37
2550	603	634	31
2700	620	644	24
2850	638	658	20
3000	664	675	11
3150			
3300			
3450			
3600			

Reference plane is parallel to test vehicle longitudinal centerline.
 Given dimensions = Reference plane to car body

VEHICLE EXTERIOR STATIC CRUSH



LEVEL 4 - WINDOW SILL

DATA SHEET NO. 10
VEHICLE EXTERIOR CRUSH PROFILES

	Level 5 - Window Top		
Longitudinal Distance (mm)	Pre-Test (mm)	Post-Test (mm)	Static Crush (mm)
-1800			
-1650			
-1500			
-1350			
-1200			
-1050			
-900			
-750			
-600			
-450			
-300			
-150			
0 (impact point)			
150			
300			
450			
600			
750	866	913	47
900	858	920	62
1050	850	939	89
1200	849	955	106
1350	847	952	105
1500	847	927	80
1650	847	912	65
1800	850	898	48

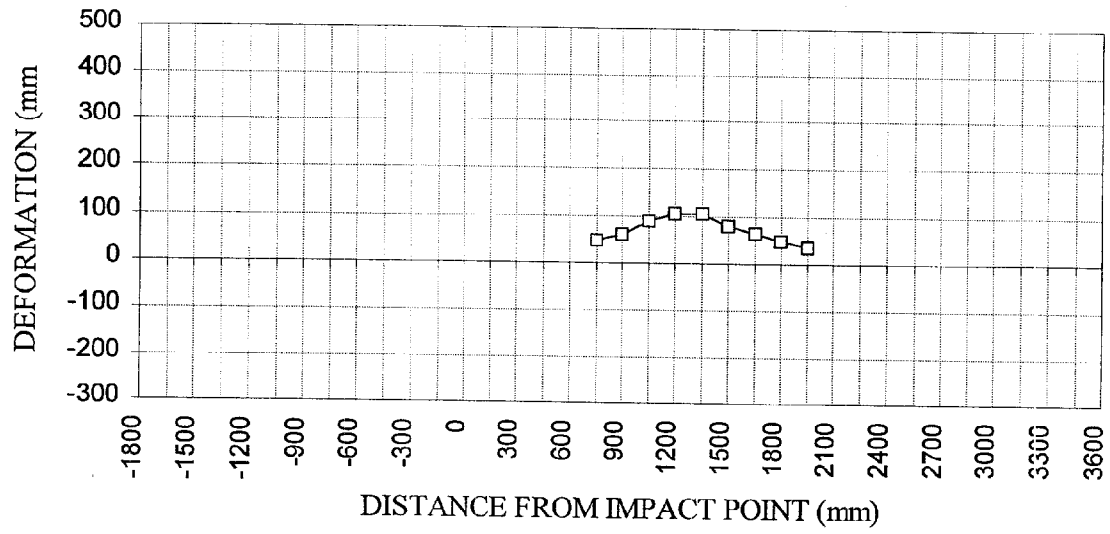
Reference plane is parallel to test vehicle longitudinal centerline.
Given dimensions = Reference plane to car body

DATA SHEET NO. 10
VEHICLE EXTERIOR CRUSH PROFILES

	Level 5 - Window Top		
Longitudinal Distance (mm)	Pre-Test (mm)	Post-Test (mm)	Static Crush (mm)
1950	851	888	37
2100			
2250			
2400			
2550			
2700			
2850			
3000			
3150			
3300			
3450			
3600			

Reference plane is parallel to test vehicle longitudinal centerline.
 Given dimensions = Reference plane to car body

VEHICLE EXTERIOR STATIC CRUSH

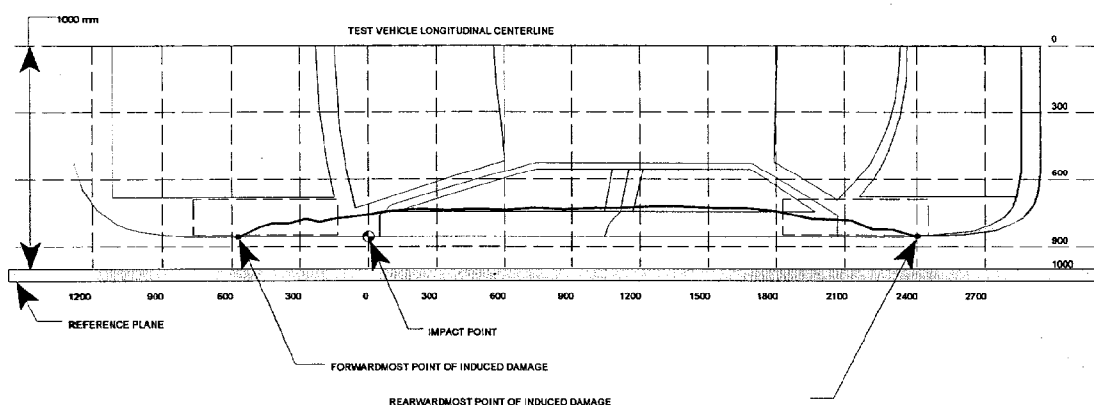
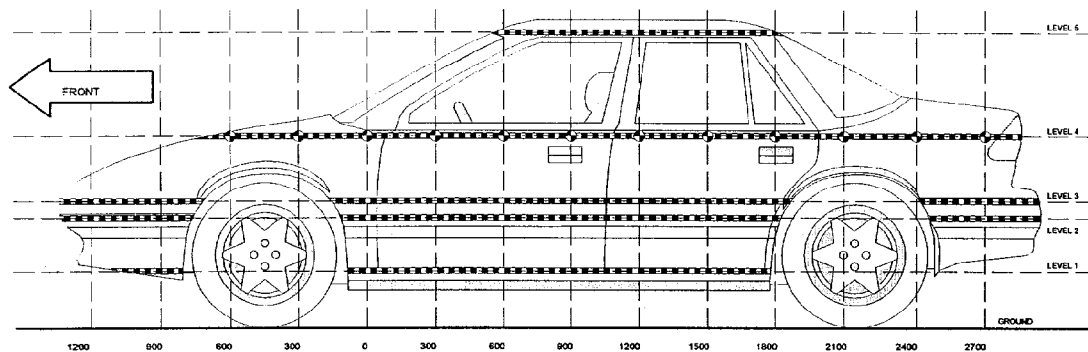


LEVEL 5 - WINDOW TOP

DATA SHEET NO. 11
VEHICLE DAMAGE PROFILE DISTANCES

Year/Make/Model/Body Style:

NHTSA NO.: MY0211 Test Date: January 5, 2000



NOTE: All measurements are in millimeters (mm)

DPD MEASUREMENTS	POST-TEST (mm)	PRE-TEST (mm)	STATIC CRUSH (mm)
1. (LR = <u>3000</u> mm)	675	664	11
2. 2203 mm	631	578	53
3. 1301 mm	914	516	398
4. 526 mm	872	527	345
5. -259 mm	658	617	41
6. (LF = <u>-1050</u> mm)	628	619	9

DATA SHEET NO. 12
EXTERIOR STATIC CRUSH FOR SIDE IMPACTOR

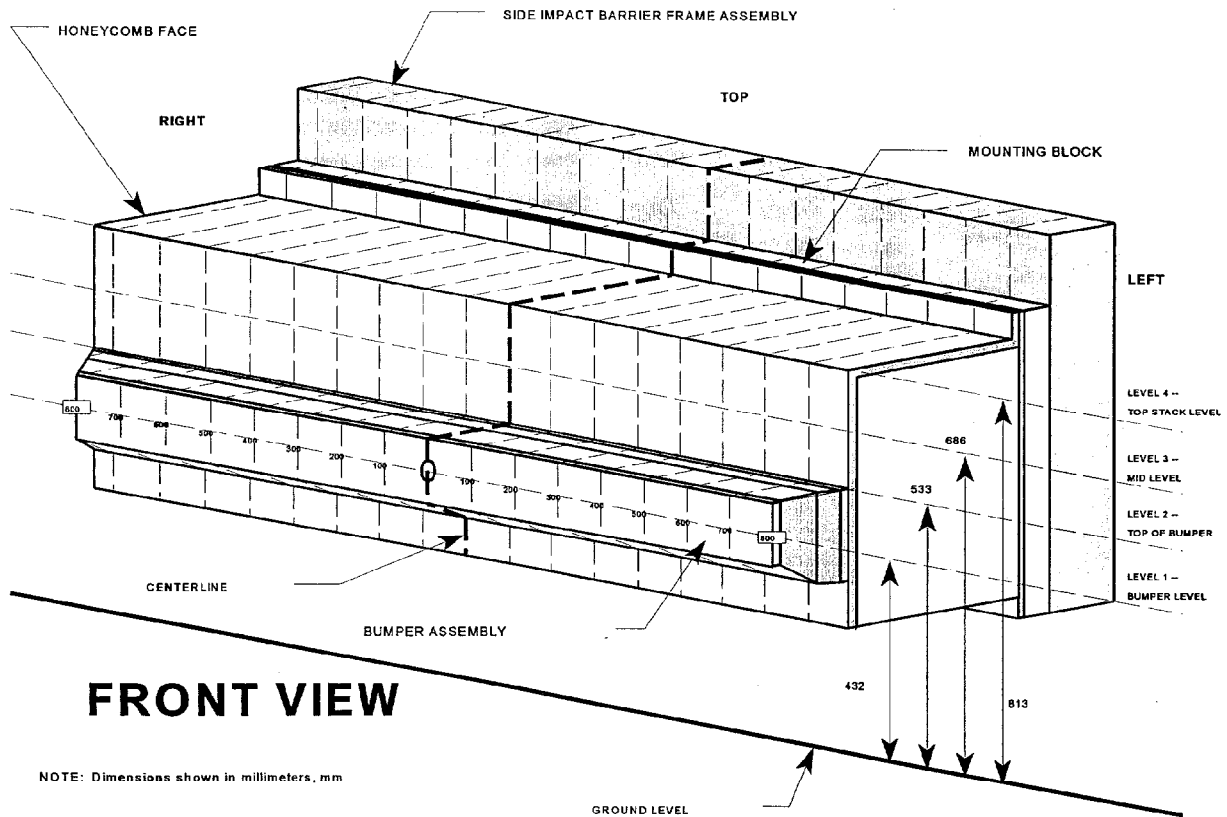
Year/Make/Model/Body Style: 2000/Ford/Taurus/4 Door

Vehicle NHTSA No.: MY0211 Test Date: January 5, 2000

Location	Height at CL	Distance Right of Center (mm)									Distance Left of Center (mm)							
		800	700	600	500	400	300	200	100	0	100	200	300	400	500	600	700	800
Top Stack Level 4	813 mm	74	21	3	3	0	0	3	7	6	5	7	10	14	26	42	76	118
Mid Level Level 3	686 mm	54	9	3	0	0	0	5	11	9	2	3	6	5	6	8	21	79
Top Bumper Level 2	533 mm	86	46	23	9	1	3	4	5	9	14	20	25	31	38	54	70	84
Mid Bumper Level 1	432 mm	151	117	84	63	43	30	26	30	34	40	47	51	56	67	81	102	131

See next page for Barrier Face Graphic

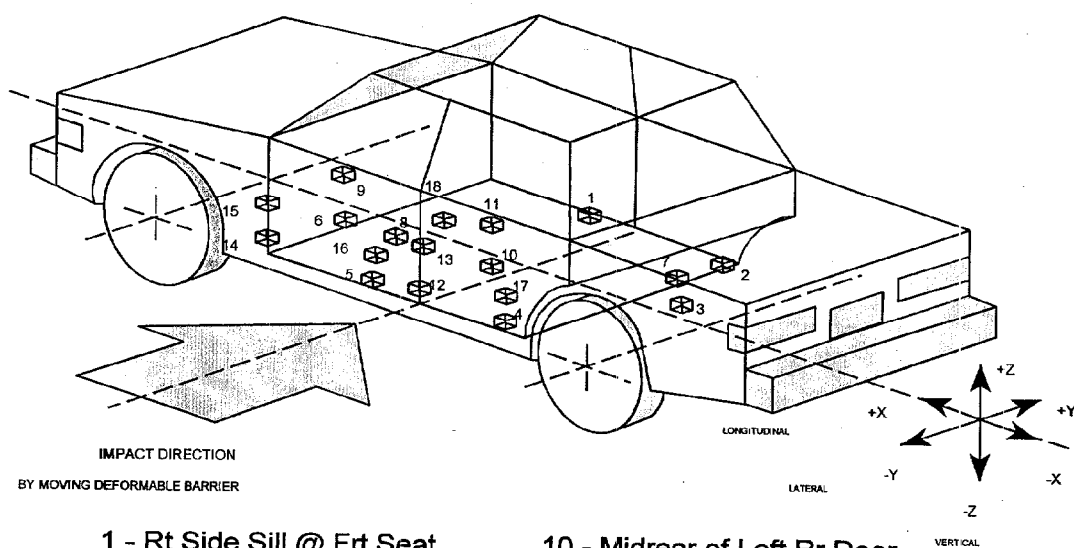
DATA SHEET NO. 12 (Cont'd)



DATA SHEET 13
TEST VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Year/Make/Model/Body Style: 2000/Ford/Taurus/4 Door

Vehicle NHTSA No.: MY0211 Test Date: January 5, 2000



- 1 - Rt Side Sill @ Frt Seat
- 2 - Rt Side Sill @ Rr Seat
- 3 - Rr Floorpan Above Axle
- 4 - Left Side Sill @ Rr Seat
- 5 - Left Side Sill @ Frt Seat
- 6 - Left Frt Door on Centerline
- 7 - Rt Rr Occ Compartment
- 8 - Midrear of Left Frt Door
- 9 - Left Frt Door Upr C/Line

- 10 - Midrear of Left Rr Door
- 11 - Left Rr Door Upr C/Line
- 12 - Left Lwr B-Post
- 13 - Left Middle B-Post
- 14 - Left Lwr A-Post
- 15 - Left Middle A-Post
- 16 - Frt Seat Track
- 17 - Rr Seat Track
- 18 - Vehicle C.G.

DATA SHEET NO. 13

TEST VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Year/Make/Model/Body Style: 2000/Ford/Taurus/4 Door

Vehicle NHTSA No.: MY0211 Test Date: January 5, 2000

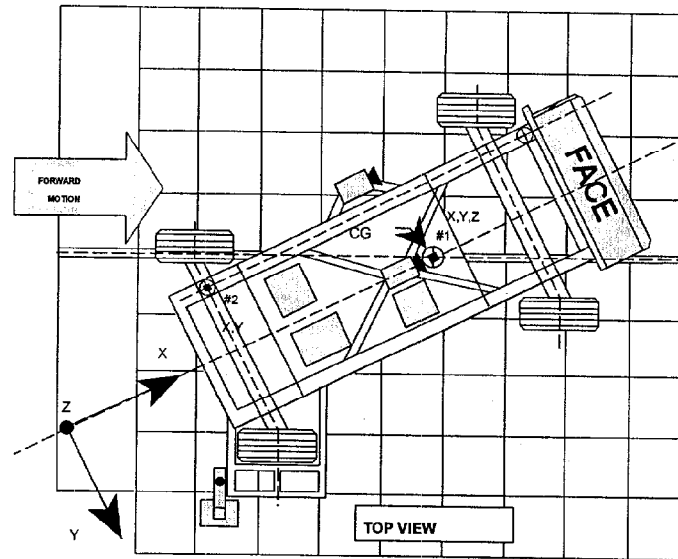
Accel. No.	Description	Coordinates (mm)*			Long. (X) Maximums (g's)		Lat. (Y) Maximums (g's)		Vert. (Z) Maximums (g's)		Resultant (g's)
		X	Y	Z	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	
1	Rt. Side Sill @ Front Seat	2852	670	208	3.7	-2.7	32.0	-5.8	5.3	-4.3	32.0
2	Rt. Side Sill @ Rear Seat	1930	670	202	3.2	-3.9	27.7	-2.8	4.1	-6.3	28.0
3	Rr. Floorpan Above Axle	1240	0	490	3.4	-8.9	19.6	-3.0	9.4	-6.2	20.0
4	Left Side Sill @ Rr. Seat	1922	-670	205	----	----	45.2	-5.0	----	----	----
5	Left Side Sill @ Frt. Seat	2850	-670	210	----	----	46.4	-8.6	----	----	----
6	Left Front Door Centerline	2915	-760	583	----	----	116.1	-45.6	----	----	----
7	Right Rear Occupant Compartment	2053	352	332	----	----	35.1	-5.1	----	----	----
9	Left Front Door Upper Centerline	2880	-760	868	----	----	160.4	-95.6	----	----	----
10	Left Rear Door Mid Rear	1644	-768	595	----	----	204.5	-120.0	----	----	----
11	Left Rear Door Upper Centerline	1880	-760	855	----	----	128.3	-62.0	----	----	----
12	Left Lower B-Post	2248	-660	285	----	----	52.3	-15.4	----	----	----
13	Left Mid B-Post	2244	-735	952	----	----	152.8	-45.0	----	----	----
14	Left Lower A-Post	2888	-725	490	----	----	81.3	-57.4	----	----	----
15	Left Mid A-Post	3382	-820	845	----	----	48.7	-8.5	----	----	----
16	Driver Left Seat Track	2458	-555	315	----	----	57.6	-16.5	----	----	----
18	Vehicle CG	2953	-15	340	4.7	-4.1	24.7	-3.8	11.6	-9.0	25.7

*Reference: X - Rear Bumper (+ Forward)

Y - Vehicle Centerline (+ To right)

Z - Ground Level (+ Up)

DATA SHEET NO. 14

MOVING DEFORMABLE BARRIER (MDB) ACCELEROMETER LOCATIONS AND DATA SUMMARYYear/Make/Model/Body Style: 2000/Ford/Taurus/4 DoorVehicle NHTSA No.: MY0211 Test Date: January 5, 2000

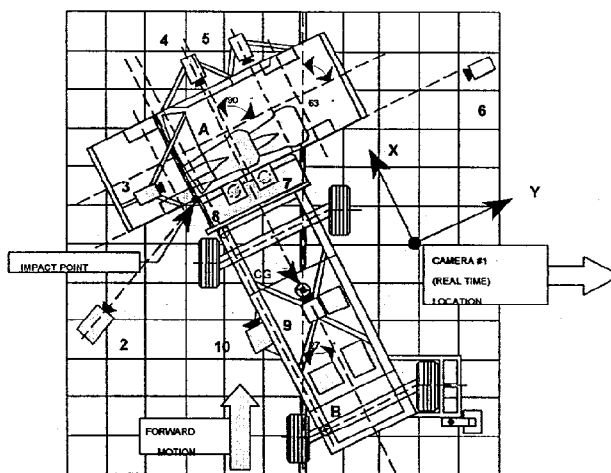
Accel. No.	Description	Coordinates (mm)*			(+) Positive		(-) Negative	
		X	Y	Z	Max. (g)	Time (msec)	Max. (g)	Time (msec)
1	MDB Center of Gravity	-1092	0	483				
	Longitudinal (X)	---	---	---	1.9	-1	-16.1	38
	Lateral (Y)	---	---	---	12.3	0	-8.8	48
	Vertical (Z)	---	---	---	18.4	53	-14.8	47
	Resultant (R)	---	---	---	24.1	53	----	----
2	Rear Frame Member	-2501	-625	622				
	Longitudinal (X)	---	---	---	1.4	199	-19.1	32
	Lateral (Y)	---	---	---	3.3	36	-1.4	68

*Reference: X - Front Axle (+ Forward)
Y - Vehicle Centerline (+ To right)
Z - Ground Level (+ Up)

DATA SHEET NO. 15
HIGH SPEED CAMERA LOCATIONS AND DATA

Year/Make/Model/Body Style: 2000/Ford/Taurus/4 Door

Test Date: January 5, 2000



Camera No.	View	Coordinates (mm)*			Lens (mm)	Film Speed (fps)
		X	Y	Z		
1	Real Time					
2	Left Impact	-1100	-2000	1590	13	No marks
3	Onboard Hood				8	990
4	Onboard Front				13	1036
5	Onboard Rear				8	844
6	Right Impact	4230	4180	1280	13	1026
7	Top Overall	-100	1260	5000	8	1015
8	Top Impact	-230	60	5000	13	1047
9	Cart Overall				13	1042
10	Cart Impact				35	1047

* Reference: (from point of impact)

+X = Forward

+Y = To Right

+Z = Upward

DATA SHEET 16
FUEL SYSTEM INTEGRITY POST IMPACT TEST DATA

Vehicle Year/Make/Model/Body Style: 2000/Ford/Taurus/4 Door

Vehicle NHTSA No.: MY0211 Test Date: January 5, 2000

TEST REQUIREMENTS:

Drain the test vehicle's fuel system and operate the engine until the fuel system is dry. Add Stoddard solvent, which has been dyed purple, until 92-94% of the stated usable capacity is reached. Operate the engine to assure the Stoddard solvent is present throughout the entire fuel system.

TEST VEHICLE IMPACT TYPE: X Side Impact MDB 38.2 mph (61.5 kph)

FUEL SPILLAGE MEASUREMENT:

POST IMPACT TEST	TEST RESULTS	MAXIMUM ALLOWABLE
1. From impact until vehicle motion ceases	0 oz.	1 oz
2. For 5 minute period after vehicle motion ceases	0 oz.	5 oz
3. For next 25 minutes	0 oz.	1 oz./1 min

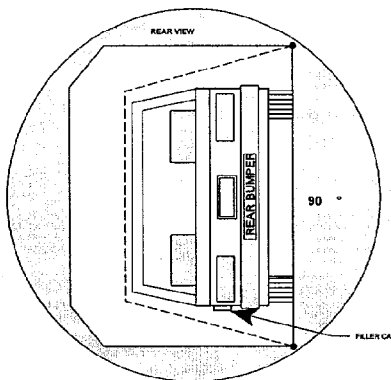
FUEL SPILLAGE LOCATION(S): None

DATA SHEET 16
FMVSS 301 STATIC ROLLOVER TEST DATA

Vehicle Year/Make/Model/Body Style: 2000/Ford/Taurus/4 Door

Vehicle NHTSA No.: MY0211 Test Date: January 5, 2000

TEST PHASE: 0° - 90°



DETERMINATION OF SOLVENT COLLECTION TIME PERIOD:

Rollover Fixture 90° Rotation Time = 2 minutes 48 seconds

(Spec. Range = 1 to 3 minutes)

FMVSS 301 Position Hold Time = 5 minutes 0 seconds

TOTAL TIME = 7 minutes 48 seconds

Next Whole Minute Interval = 8 minutes

FUEL SPILLAGE MEASUREMENT:

0° TO 90° ROTATION (FILLER CAP DOWN)	TEST RESULTS	MAXIMUM ALLOWABLE
1. First 5 Minutes From Onset of Rotation	0 oz.	5 oz
2. Sixth Minute From Onset of Rotation	0 oz.	1 oz
3. Seventh Minute From Onset of Rotation	0 oz.	1 oz
4. Eighth Minute if Required	0 oz.	1 oz

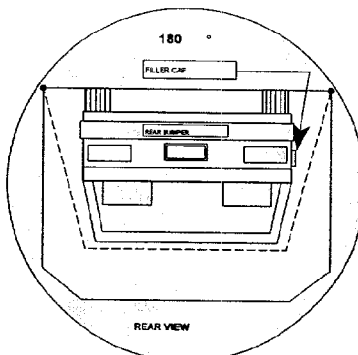
FUEL SPILLAGE LOCATIONS(S): None

DATA SHEET 16
FMVSS 301 STATIC ROLLOVER TEST DATA (Cont'd)

Vehicle Year/Make/Model/Body Style: 2000/Ford/Taurus/4 Door

Vehicle NHTSA No.: MY0211 Test Date: January 5, 2000

TEST PHASE: 90° - 180°



DETERMINATION OF SOLVENT COLLECTION TIME PERIOD:

Rollover Fixture 90° Rotation Time = 2 minutes 31 seconds
(Spec. Range = 1 to 3 minutes)

FMVSS 301 Position Hold Time = 5 minutes 0 seconds

TOTAL TIME = 7 minutes 31 seconds

Next Whole Minute Interval = 8 minutes

FUEL SPILLAGE MEASUREMENT:

90° TO 180° ROTATION	TEST RESULTS	MAXIMUM ALLOWABLE
1. First 5 Minutes From Onset of Rotation	0 oz.	5 oz
2. Sixth Minute From Onset of Rotation	0 oz.	1 oz
3. Seventh Minute From Onset of Rotation	0 oz.	1 oz
4. Eighth Minute if Required	0 oz.	1 oz

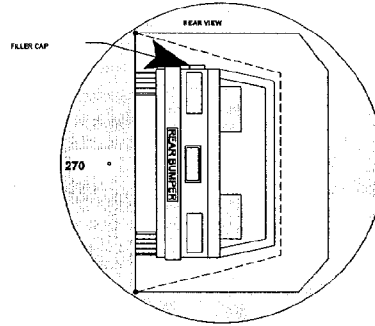
FUEL SPILLAGE LOCATIONS(S): None

DATA SHEET 16
FMVSS 301 STATIC ROLLOVER TEST DATA (Cont'd)

Vehicle Year/Make/Model/Body Style: 2000/Ford/Taurus/4 Door

Vehicle NHTSA No.: MY0211 Test Date: January 5, 2000

TEST PHASE: 180° - 270°



DETERMINATION OF SOLVENT COLLECTION TIME PERIOD:

Rollover Fixture 90° Rotation Time = 2 minutes 13 seconds

(Spec. Range = 1 to 3 minutes)

FMVSS 301 Position Hold Time = 5 minutes 0 seconds

TOTAL TIME = 7 minutes 13 seconds

Next Whole Minute Interval = 8 minutes

FUEL SPILLAGE MEASUREMENT:

180° TO 270° ROTATION	TEST RESULTS	MAXIMUM ALLOWABLE
1. First 5 Minutes From Onset of Rotation	0 oz.	5 oz
2. Sixth Minute From Onset of Rotation	0 oz.	1 oz
3. Seventh Minute From Onset of Rotation	0 oz.	1 oz
4. Eighth Minute if Required	0 oz.	1 oz

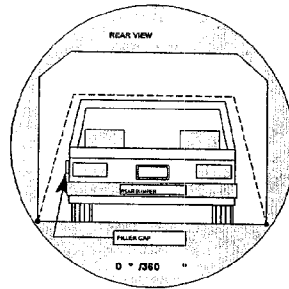
FUEL SPILLAGE LOCATIONS(S): None

DATA SHEET 16
FMVSS 301 STATIC ROLLOVER TEST DATA

Vehicle Year/Make/Model/Body Style: 2000/Ford/Taurus/4 Door

Vehicle NHTSA No.: MY0211 Test Date: January 5, 2000

TEST PHASE: 270° - 360°



DETERMINATION OF SOLVENT COLLECTION TIME PERIOD:

Rollover Fixture 90° Rotation Time = 2 minutes 39 seconds

(Spec. Range = 1 to 3 minutes)

FMVSS 301 Position Hold Time = 5 minutes 0 seconds

TOTAL TIME = 7 minutes 39 seconds

Next Whole Minute Interval = 8 minutes

FUEL SPILLAGE MEASUREMENT:

270° TO 360° ROTATION	TEST RESULTS	MAXIMUM ALLOWABLE
1. First 5 Minutes From Onset of Rotation	0 oz.	5 oz
2. Sixth Minute From Onset of Rotation	0 oz.	1 oz
3. Seventh Minute From Onset of Rotation	0 oz.	1 oz
4. Eighth Minute if Required	0 oz.	1 oz

FUEL SPILLAGE LOCATIONS(S): None

APPENDIX A - PHOTOGRAPHS

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Photo No. A-1 - Pre-Test Front View of Test Vehicle

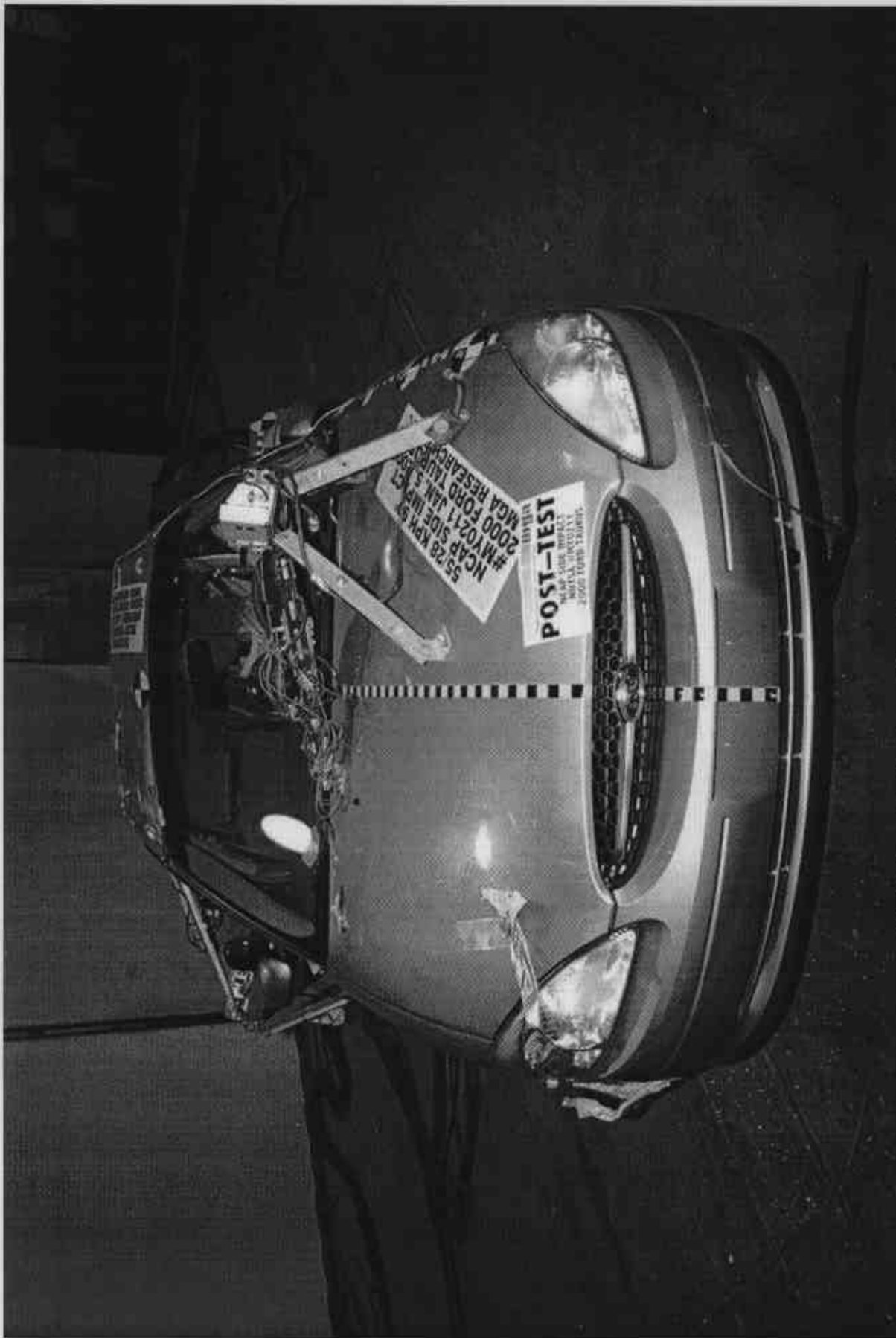


Photo No. A-2 - Post-Test Front View of Test Vehicle



Photo No. A-3 - Pre-Test Rear View of Test Vehicle



Photo No. A-4 - Post-Test Rear View of Test Vehicle

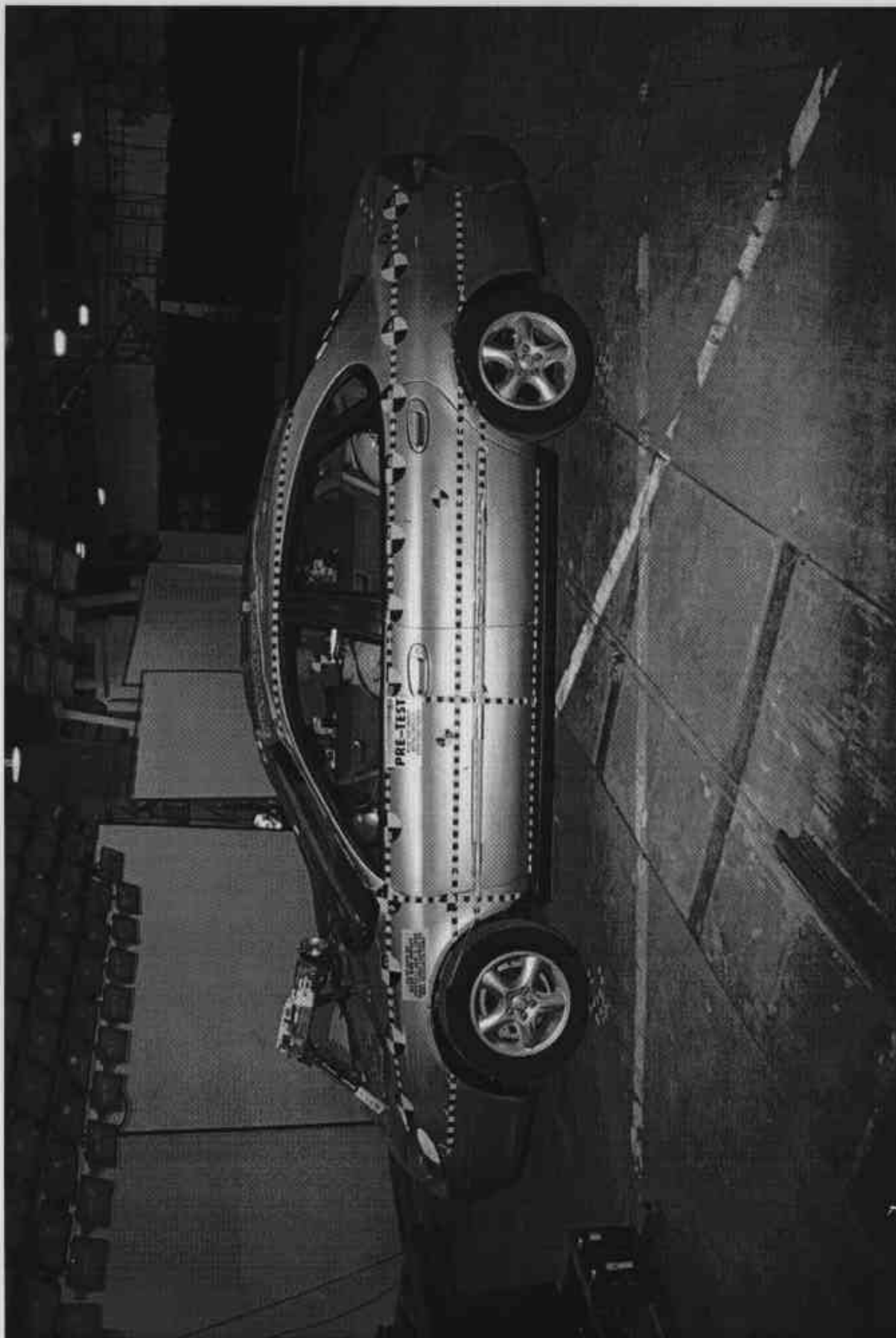


Photo No. A-5 - Pre-Test Left Side View of Test Vehicle

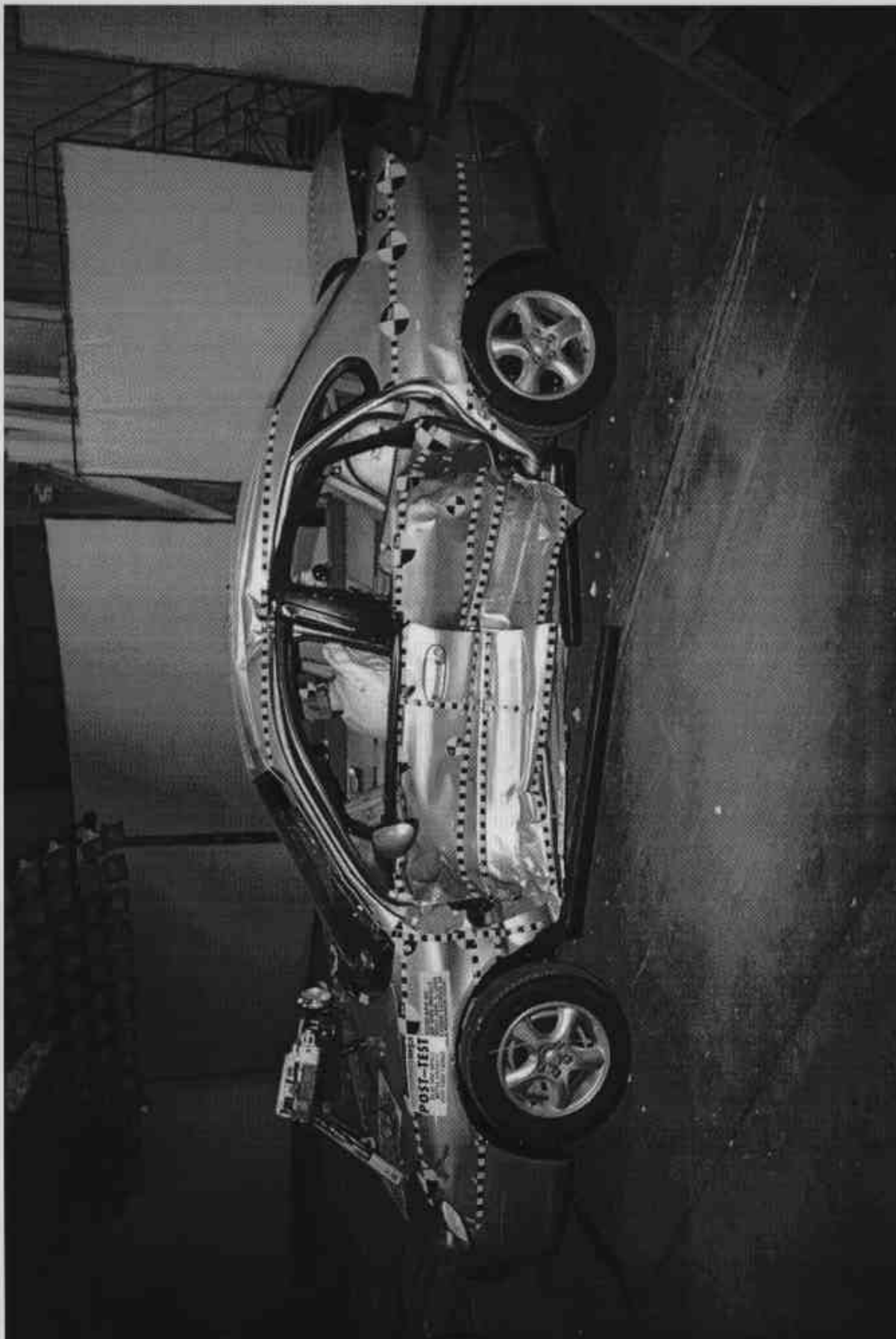


Photo No. A-6 - Post-Test Left Side View of Test Vehicle

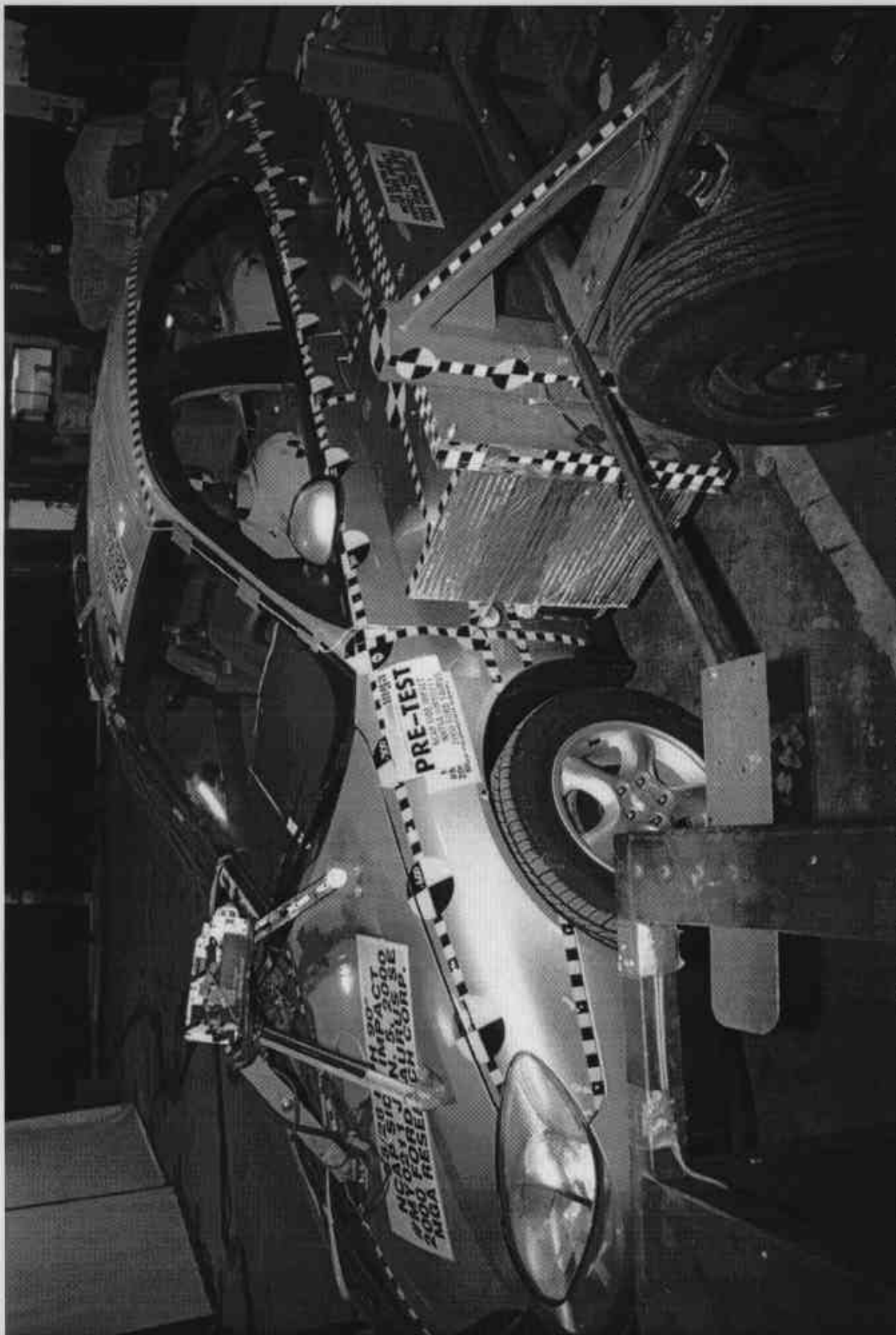


Photo No. A-7 - Pre-Test MDB Positioned Against Vehicle (left side)



Photo No. A-8 - Pre-Test MDB Positioned Against Vehicle (right side)



Photo No. A-9 - Pre-Test MDB Positioned Against Vehicle Overhead View



Photo No. A-10 - Post-Test MDB Positioned Against Vehicle (left side)

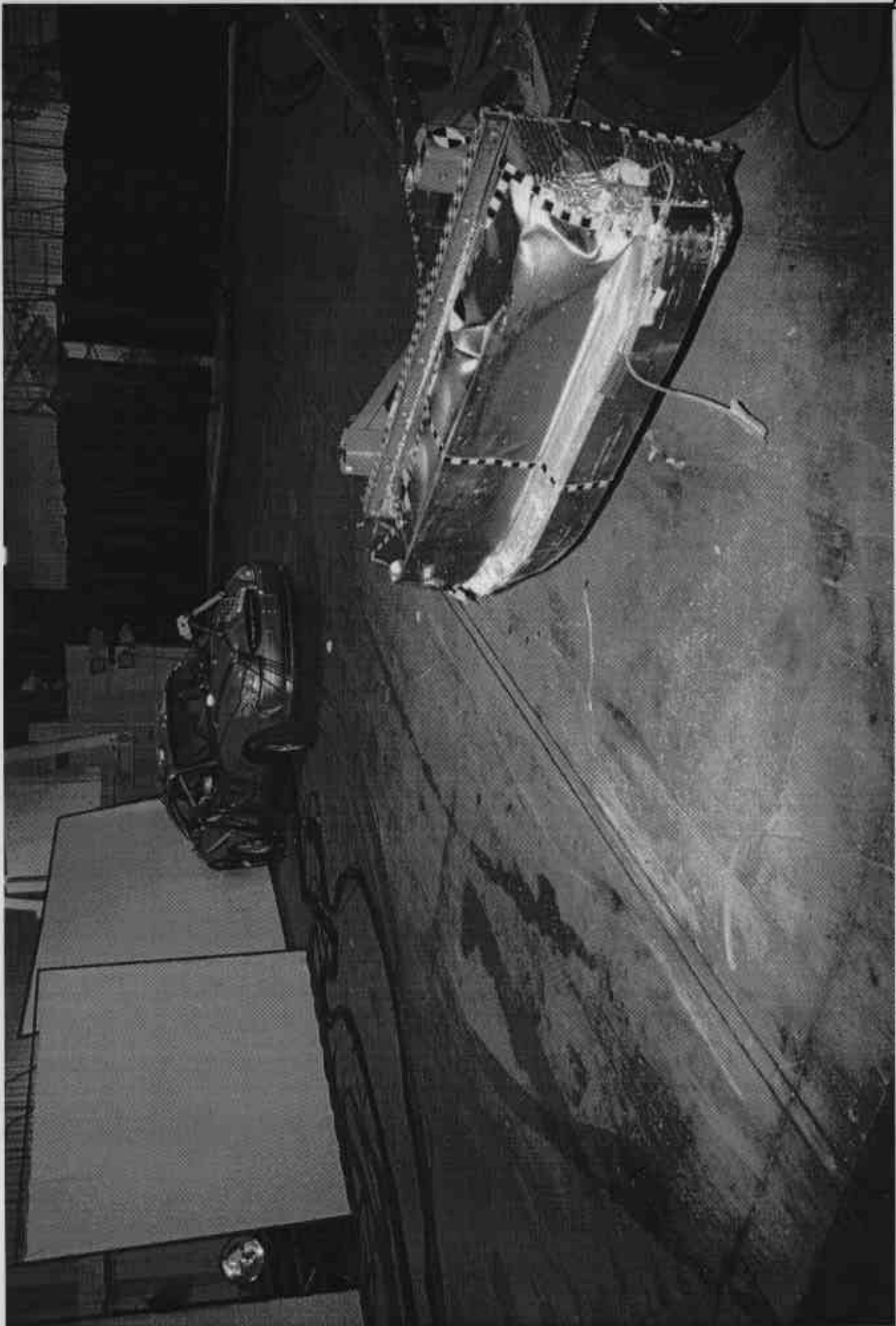


Photo No. A-11 - Post-Test MDB Positioned Against Vehicle (right side)

50% SIDE IMPACT 2000
NCAP 5, JAN. 5, 2000
#MY0211 J. TAURUS SE
#MY0211 J. TAURUS SE
2000 FORD Taurus
MGA RESEARCH
POST-TEST
NEAR SIDE IMPACT
MATER 10/10/00
2000 FORD TAURUS

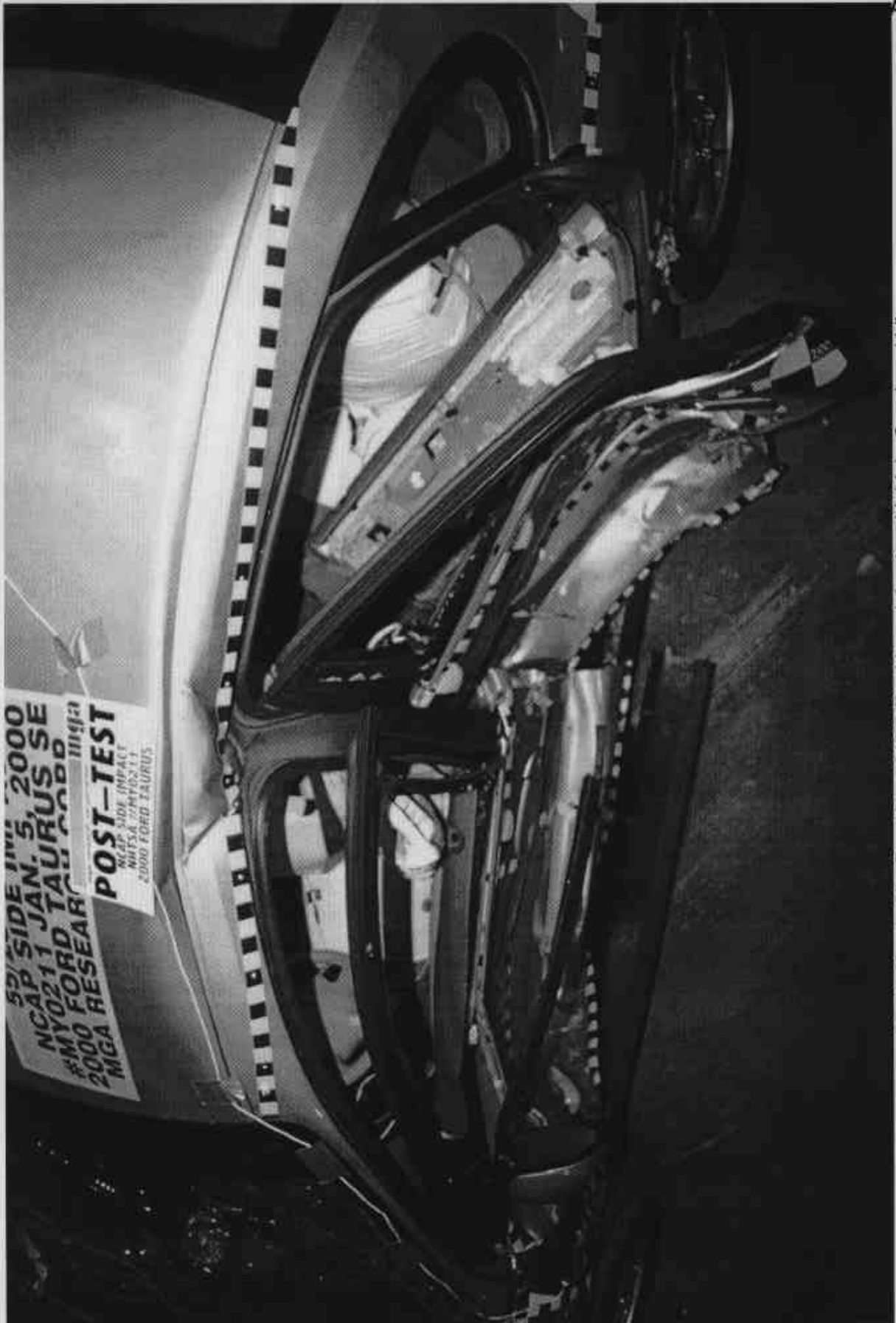


Photo No. A-12 - Post-Test MDB Positioned Against Vehicle Overhead View

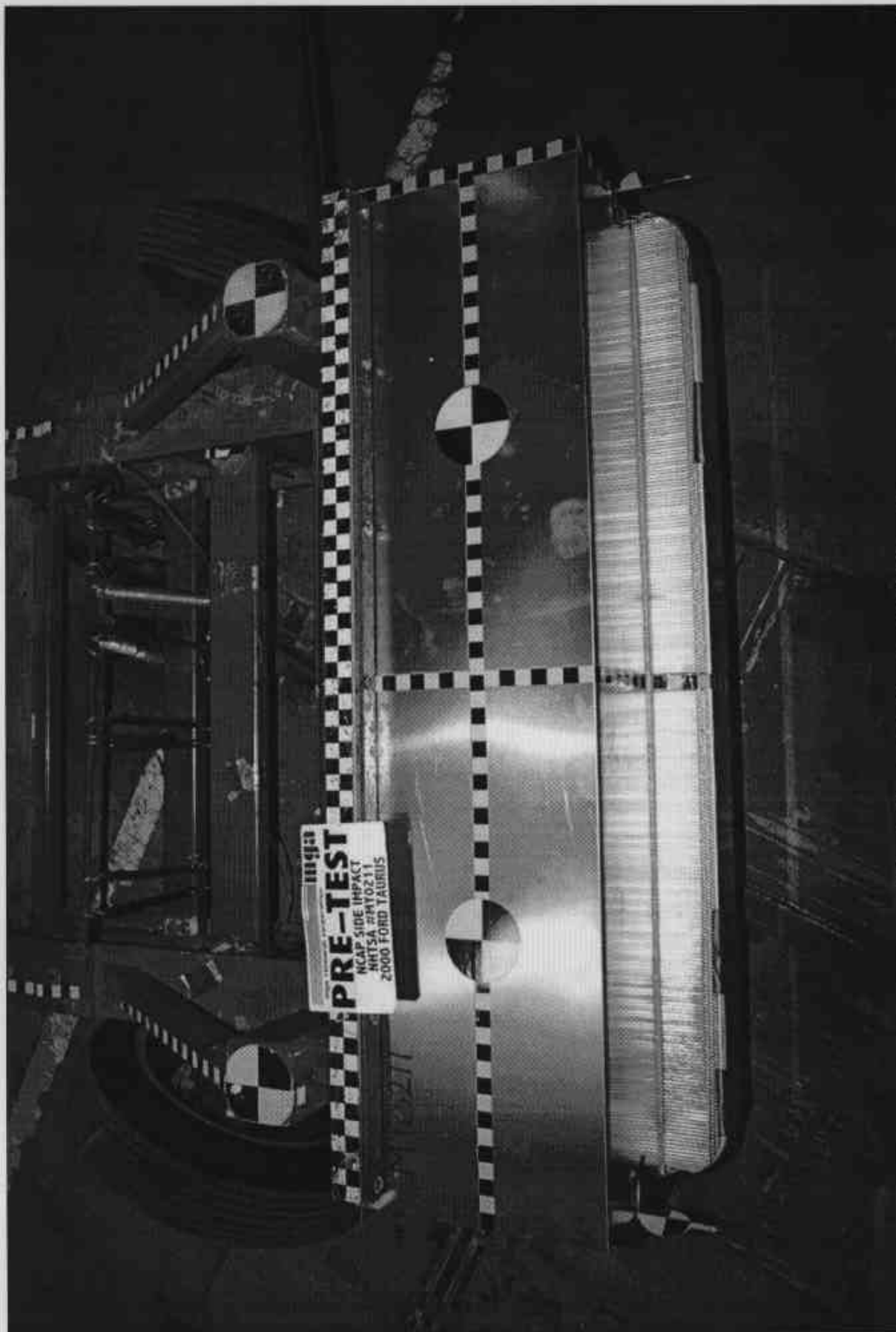


Photo No. A-13 - Pre-Test MDB Top View

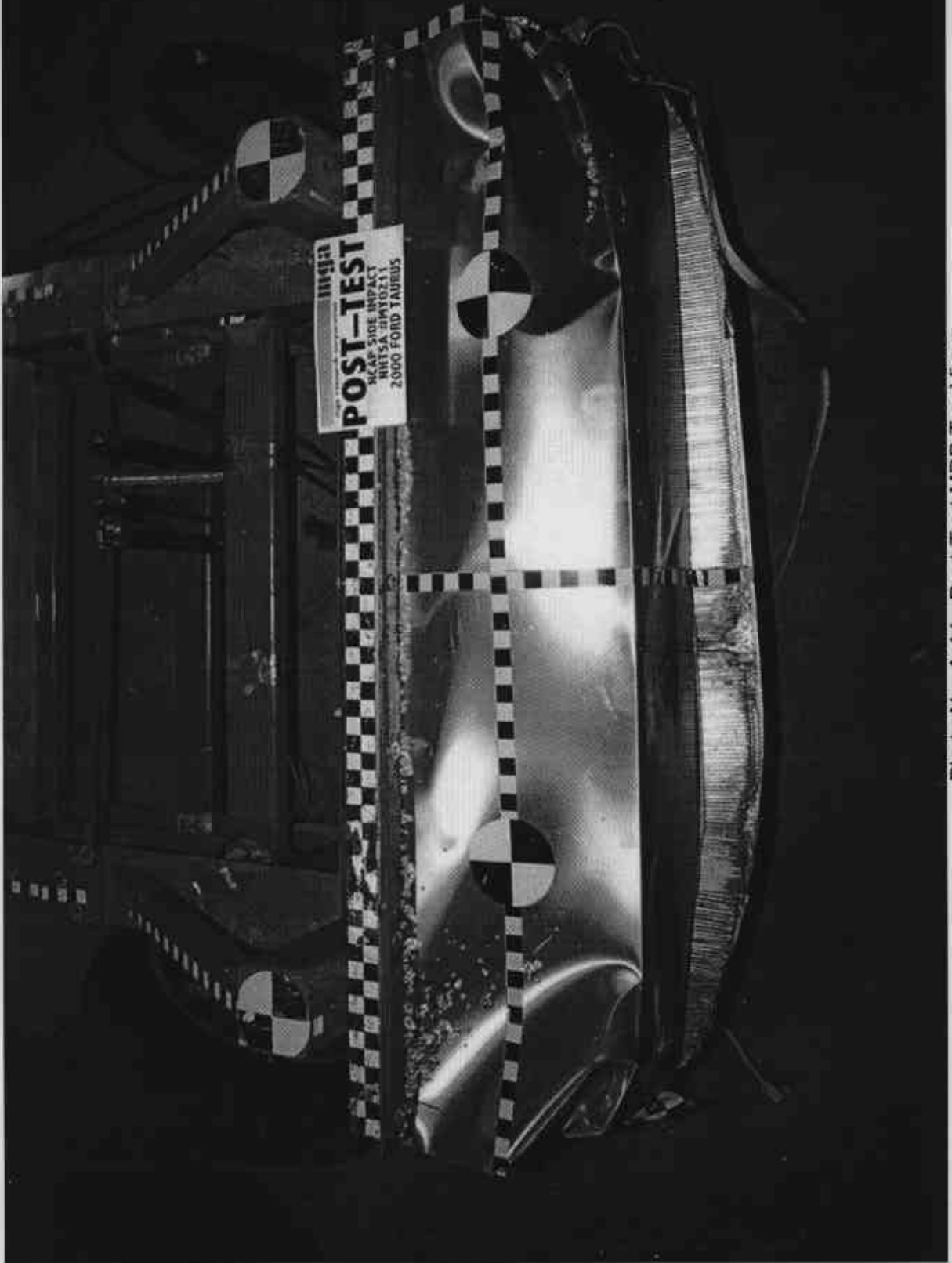


Photo No. A-14 - Post-Test MDB Top View

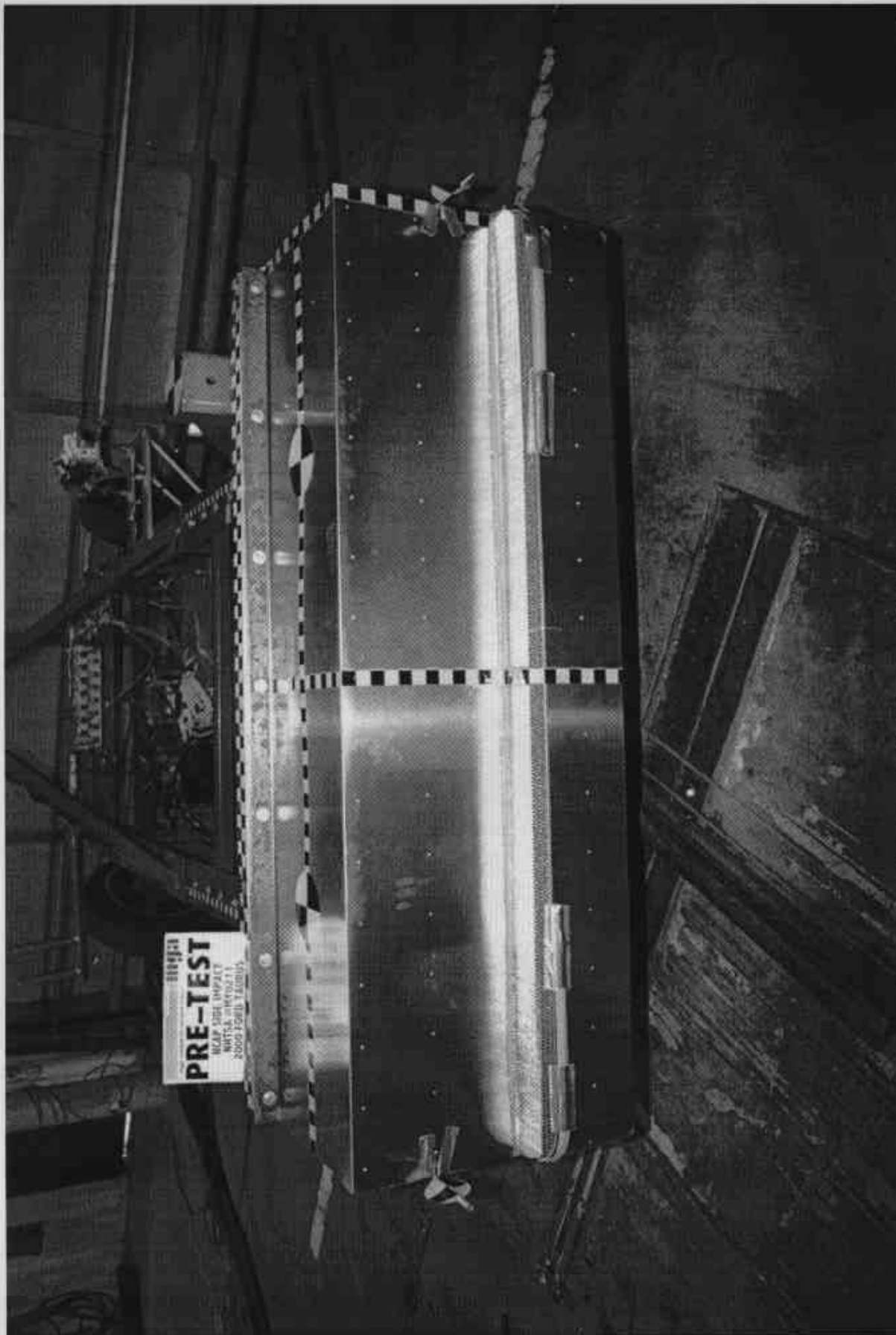


Photo No. A-15 - Pre-Test MDB Front View

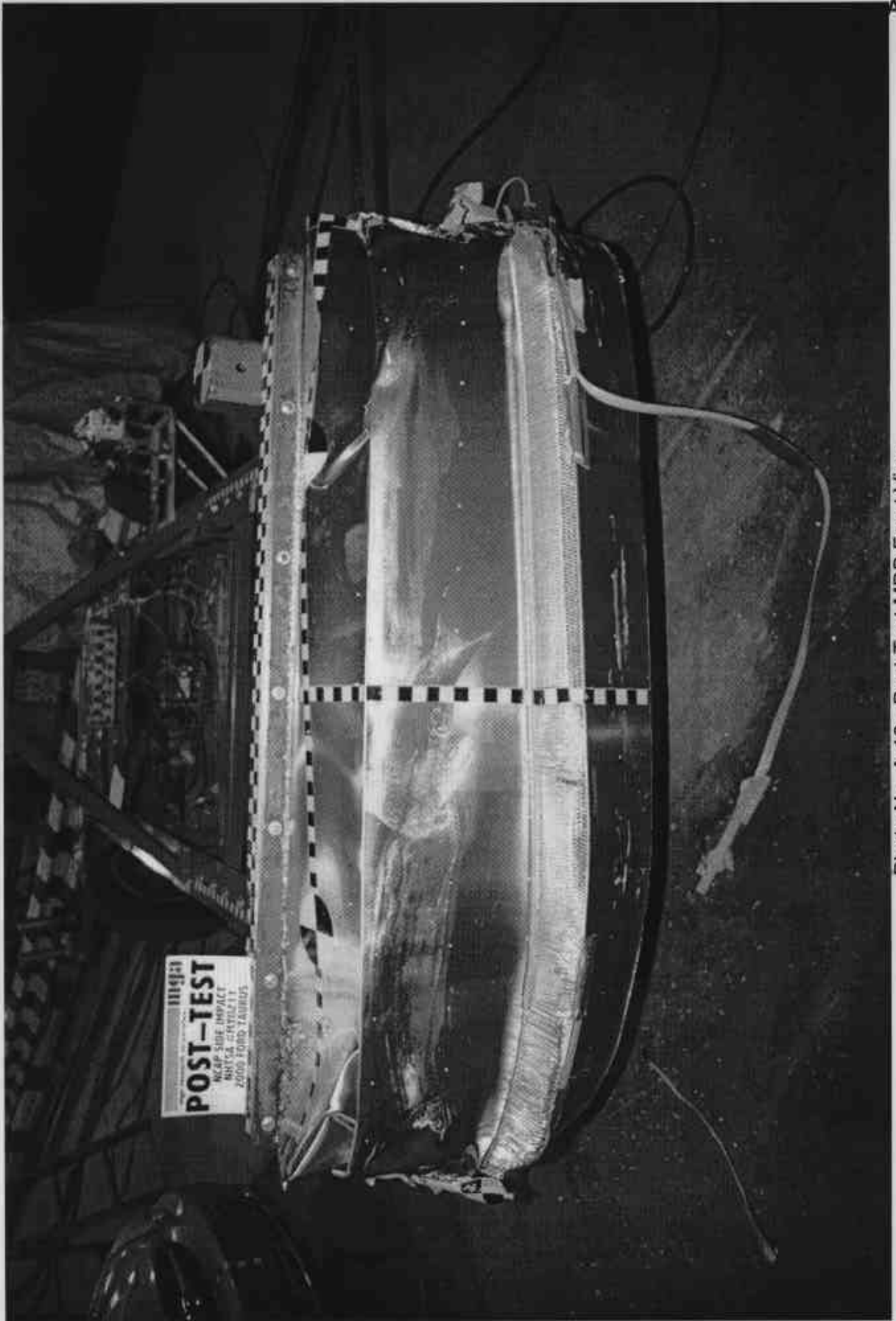


Photo No. A-16 - Post-Test MDB Front View

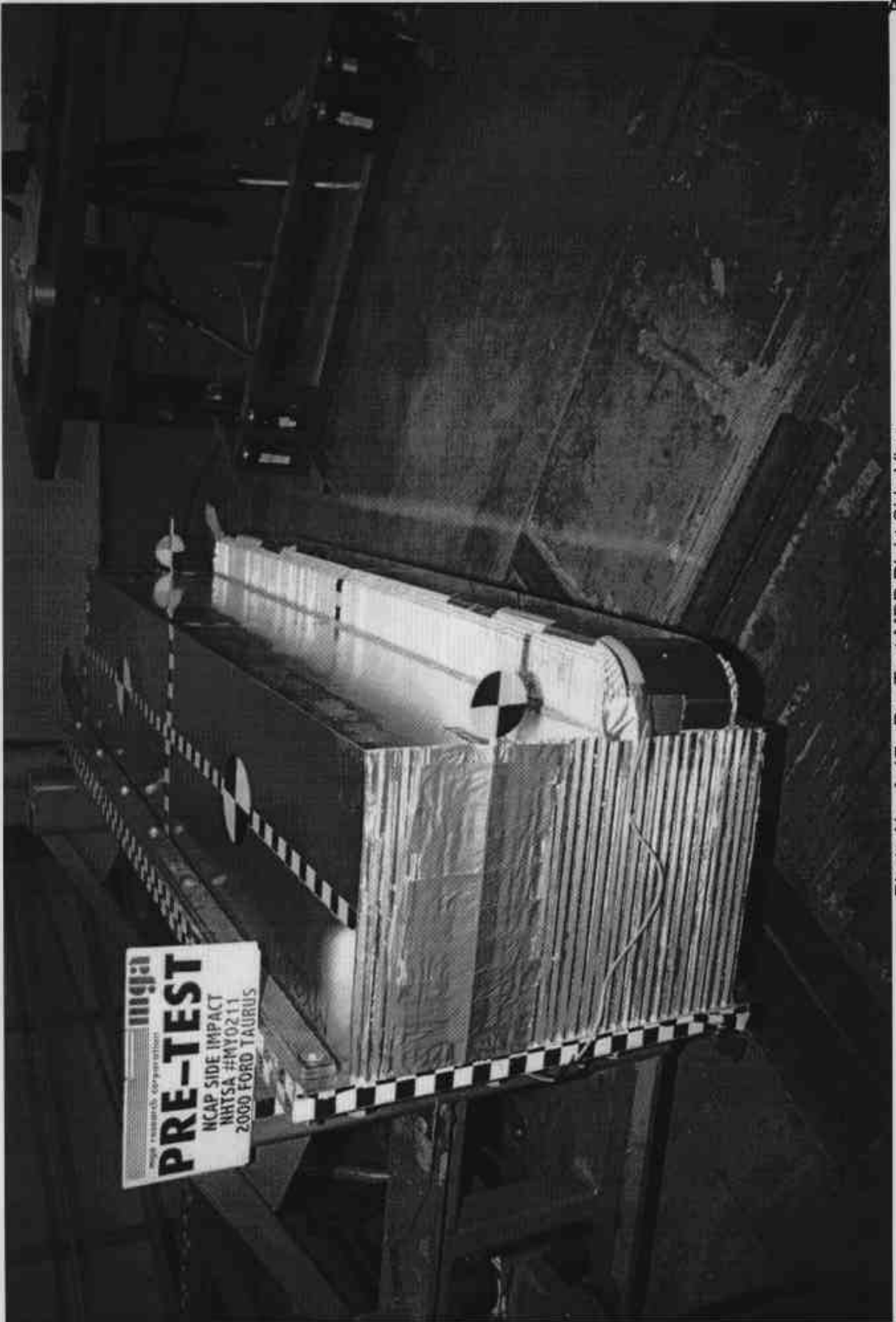


Photo No. A-17 - Pre-Test MDB Right Side View

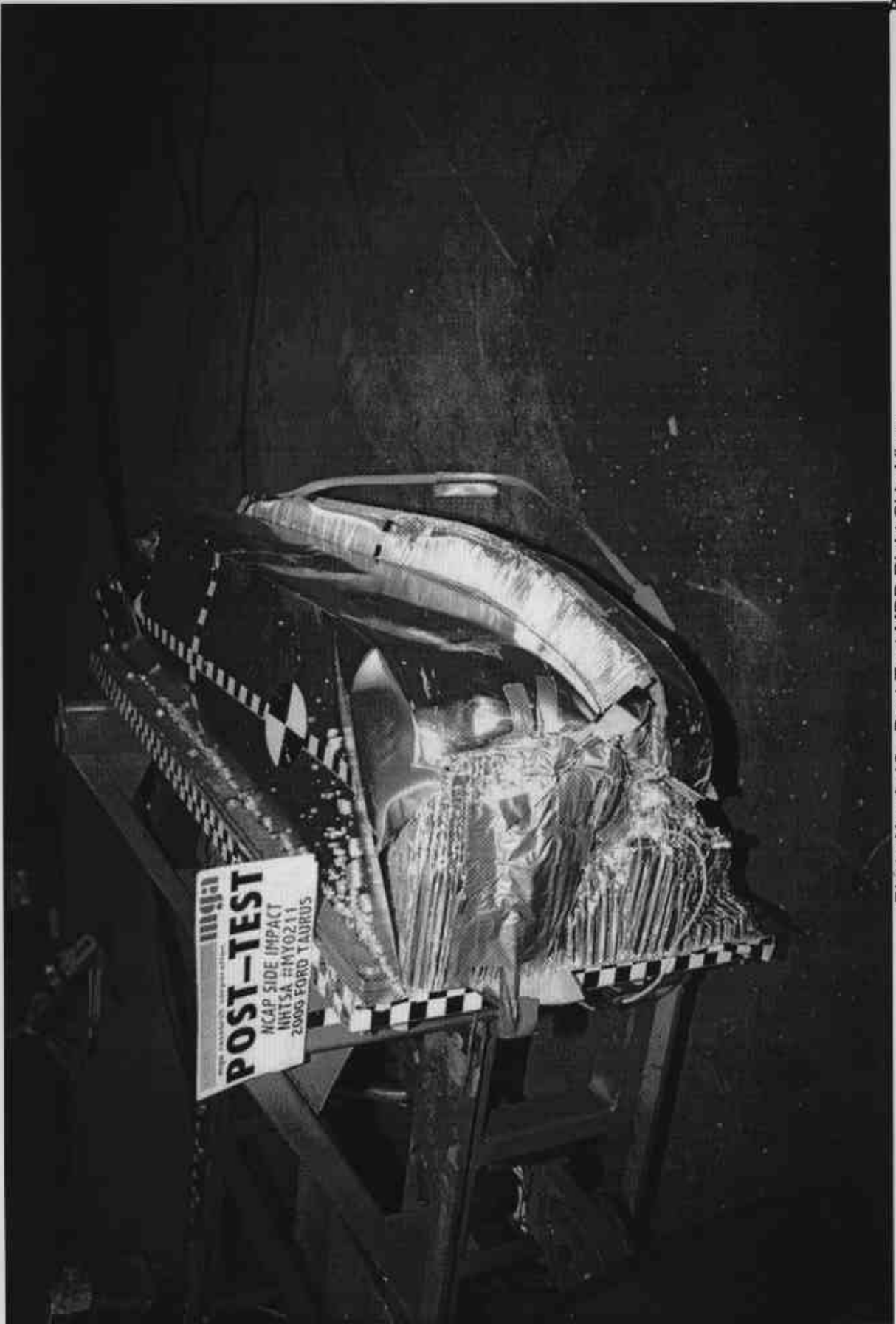


Photo No. A-18 - Post-Test MDB Right Side View



Photo No. A-19 - Pre-Test MDB Left Side View



Photo No. A-20 - Post-Test MDB Left Side View



Photo No. A-21 - Pre-Test Driver Dummy Right Side View



Photo No. A-22 - Post-Test Driver Dummy Right Side View

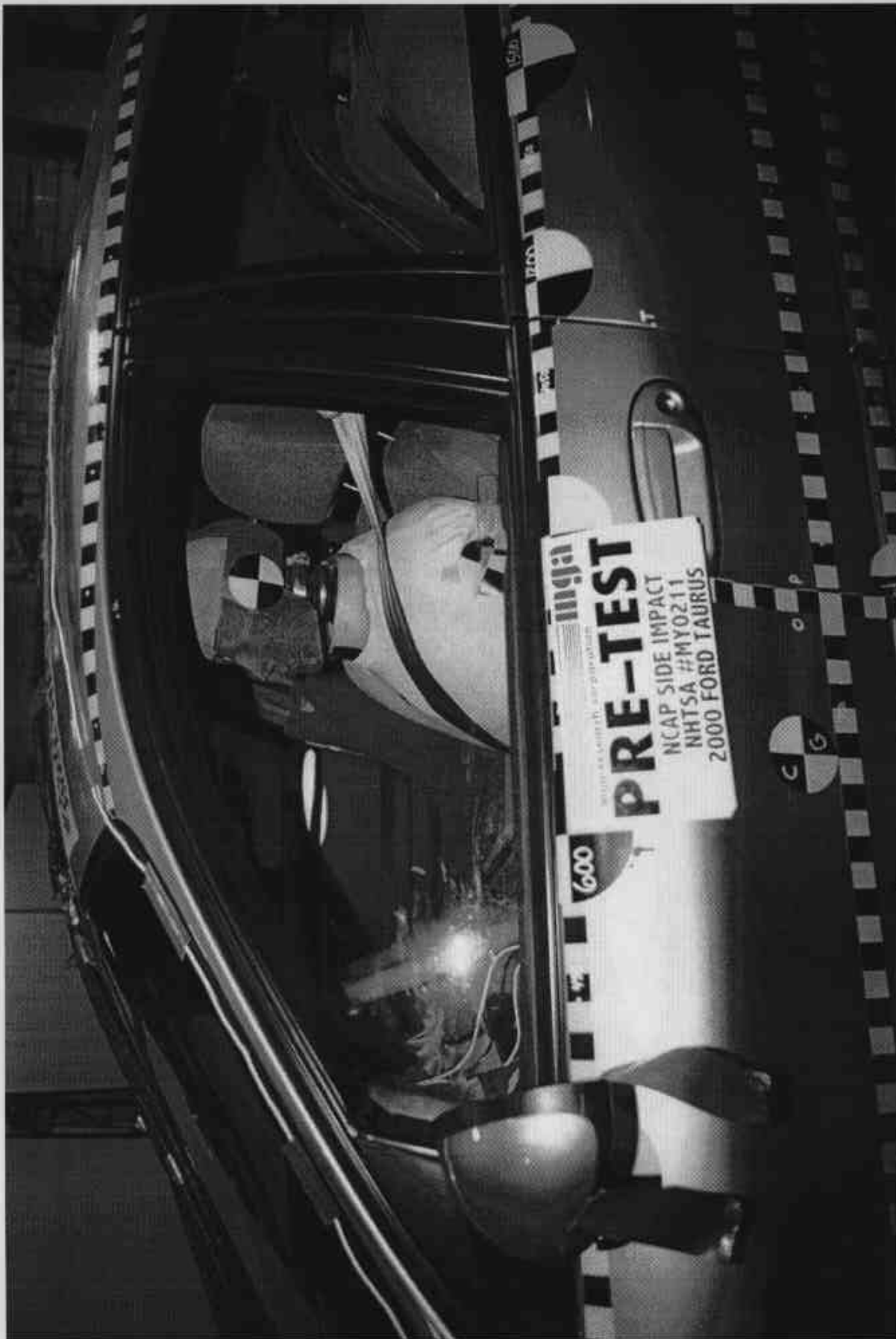


Photo No. A-23 - Pre-Test Driver Dummy Left Side View

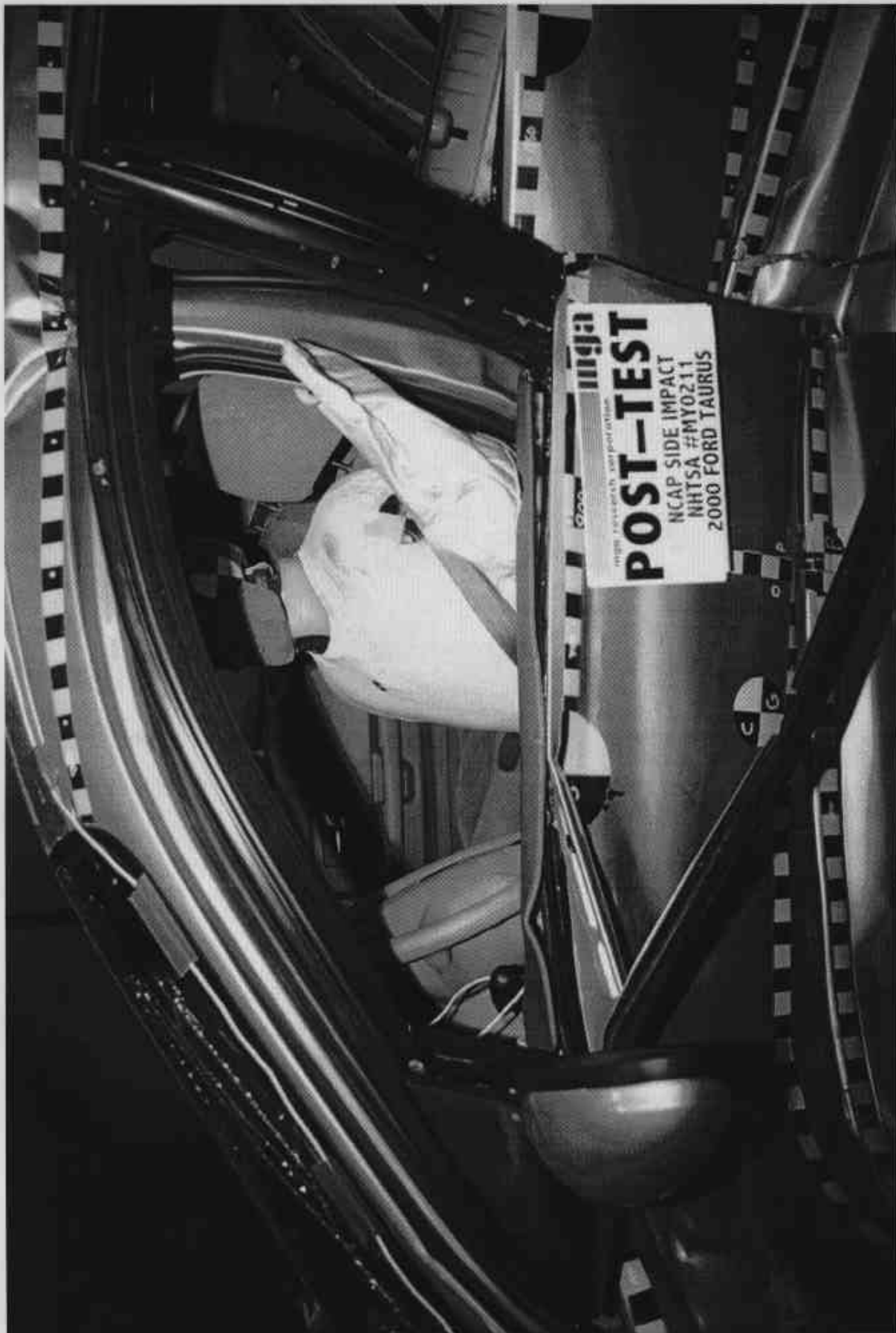


Photo No. A-24 - Post-Test Driver Dummy Left Side View



Photo No. A-25 - Pre-Test Driver Dummy Left Side View (Door Open)

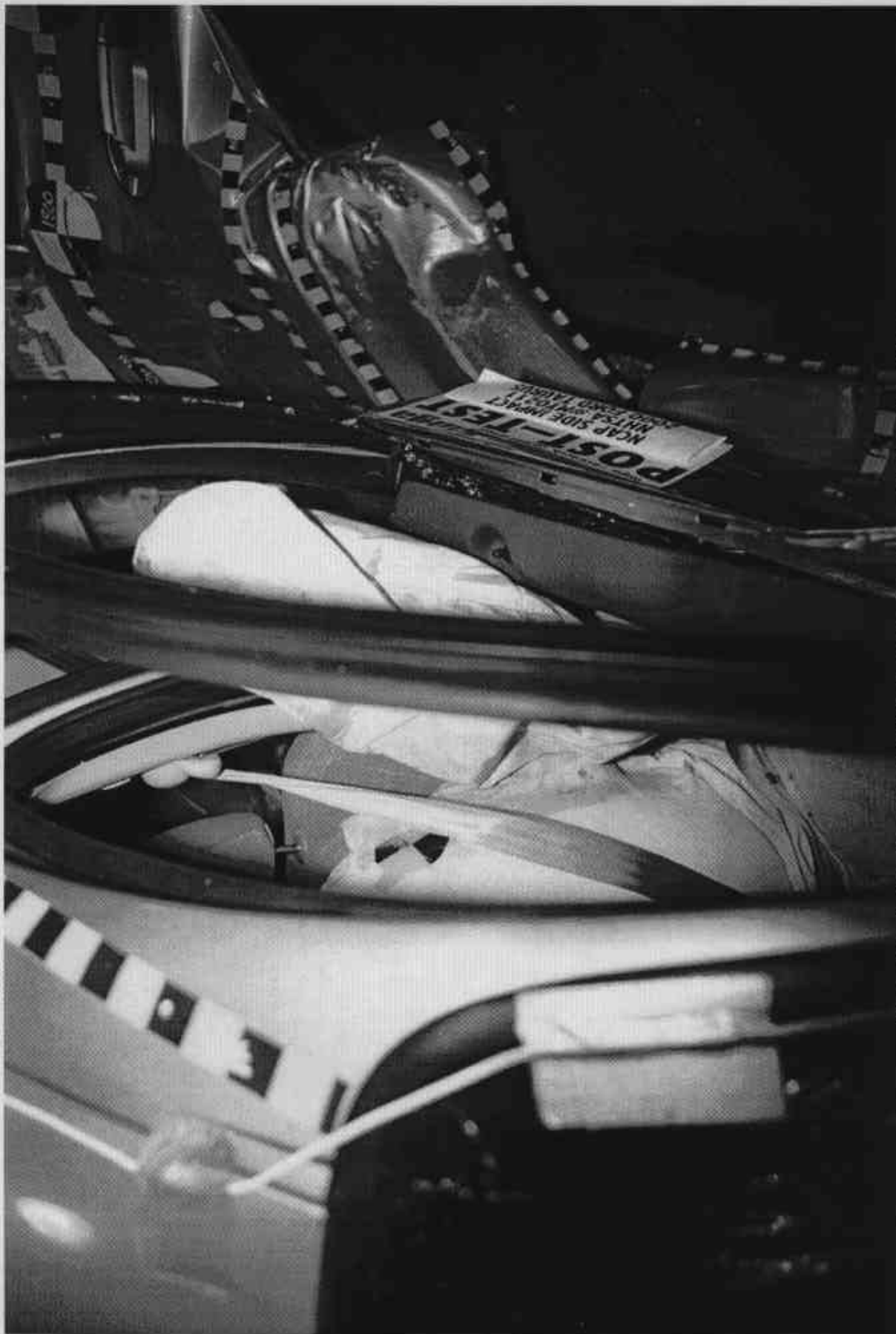


Photo No. A-27 - Post-Test Driver Dummy Shoulder and Door Top View



Photo No. A-28 - Post-Test Driver Dummy Contact

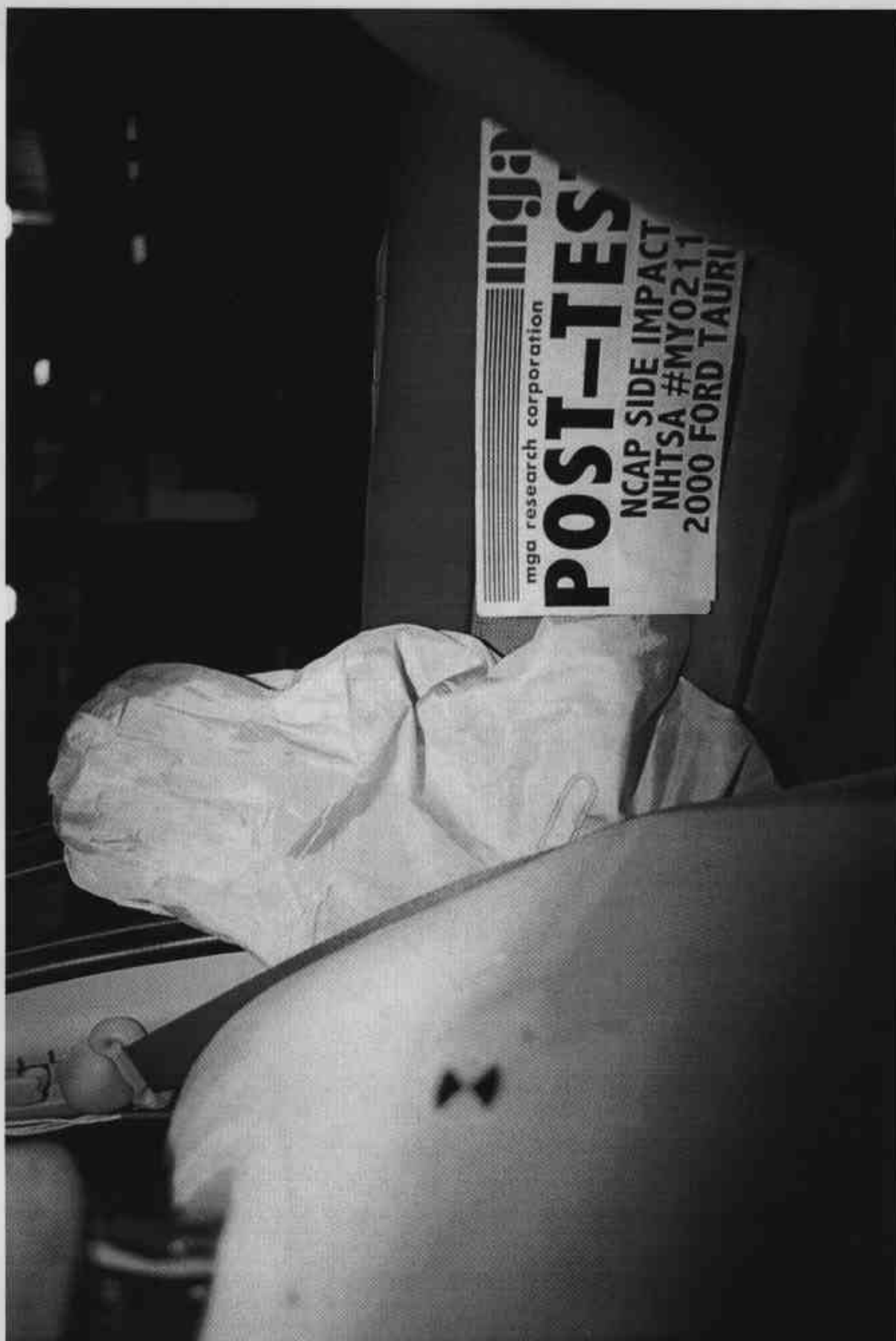


Photo No. A-29 - Post-Test Driver Dummy Head Contact



Photo No. A-30 - Post-Test Driver Dummy Head Contact



Photo No. A-31 - Pre-Test Passenger Dummy Right Side View



Photo No. A-32 - Post-Test Passenger Dummy Right Side View

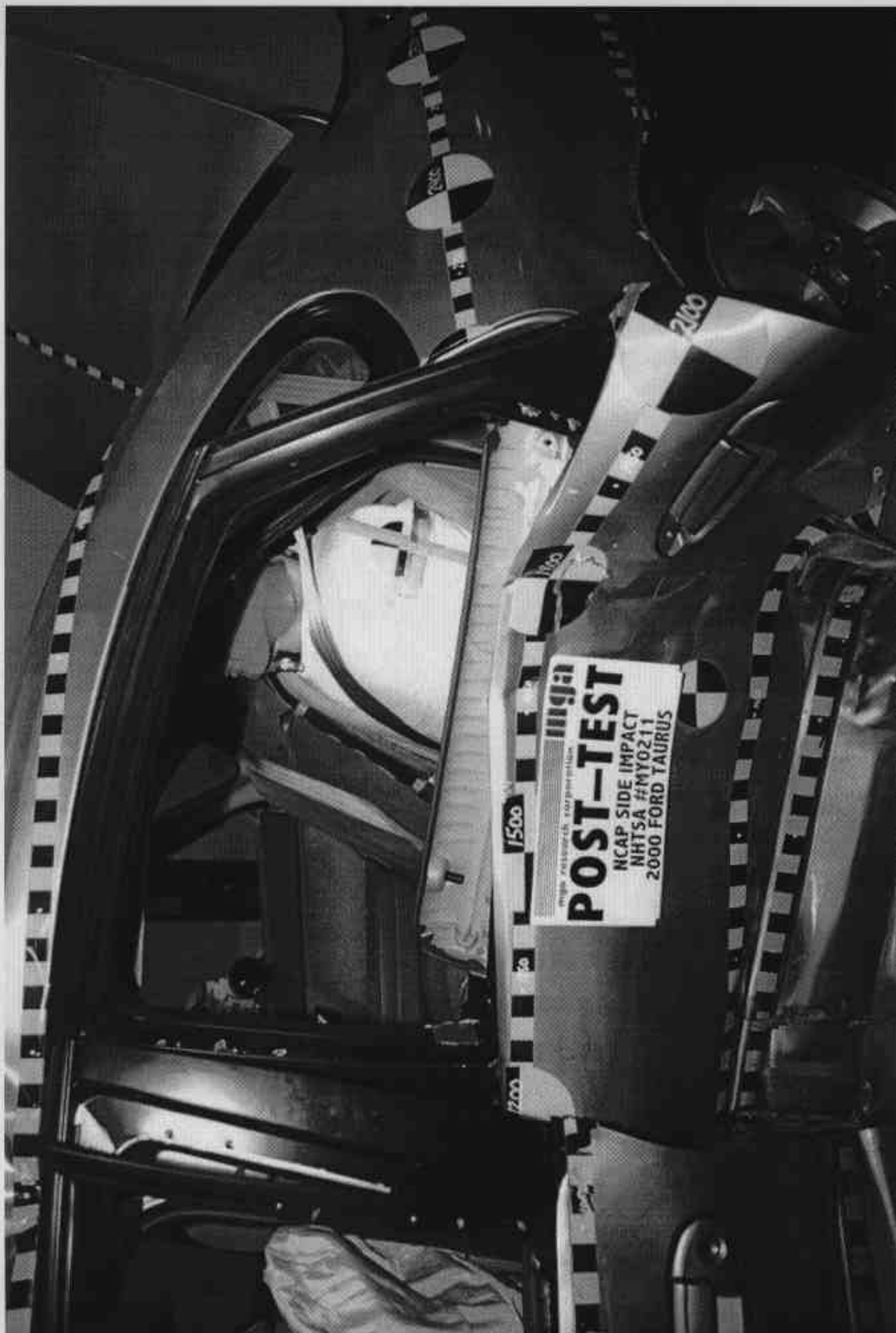


Photo No: A-34 - Post-Test Passenger Dummy Left Side View



Photo No. A-35 - Pre-Test Passenger Dummy Left Side View (Door Open)



Photo No. A-36 - Pre-Test Passenger Dummy Shoulder and Door Top View



Photo No. A-37 - Post-Test Passenger Dummy Shoulder and Door Top View

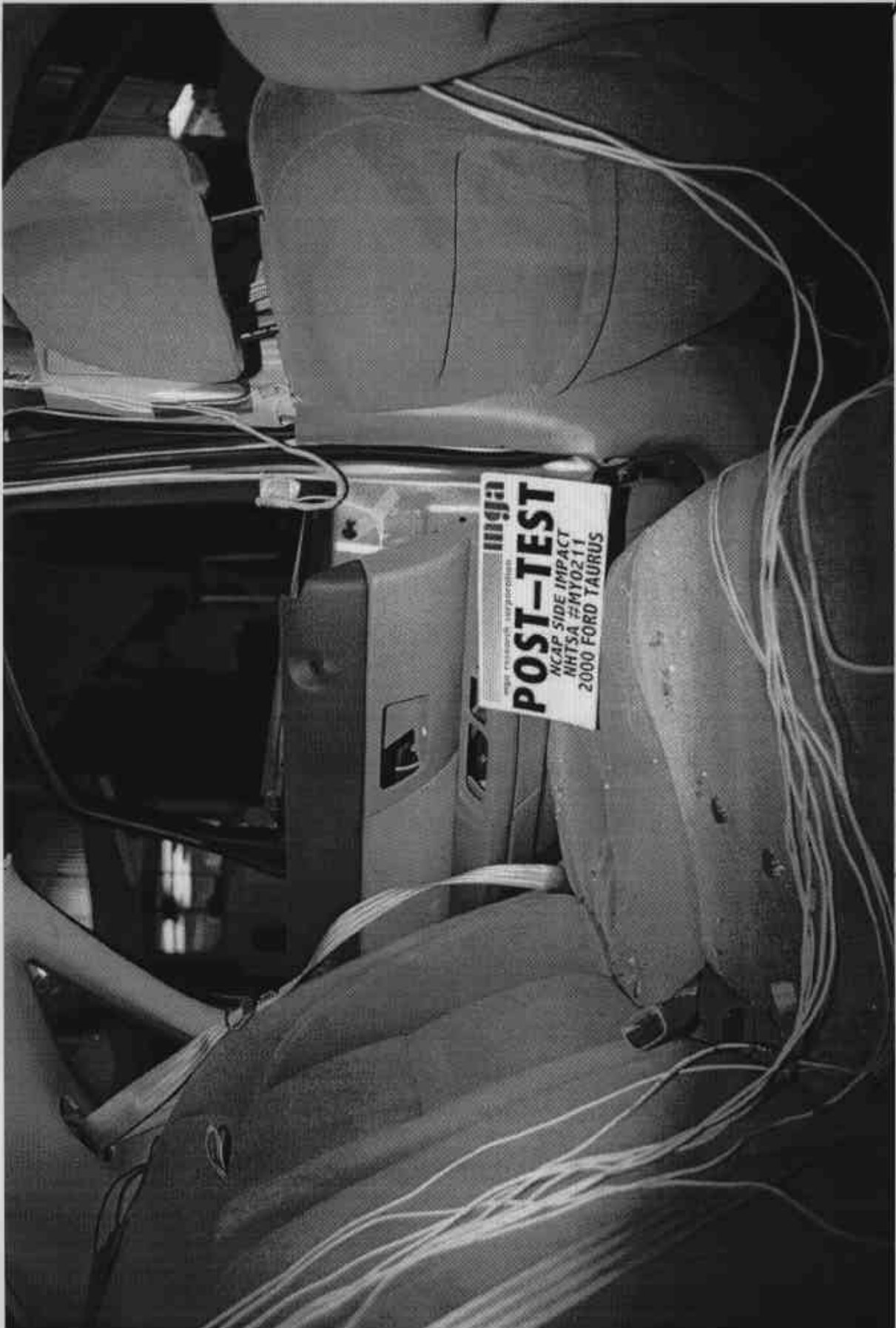


Photo No. A-38 - Post-Test Passenger Dummy Contact



Photo No. A-39 - Post-Test Passenger Dummy Head Contact

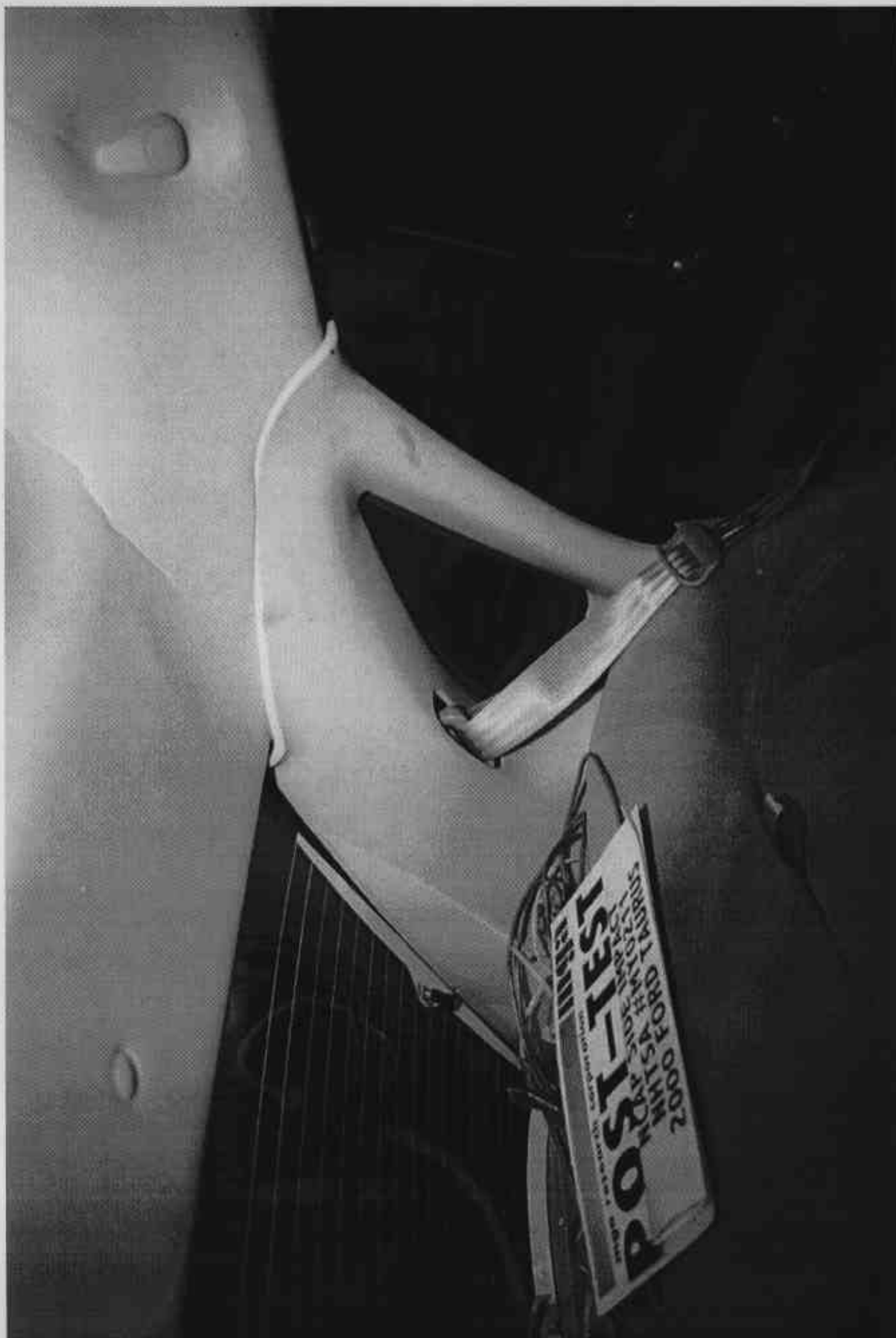


Photo No. A-40 - Post-Test Passenger Dummy Head Contact



Photo No. A-41 - Pre-Test Left Front Impact Point on Vehicle



Photo No. A-42 - Post-Test Left Front Impact Point on Vehicle

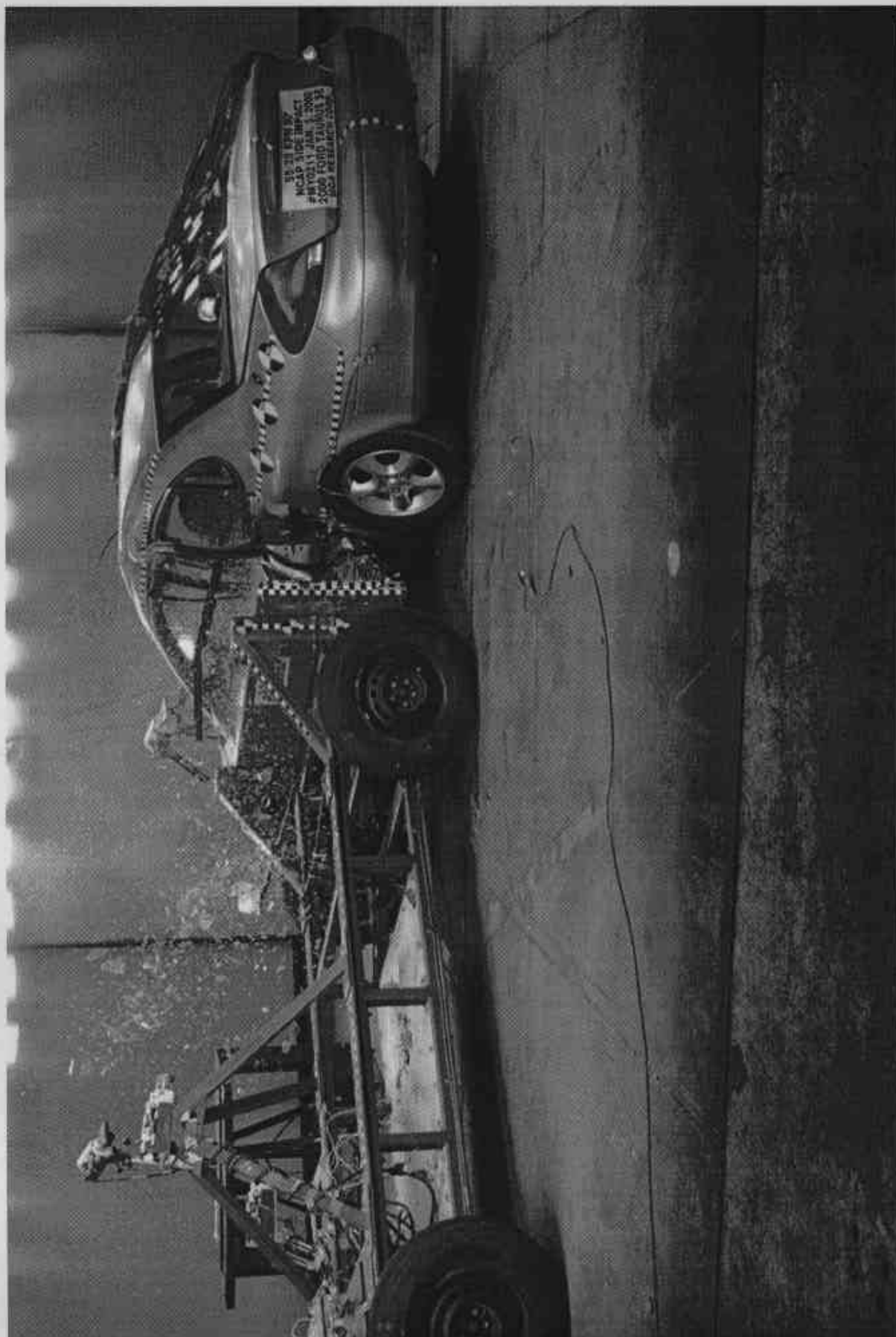
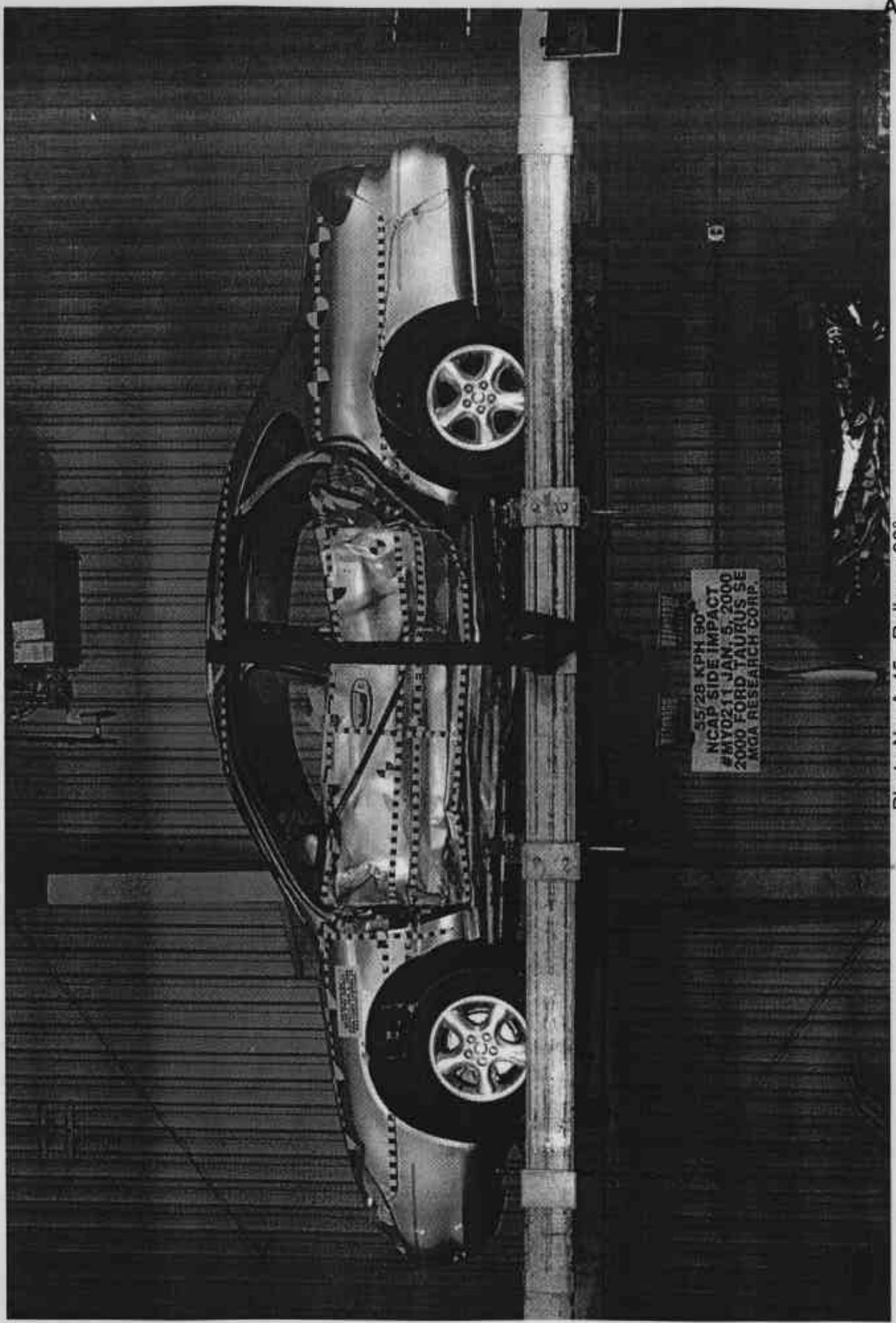
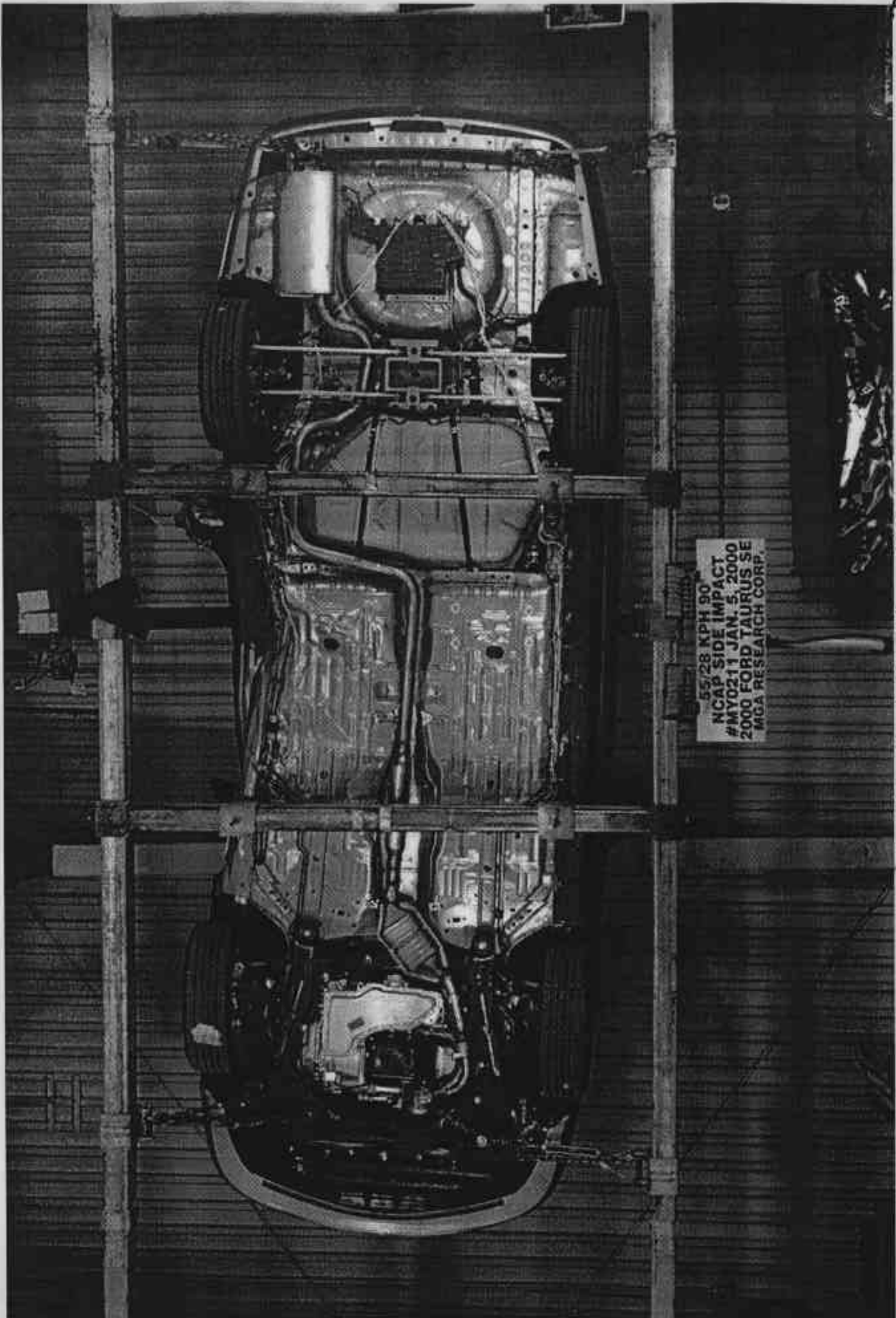


Photo No. A-43 - Impact



55/28 KPH 90°
NCAP SIDE IMPACT
#HY0211 JAN 5 2000
2000 FORD TAURUS SE
MGA RESEARCH CORP.

Photo No. A-45 - Rollover 90°



55/28 KPH 90°
NCAP SIDE IMPACT
#MY0211 JAN. 5, 2000
2000 FORD TAURUS SE
MGA RESEARCH CORP.

Photo No. A-46 - Rollover 180°

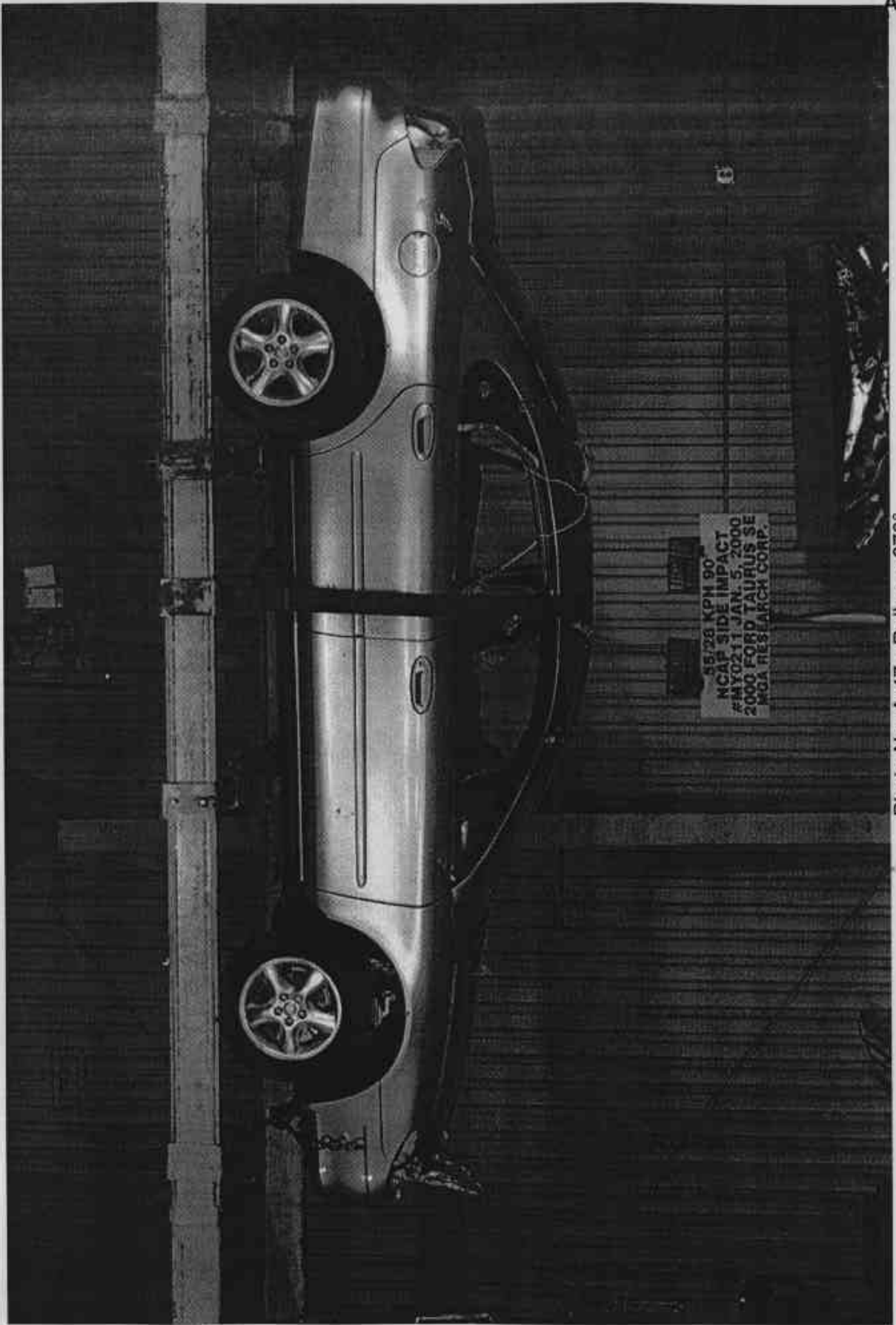


Photo No. A-47 - Rollover 270°

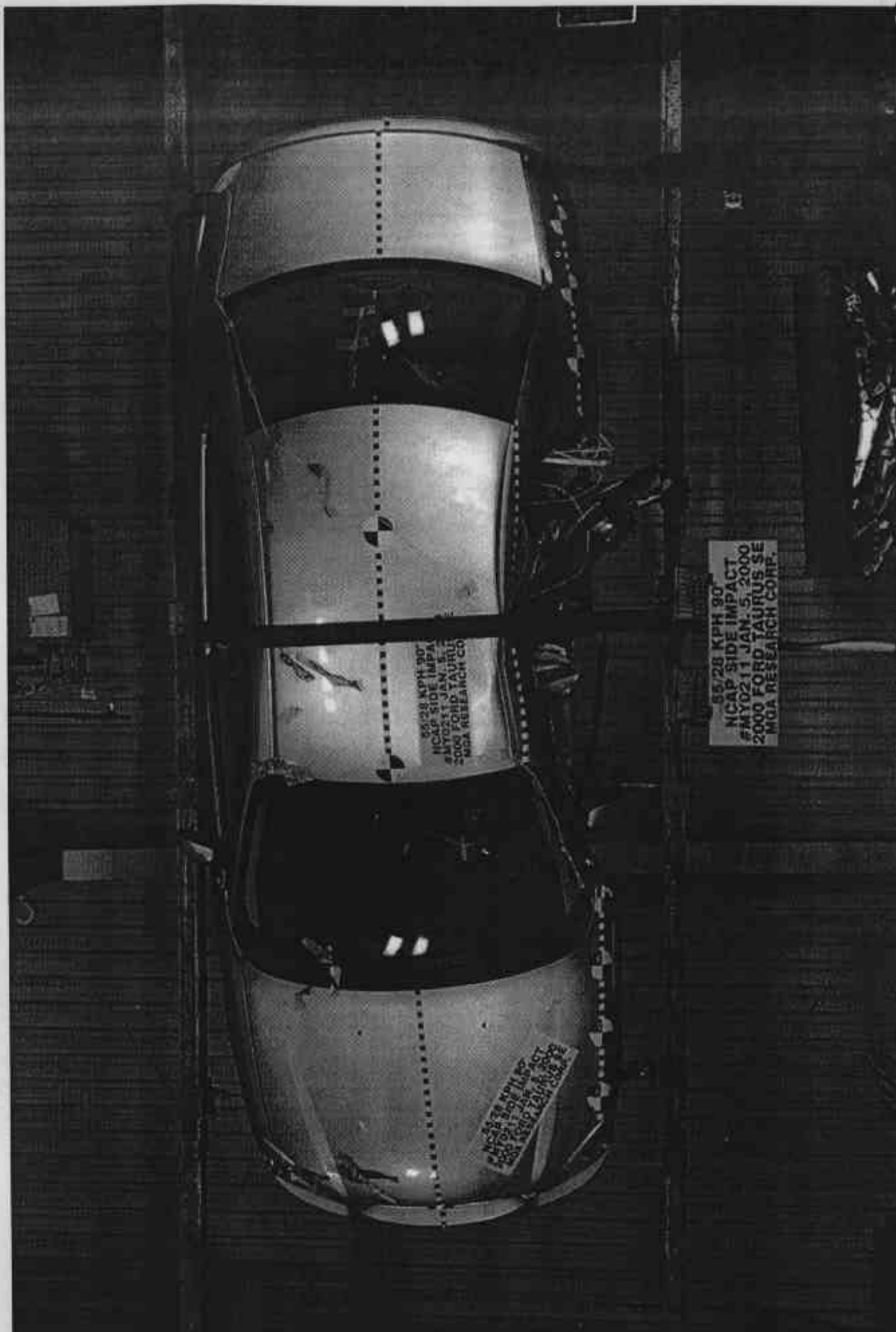


Photo No. A-48 - Rollover 360°

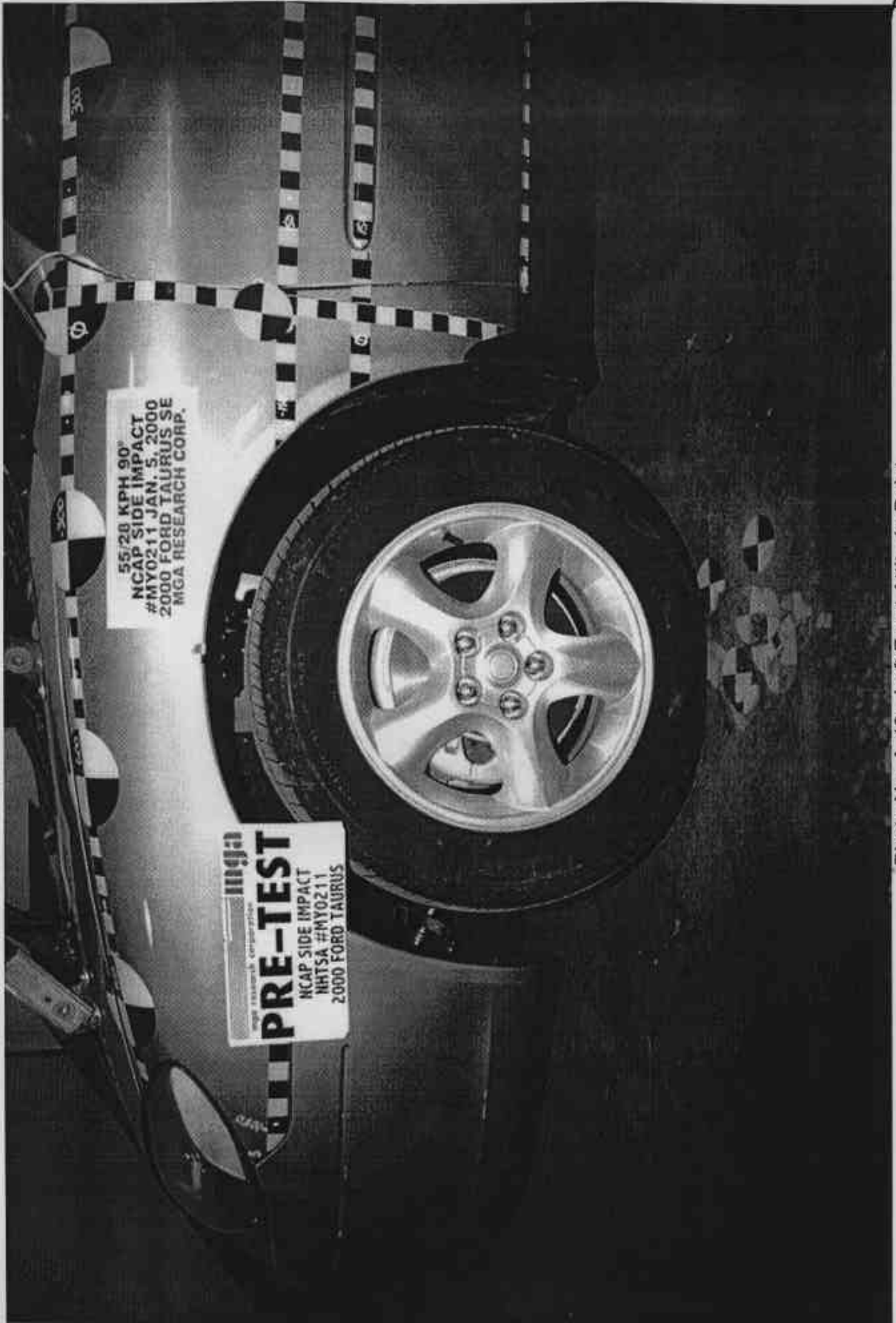


Photo No. A-49 - Left Front Attitude Point

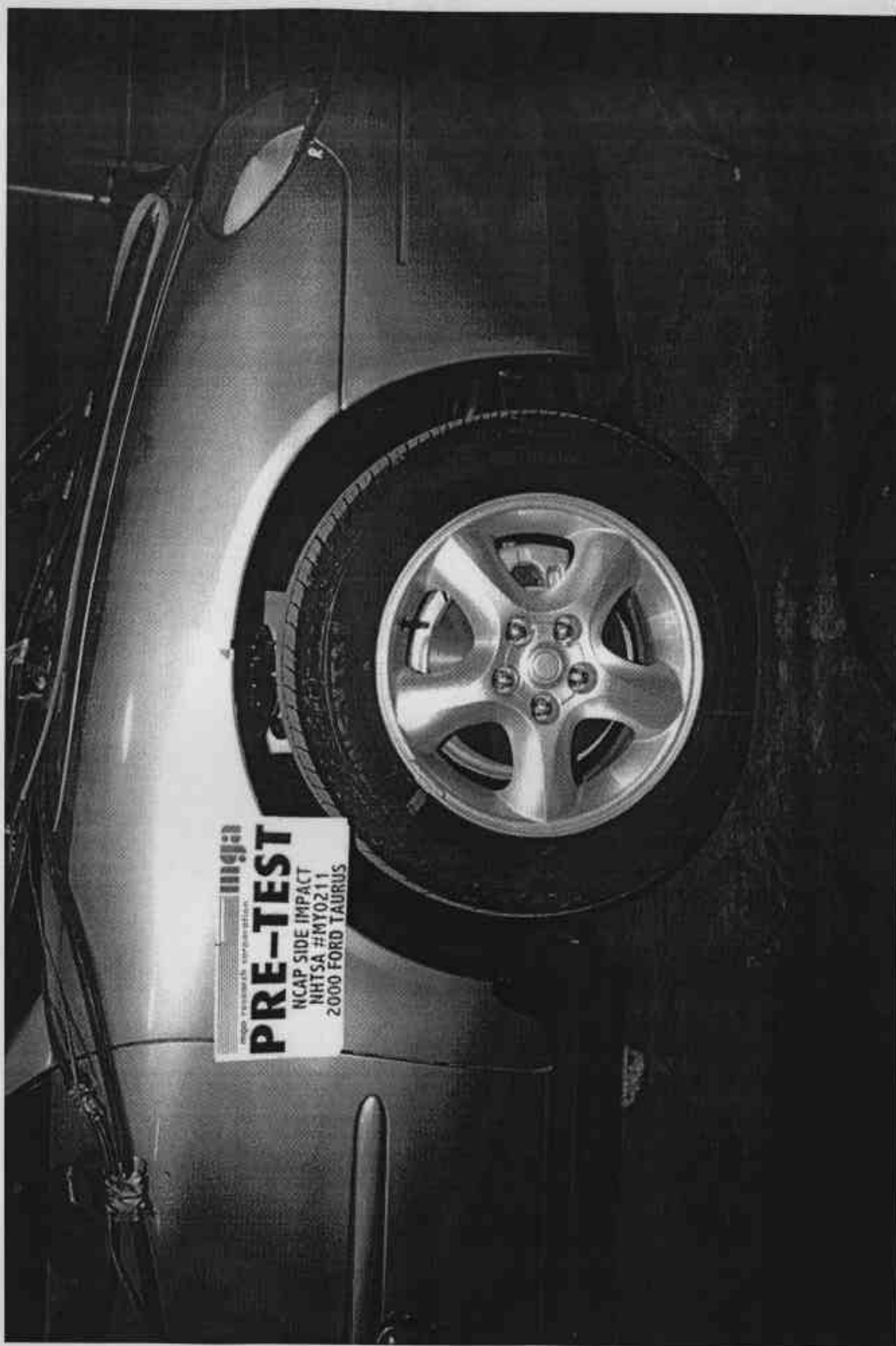


Photo No. A-50 - Right Front Attitude Point



Photo No. A-51 - Left Rear Attitude Point



Photo No. A-52 - Right Rear Attitude Point

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FIR Filtered

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TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

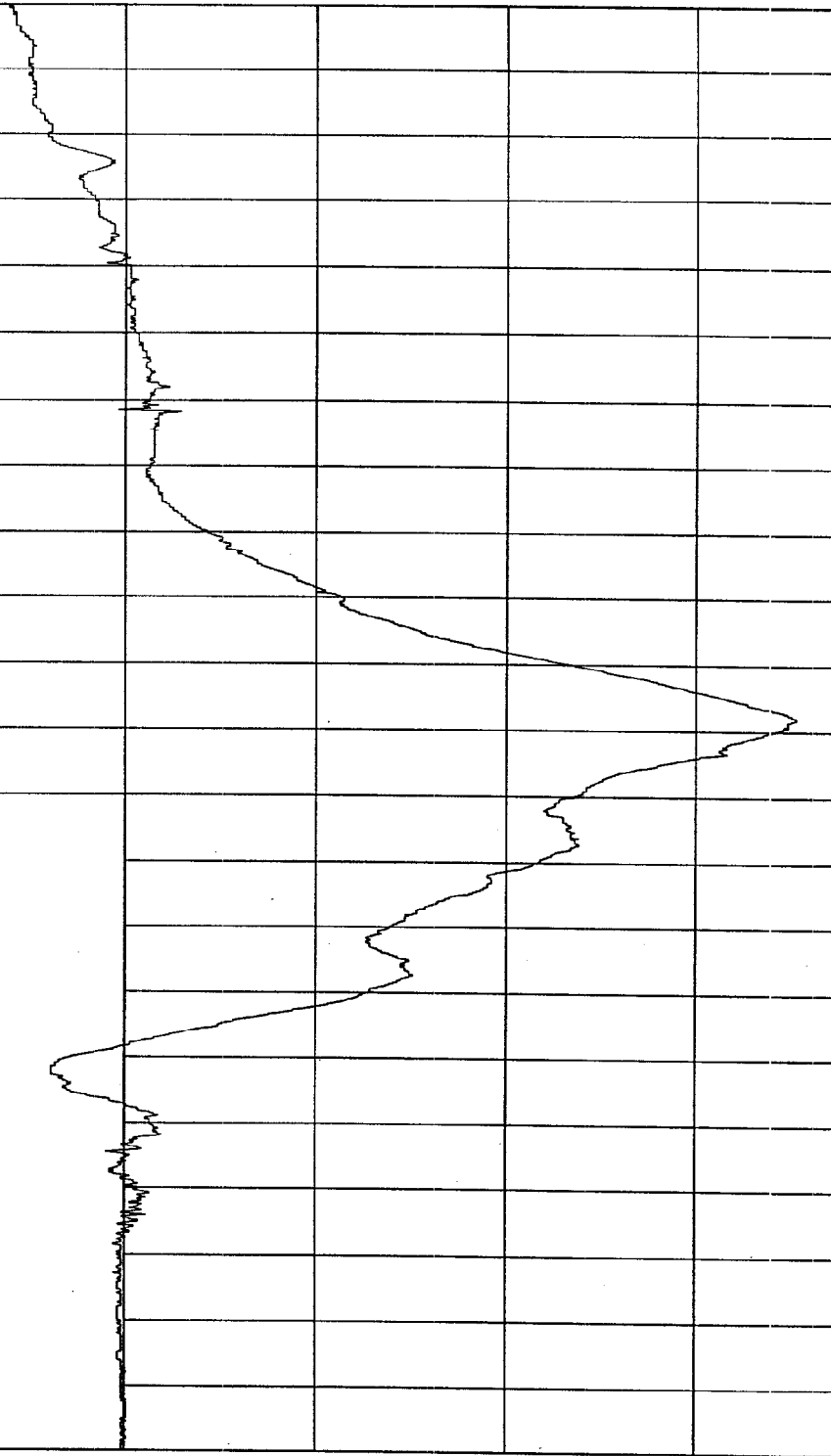
Speed: 38.2 MPH 61.5 KPH

Minimum = -35.07 G'S at 92 msec

Maximum = 6.05 G'S at 200 msec

DRIVER HEAD X ACCELERATION

1 _____ 800001AT.A12 FilterClass (1000)



TIME (SECONDS)

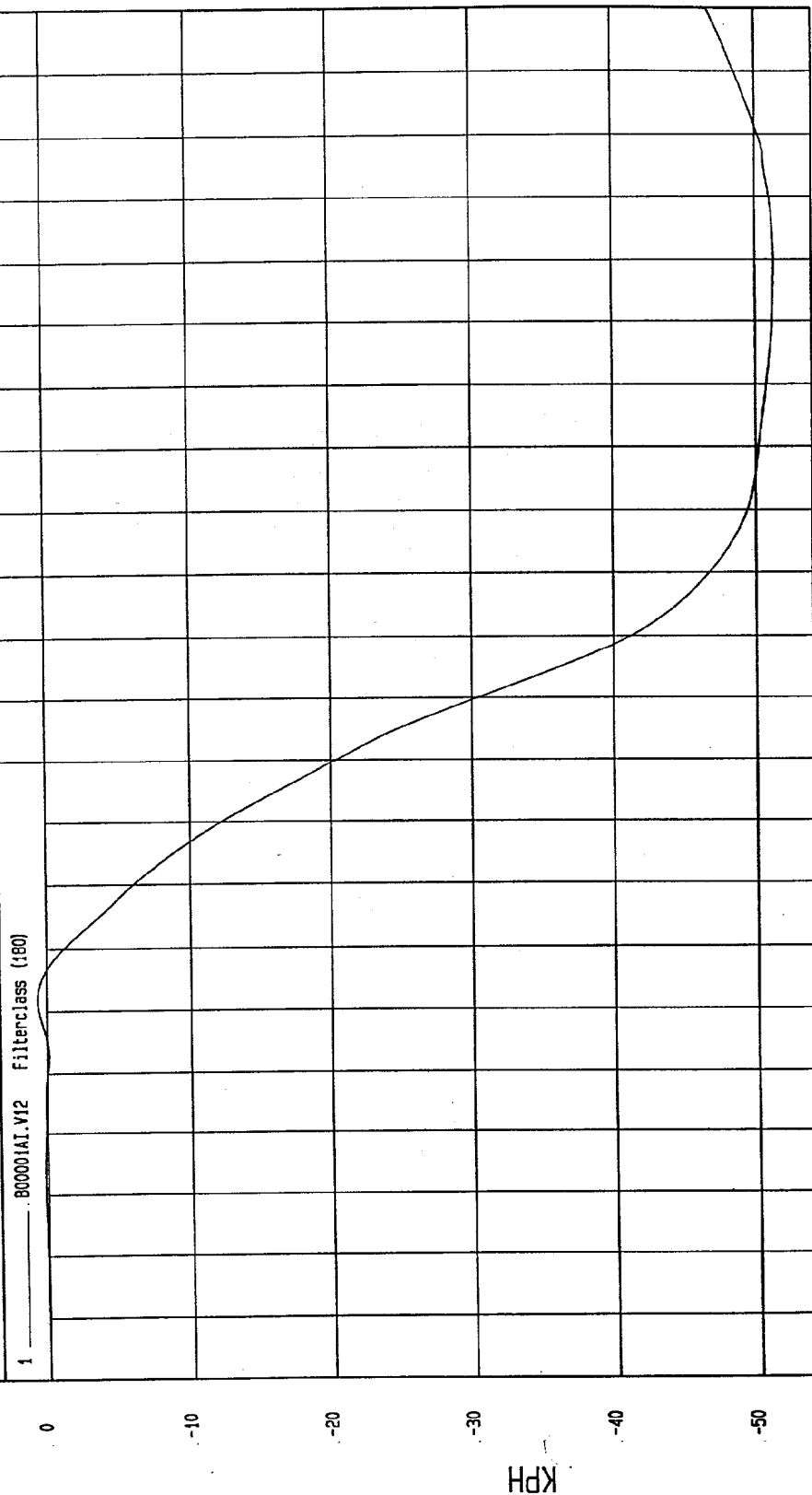
MGA Research
01-12-2000 13:36

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -51.24 KPH at 160 msec Maximum = .64 KPH at 42 msec

DRIVER HEAD X VELOCITY



MGA Research
01-12-2000 13:35

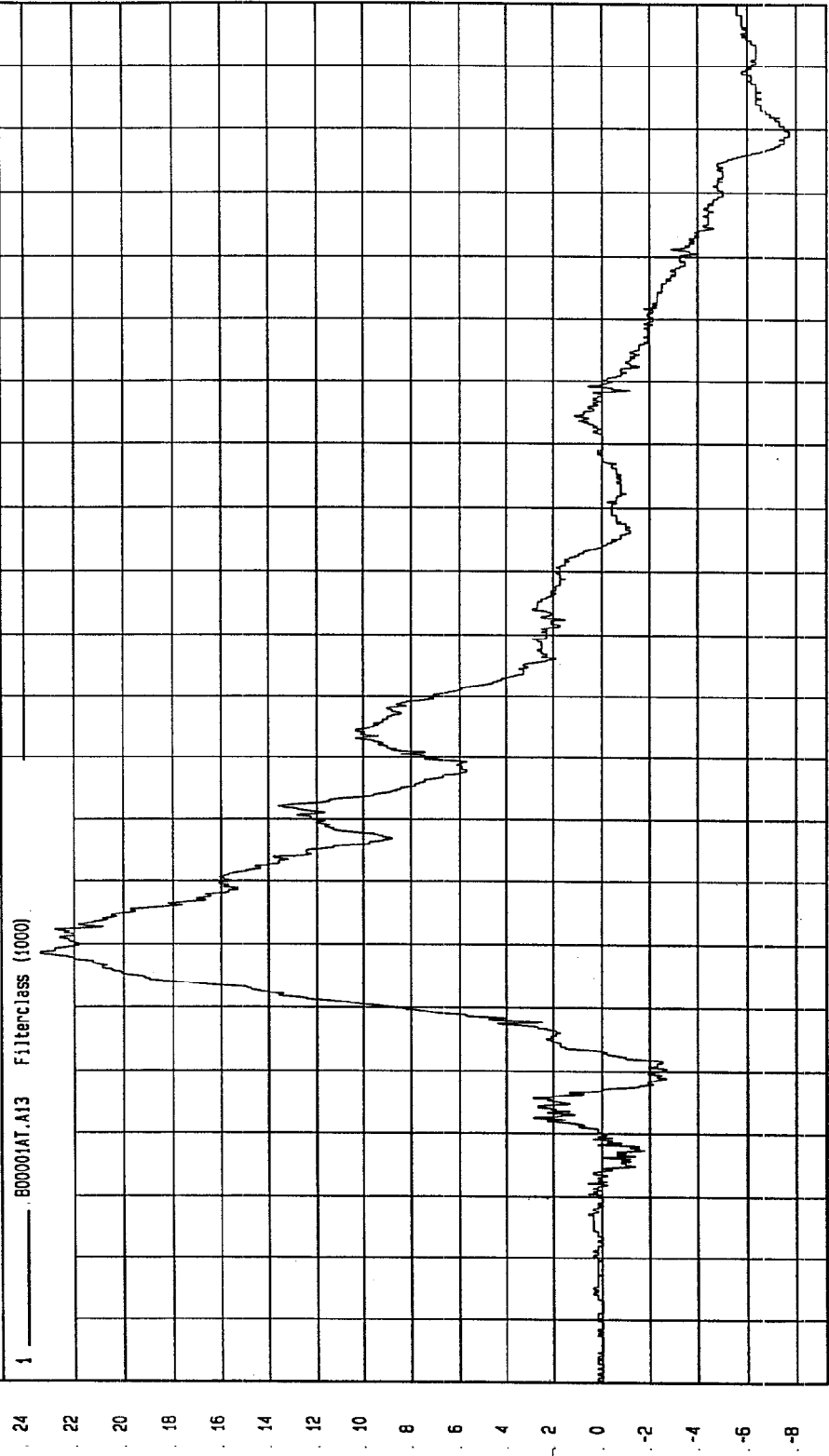
TIME Seconds

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -7.69 G'S at 179 msec Maximum = 23.36 G'S at 48 msec

DRIVER HEAD Y ACCELERATION

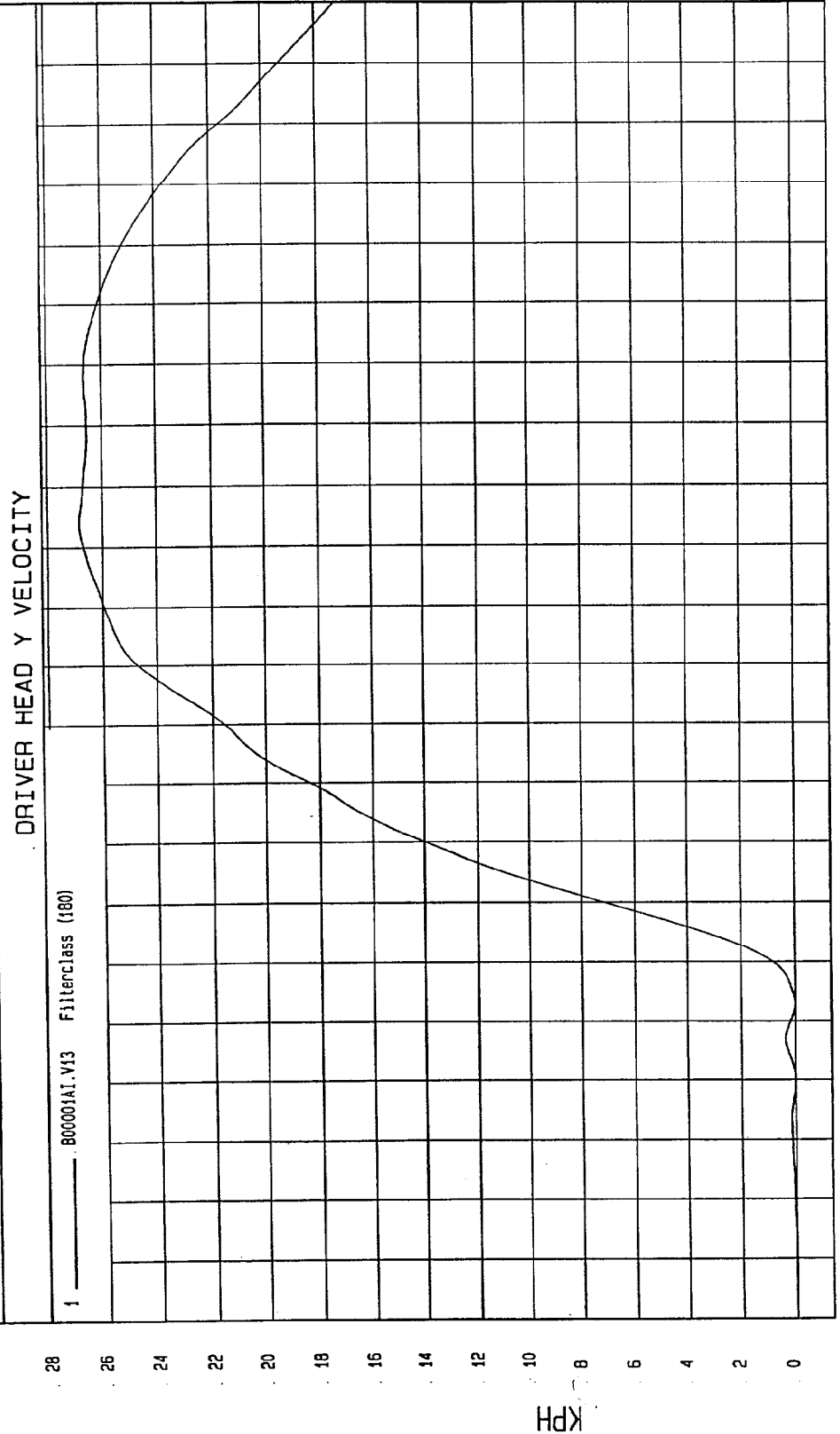


TIME (SECONDS)

MOA Research
01-12-2000 13:36

G.S

TEST: NCAP SIDE IMPACT
TEST DATE: 01-05-2000
COMPONENT: 2000 FORD TAURUS (MY0211)
Speed: 38.2 MPH 61.5 KPH
Minimum = -6.73E-03 KPH at 33 msec
Maximum = 26.86 KPH at 114 msec



TIME Seconds

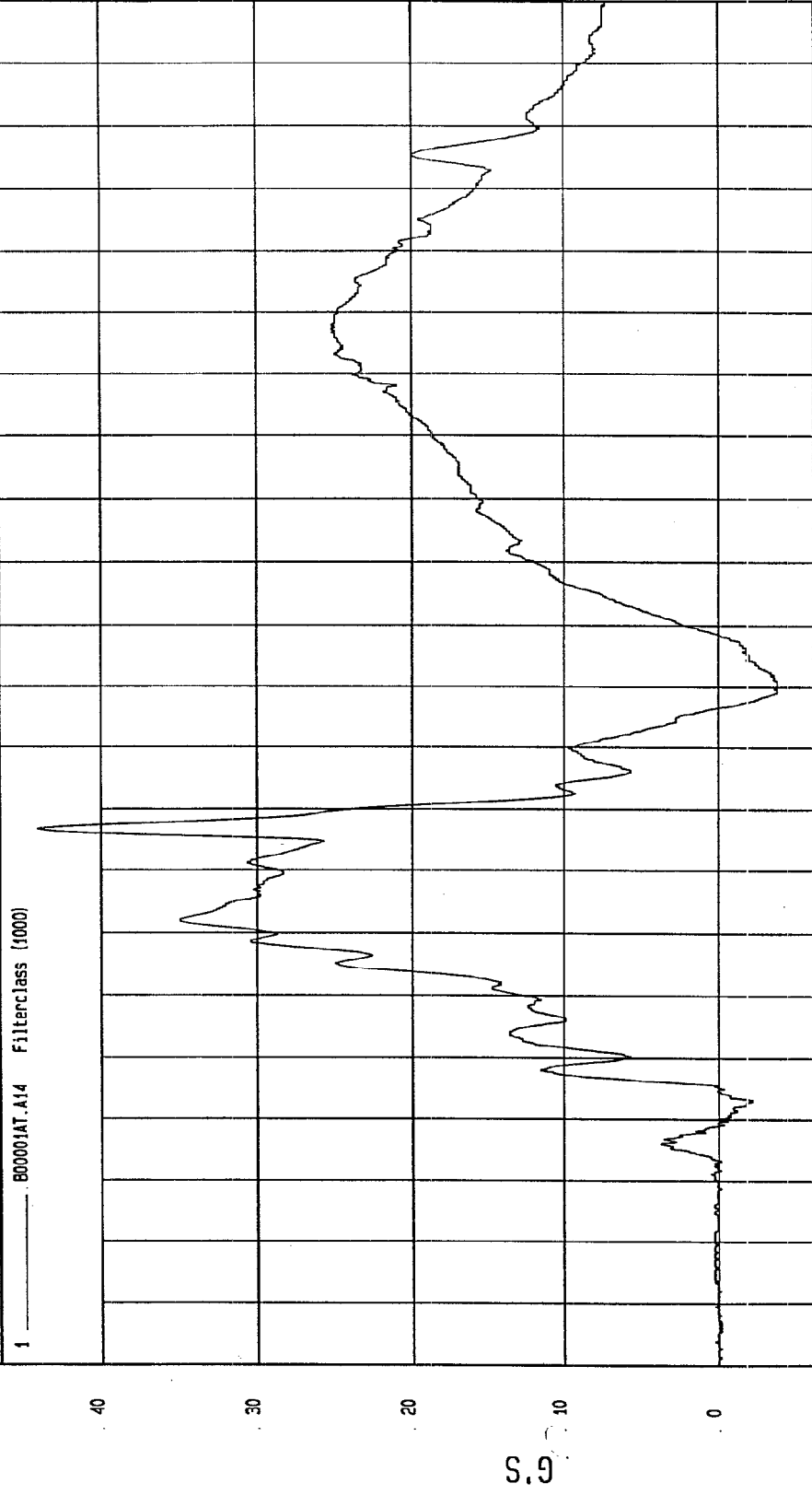
WGA Research
01-12-2000 13:36

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -3.75 G'S at 89 msec Maximum = 44.06 G'S at 67 msec

DRIVER HEAD Z ACCELERATION



MGA Research
01-12-2000 13:36

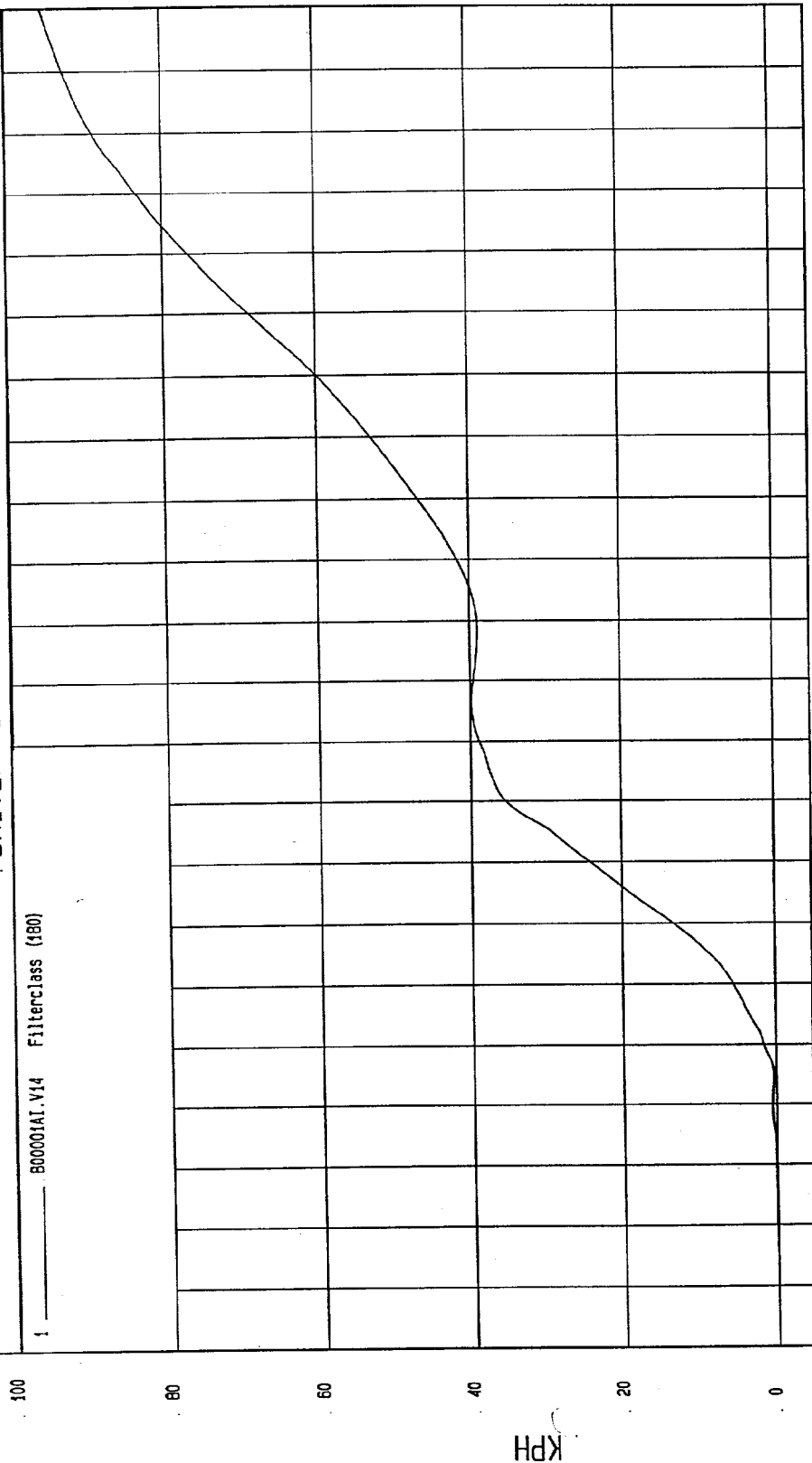
TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = 0 KPH at -20 msec Maximum = 95.39 KPH at 200 msec

DRIVER HEAD Z VELOCITY

1 800001A1.V14 FilterClass (180)



TIME Seconds

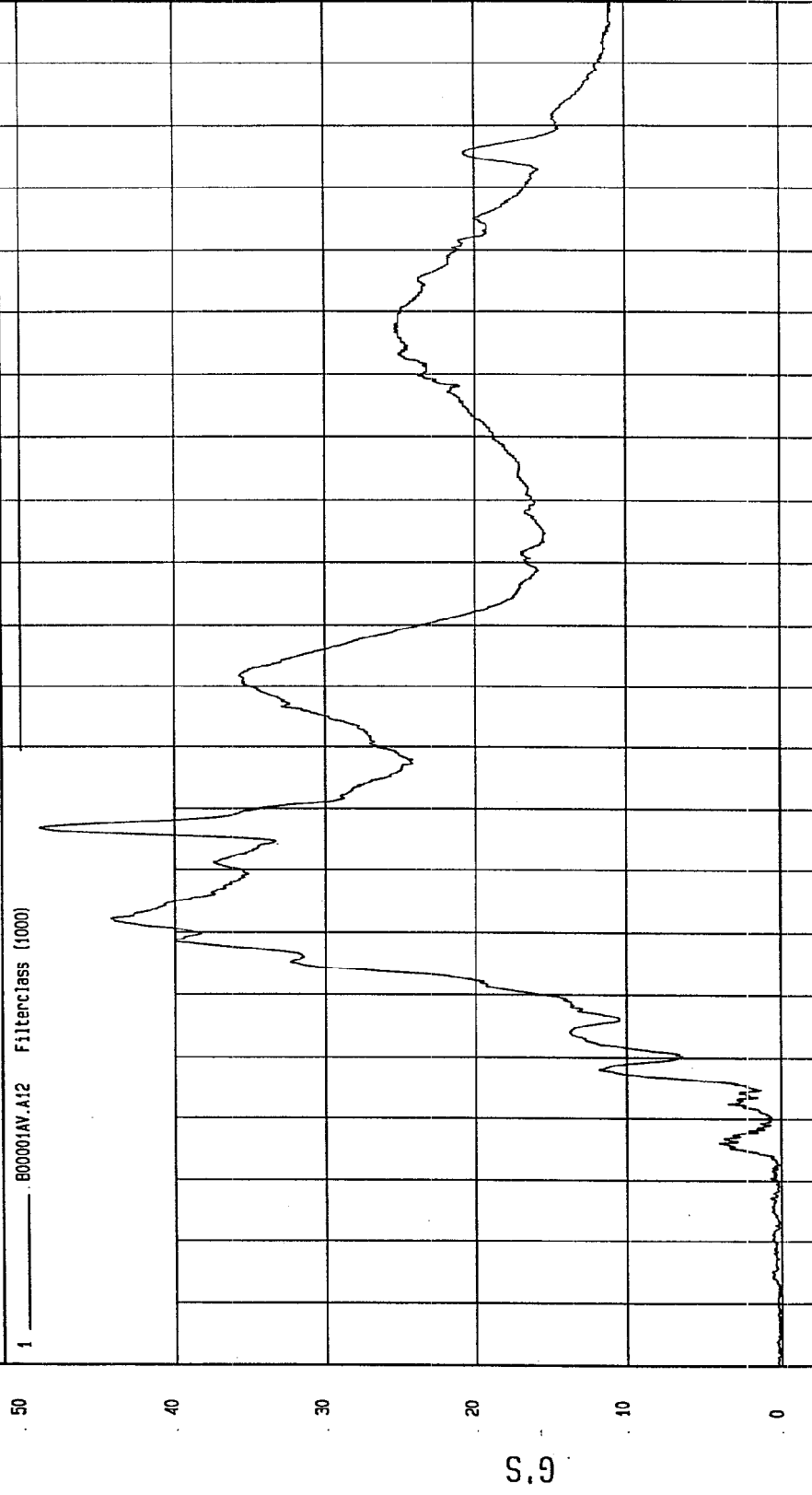
WCA Research
01-12-2000 13:36

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = 8.69E-02 G'S at -18 msec Maximum = 48.81 G'S at 67 msec

DRIVER HEAD RESULTANT ACCELERATION

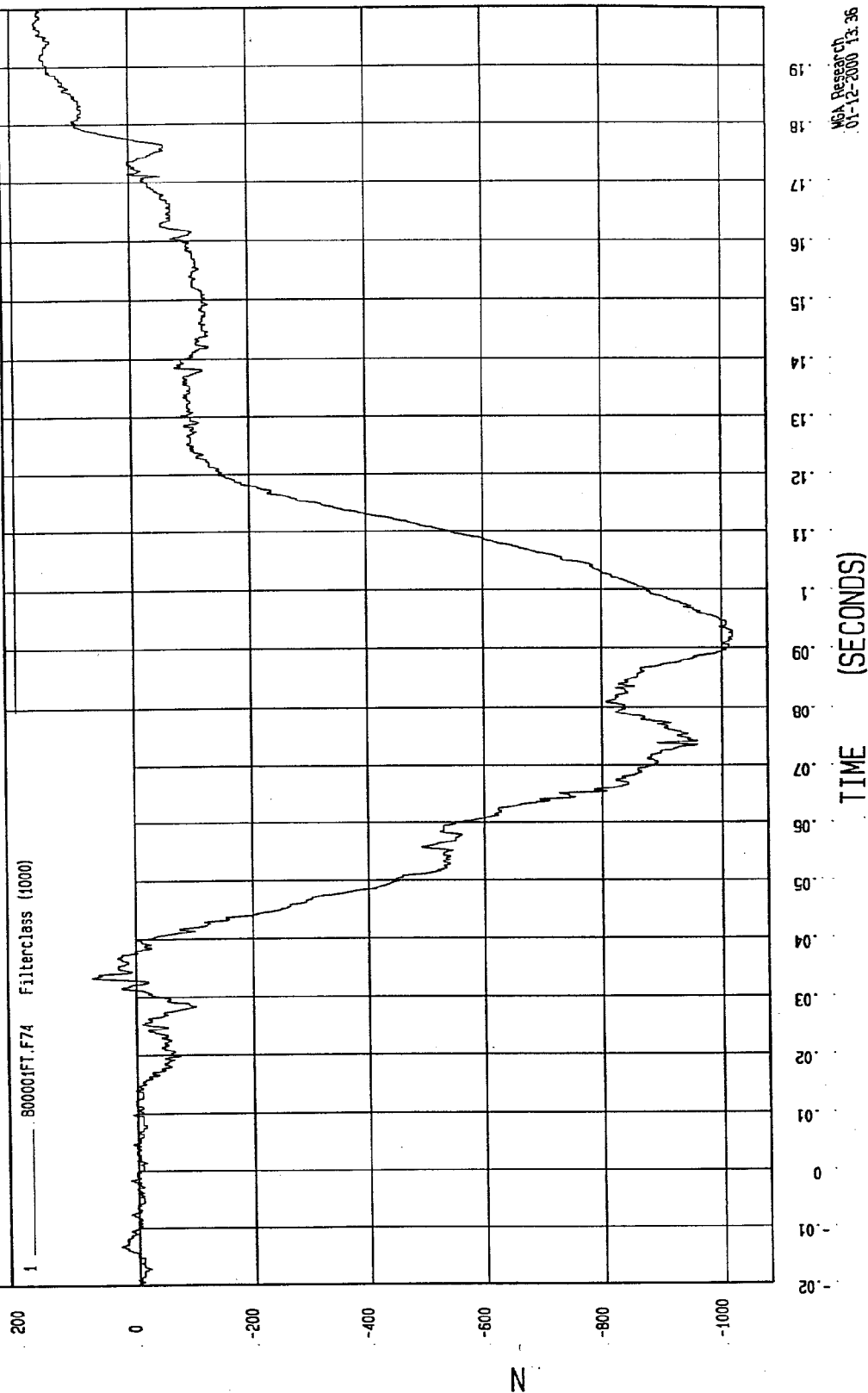


TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -1017.68 N at 91 msec Maximum = 158.6 N at 197 msec

DRIVER NECK FORCE X

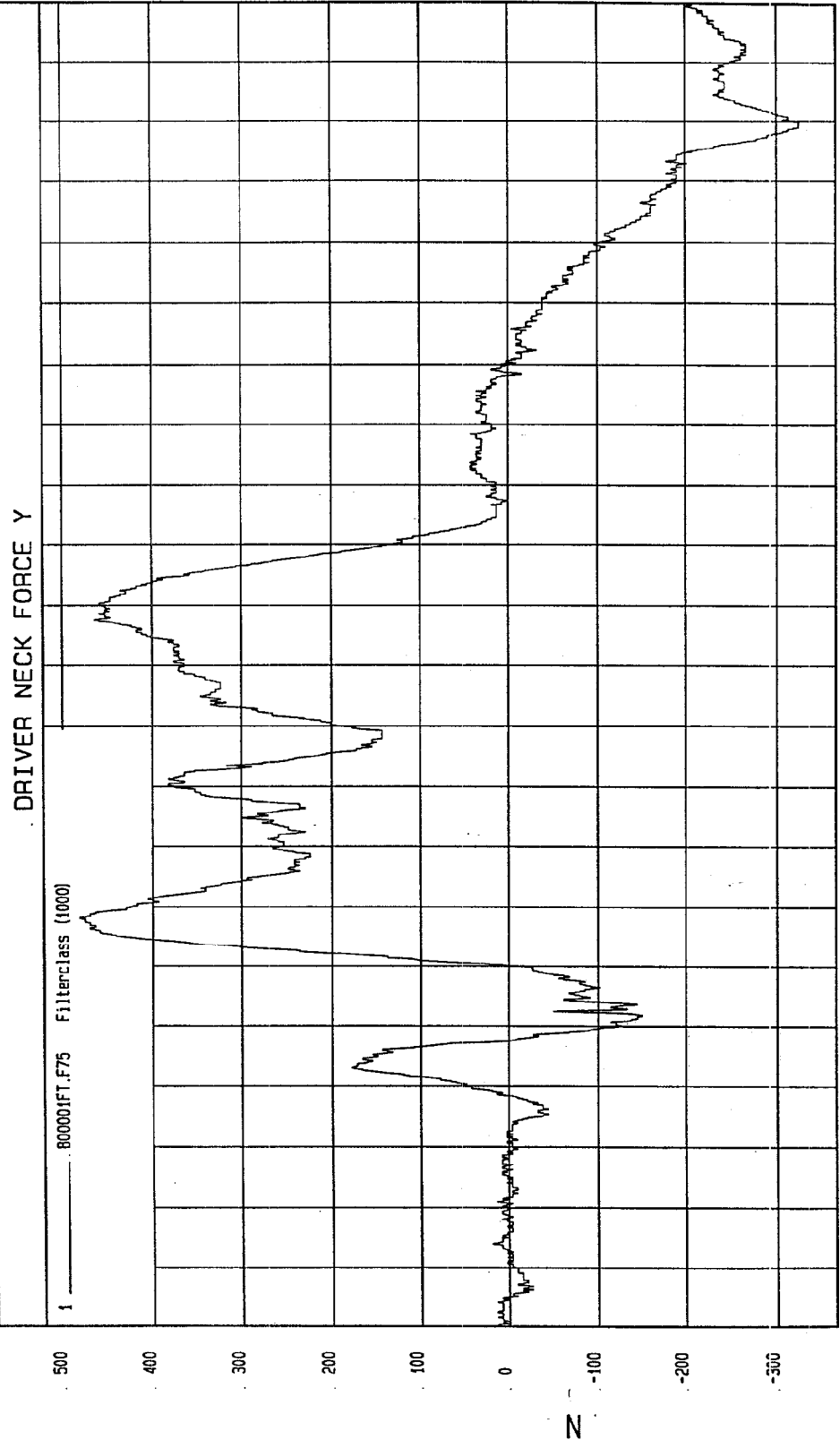


MSA Research
01-12-2000 13:36

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -324.8 N at 179 msec Maximum = 481.17 N at 48 msec



TIME (SECONDS)

0.19 0.18 0.17 0.16 0.15 0.14 0.13 0.12 0.11 0.1 0.09 0.08 0.07 0.06 0.05 0.04 0.03 0.02 0.01 0 -0.01 -0.02

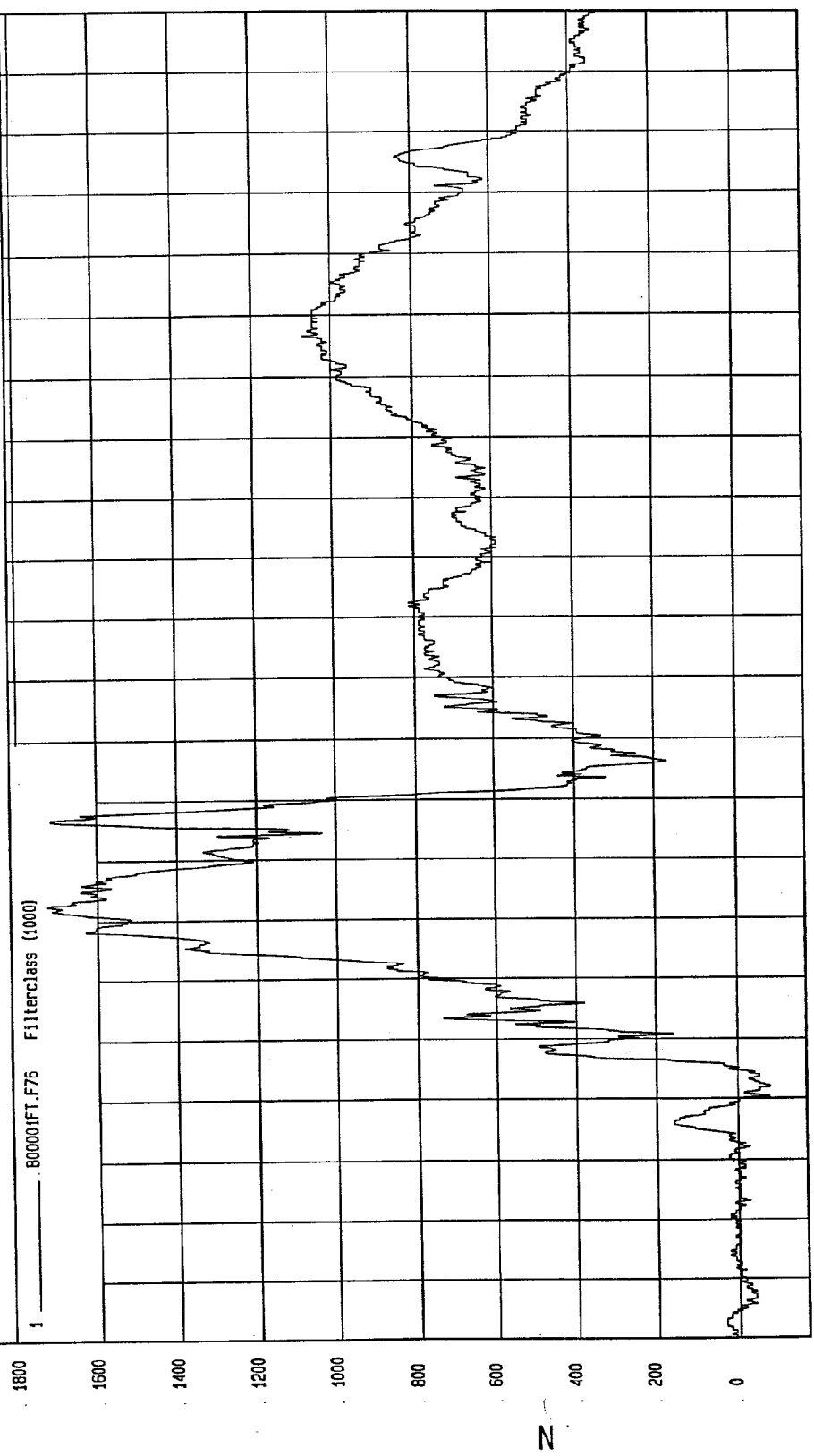
500 400 300 200 100 0 -100 -200 -300

N

MCA Research
01-12-2000 13:36

TEST: NCAP SIDE IMPACT
TEST DATE: 01-05-2000
COMPONENT: 2000 FORD TAURUS (MY0211)
Speed: 38.2 MPH 61.5 KPH
Minimum = -77.57 N at 20 msec
Maximum = 1726.82 N at 52 msec

DRIVER NECK FORCE Z

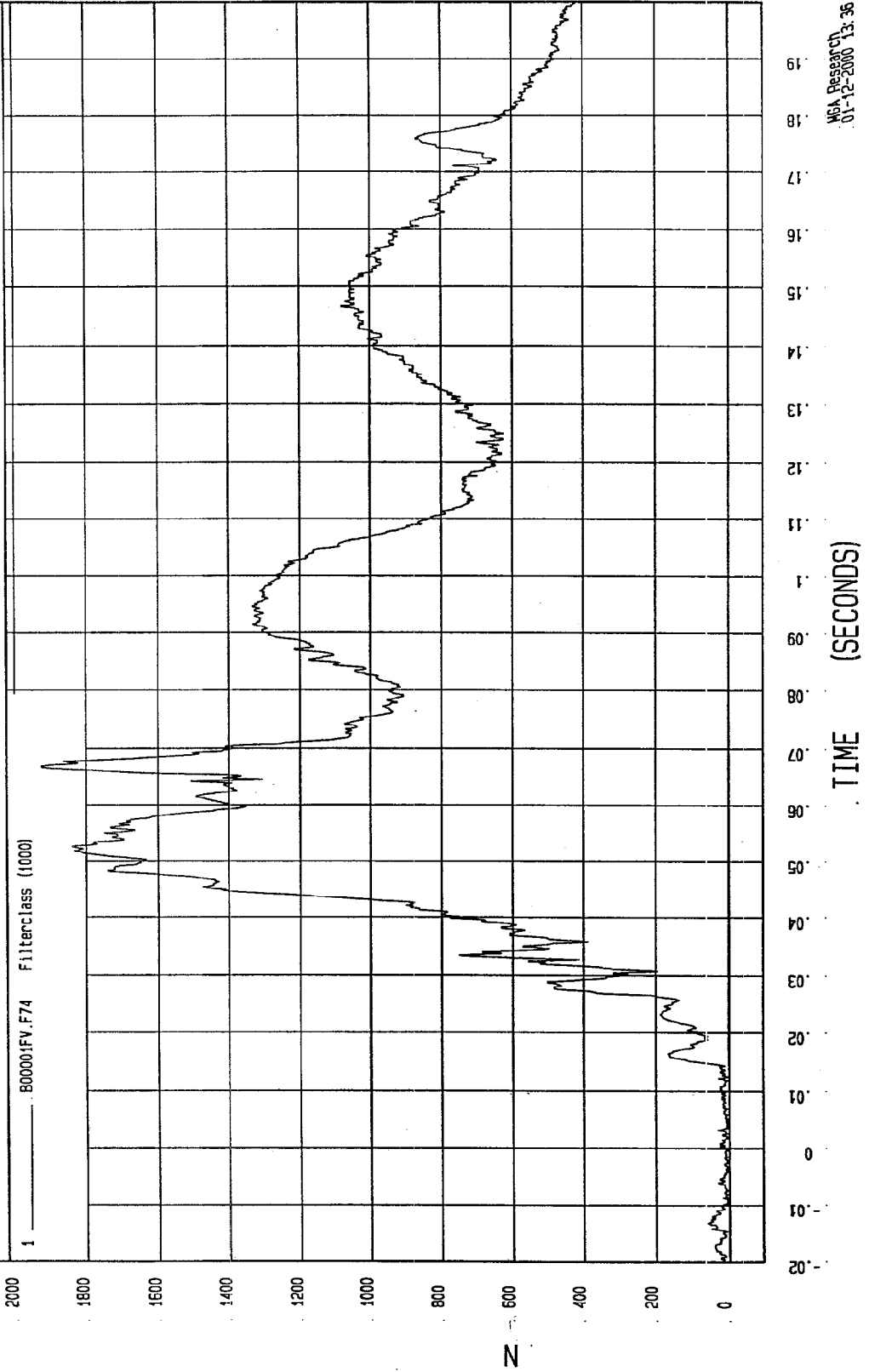


TIME (SECONDS)

NSA Research
01-12-2000 13:36

TEST: NCAP SIDE IMPACT
TEST DATE: 01-05-2000
COMPONENT: 2000 FORD TAURUS (MY0211)
Speed: 38.2 MPH 61.5 KPH
Minimum = 4.61 N at -9 msec
Maximum = 1925.89 N at 67 msec

DRIVER NECK FORCE RESULTANT



TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

Speed: 38.2 MPH 61.5 KPH

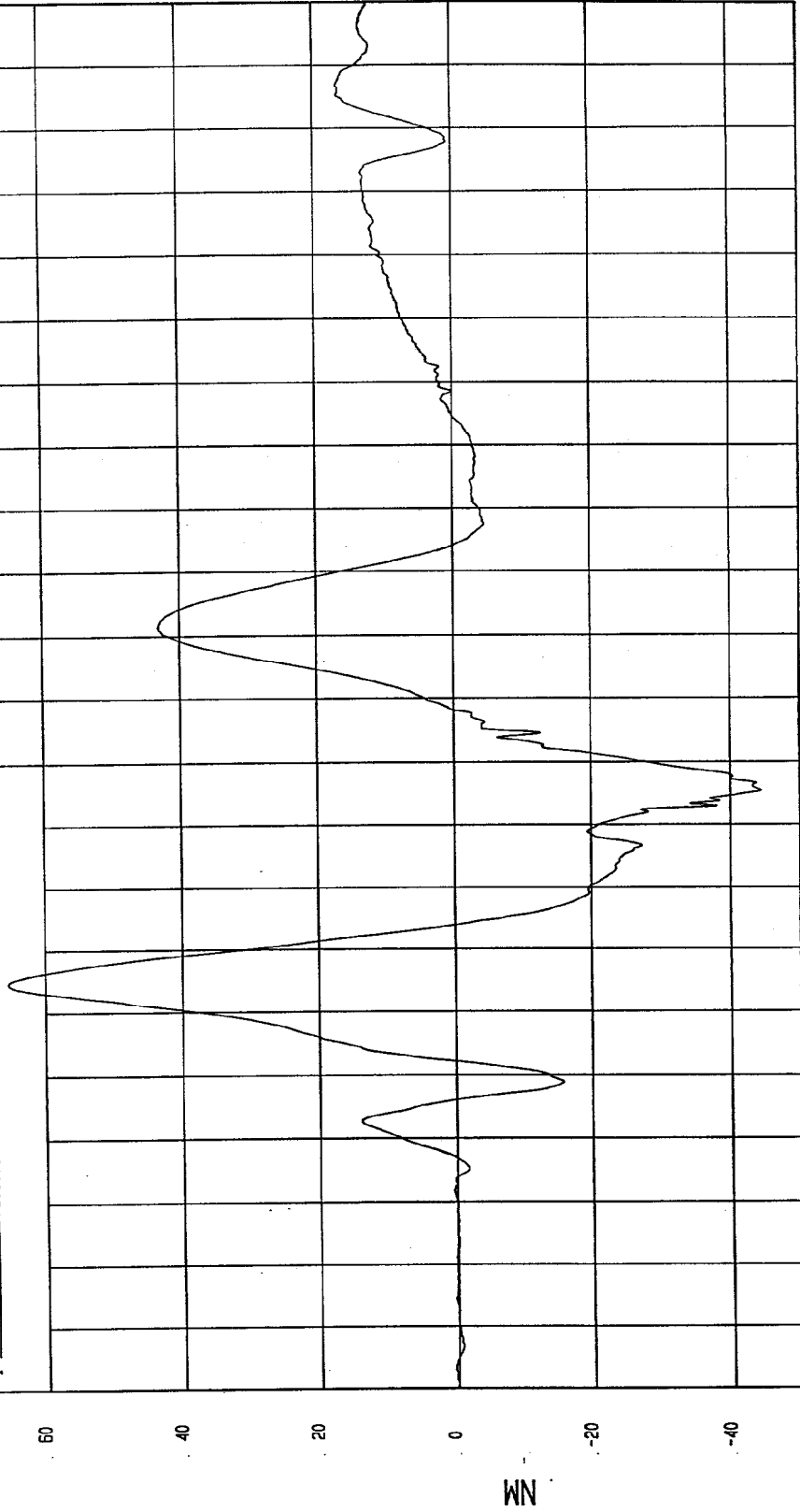
COMPONENT: 2000 FORD TAURUS (MY0211)

Maximum = 65.43 NM at 45 msec

Minimum = -44.5 NM at 75 msec

DRIVER NECK MOMENT X

1 800001MF.N77 Filterclass (600)



TIME (SECONDS)

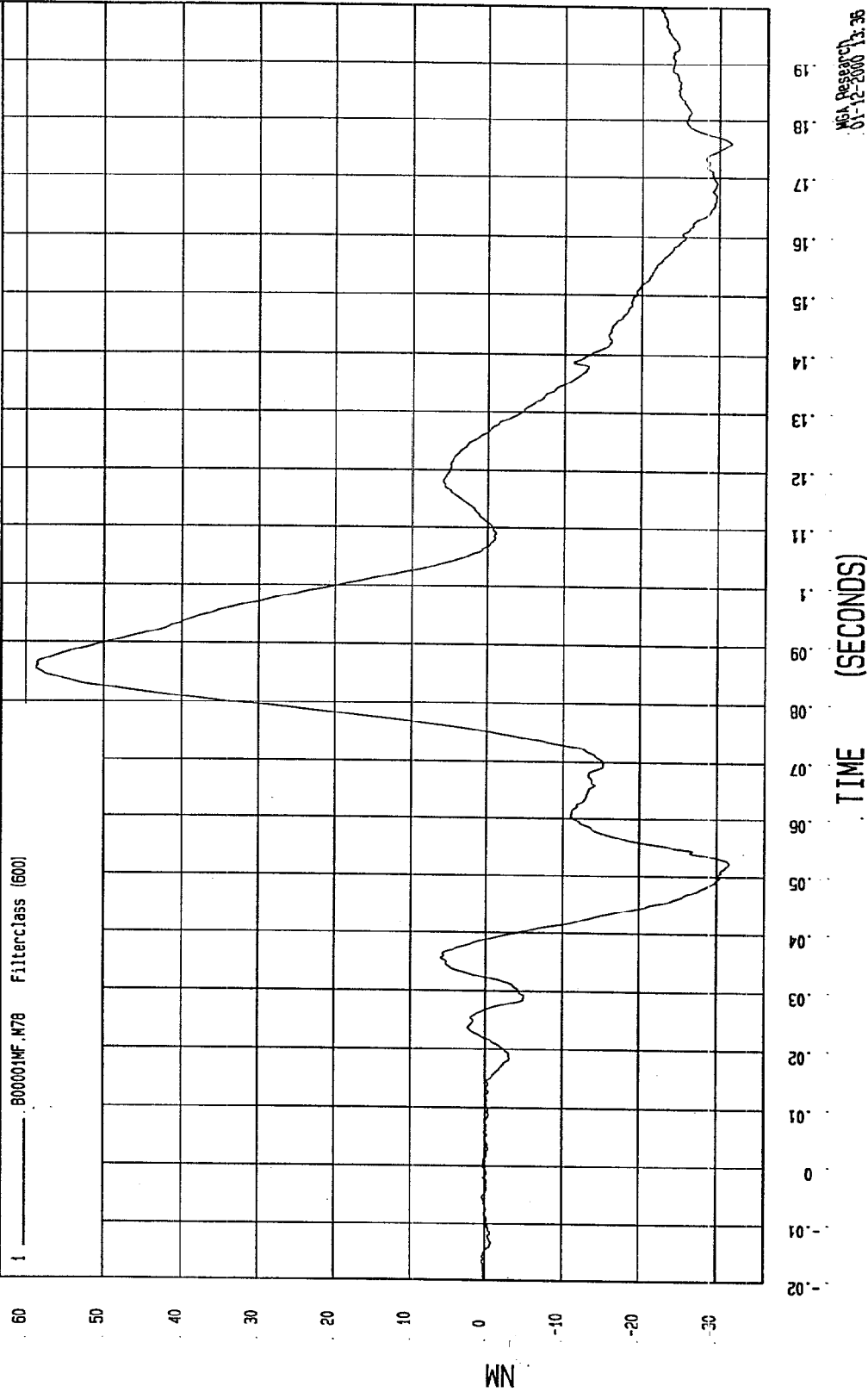
MCA Research
01-12-2000 13:36

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -31.53 NM at 52 msec Maximum = 58.66 NM at 86 msec

DRIVER NECK MOMENT Y



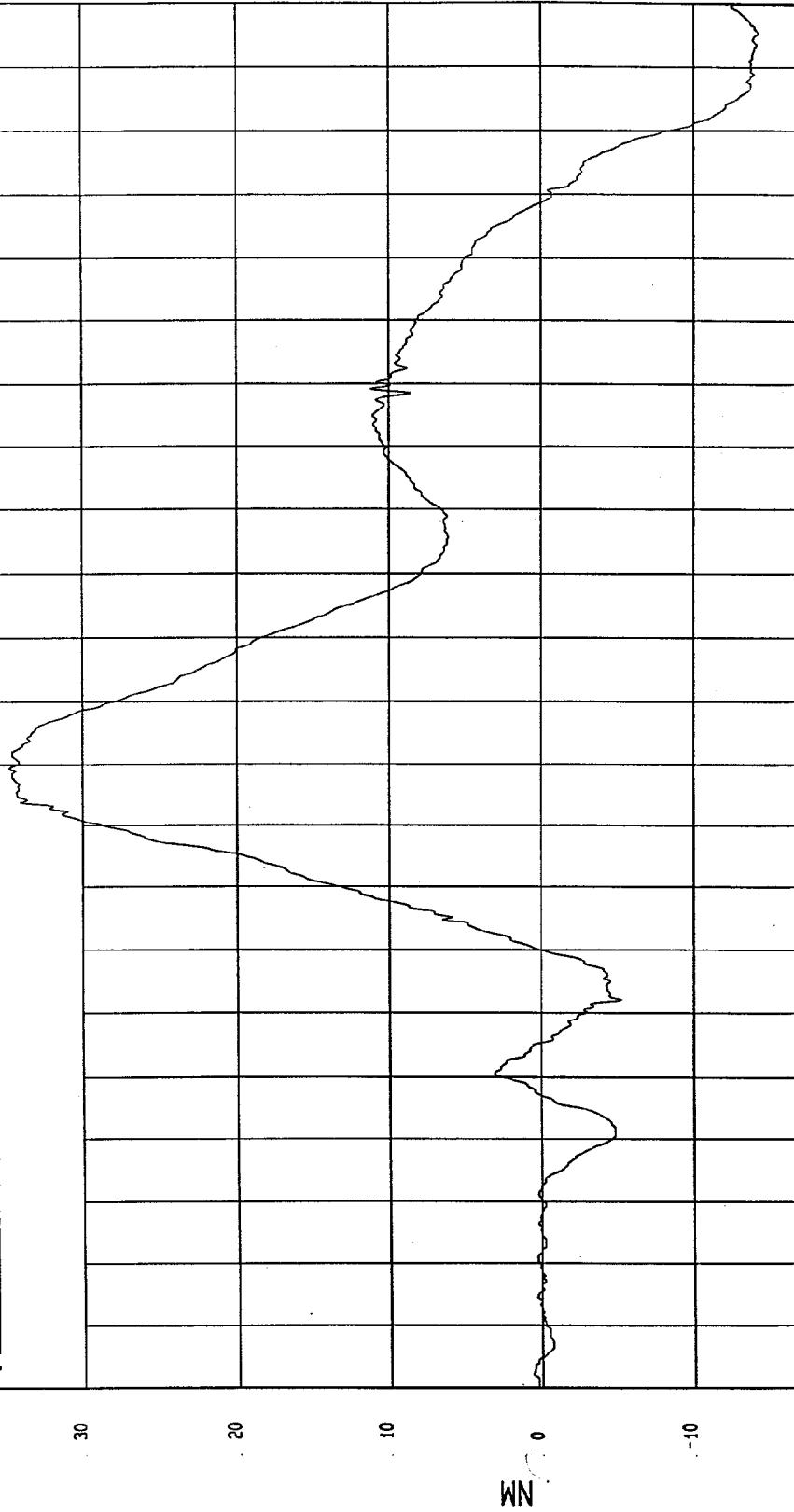
TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -14.19 NM at 195 msec Maximum = 34.76 NM at 79 msec

DRIVER NECK MOMENT Z

1 ——— 800001MF.M79 Filterclass (600)



MECA Research
01-12-2000 13:36

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

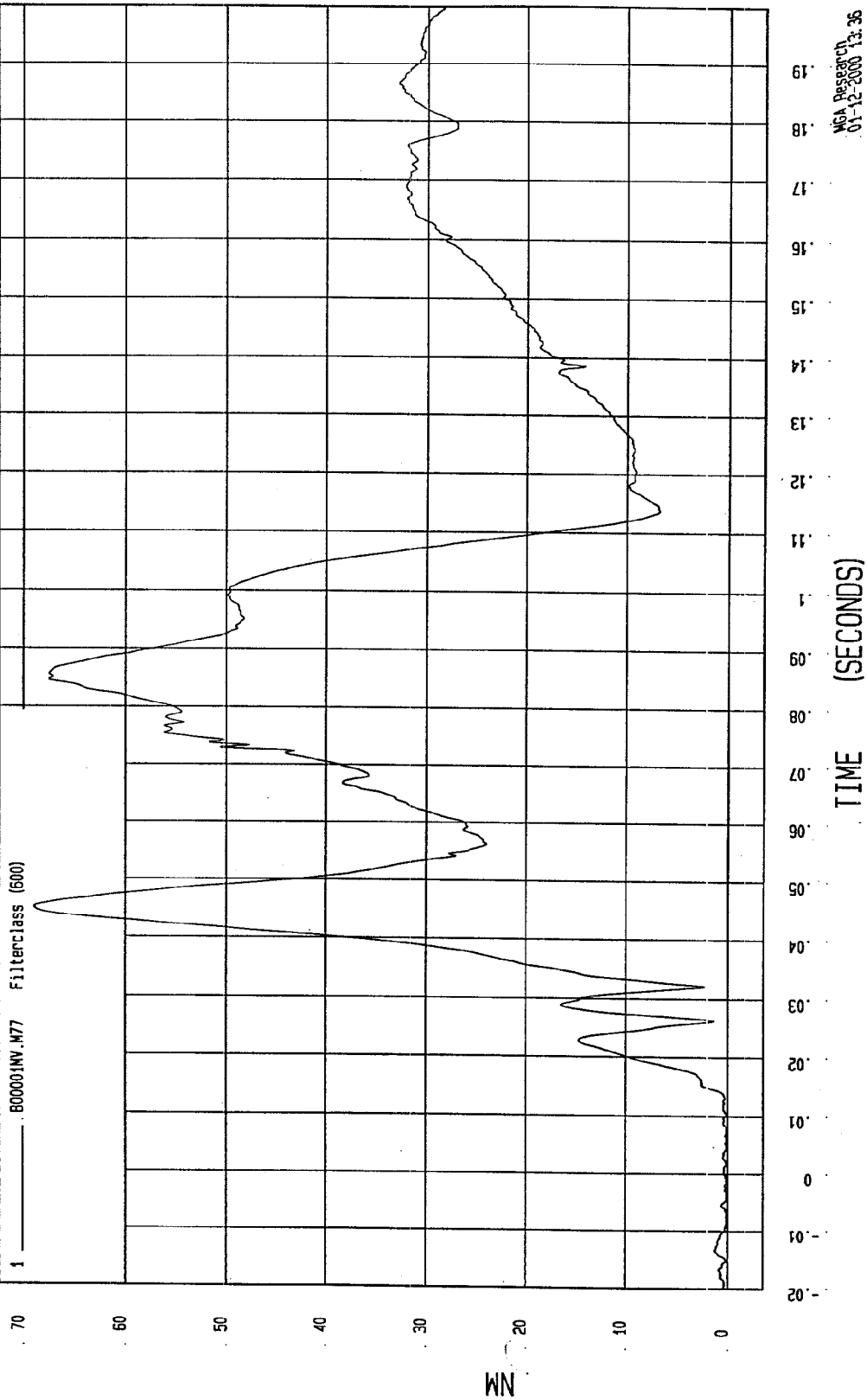
Speed: 38.2 MPH 61.5 KPH

COMPONENT: 2000 FORD TAURUS (MY0211)

Maximum = 68.98 NM at 45 msec

Minimum = 3.98E-02 NM at 6 msec

DRIVER NECK MOMENT RESULTANT



MGA Research
01-12-2000 13:36

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

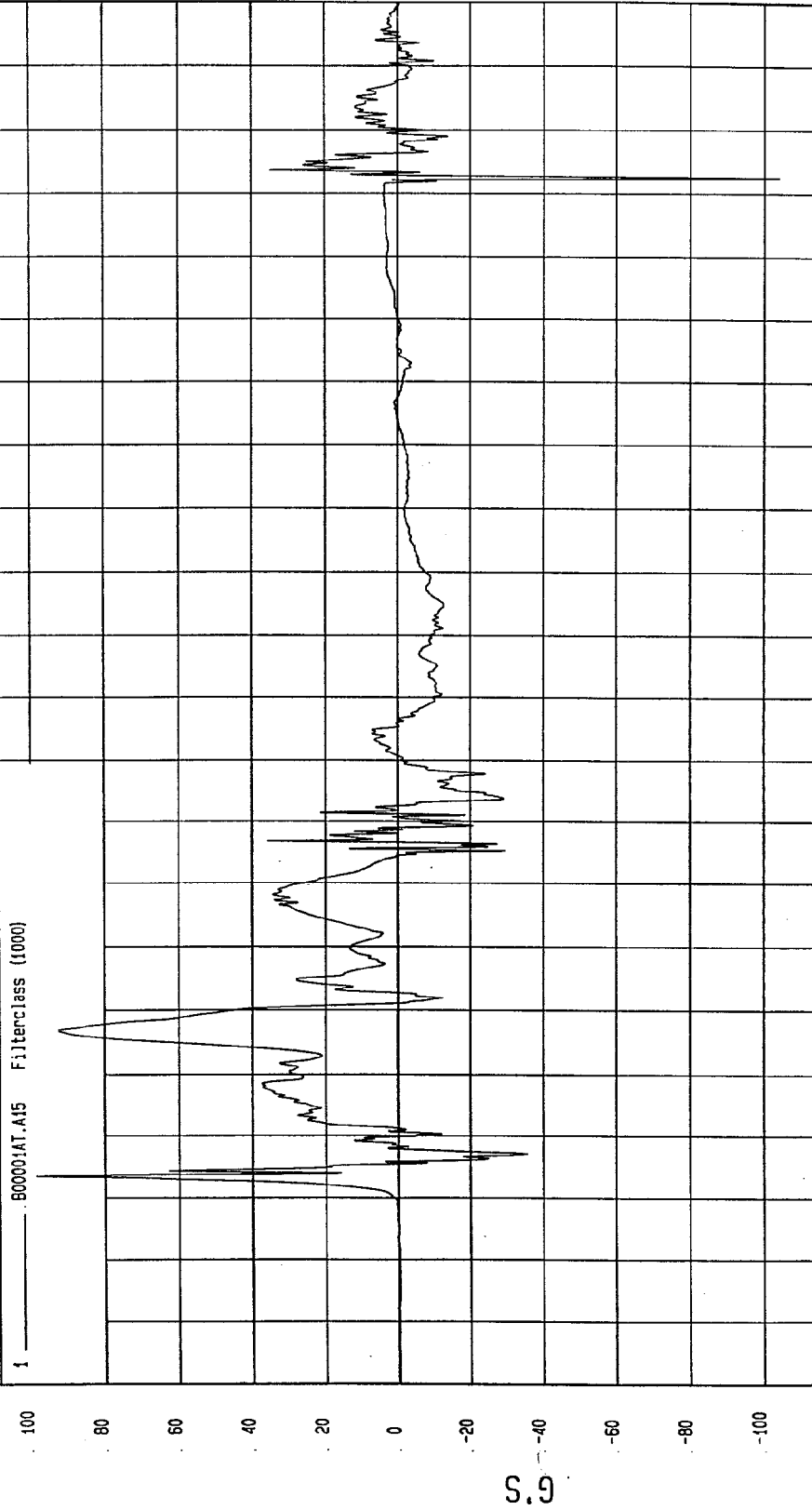
Speed: 38.2 MPH 61.5 KPH

COMPONENT: 2000 FORD TAURUS (MY0211)

Maximum = 98.47 G'S at 14 msec

Minimum = -104.06 G'S at 173 msec

DRIVER UPPER RIB Y ACCELERATION



TIME (SECONDS)

MOA Research
01-12-2000 13:31

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

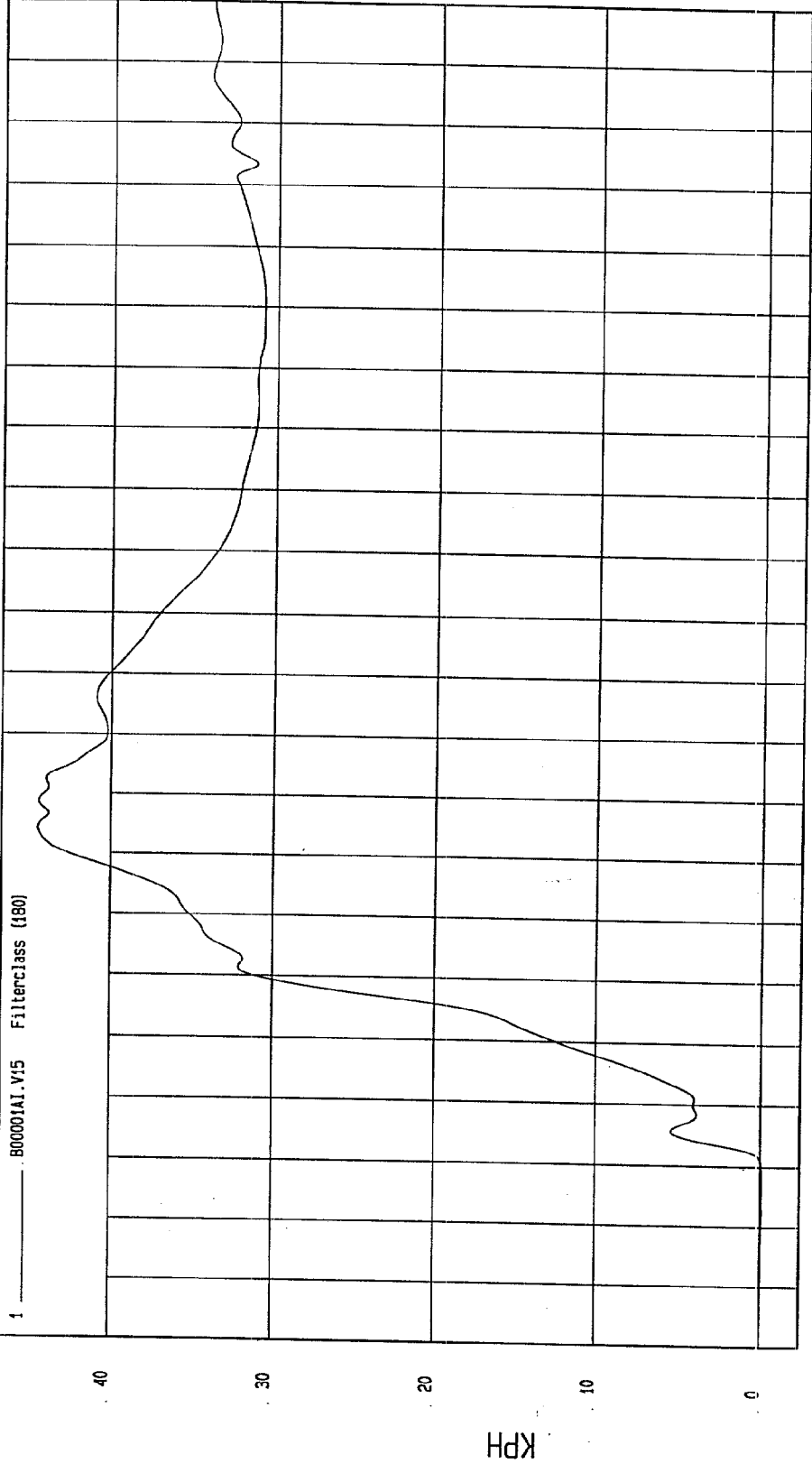
Speed: 38.2 MPH 61.5 KPH

Minimum = -7.36E-02 KPH at 2 msec

Maximum = 44.38 KPH at 64 msec

DRIVER UPPER RIB Y VELOCITY

1 — 800001A1.V15 Filterclass (180)



WCA Research
01-12-2000 13:37

TIME Seconds

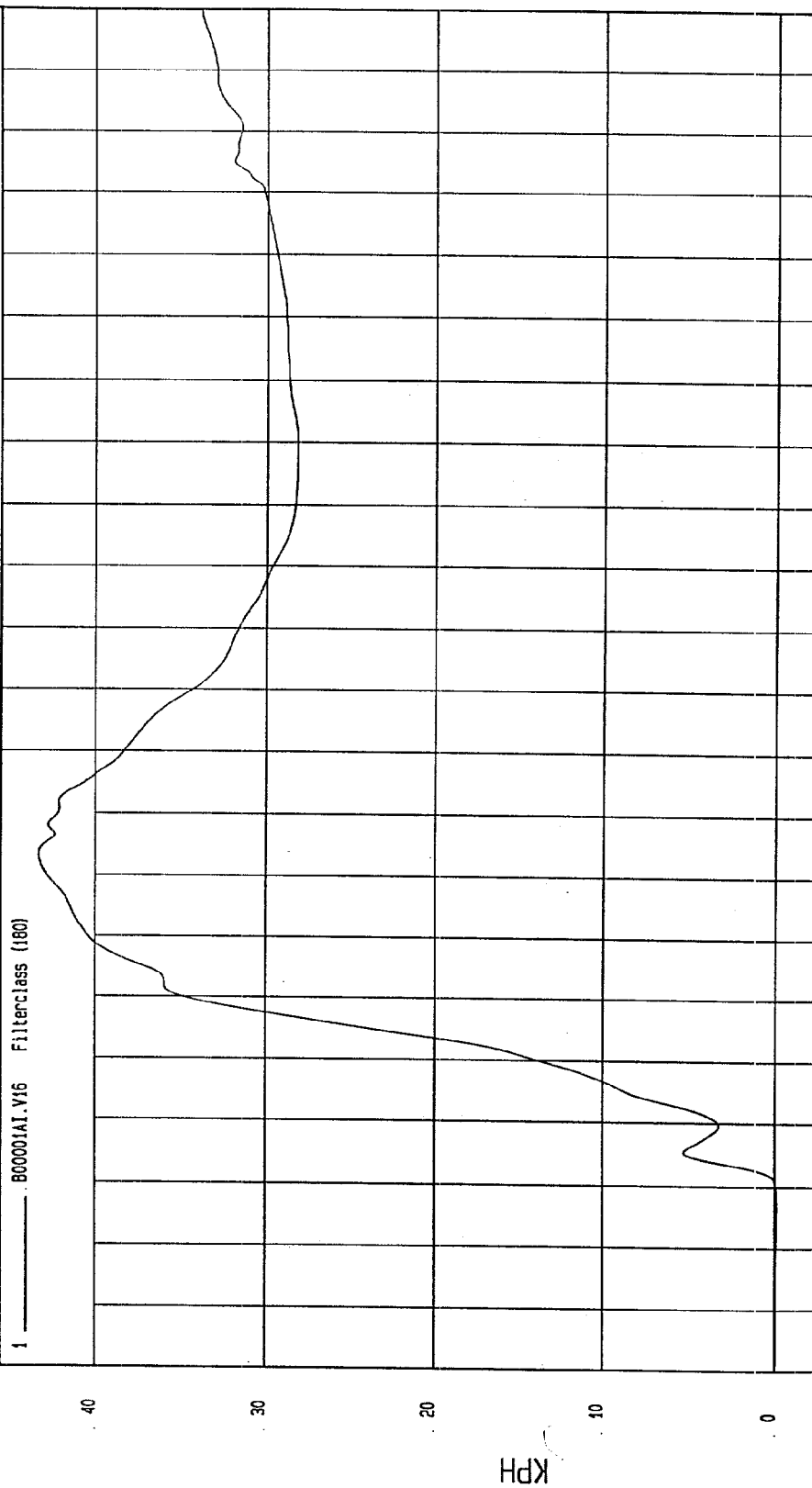
TIME (SECONDS)

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -1 KPH at 7 msec Maximum = 43.23 KPH at 63 msec

DRIVER LOWER RIB Y VELOCITY



TIME Seconds

MSA Research
01-12-2000 13:37

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

Speed: 38.2 MPH 61.5 KPH

Minimum = -45.81 G'S at 65 msec

Maximum = 84.49 G'S at 34 msec

DRIVER LOWER SPINE Y ACCELERATION

1 800001AF.A17 Filterclass (180)



TIME (SECONDS)

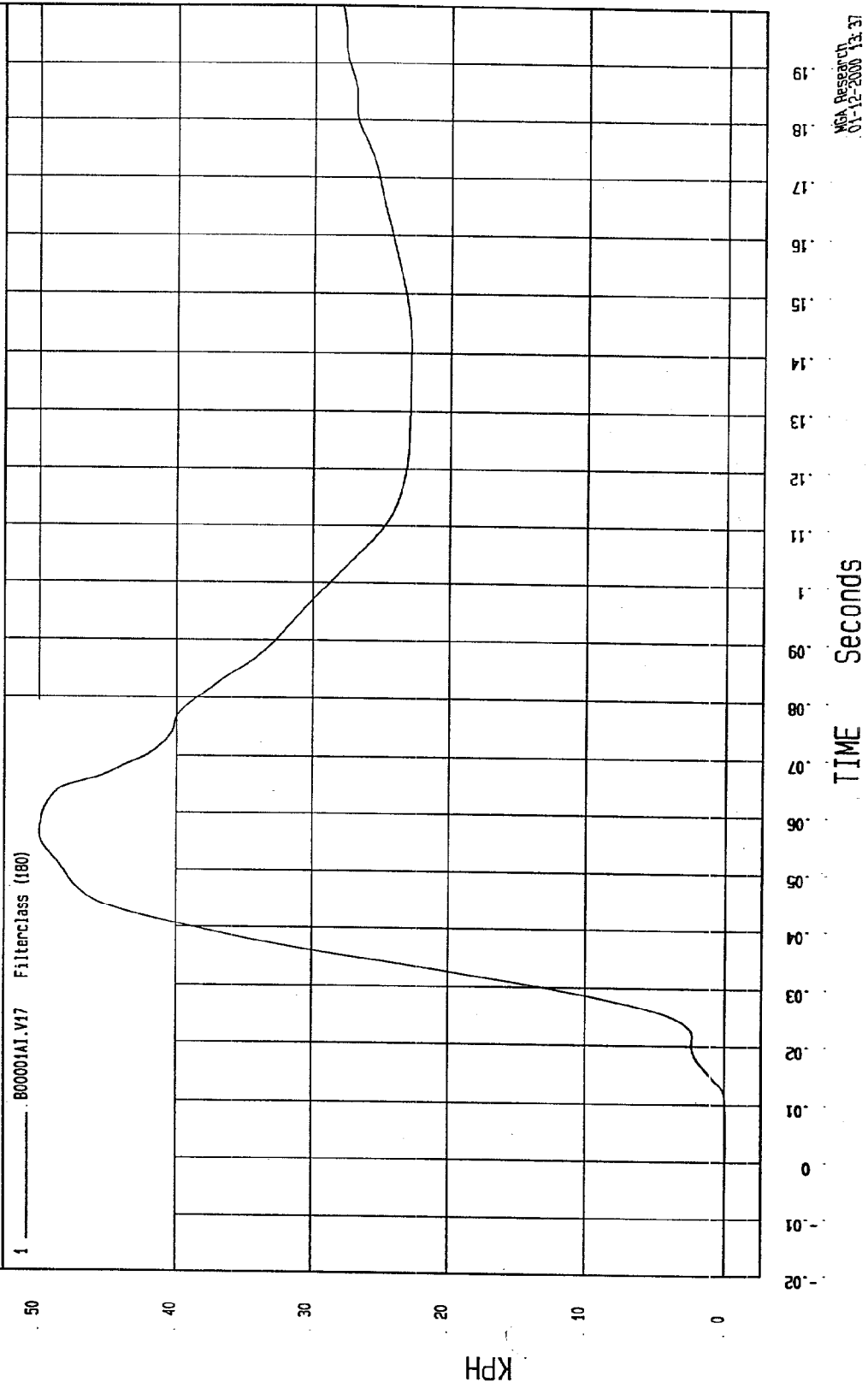
WCA Research
01-12-2000 13:37

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -6.42E-02 KPH at 2 msec Maximum = 50 KPH at 56 msec

DRIVER LOWER SPINE Y VELOCITY

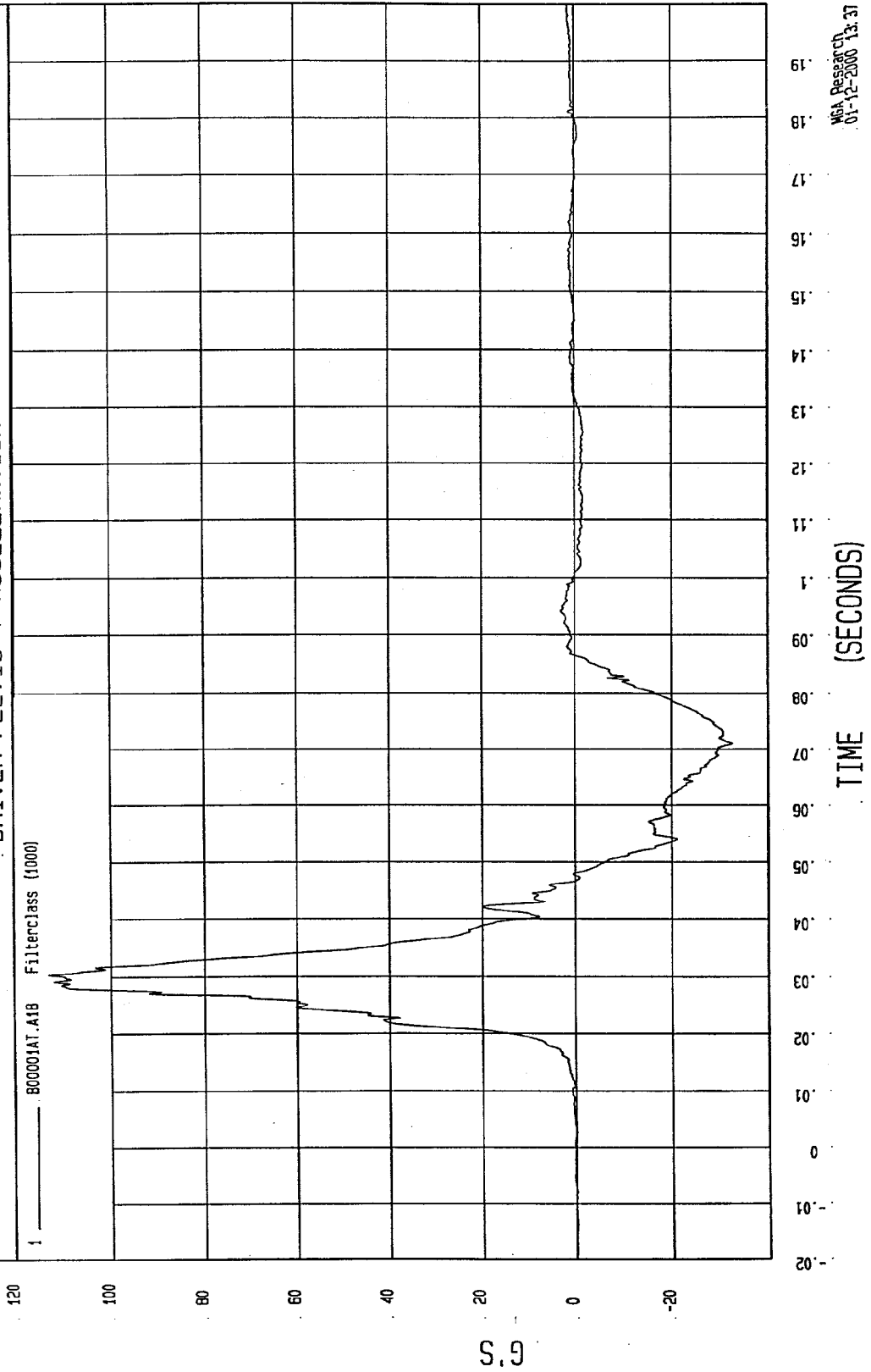


TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -32.6 G'S at 71 msec Maximum = 113.03 G'S at 30 msec

DRIVER PELVIS Y ACCELERATION



TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

Speed: 38.2 MPH 61.5 KPH

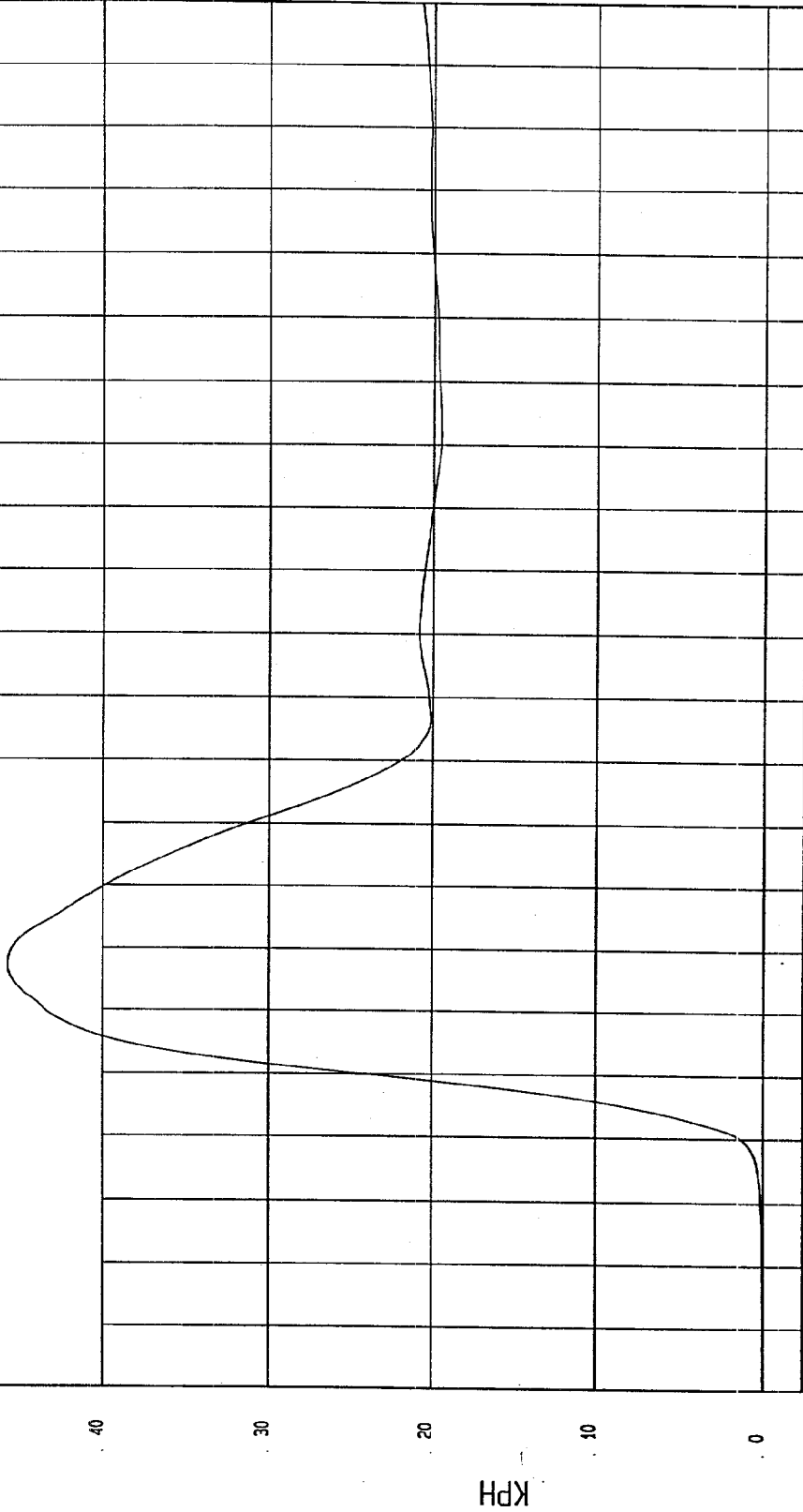
COMPONENT: 2000 FORD TAURUS (MY0211)

Minimum = 0 KPH at -20 msec

Maximum = 45.77 KPH at 47 msec

DRIVER PELVIS Y VELOCITY

1 _____ 80001A1.V18 Filterclass (180)



MGA Research
01-12-2000 13:37

TIME Seconds

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

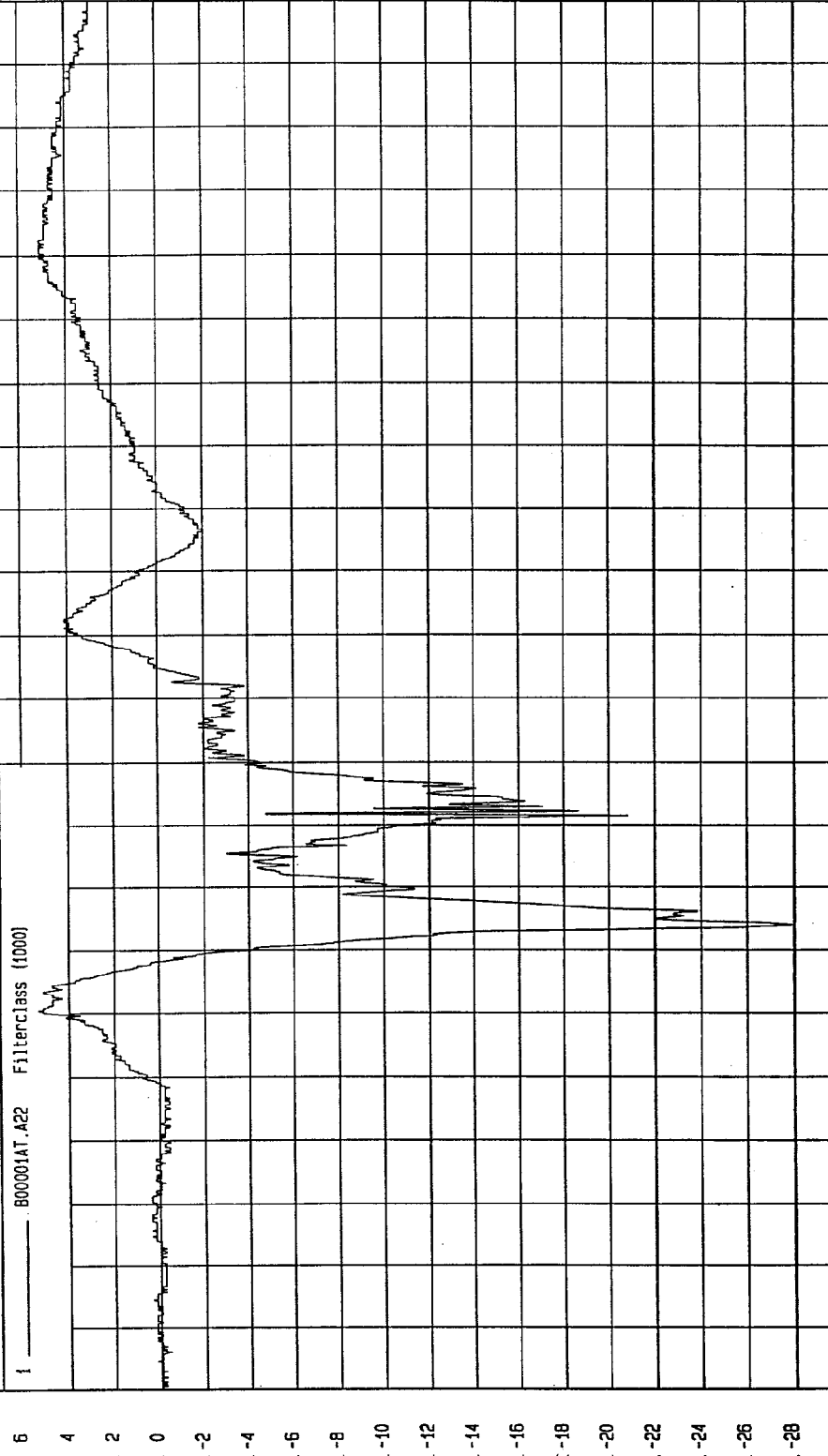
Speed: 38.2 MPH 61.5 KPH

COMPONENT: 2000 FORD TAURUS (MY0211)

Maximum = 5.31 G'S at 40 msec

Minimum = -27.95 G'S at 54 msec

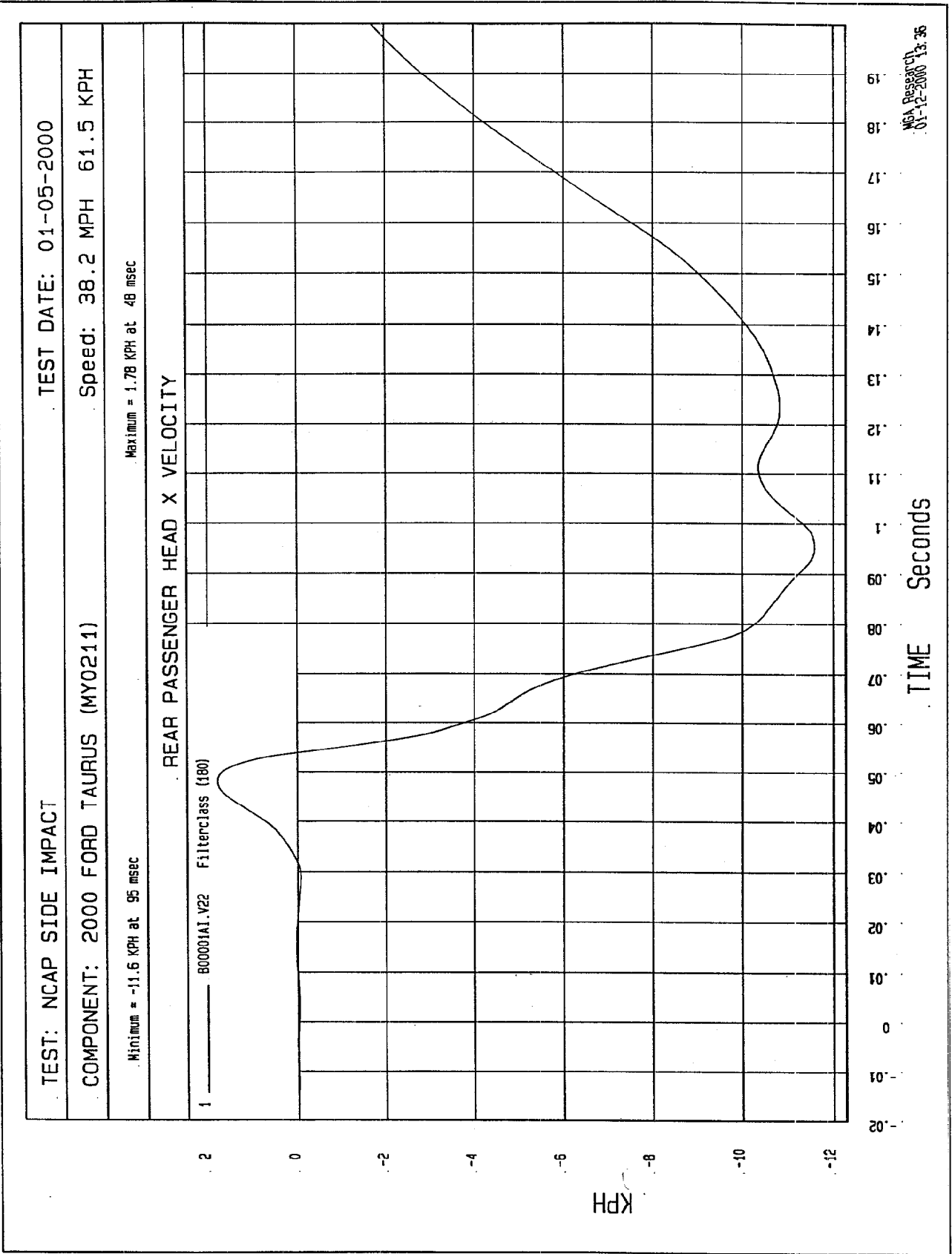
REAR PASSENGER HEAD X ACCELERATION



NSA Research
01-12-2000 13:36

TIME (SECONDS)

S.G



TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

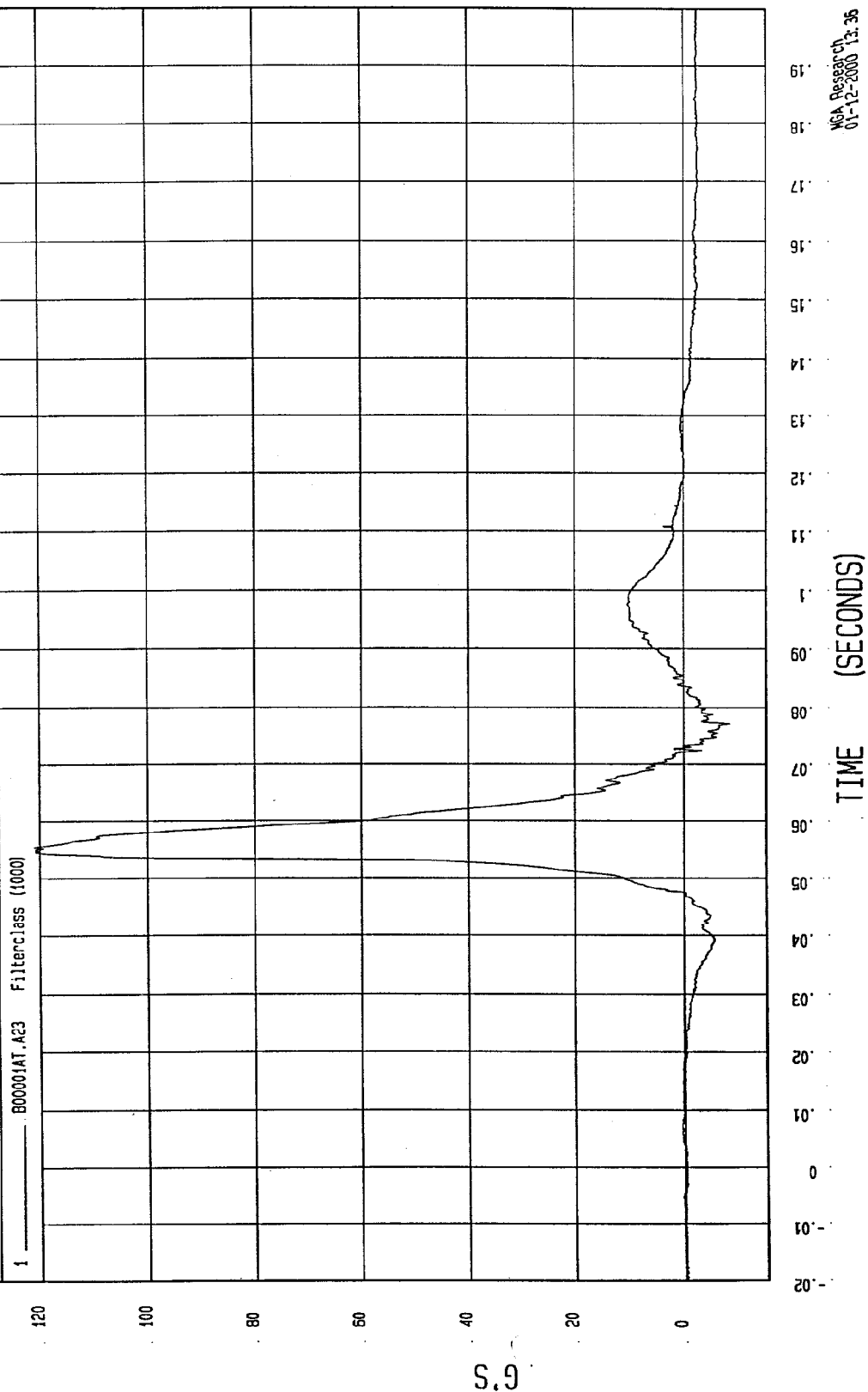
COMPONENT: 2000 FORD TAURUS (MY0211)

Speed: 38.2 MPH 61.5 KPH

Minimum = -8.22 G'S at 77 msec

Maximum = 120.99 G'S at 55 msec

REAR PASSENGER HEAD Y ACCELERATION



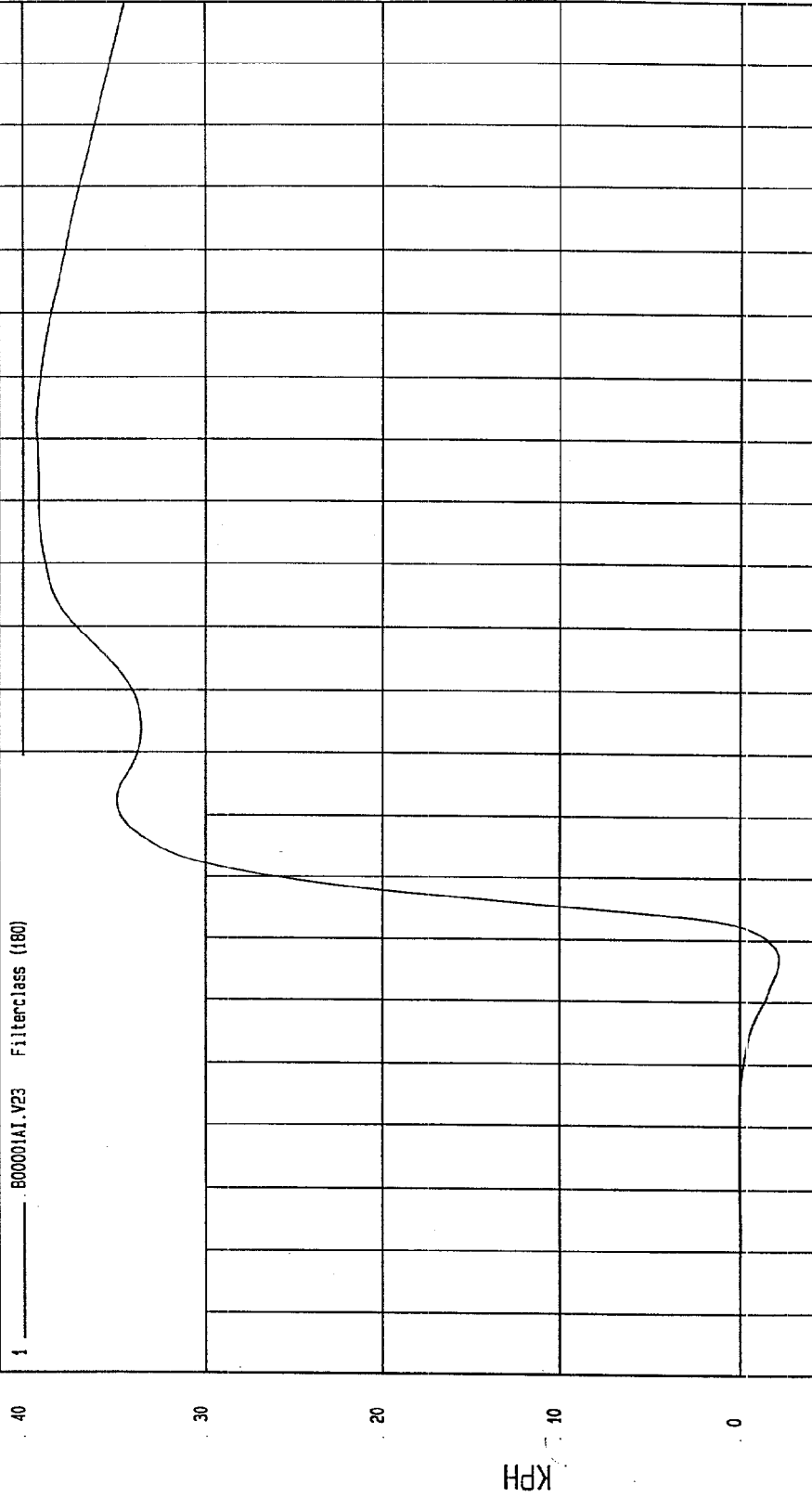
NCAP Research
01-12-2000 13:35

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -2.13 KPH at 47 msec Maximum = 39.27 KPH at 132 msec

REAR PASSENGER HEAD Y VELOCITY



TIME Seconds

0.19 0.18 0.17 0.16 0.15 0.14 0.13 0.12 0.11 0.10 0.09 0.08 0.07 0.06 0.05 0.04 0.03 0.02 0.01 0 -0.01 -0.02

NGA Research
01-12-2000 13:35

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

Speed: 38.2 MPH 61.5 KPH

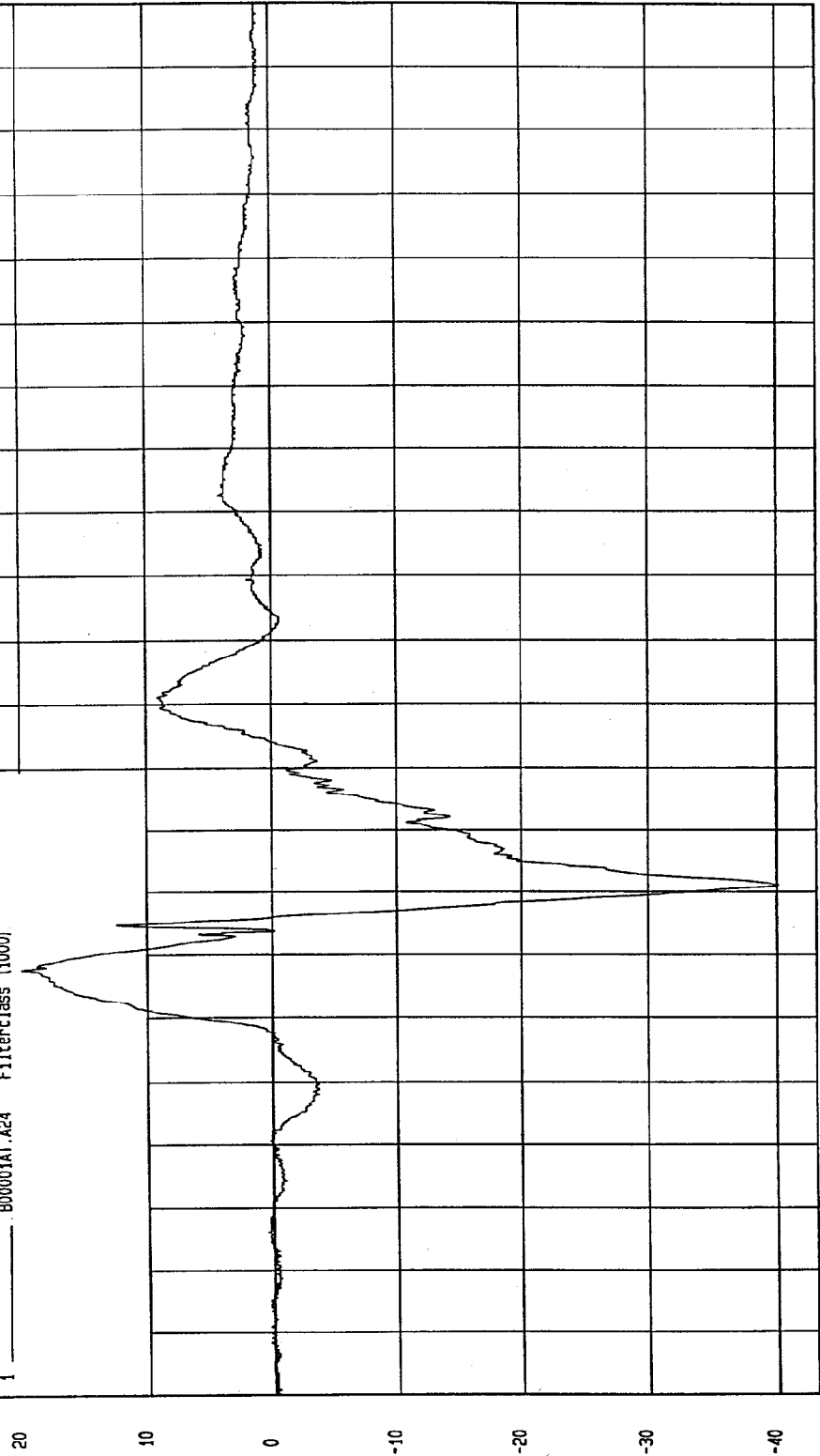
COMPONENT: 2000 FORD TAURUS (MY0211)

Maximum = 19.94 G'S at 48 msec

Minimum = -40.12 G'S at 61 msec

REAR PASSENGER HEAD Z ACCELERATION

1 B00001AT.A24 Filterclass (1000)



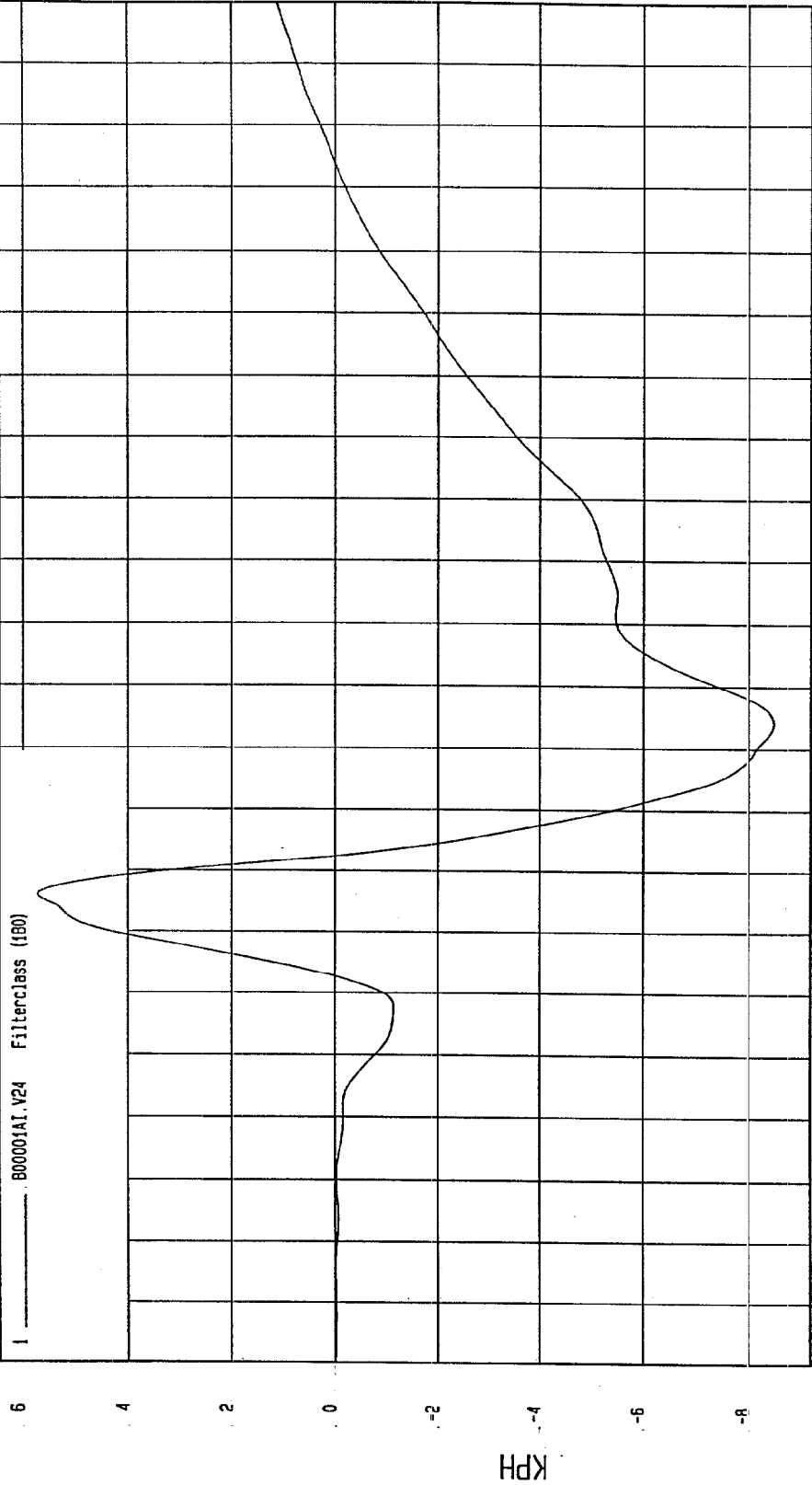
MCA Research
01-12-2000 13:36

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -9.48 KPH at 84 msec Maximum = 5.73 KPH at 56 msec

REAR PASSENGER HEAD Z VELOCITY



TIME Seconds

19
18
17
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15
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13
12
11
10
9
8
7
6
5
4
3
2
1
0
-1
-2
-3
-4
-5
-6
-7
-8

0.00 0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.10 0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19

WCA Research
01-12-2000 13:36

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

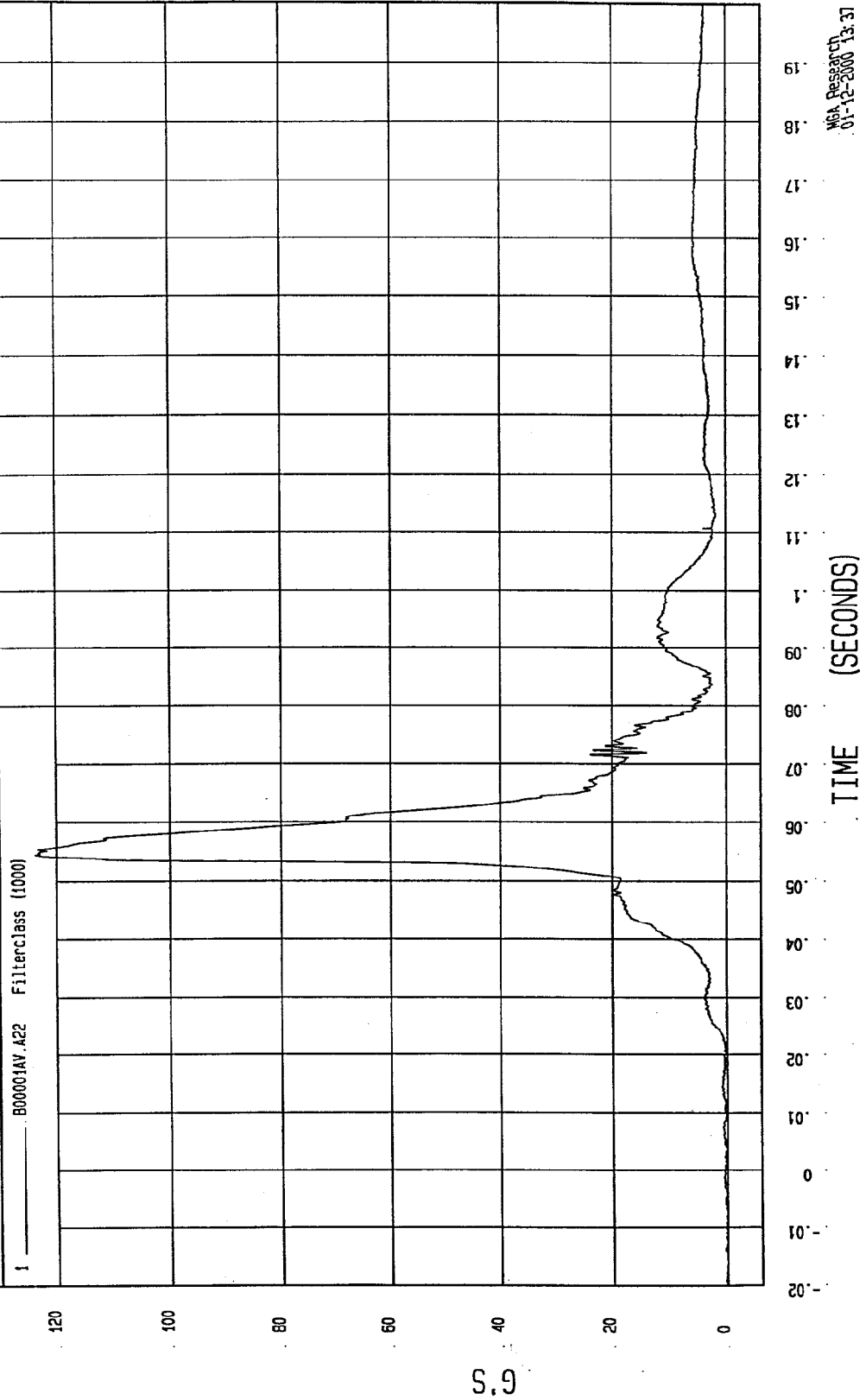
Speed: 38.2 MPH 61.5 KPH

COMPONENT: 2000 FORD TAURUS (MY0211)

Maximum = 123.82 G'S at 54 msec

Minimum = 8.81E-02 G'S at -16 msec

REAR PASSENGER HEAD RESULTANT ACCELERATION



TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

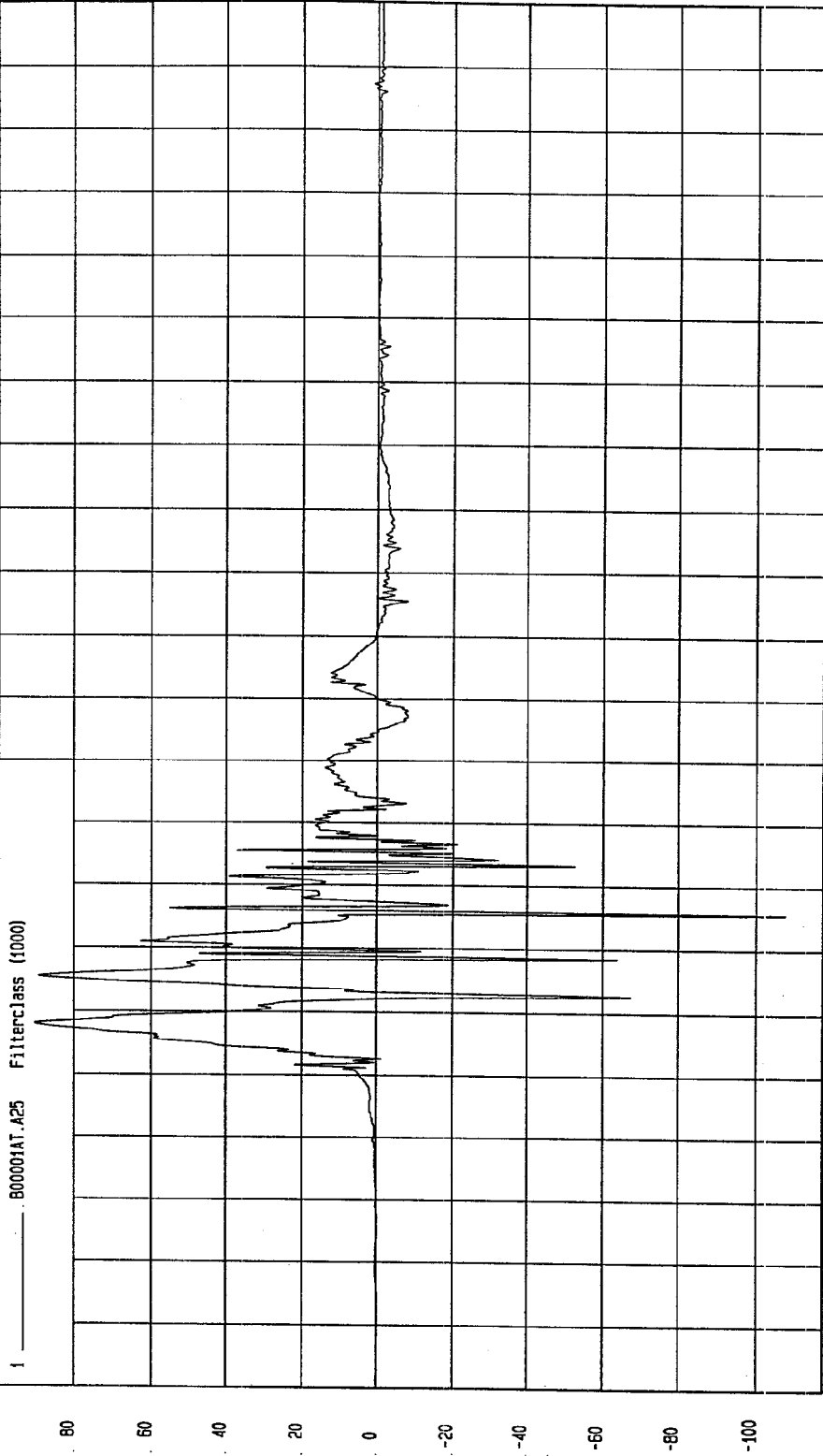
Speed: 38.2 MPH 61.5 KPH

COMPONENT: 2000 FORD TAURUS (MY0211)

Maximum = 90.04 G'S at 38 msec

Minimum = -107.46 G'S at 56 msec

REAR PASSENGER UPPER RIB Y ACCELERATION



NGA Research
01-12-2000 13:37

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

Speed: 38.2 MPH 61.5 KPH

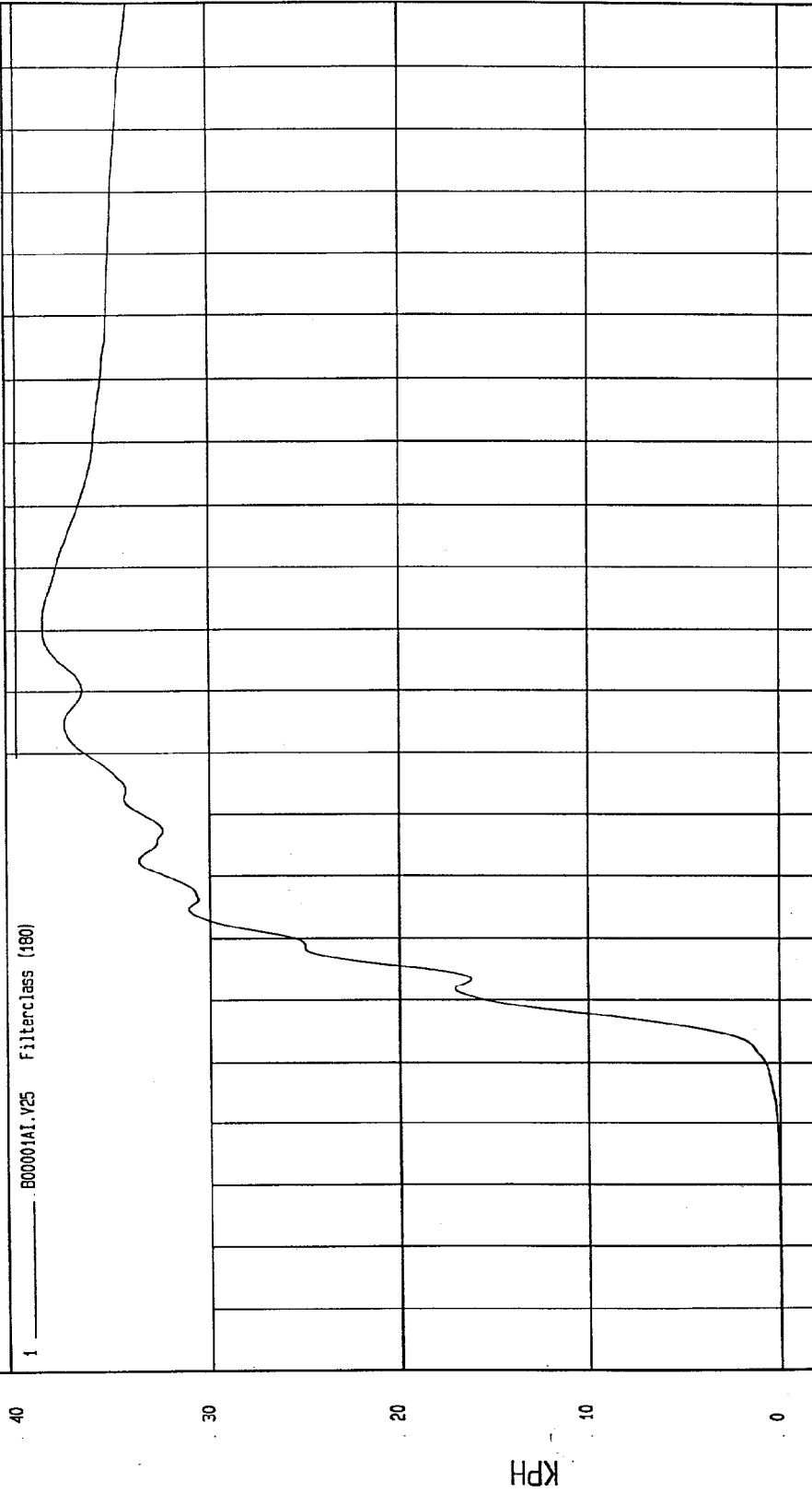
COMPONENT: 2000 FORD TAURUS (MY0211)

Maximum = 38.61 KPH at 101 msec

Minimum = -6.96E-03 KPH at -4 msec

REAR PASSENGER UPPER RIB Y VELOCITY

1 B00001A1.V25 Filterclass (180)



TIME Seconds

0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02

40
30
20
10
0

KPH

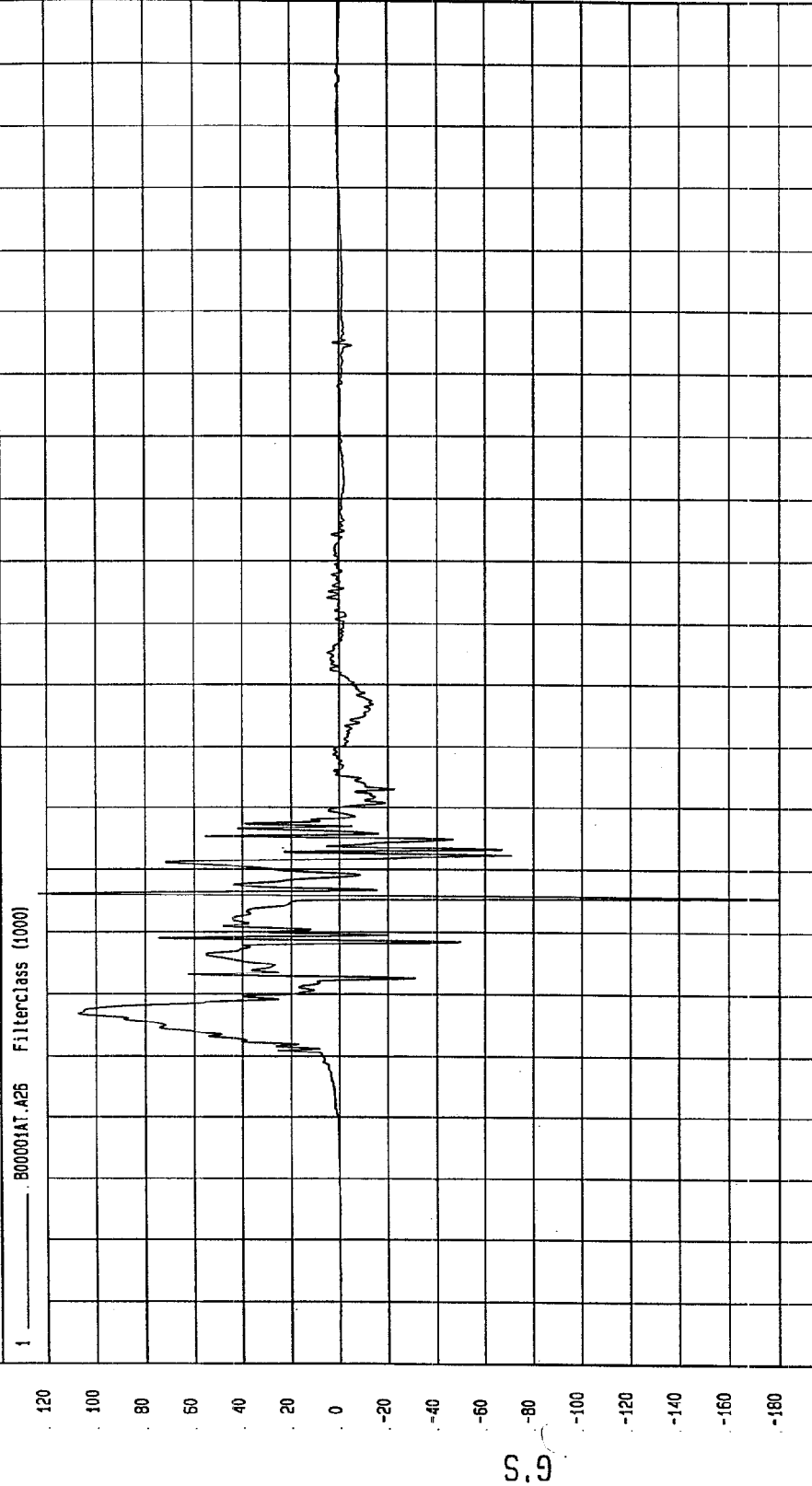
MGA Research
01-12-2000 13:37

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -179.35 G'S at 55 msec Maximum = 123.27 G'S at 56 msec

REAR PASSENGER LOWER RIB Y ACCELERATION



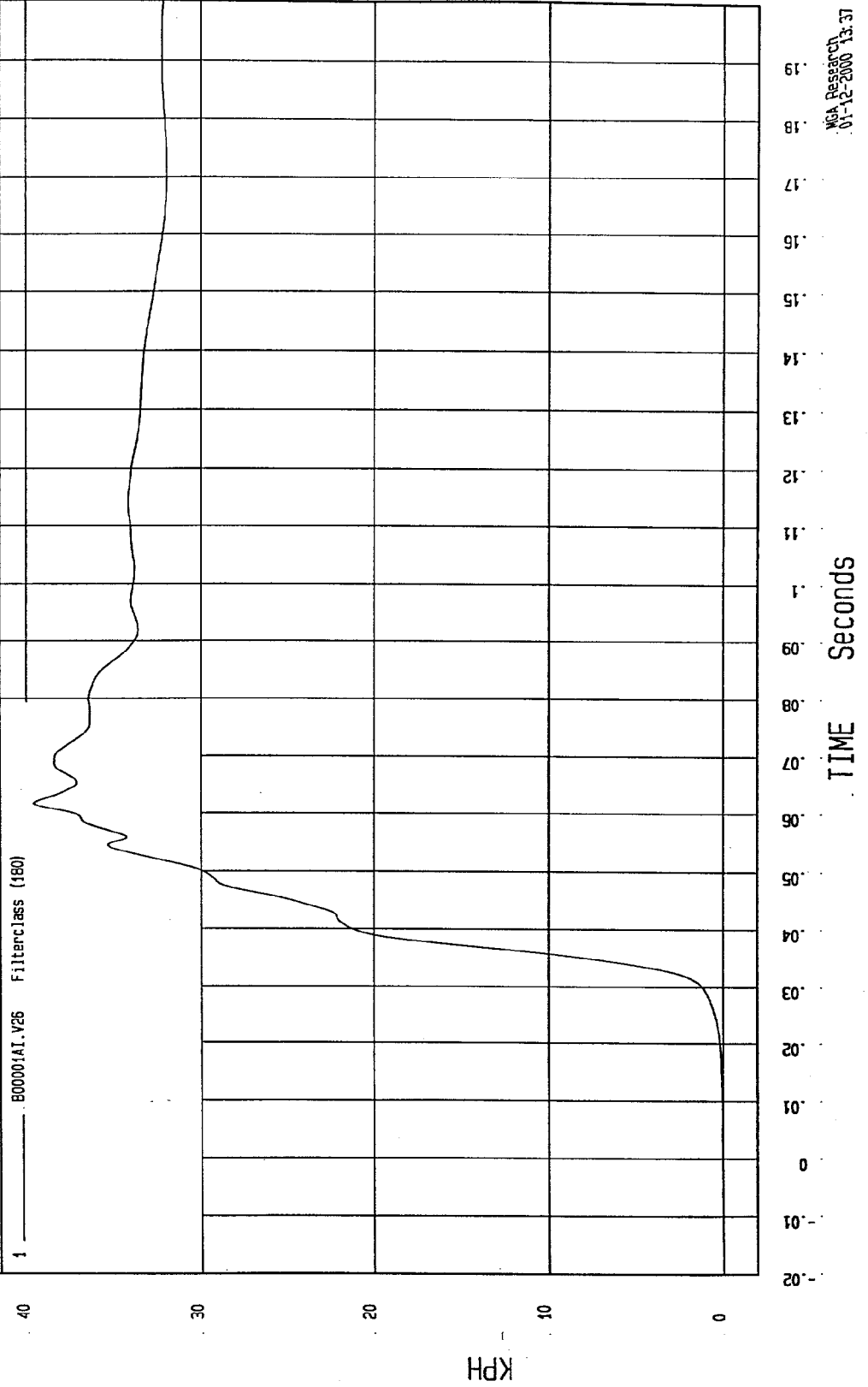
MGA Research
01-12-2000 13:37

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = 0 KPH at -20 msec Maximum = 39.57 KPH at 62 msec

REAR PASSENGER LOWER RIB Y VELOCITY



TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

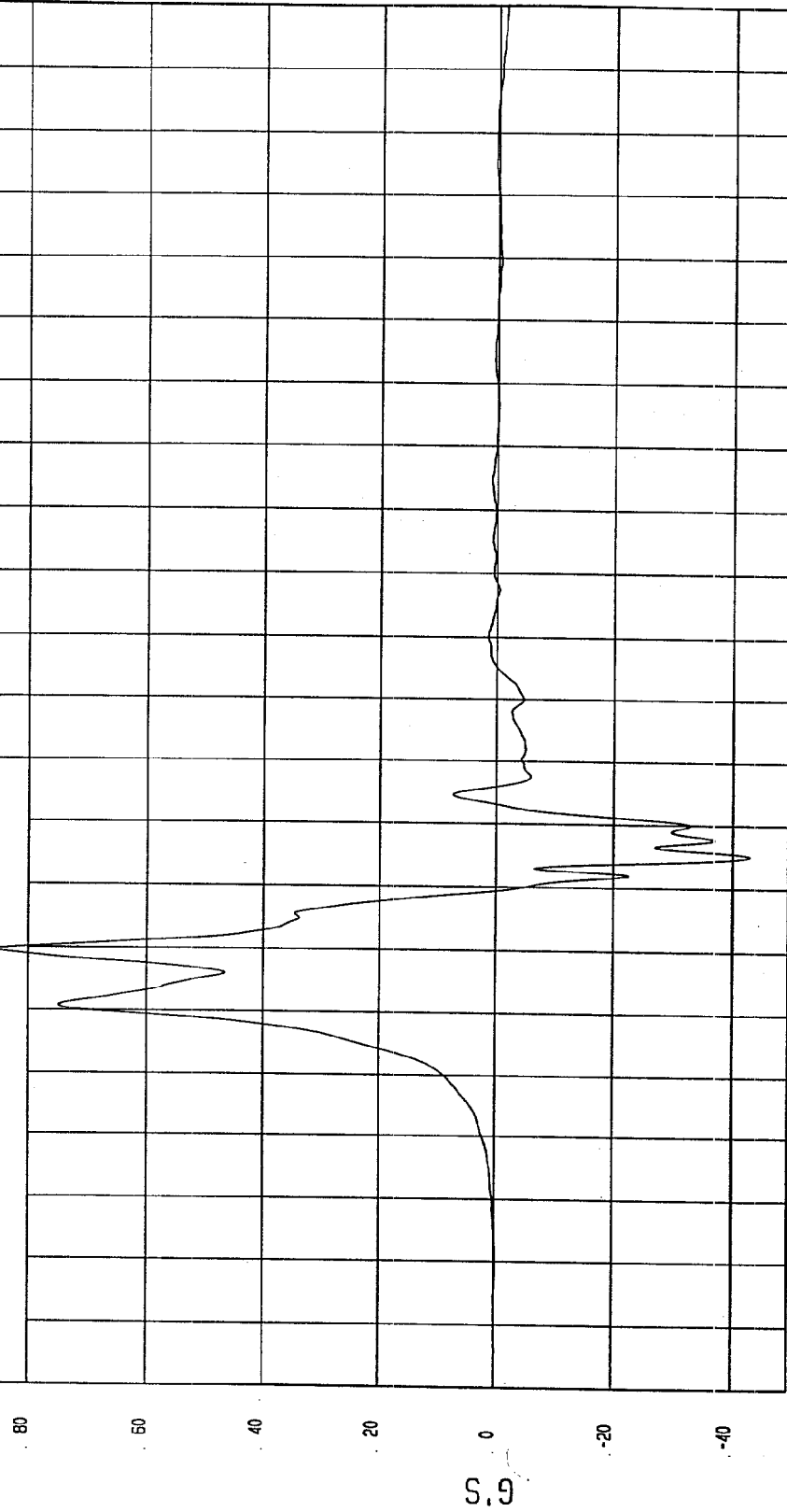
Speed: 38.2 MPH 61.5 KPH

Minimum = -42.88 G'S at 65 msec

Maximum = 85.5 G'S at 50 msec

REAR PASSENGER LOWER SPINE Y ACCELERATION

1 B00001AF A27 Filterclass (180)



MGA Research
01-12-2000 13:37

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

Speed: 38.2 MPH 61.5 KPH

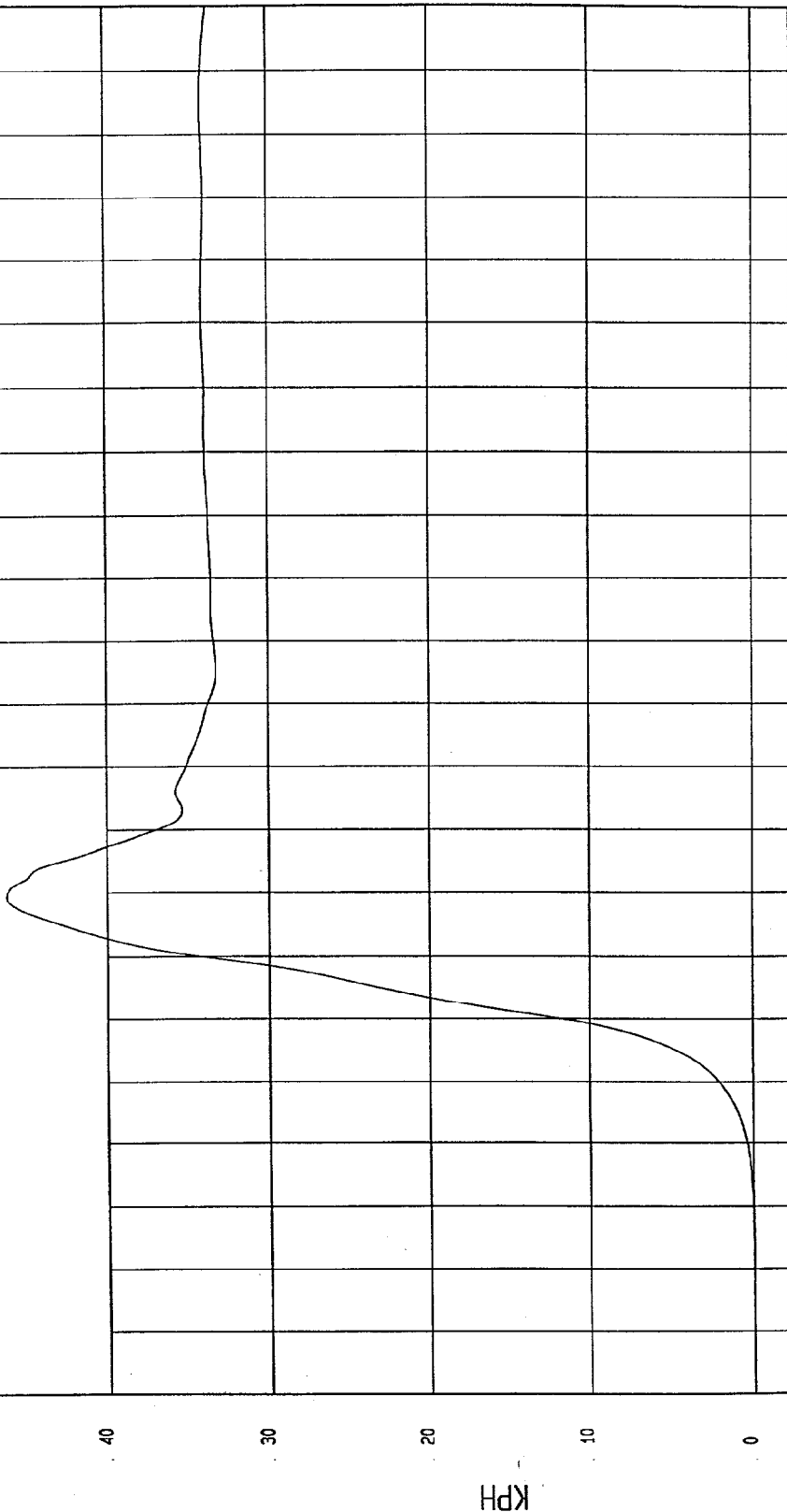
COMPONENT: 2000 FORD TAURUS (MY0211)

Maximum = 45.14 KPH at 59 msec

Minimum = -.03 KPH at 3 msec

REAR PASSENGER LOWER SPINE Y VELOCITY

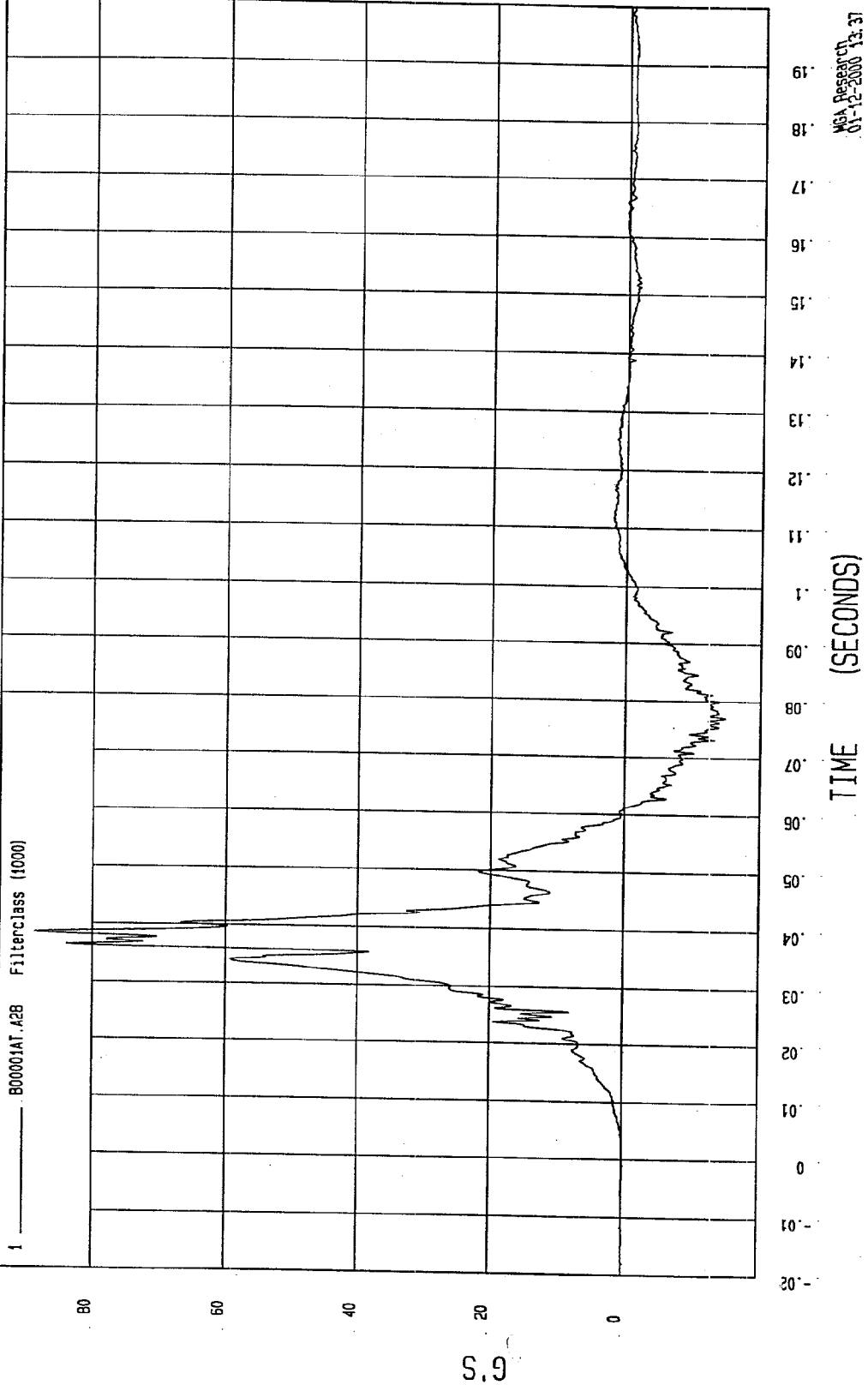
1 B00001A1.V27 Filterclass (180)



NGA Research
01-12-2000 13:37

TEST: NCAP SIDE IMPACT
 TEST DATE: 01-05-2000
 COMPONENT: 2000 FORD TAURUS (MY0211)
 Speed: 38.2 MPH 61.5 KPH
 Minimum = -14.66 G'S at 77 msec
 Maximum = 88.56 G'S at 38 msec

REAR PASSENGER PELVIS Y ACCELERATION



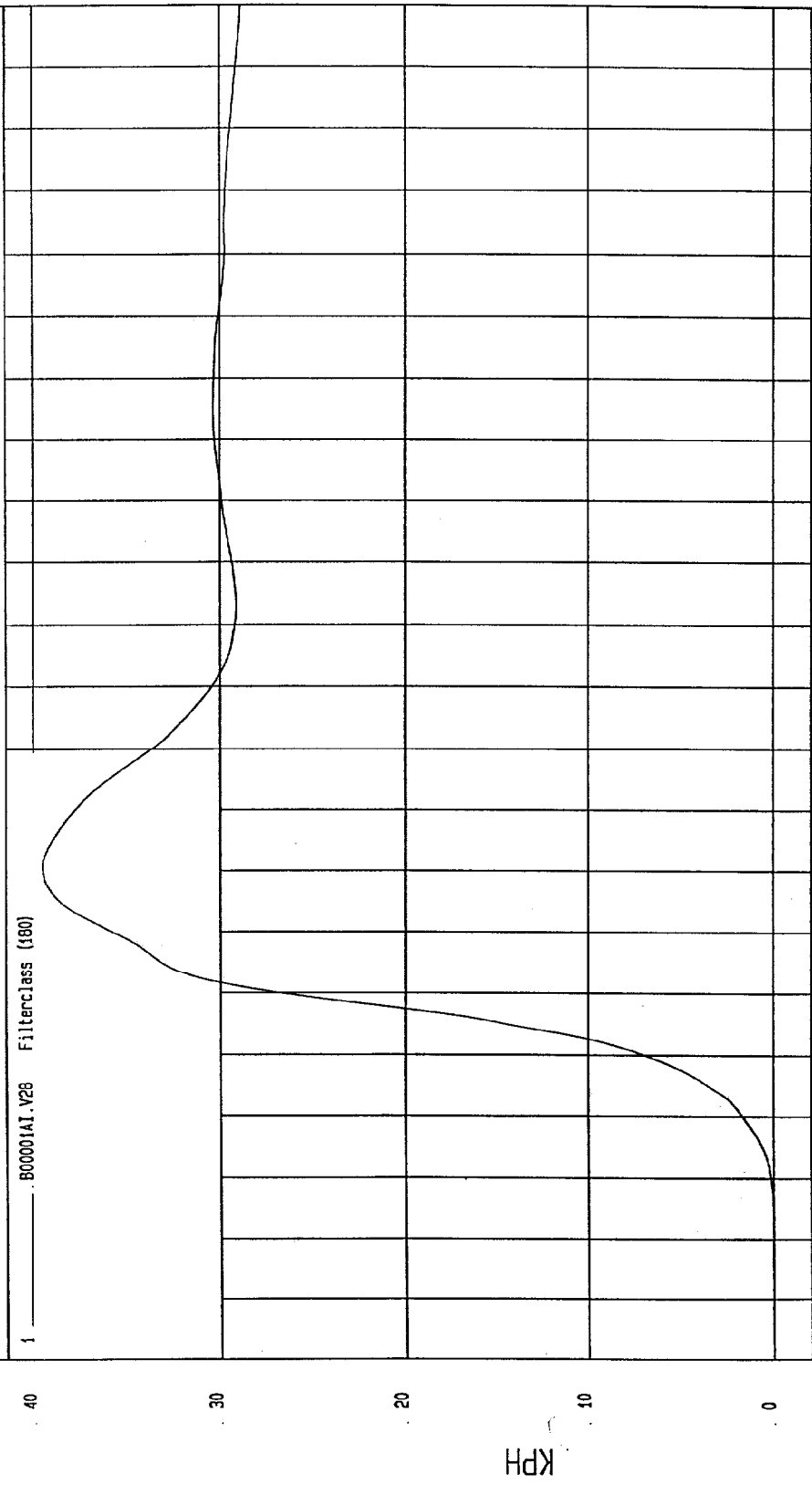
WCA Research
 01-12-2000 13:37

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -2.44E-03 KPH at -12 msec Maximum = 39.49 KPH at 61 msec

REAR PASSENGER PELVIS Y VELOCITY

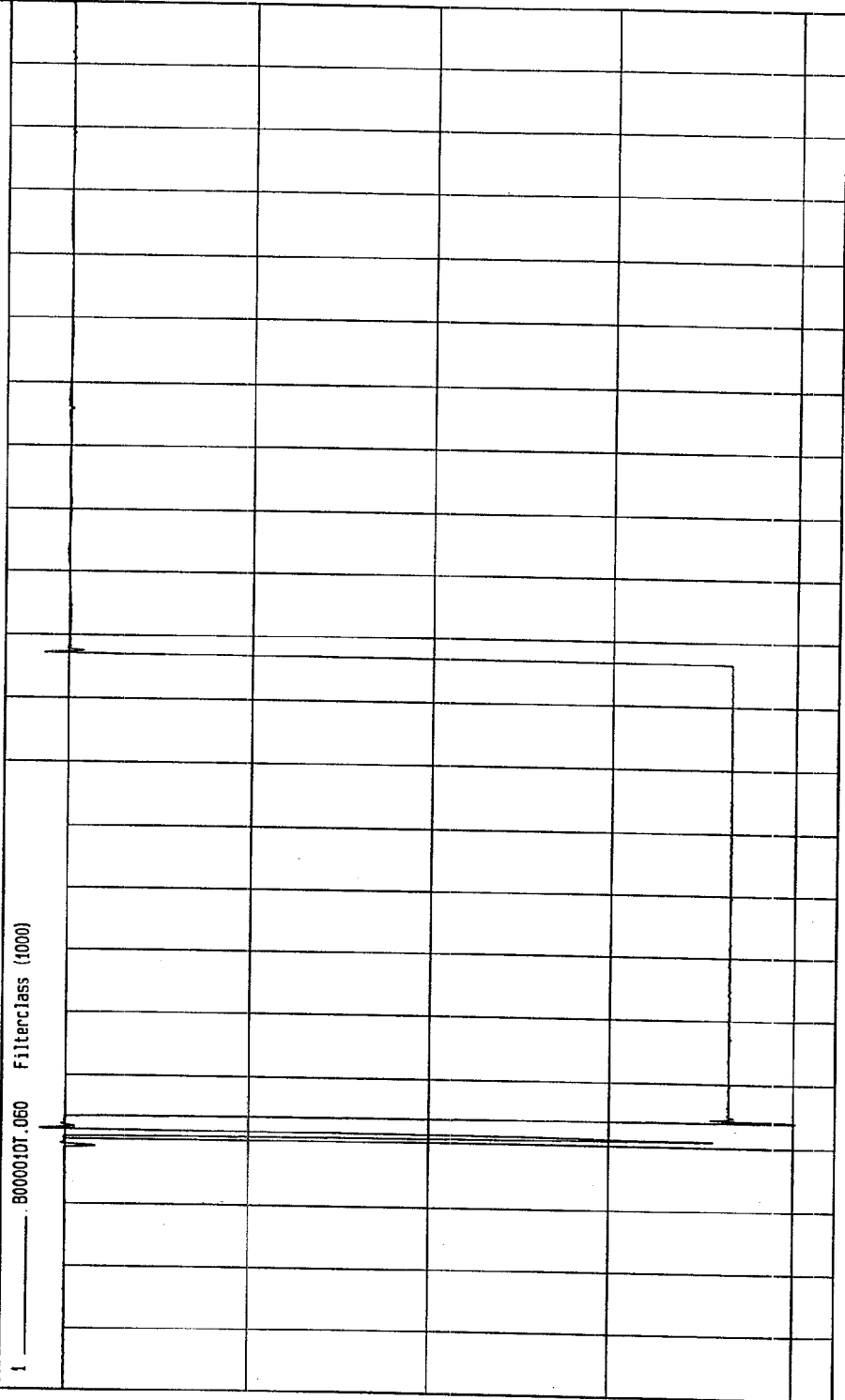


TIME Seconds

WCA Research
01-12-2000 13:37

TEST: NCAP SIDE IMPACT
TEST DATE: 01-05-2000
COMPONENT: 2000 FORD TAURUS (MY0211)
Speed: 38.2 MPH 61.5 KPH
Minimum = -4.01 VOLTS at 24 msec
Maximum = .14 VOLTS at 22 msec

REAR PASSENGER SHOULDER CONTACT



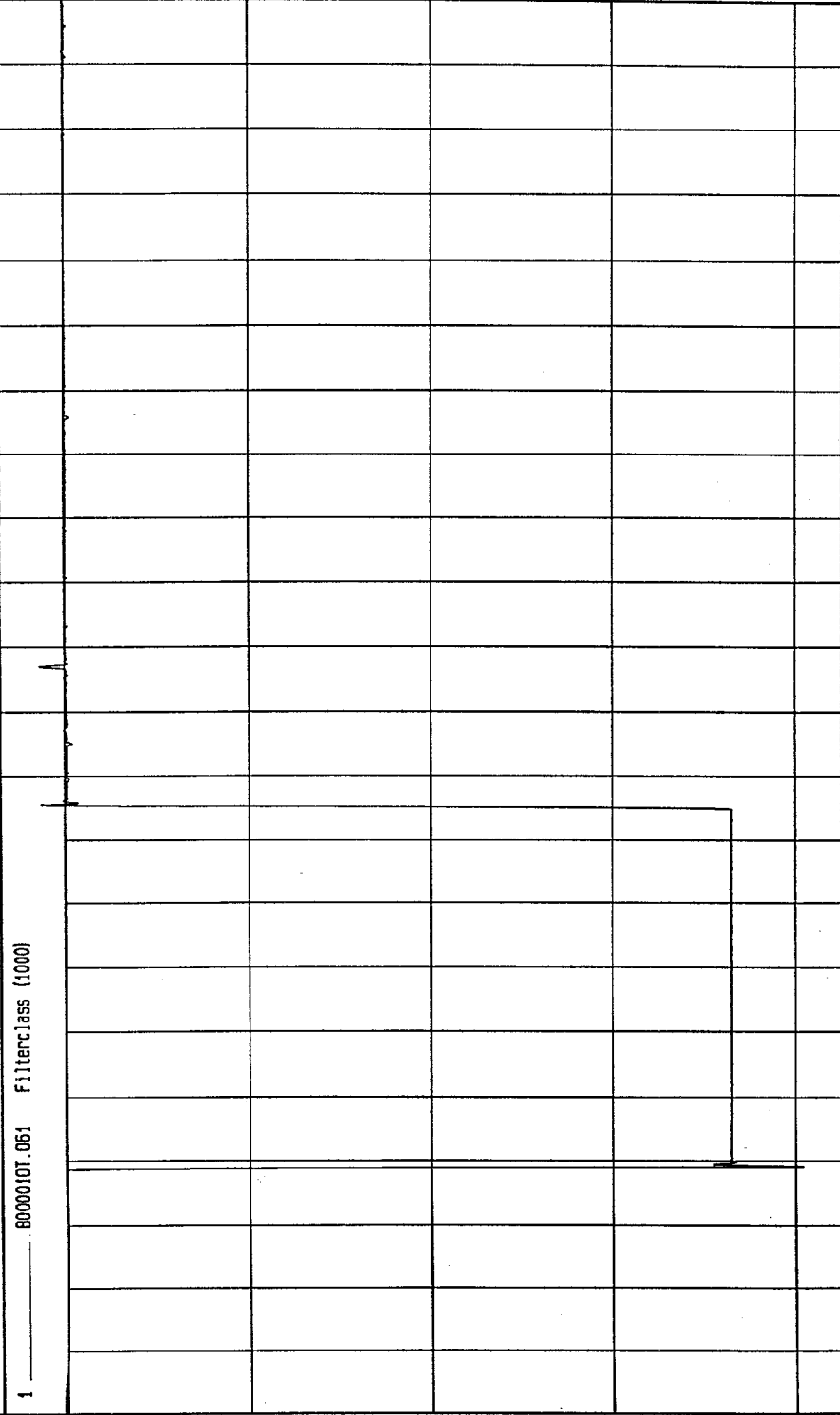
NCA Research
01-12-2000 14:22

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -4.04 VOLTS at 19 msec Maximum = .13 VOLTS at 97 msec

REAR PASSENGER PELVIS CONTACT

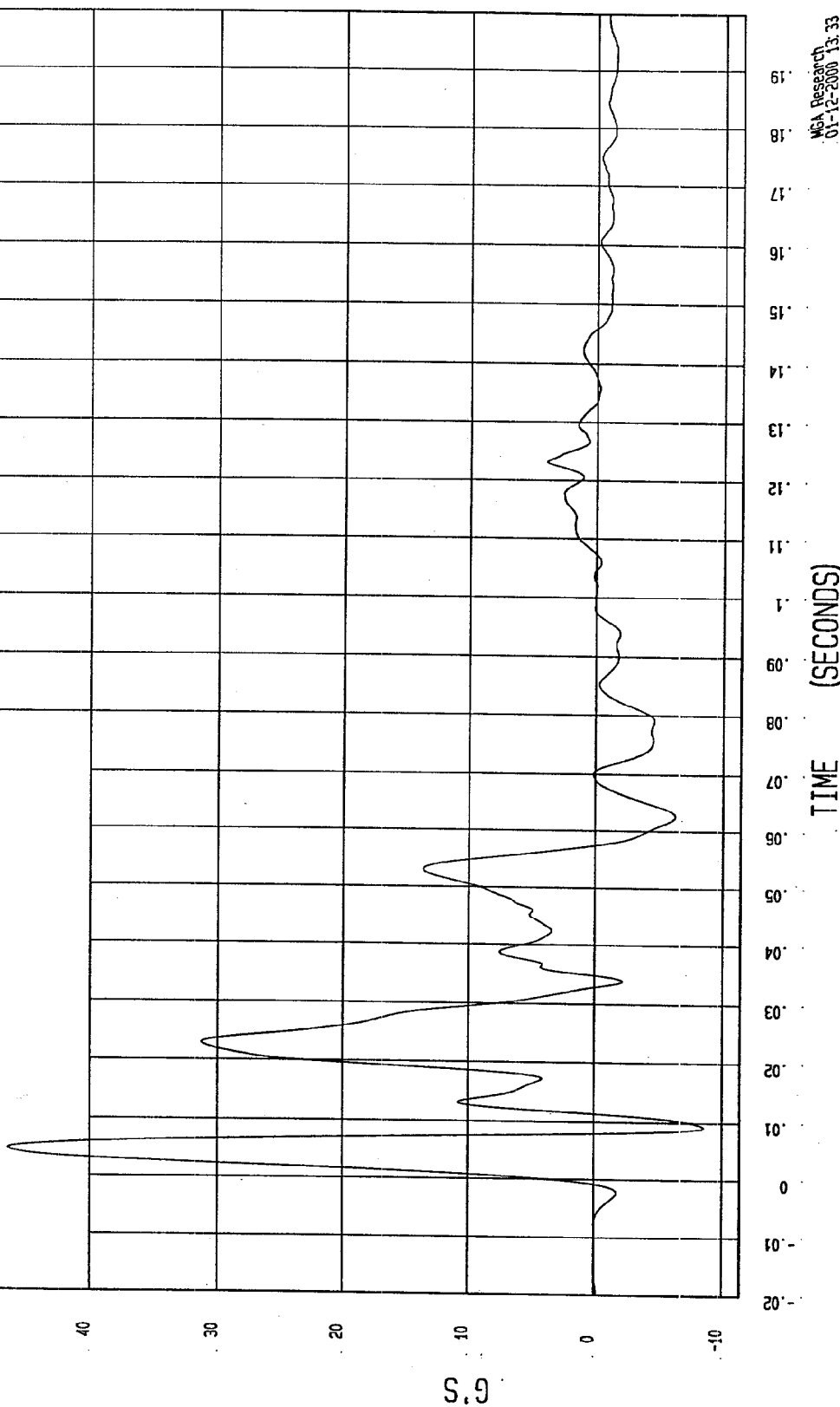


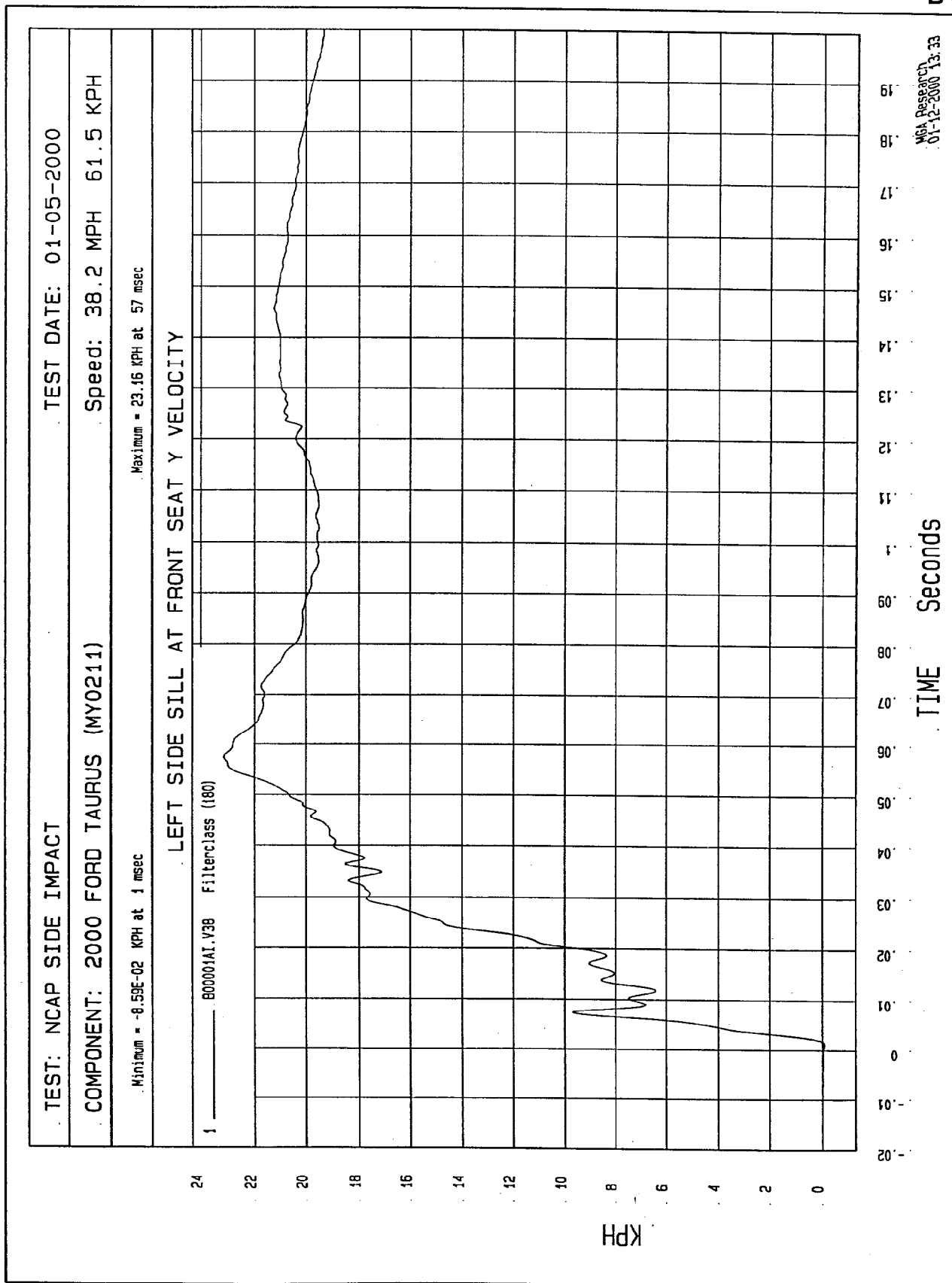
WCA Research
01-12-2000 14:22

TEST: NCAP SIDE IMPACT
TEST DATE: 01-05-2000
COMPONENT: 2000 FORD TAURUS (MY0211)
Speed: 38.2 MPH 61.5 KPH
Minimum = -0.59 G'S at 9 msec
Maximum = 46.39 G'S at 5 msec

LEFT SIDE SILL AT FRONT SEAT Y ACCELERATION

1 800001AF.A38 Filterclass (60)

MCA Research
01-12-2000 13:33

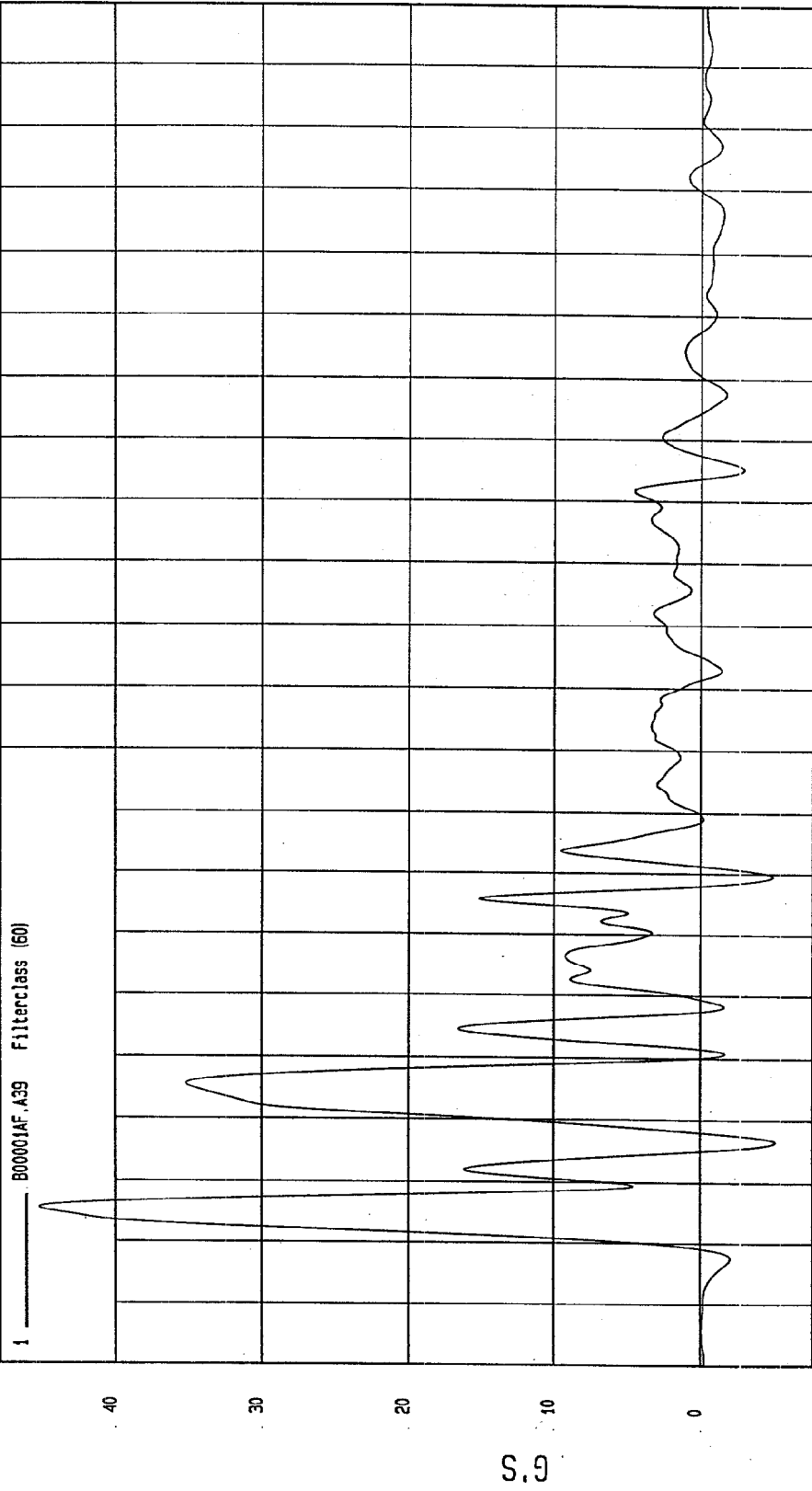


TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -4.99 G'S at 16 msec Maximum = 45.21 G'S at 5 msec

LEFT SIDE SILL AT REAR SEAT Y ACCELERATION



NSA Research
01-12-2000 13:34

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

Speed: 38.2 MPH 61.5 KPH

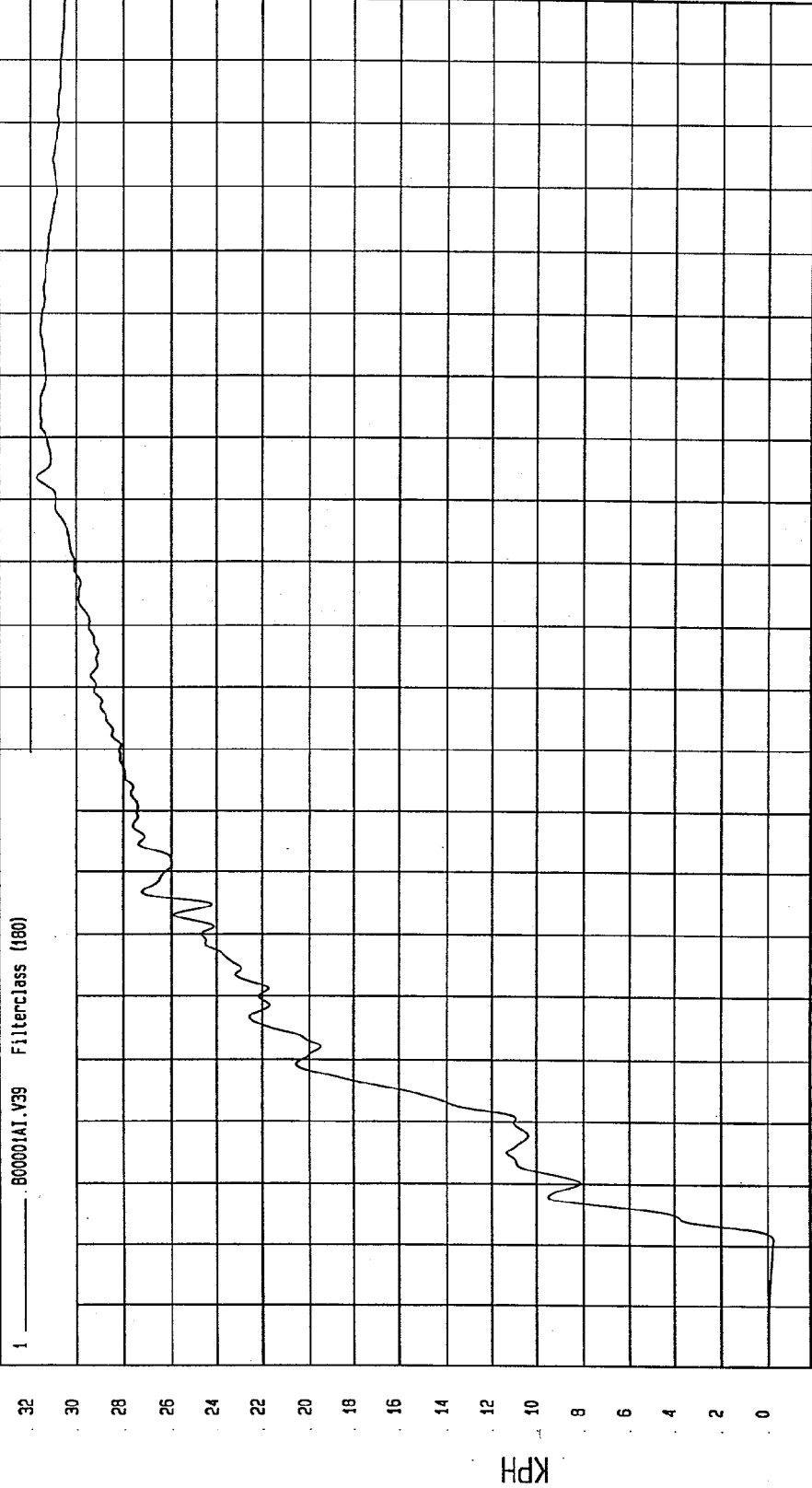
COMPONENT: 2000 FORD TAURUS (MY0211)

Minimum = -24 KPH at 1 msec

Maximum = 31.73 KPH at 124 msec

LEFT SIDE SILL AT REAR SEAT Y VELOCITY

1 ——— BC0001A1.V39 Filterclass (180)



WCA Research
01-12-2000 13:34

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

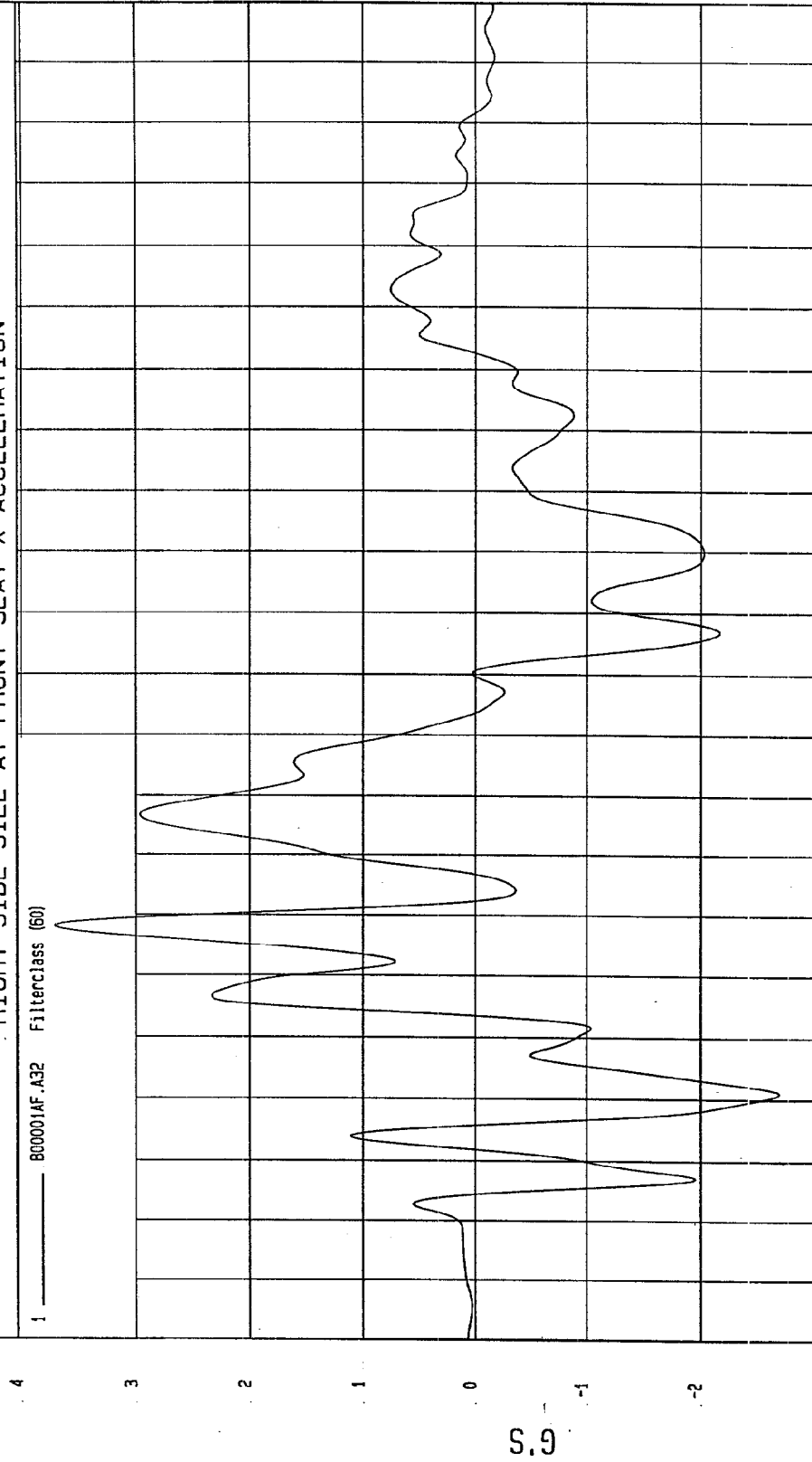
Speed: 38.2 MPH 61.5 KPH

Minimum = -2.67 G'S at 21 msec

Maximum = 3.71 G'S at 48 msec

RIGHT SIDE SILL AT FRONT SEAT X ACCELERATION

1 — 80001AF.A32 Filterclass (60)



19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 -1 -2

TIME (SECONDS)

0.19 0.18 0.17 0.16 0.15 0.14 0.13 0.12 0.11 0.10 0.09 0.08 0.07 0.06 0.05 0.04 0.03 0.02 0.01 0 -0.01 -0.02

MCA Research
01-12-2000 13:34

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

Speed: 38.2 MPH 61.5 KPH

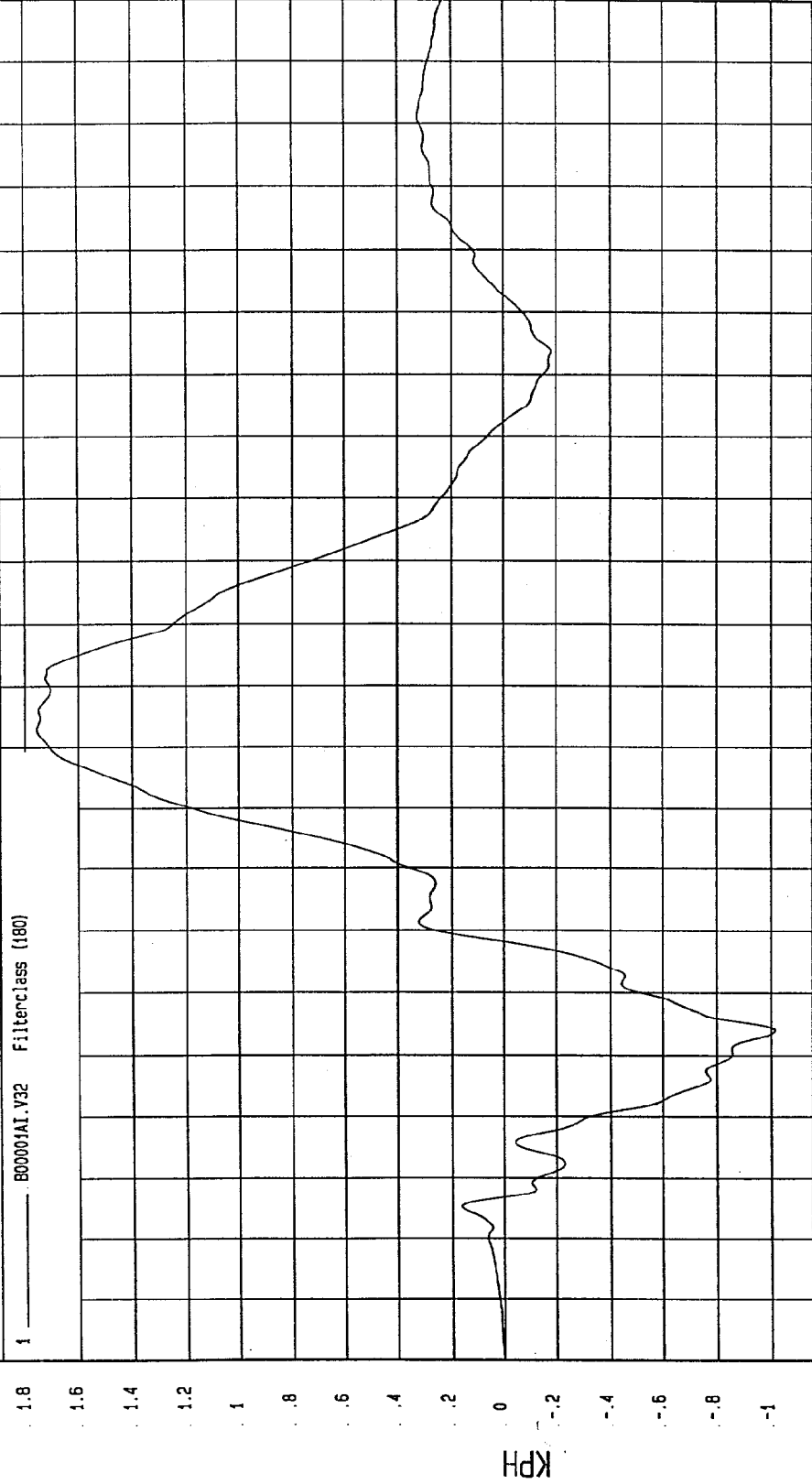
COMPONENT: 2000 FORD TAURUS (MY0211)

Maximum = 1.76 KPH at 83 msec

Minimum = -1.01 KPH at 34 msec

RIGHT SIDE SILL AT FRONT SEAT X VELOCITY

1 ——— B000041.V32 Filterclass (180)



WCA Research
01-12-2000 13:34

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

Speed: 38.2 MPH 61.5 KPH

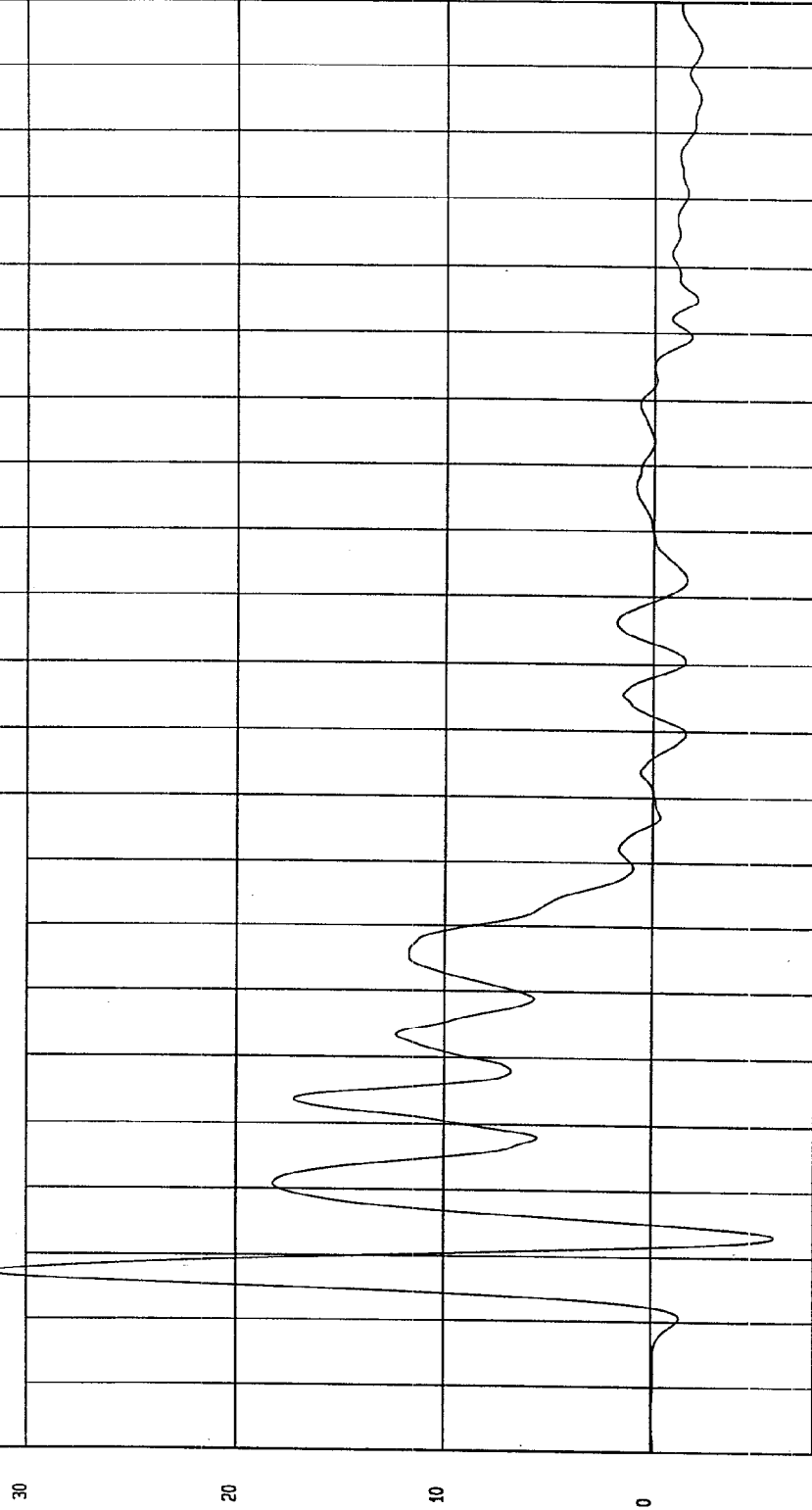
COMPONENT: 2000 FORD TAURUS (MY0211)

Minimum = -5.75 G'S at 13 msec

Maximum = 31.97 G'S at 7 msec

RIGHT SIDE SILL AT FRONT SEAT Y ACCELERATION

1 80000/AF.A33 Filterclass (60)



TIME (SECONDS)

MGA Research
01-12-2000 13:34

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

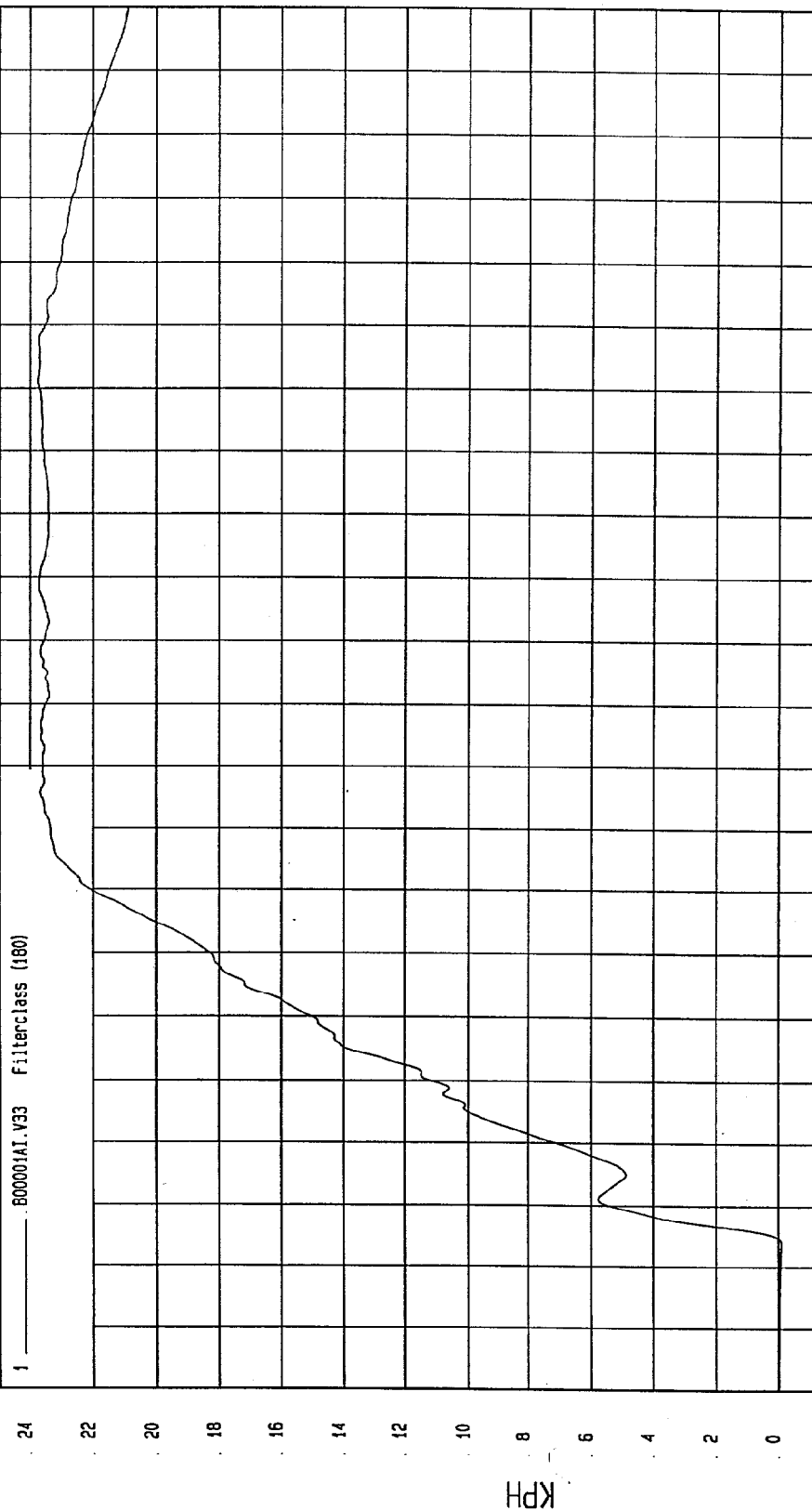
Speed: 38.2 MPH 61.5 KPH

Minimum = -9.09E-02 KPH at 4 msec

Maximum = 23.75 KPH at 141 msec

RIGHT SIDE SILL AT FRONT SEAT Y VELOCITY

1 ——— B00001A1.V33 Filterclass (180)

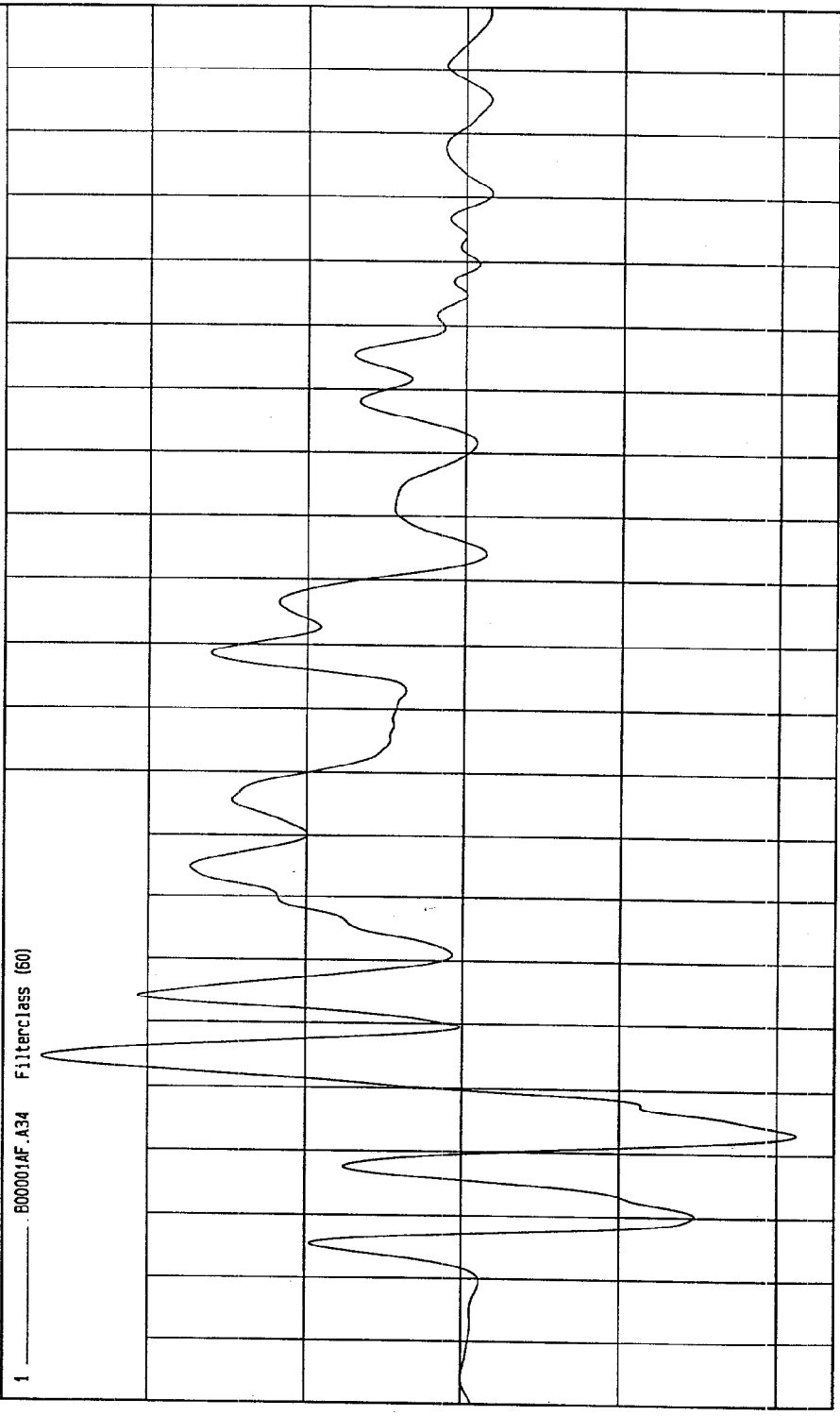
MGA Research
01-12-2000 13:34

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -4.25 G'S at 23 msec Maximum = 5.33 G'S at 34 msec

RIGHT SIDE SILL AT FRONT SEAT Z ACCELERATION



TIME (SECONDS)

19
18
17
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03
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01
0
-01
-02

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

Speed: 38.2 MPH 61.5 KPH

Minimum = -1.41 KPH at 29 msec

Maximum = 5.4 KPH at 158 msec

RIGHT SIDE SILL AT FRONT SEAT Z VELOCITY

1 800001A1.V34 Filterclass (180)



NGA Research
01-12-2000 13:34

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

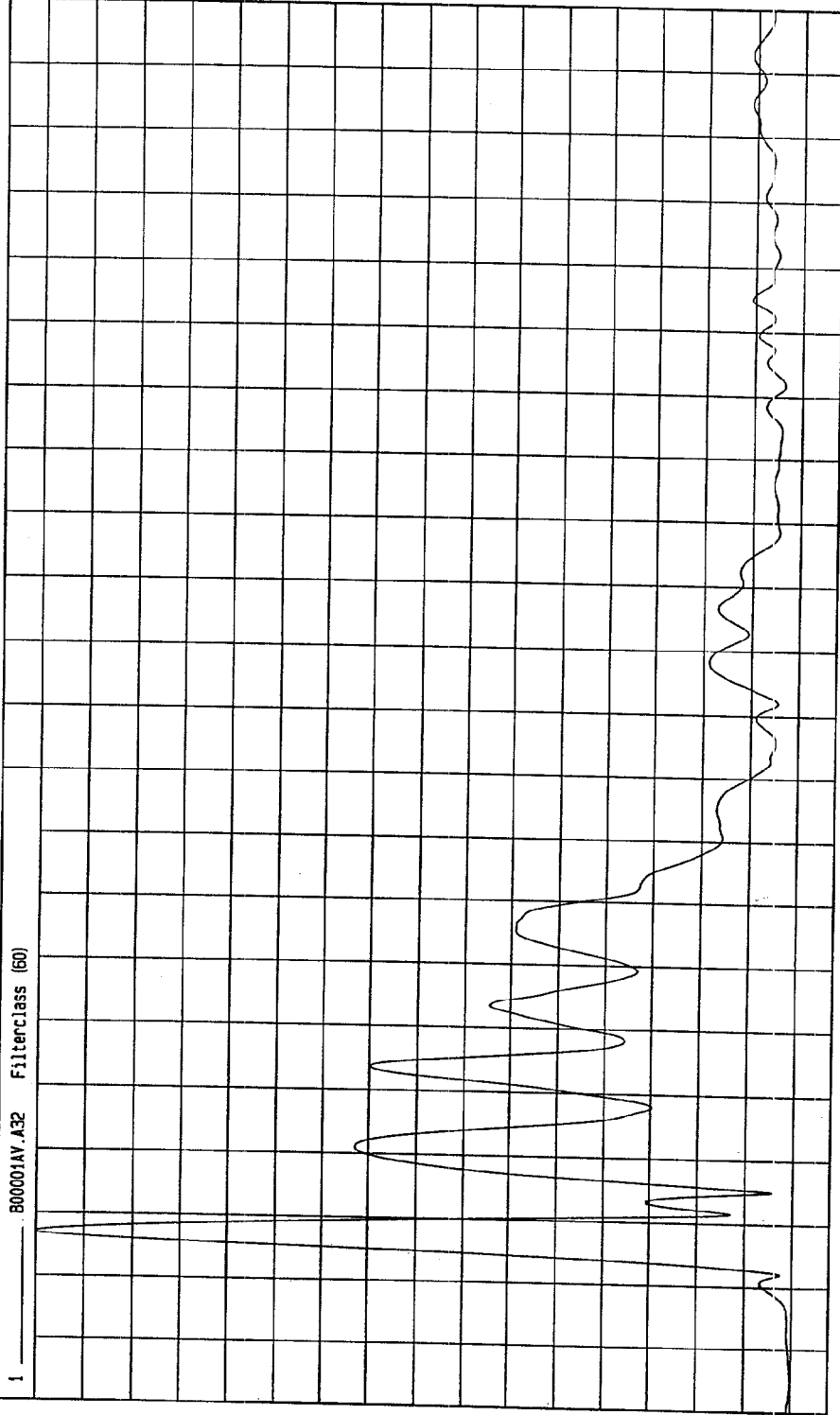
Speed: 38.2 MPH 61.5 KPH

Minimum = 4.27E-02 G'S at -15 msec

Maximum = 32.03 G'S at 7 msec

RIGHT SIDE SILL AT FRONT SEAT RESULTANT ACCELERATION

1 800001AV A32 Filterclass (60)



MCA Research
01-12-2000 13:34

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

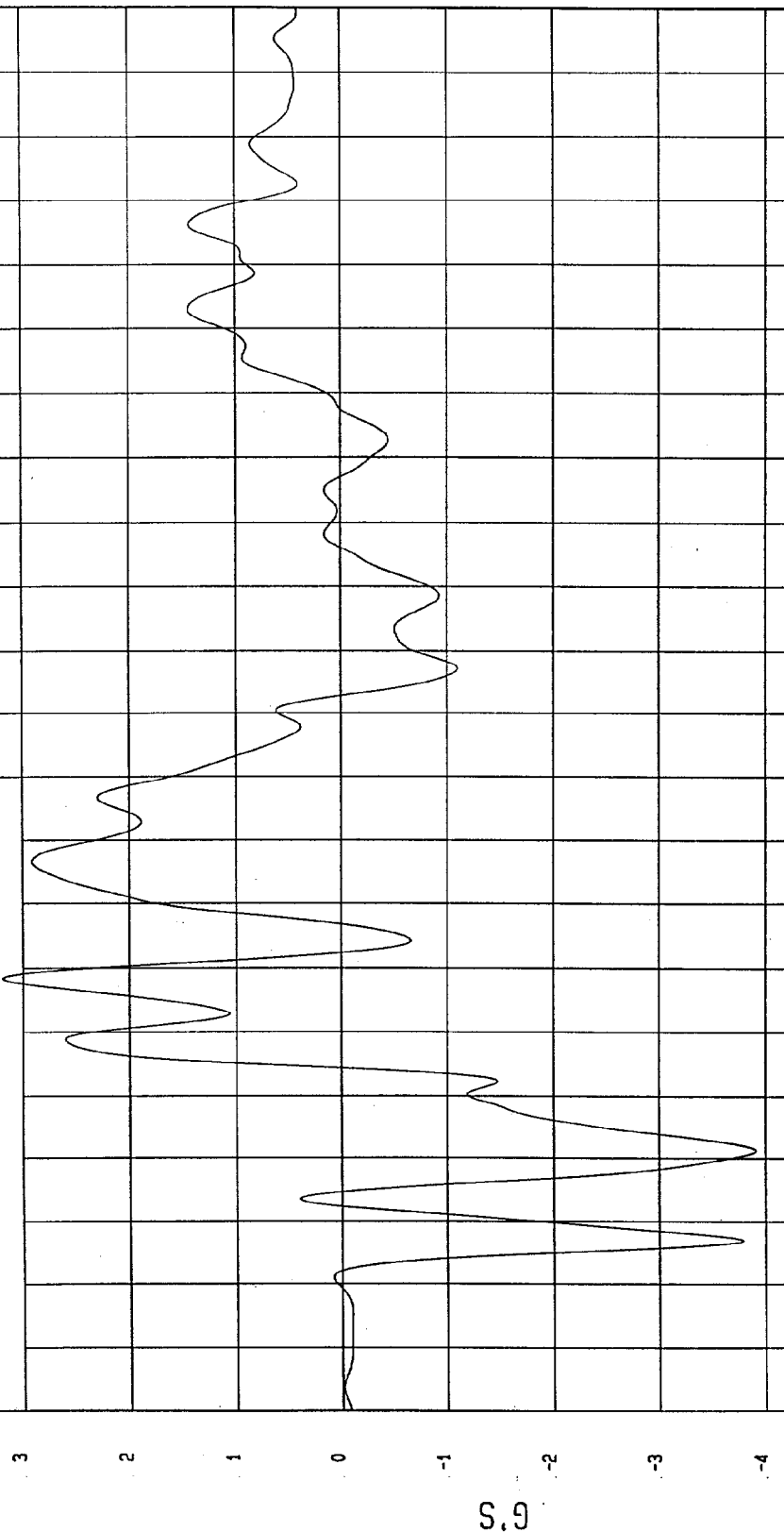
Speed: 38.2 MPH 61.5 KPH

Minimum = -3.91 G'S at 21 msec

Maximum = 3.19 G'S at 48 msec

RIGHT SIDE SILL AT REAR SEAT X ACCELERATION

1 B00001AF.A35 Filterclass (60)



MGA Research
01-12-2000 13:34

TIME (SECONDS)

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

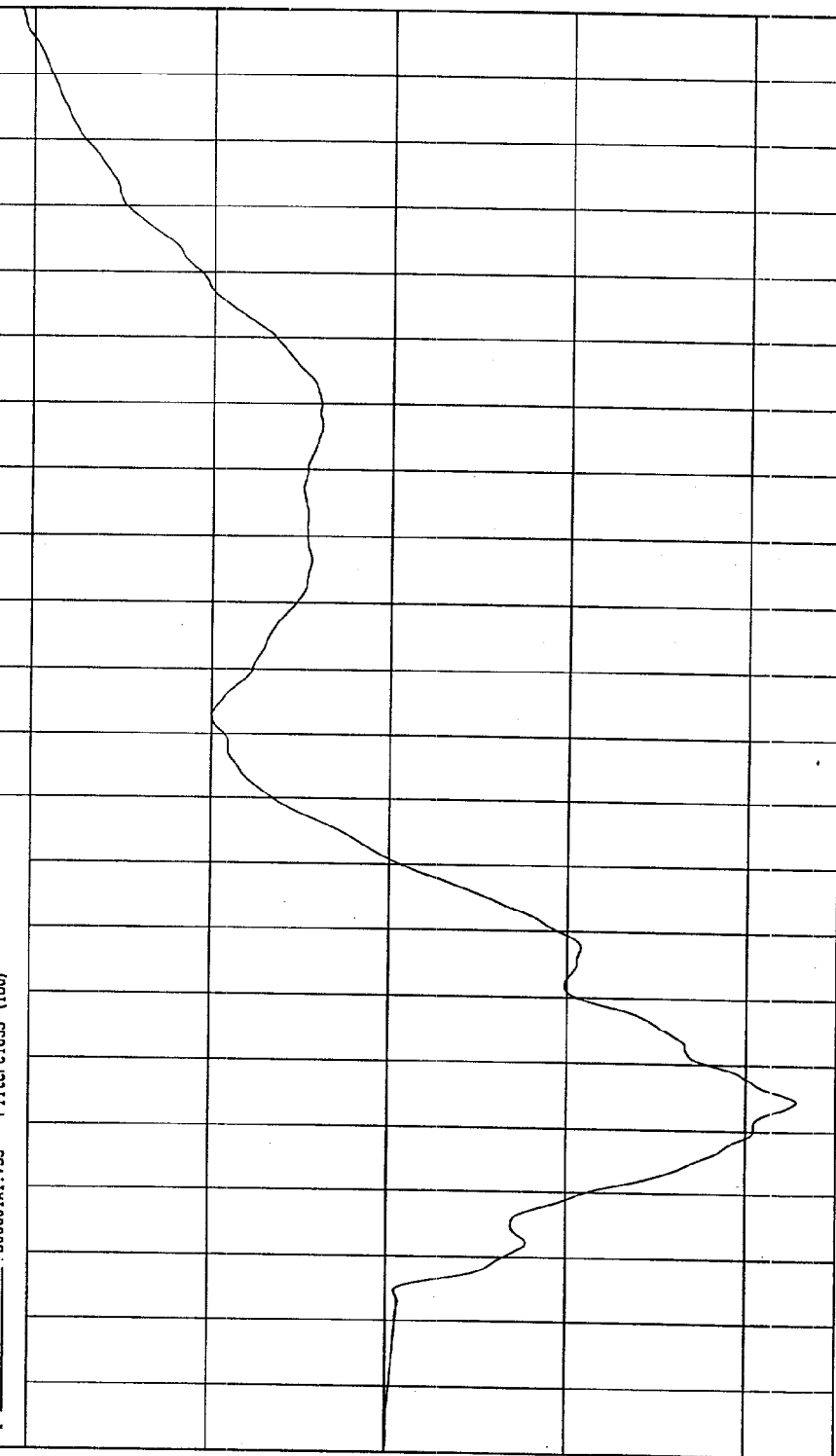
Speed: 38.2 MPH 61.5 KPH

Minimum = -2.28 KPH at 34 msec

Maximum = 2.06 KPH at 200 msec

RIGHT SIDE SILL AT REAR SEAT X VELOCITY

1 _____ BC0001A1.V35 Filterclass (180)



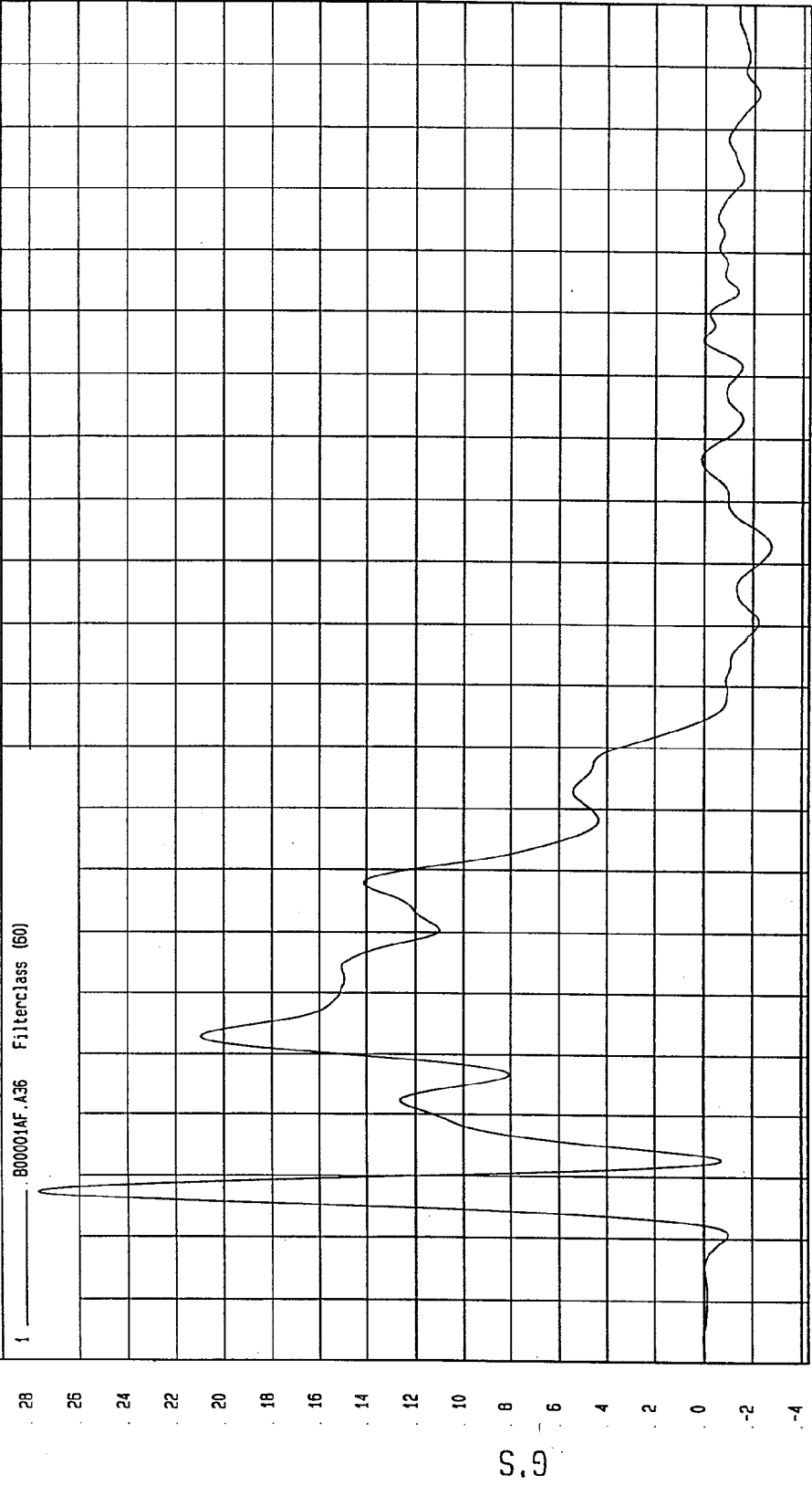
MCA Research
01-12-2000 13:34

TIME Seconds

KPH

TEST: NCAP SIDE IMPACT
 COMPONENT: 2000 FORD TAURUS (MY0211)
 TEST DATE: 01-05-2000
 Speed: 38.2 MPH 61.5 KPH
 Minimum = -2.76 G'S at 113 msec
 Maximum = 27.67 G'S at 7 msec

RIGHT SIDE SILL AT REAR SEAT Y ACCELERATION



NCAP Research
 01-12-2000 13:34

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

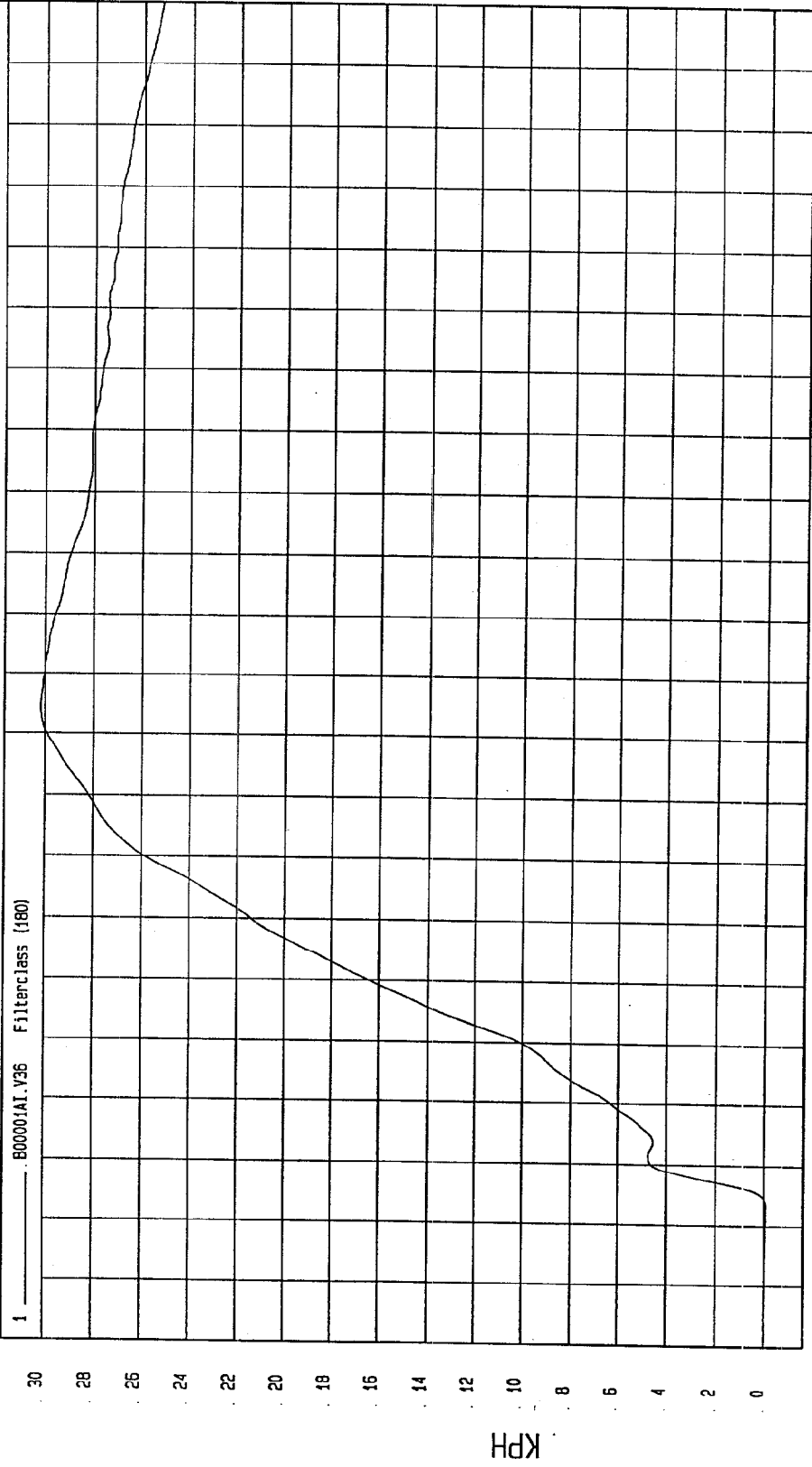
COMPONENT: 2000 FORD TAURUS (MY0211)

Speed: 38.2 MPH 61.5 KPH

Minimum = -5.97E-02 KPH at 3 msec

Maximum = 30.18 KPH at 84 msec

RIGHT SIDE SILL AT REAR SEAT Y VELOCITY



TIME Seconds

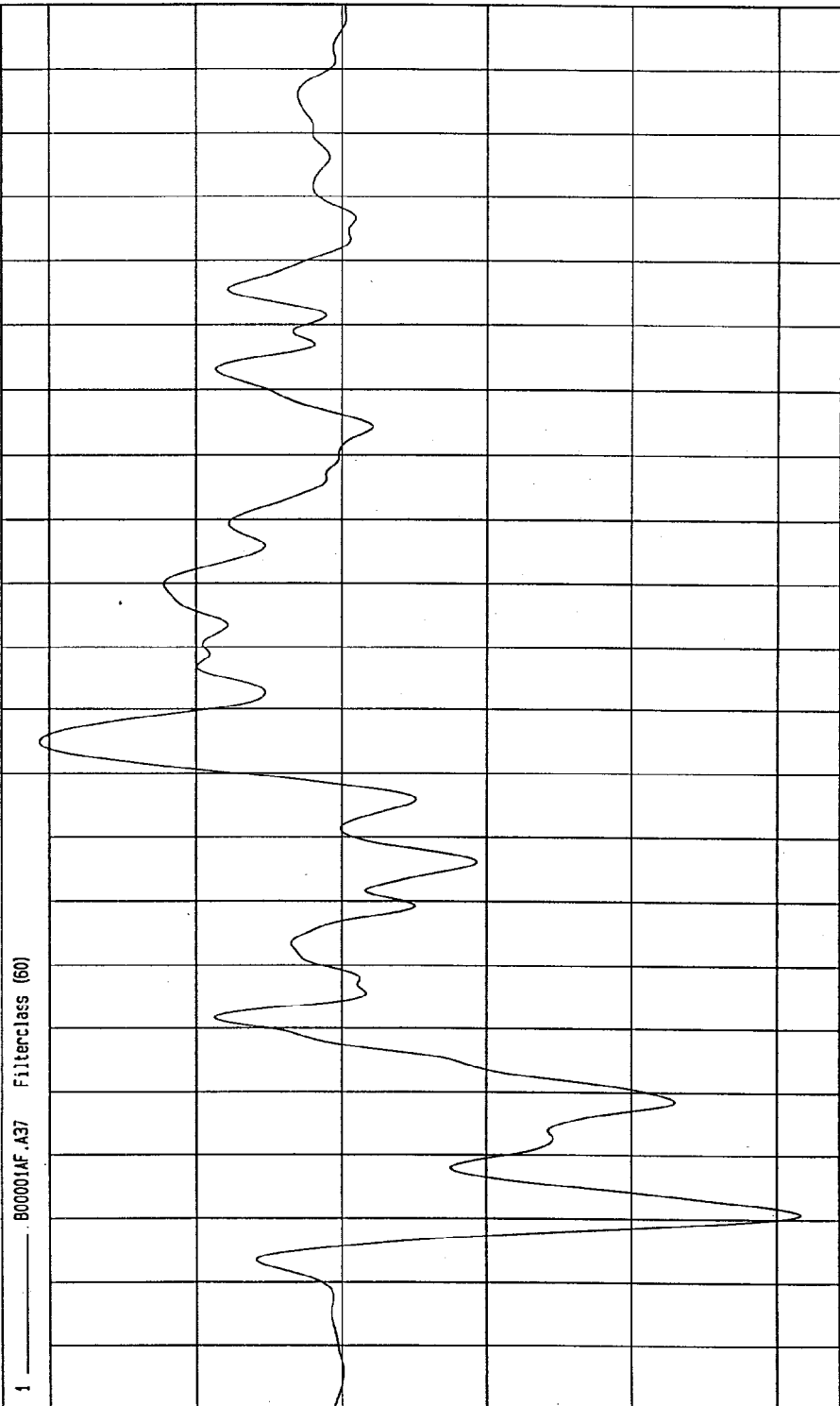
WCA Research
01-12-2000 13:34

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -6.32 G'S at 11 msec Maximum = 4.13 G'S at 85 msec

RIGHT SIDE SILL AT REAR SEAT Z ACCELERATION



TIME (SECONDS)

0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02

NGA Research
01-12-2000 13:34

G'S

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

Speed: 38.2 MPH 61.5 KPH

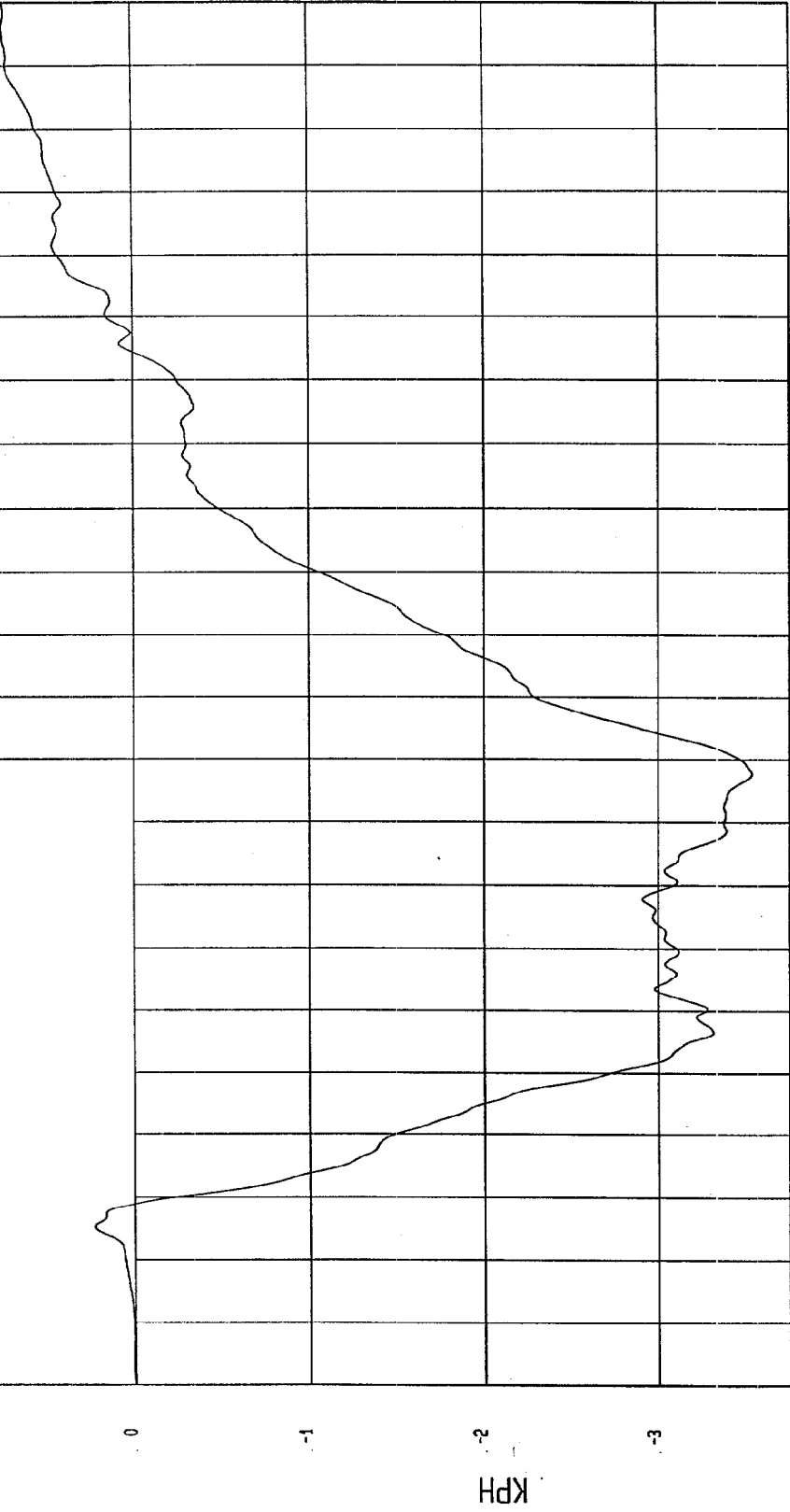
COMPONENT: 2000 FORD TAURUS (MY0211)

Maximum = .72 KPH at 196 msec

Minimum = -3.53 KPH at 78 msec

RIGHT SIDE SILL AT REAR SEAT Z VELOCITY

1 800001A1.V37 Filterclass (180)



TIME Seconds

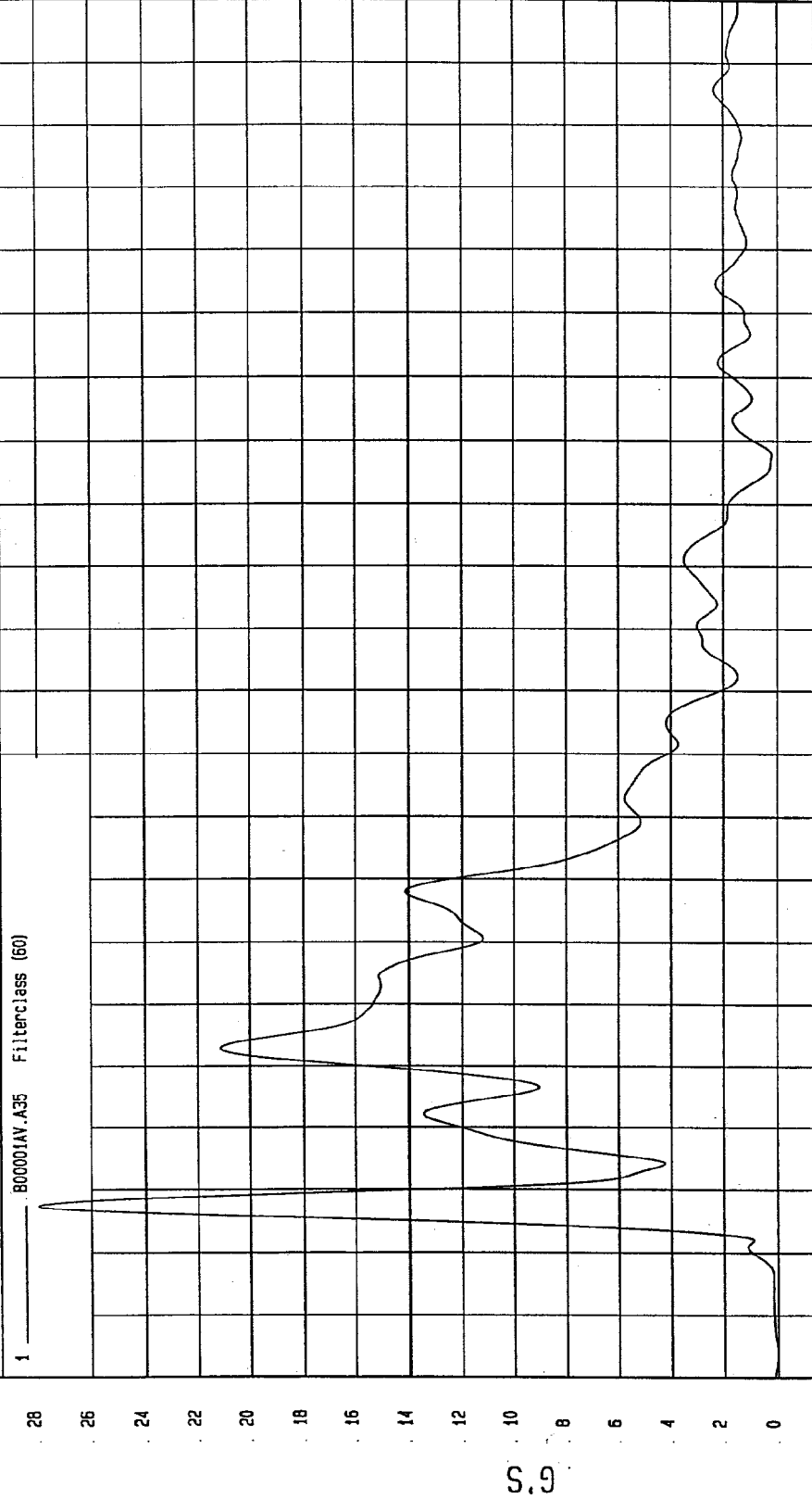
WCA Research
01-12-2000 13:34

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = 2.09E-02 G'S at -16 msec Maximum = 27.99 G'S at 7 msec

RIGHT SIDE SILL AT REAR SEAT RESULTANT ACCELERATION



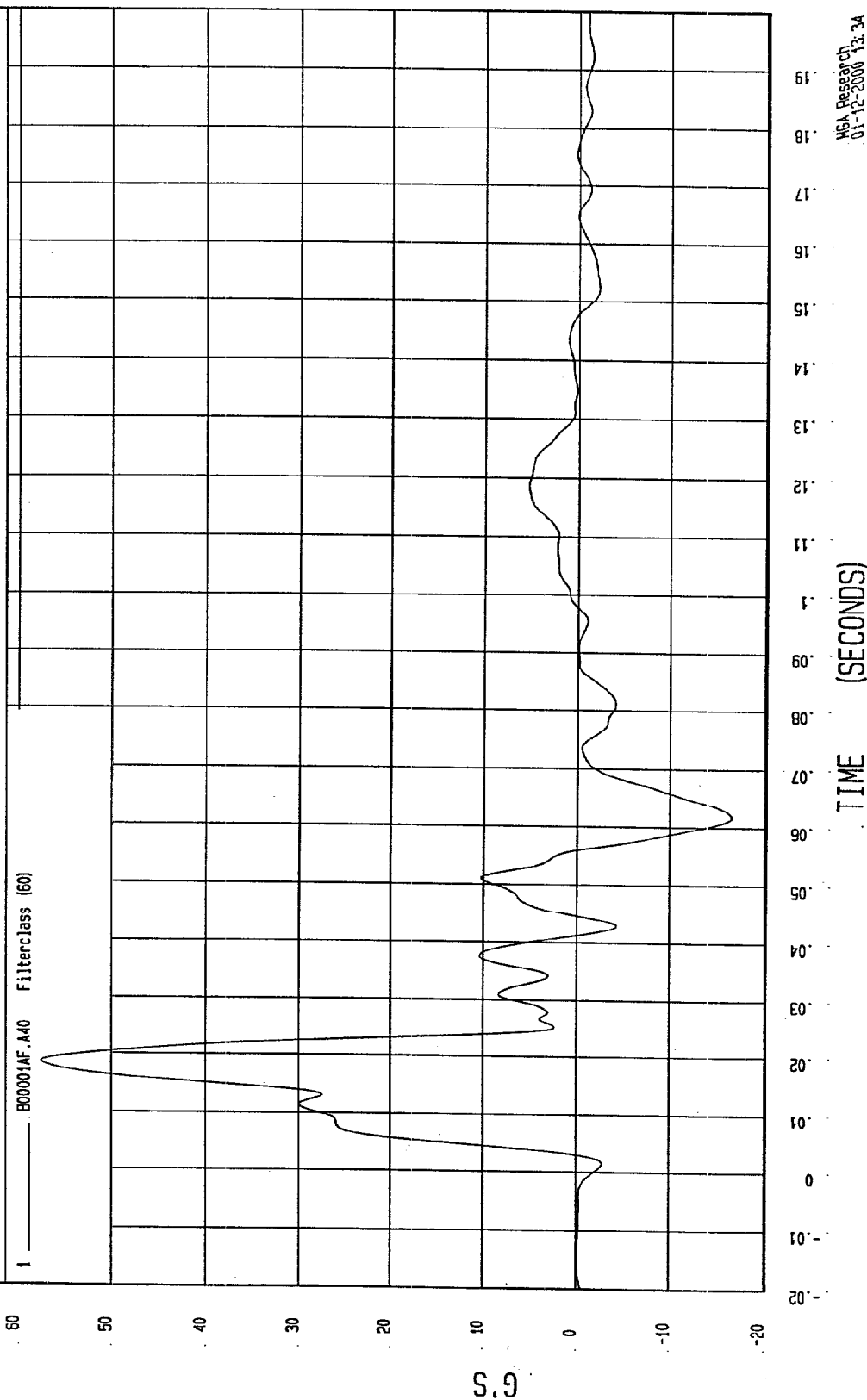
MCA Research
01-12-2000 13:34

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -16.5 G'S at 62 msec Maximum = 57.64 G'S at 19 msec

DRIVER SEAT TRACK Y ACCELERATION

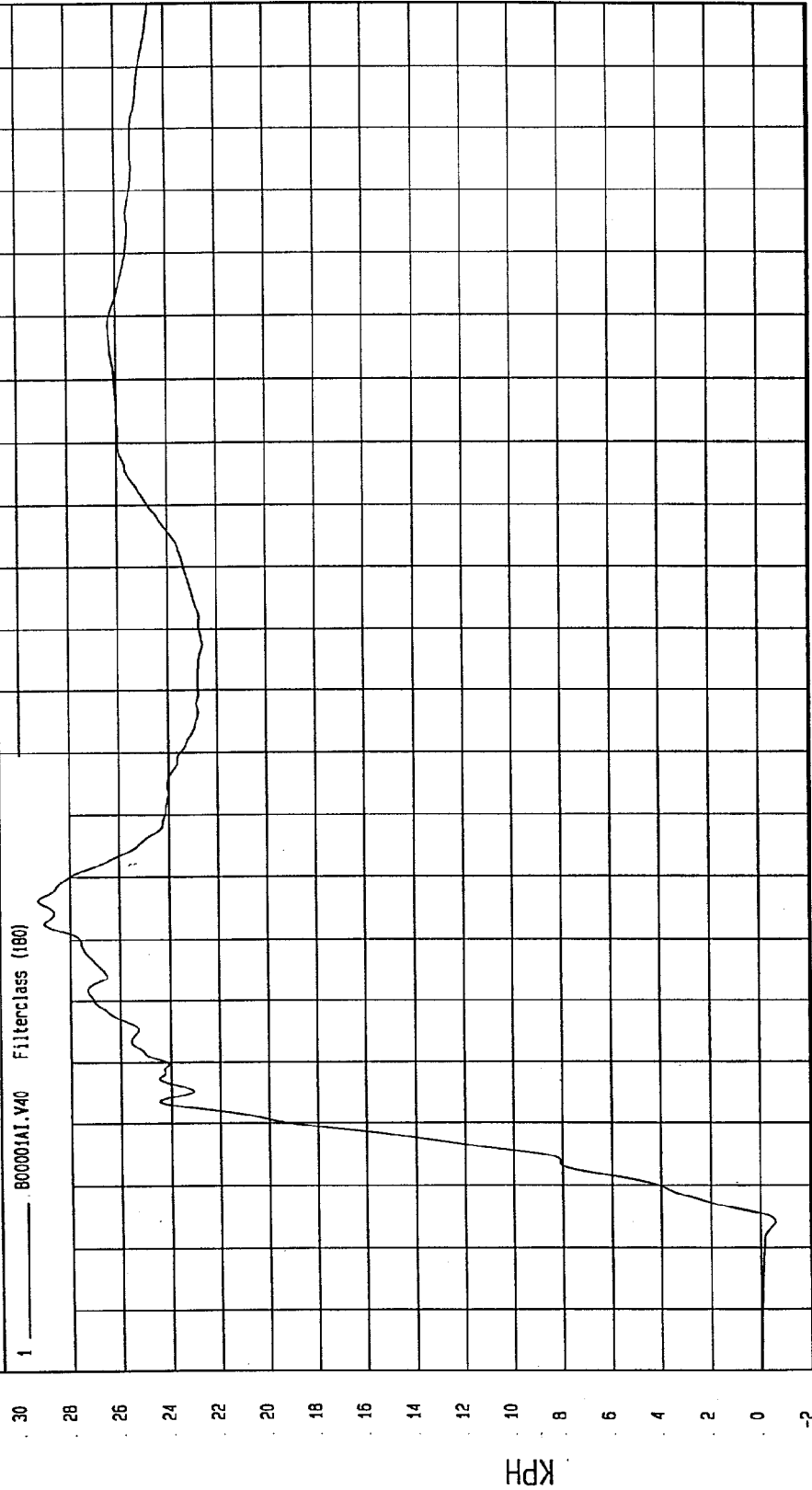


TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -6 KPH at 4 msec Maximum = 29.31 KPH at 56 msec

DRIVER SEAT TRACK Y VELOCITY



TIME Seconds

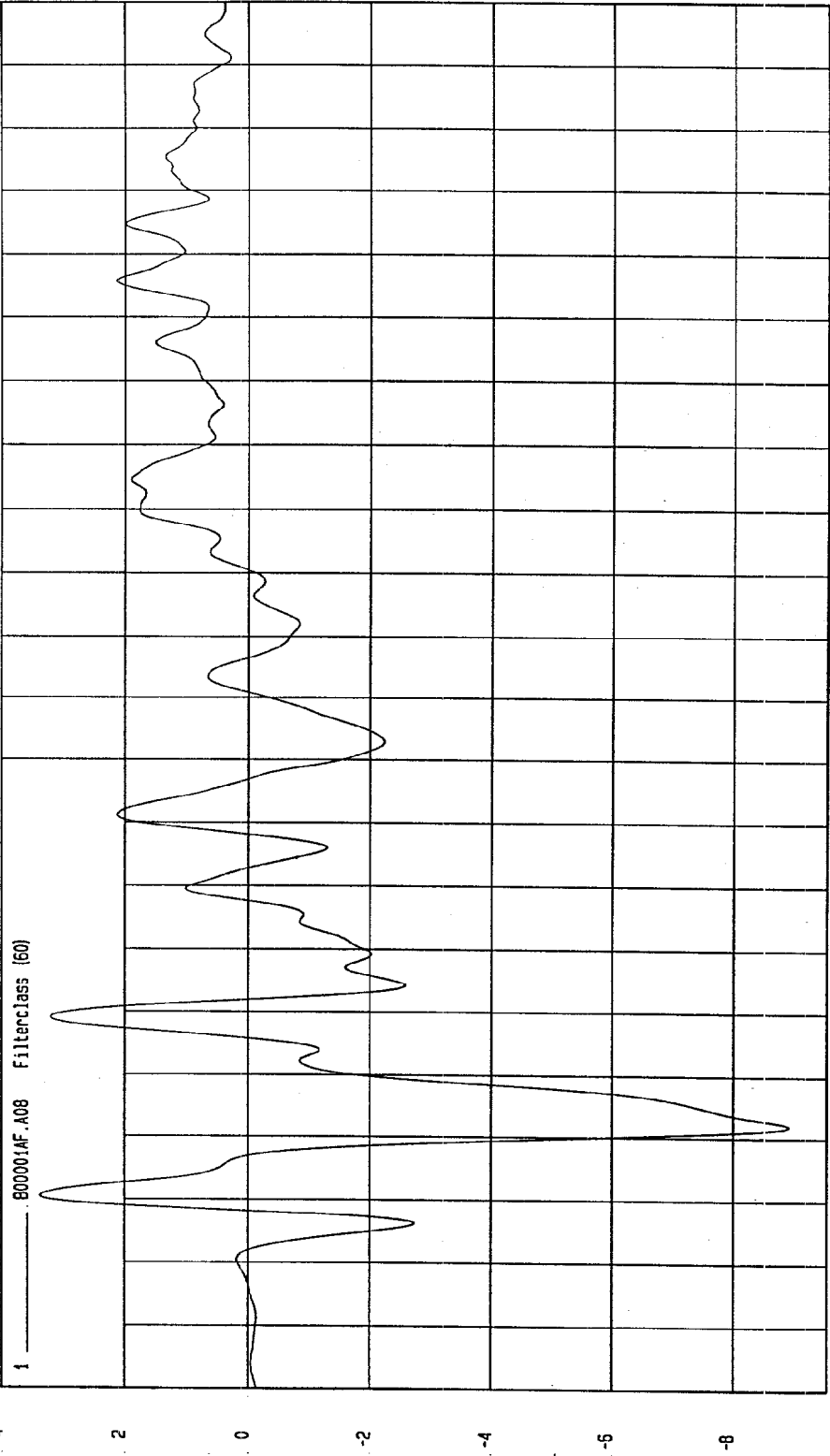
M&A Research
01-12-2000 13:34

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

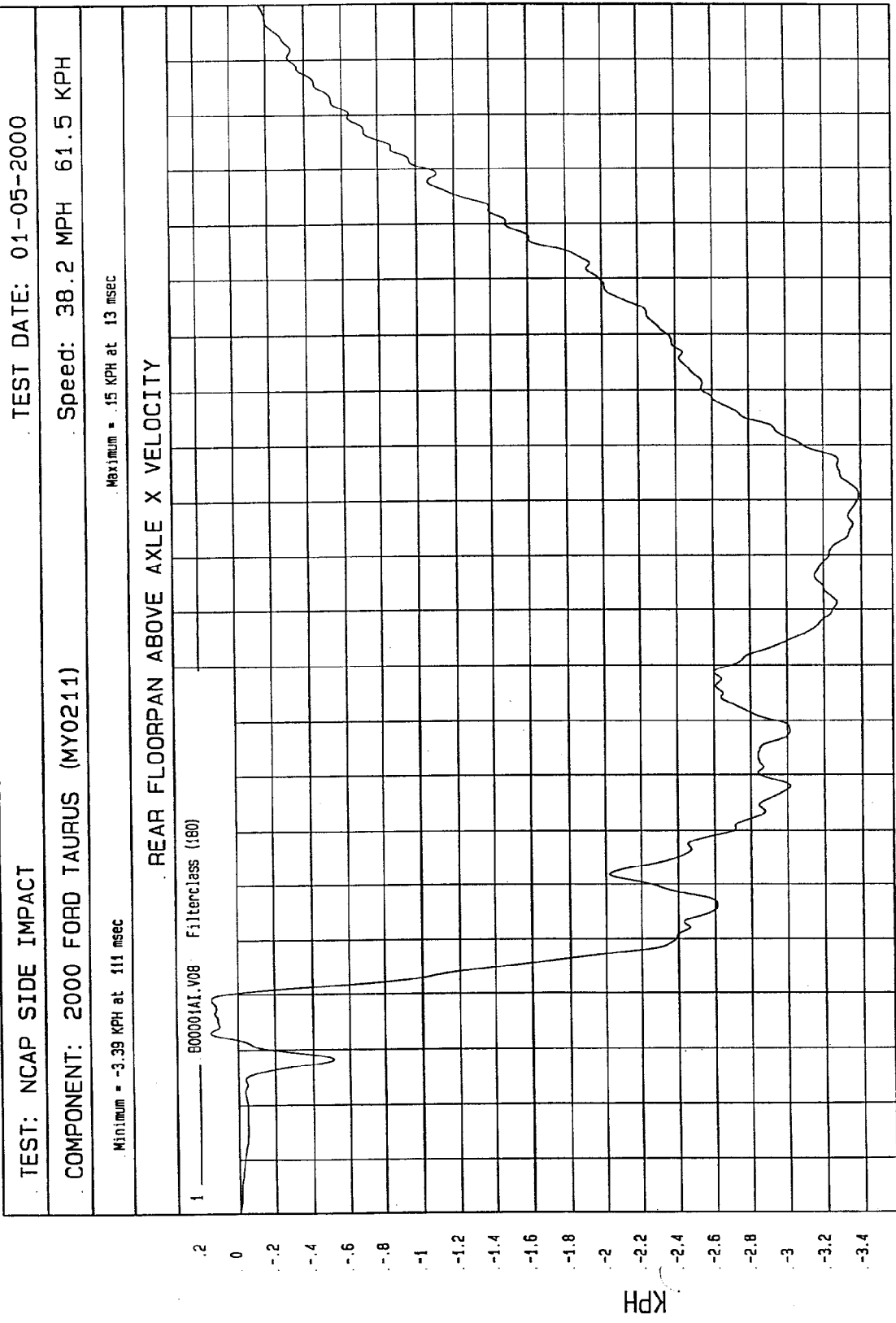
Minimum = -8.88 G'S at 22 msec Maximum = 3.4 G'S at 10 msec

REAR FLOORPAN ABOVE AXLE X ACCELERATION



TIME (SECONDS)

WGA Research
01-12-2000 13:34



MCA Research
01-12-2000 13:34

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

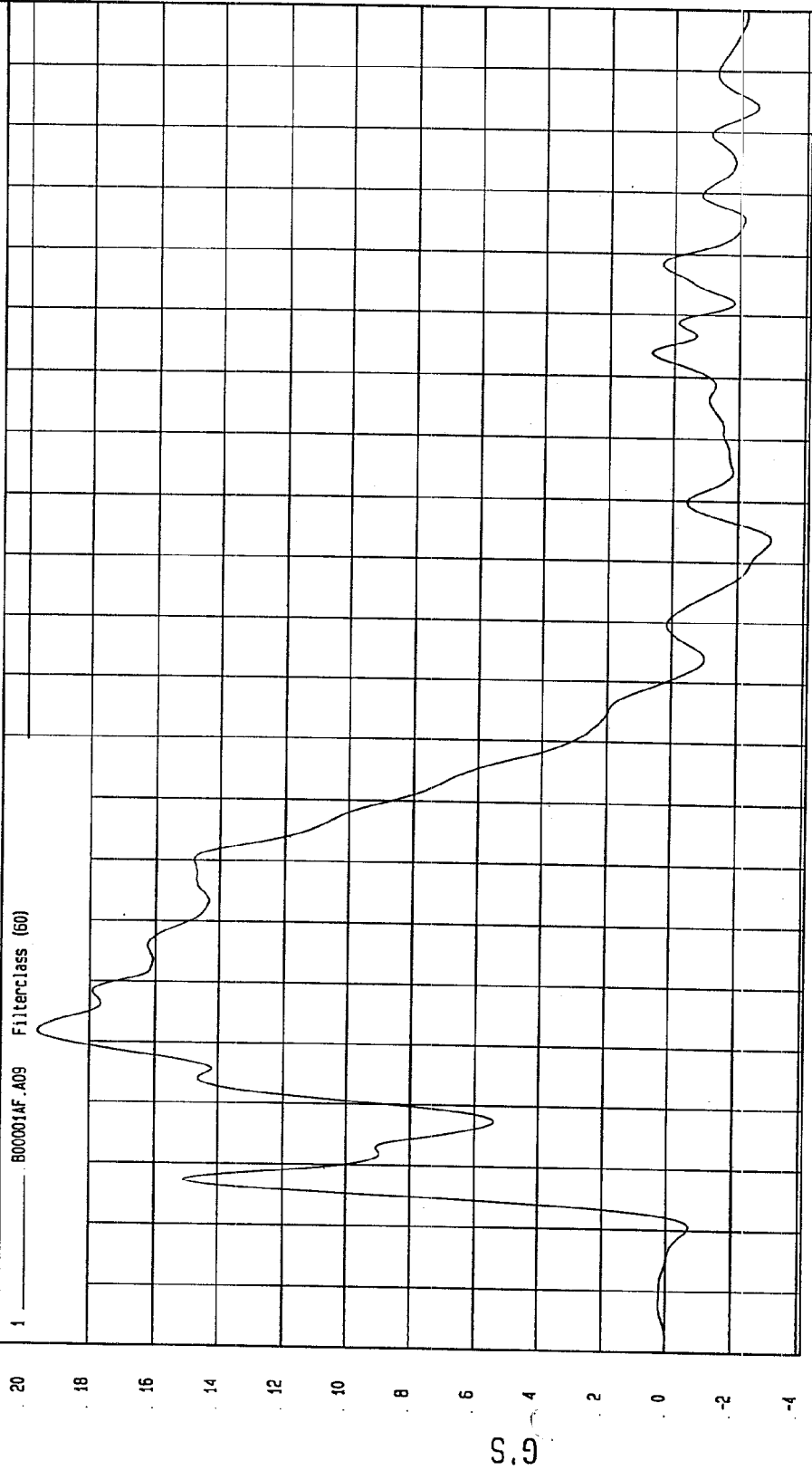
Speed: 38.2 MPH 61.5 KPH

Minimum = -3 G'S at 114 msec

Maximum = 19.63 G'S at 32 msec

REAR FLOORPAN ABOVE AXLE Y ACCELERATION

1 800001AF.A09 Filterclass (60)



MCA Research
01-12-2000 13:34

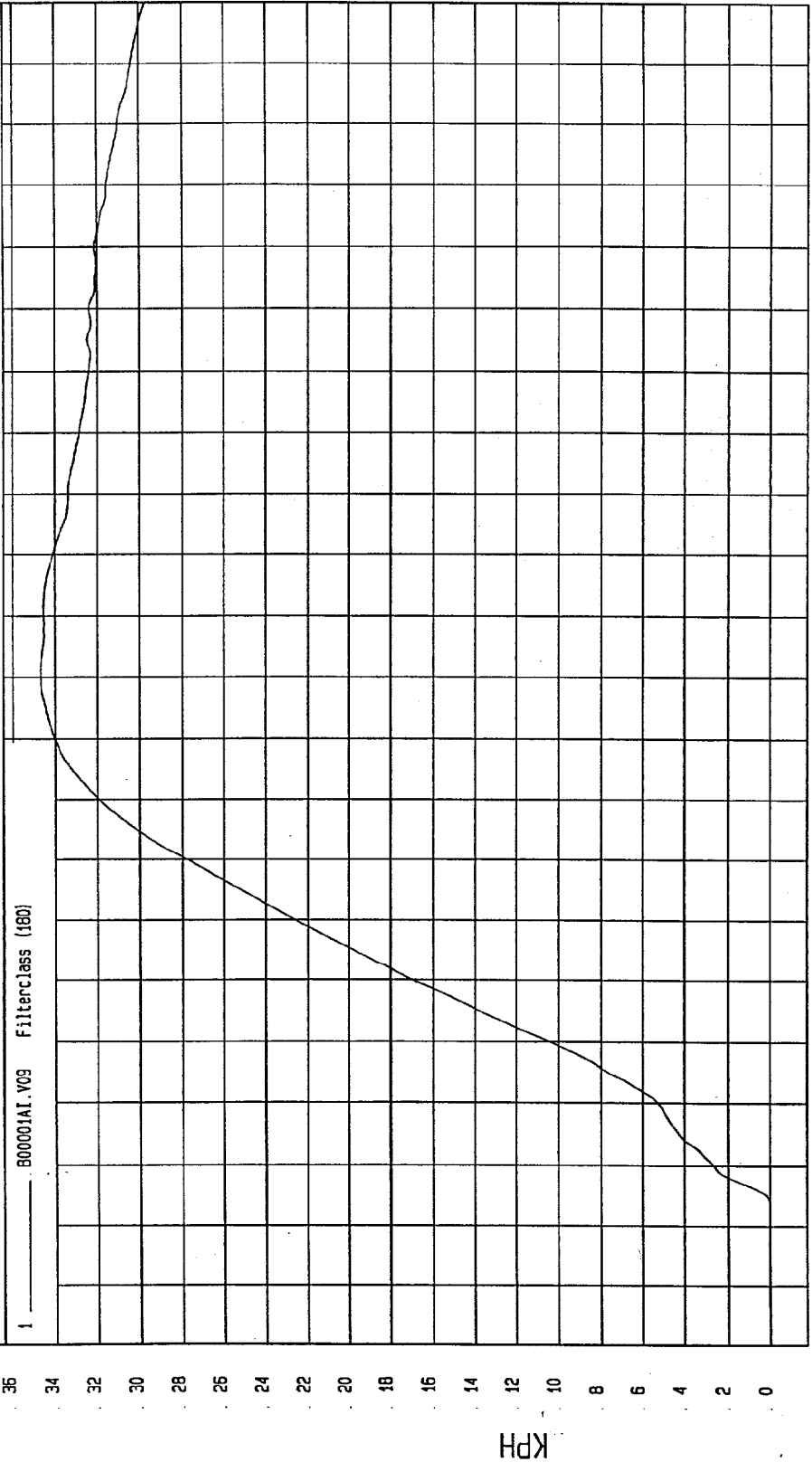
TIME (SECONDS)

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = 0 KPH at -20 msec Maximum = 34.69 KPH at 91 msec

REAR FLOORPAN ABOVE AXLE Y VELOCITY

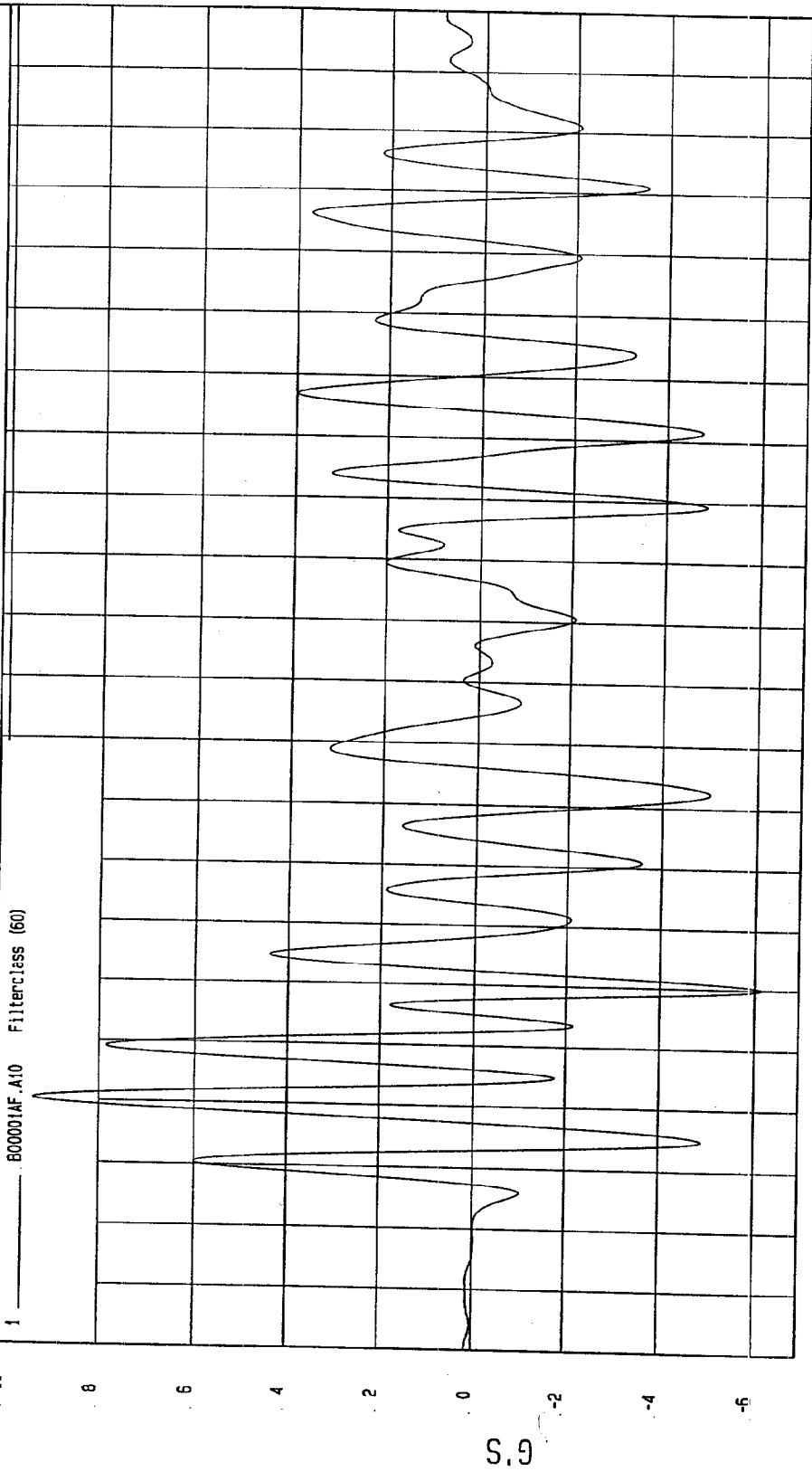


TIME Seconds

MOA Research
01-12-2000 13:34

TEST: NCAP SIDE IMPACT
TEST DATE: 01-05-2000
COMPONENT: 2000 FORD TAURUS (MY0211)
Speed: 38.2 MPH 61.5 KPH
Minimum = -6.15 G'S at 40 msec
Maximum = 9.39 G'S at 20 msec

REAR FLOORPAN ABOVE AXLE Z ACCELERATION



MGA Research
01-12-2000 13:34

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

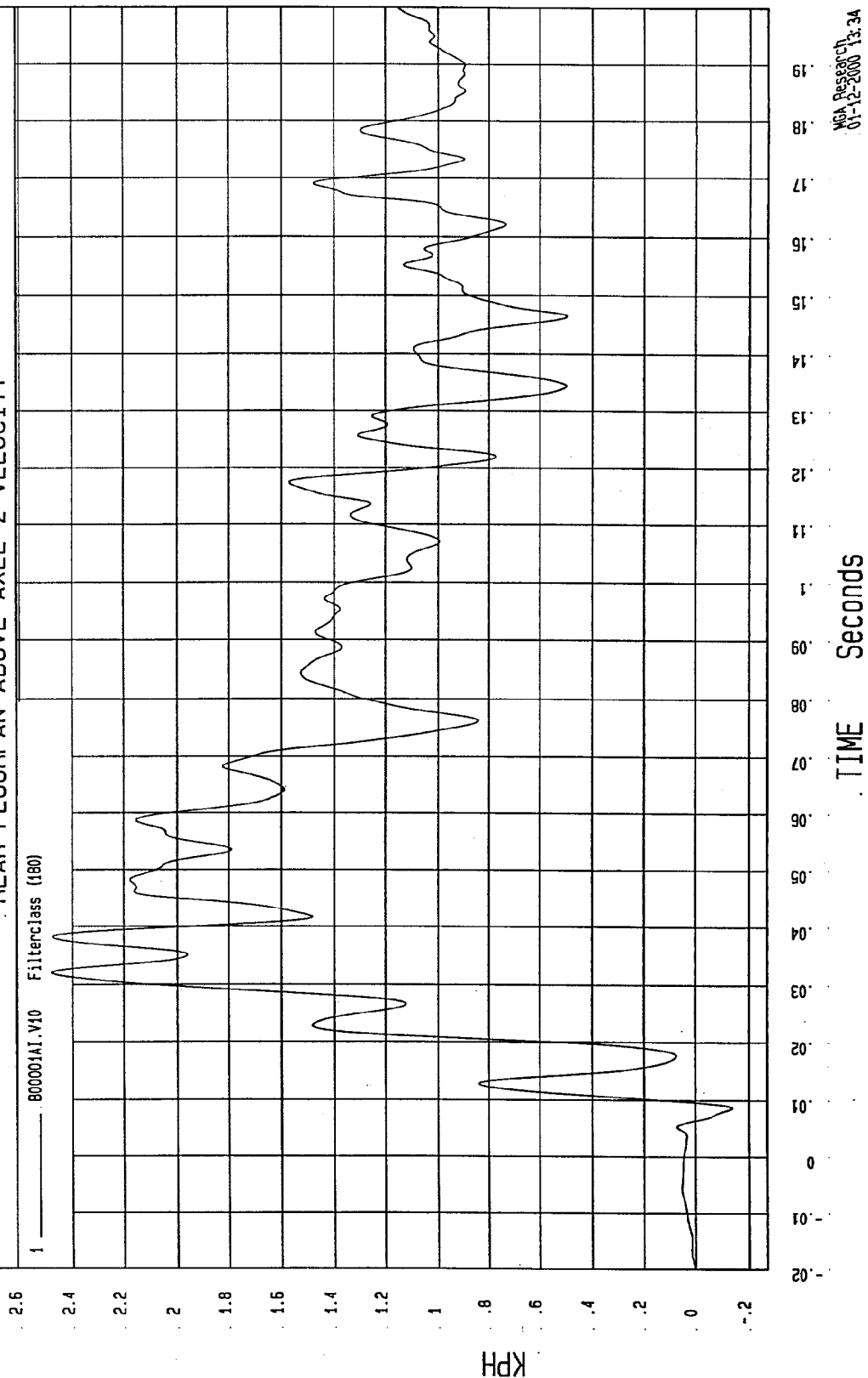
Speed: 38.2 MPH 61.5 KPH

COMPONENT: 2000 FORD TAURUS (MY0211)

Maximum = 2.48 KPH at 32 msec

Minimum = -.14 KPH at 9 msec

REAR FLOORPAN ABOVE AXLE Z VELOCITY

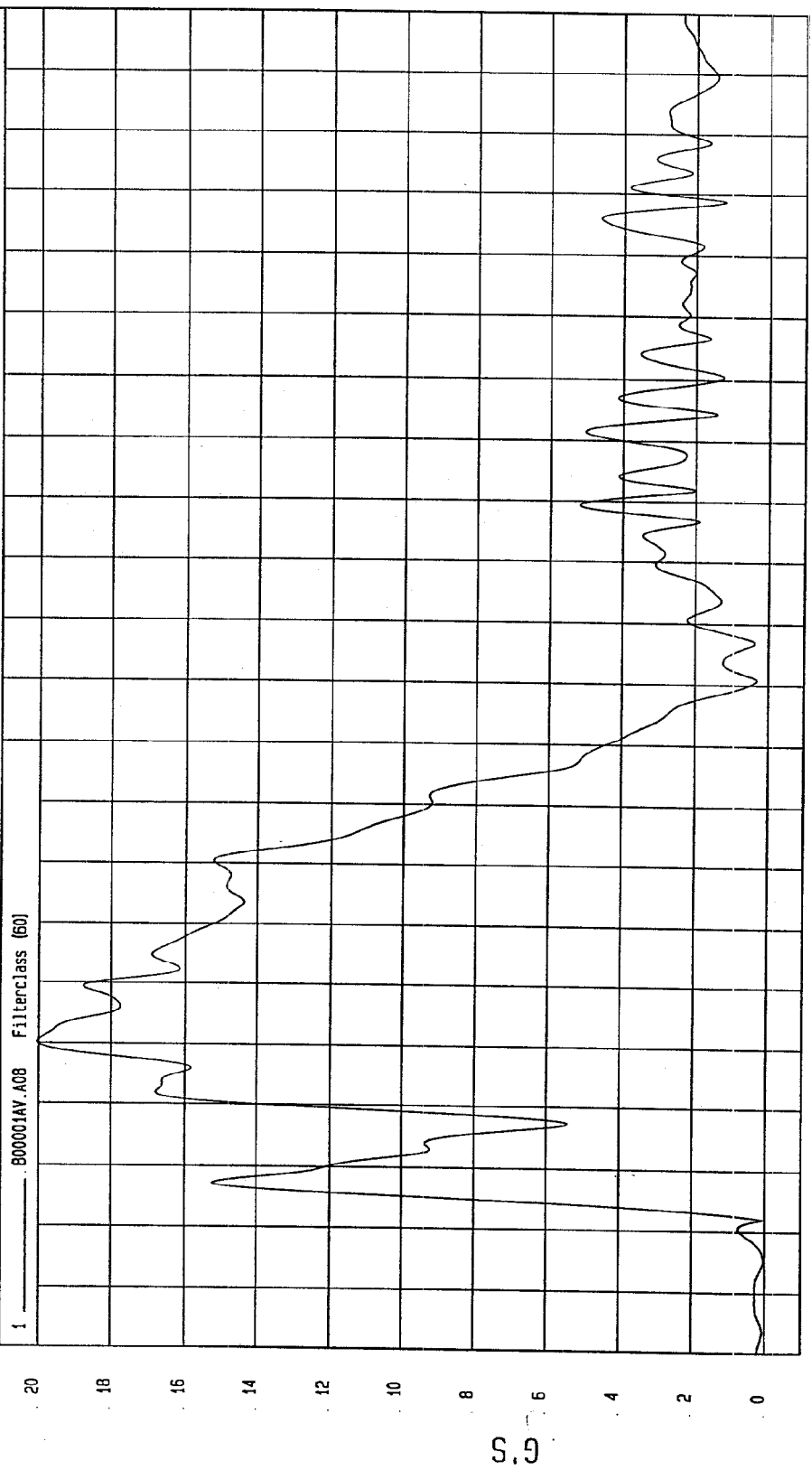


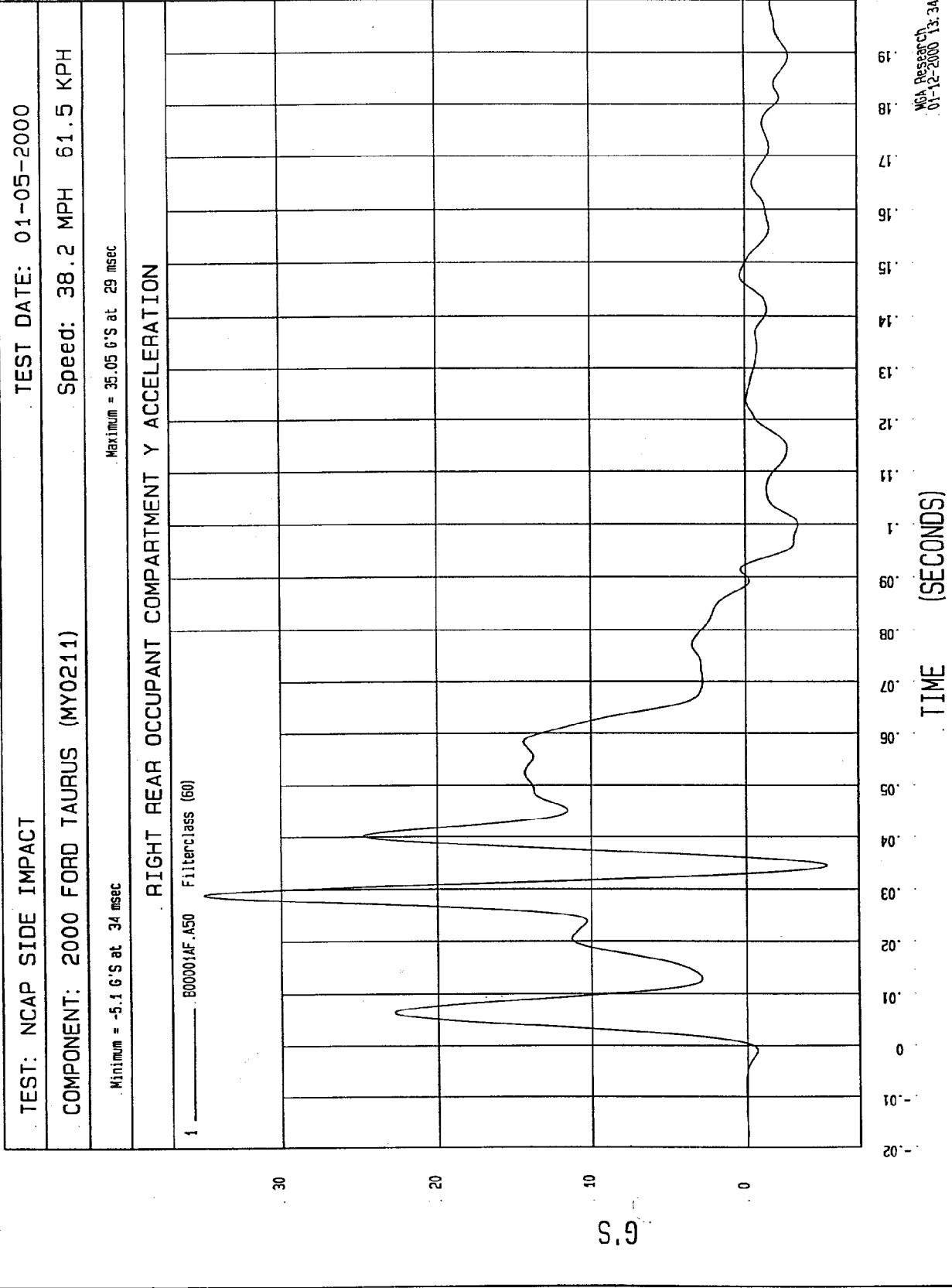
TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = .04 G'S at -5 msec Maximum = 20.03 G'S at 30 msec

REAR FLOORPAN ABOVE AXLE RESULTANT ACCELERATION





TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

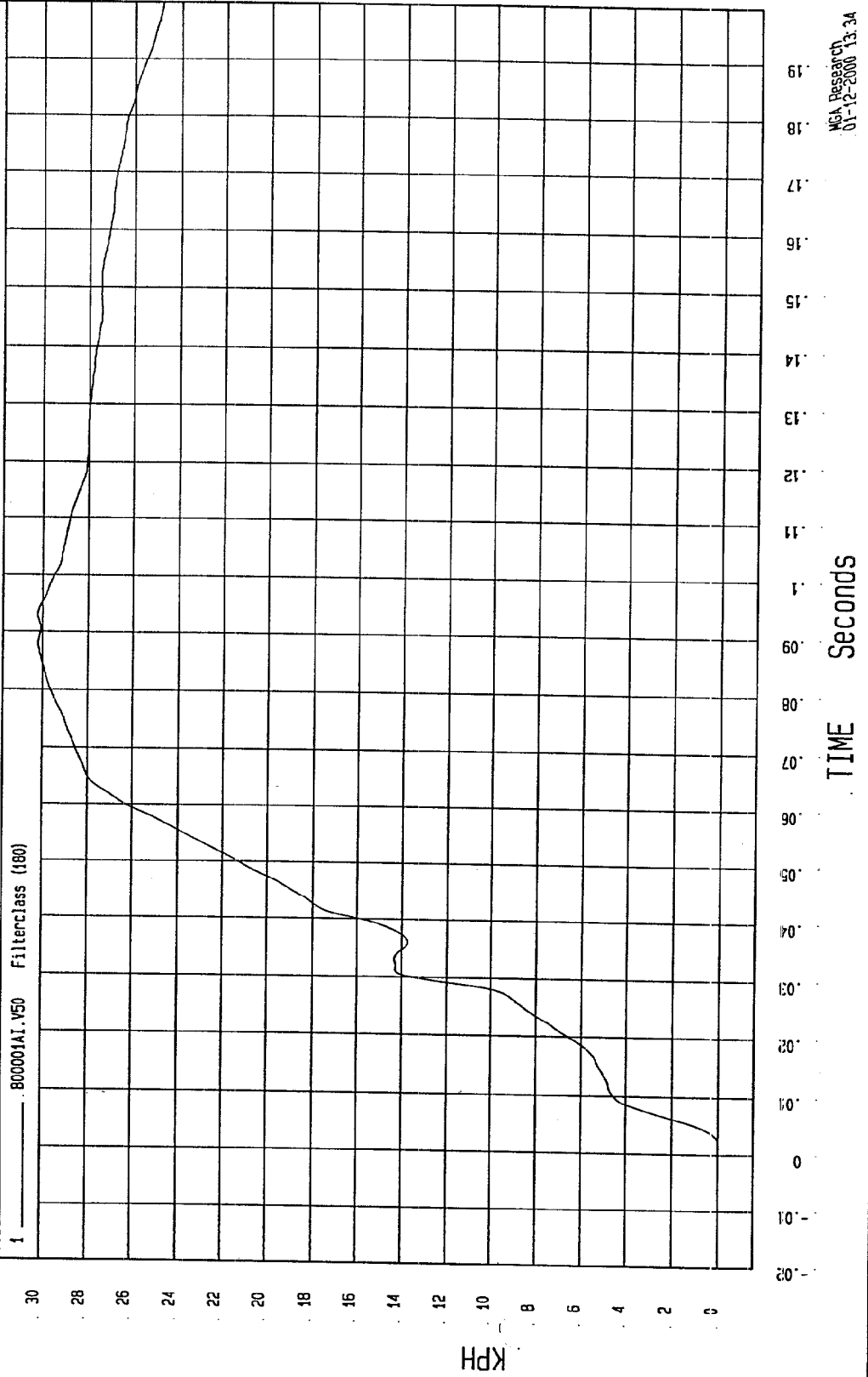
COMPONENT: 2000 FORD TAURUS (MY0211)

Speed: 38.2 MPH 61.5 KPH

Minimum = -5.50E-03 KPH at -15 msec

Maximum = 30.2 KPH at 93 msec

RIGHT REAR OCCUPANT COMPARTMENT Y VELOCITY



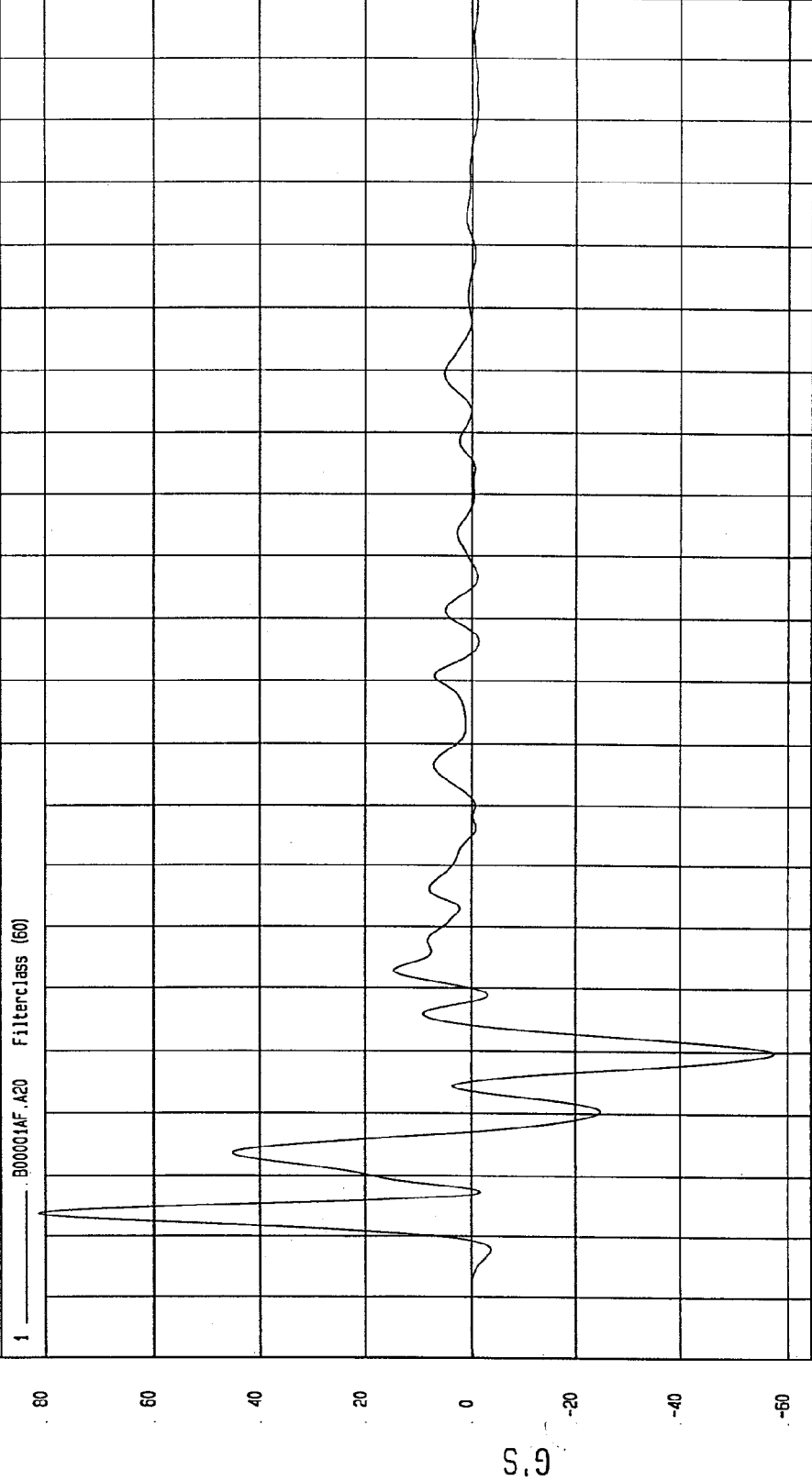
MCA Research
01-12-2000 13:34

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -57.43 G'S at 30 msec Maximum = 81.28 G'S at 4 msec

LEFT LOWER A-POST Y ACCELERATION



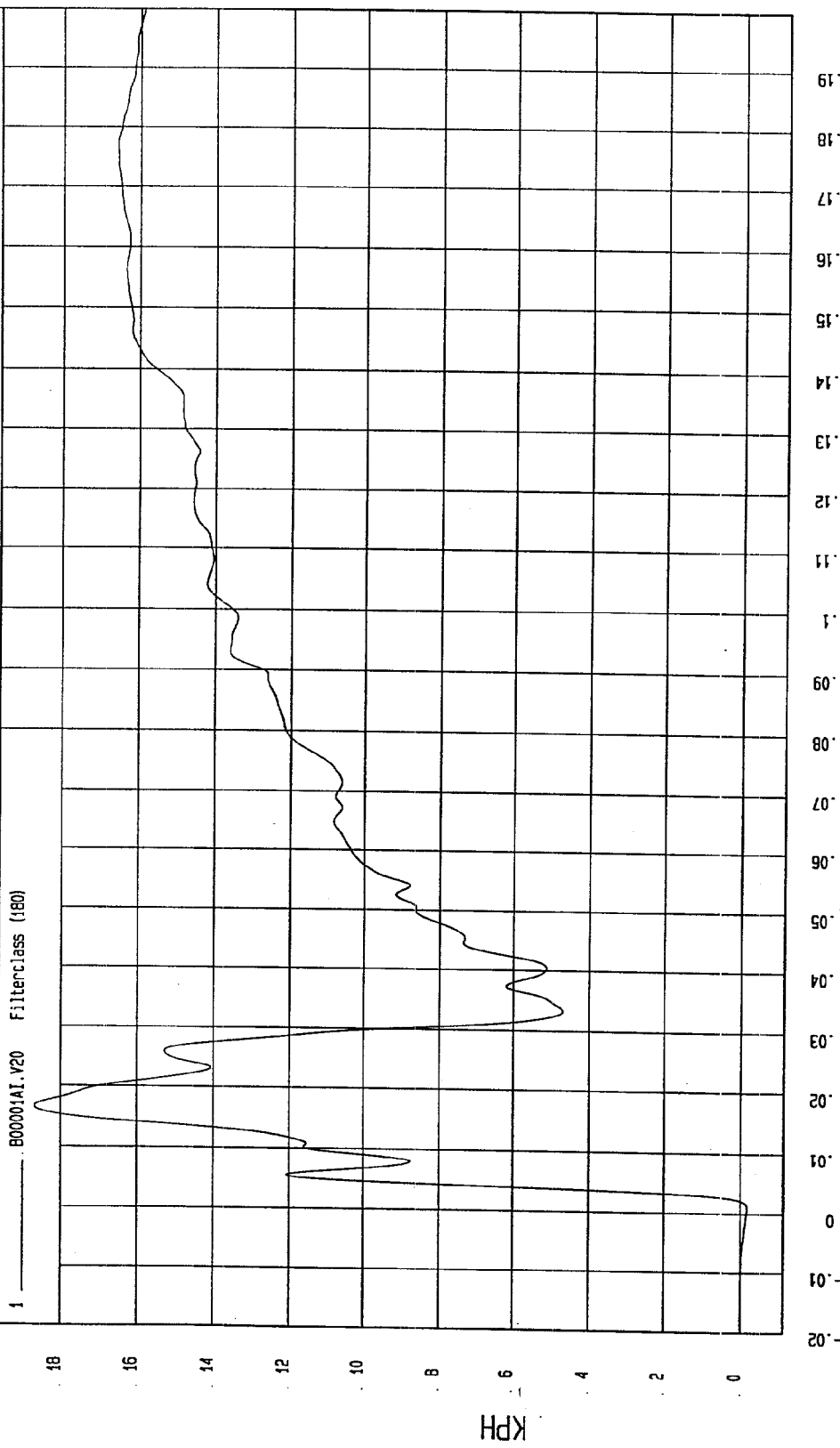
MCA Research
01-12-2000 13:34

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

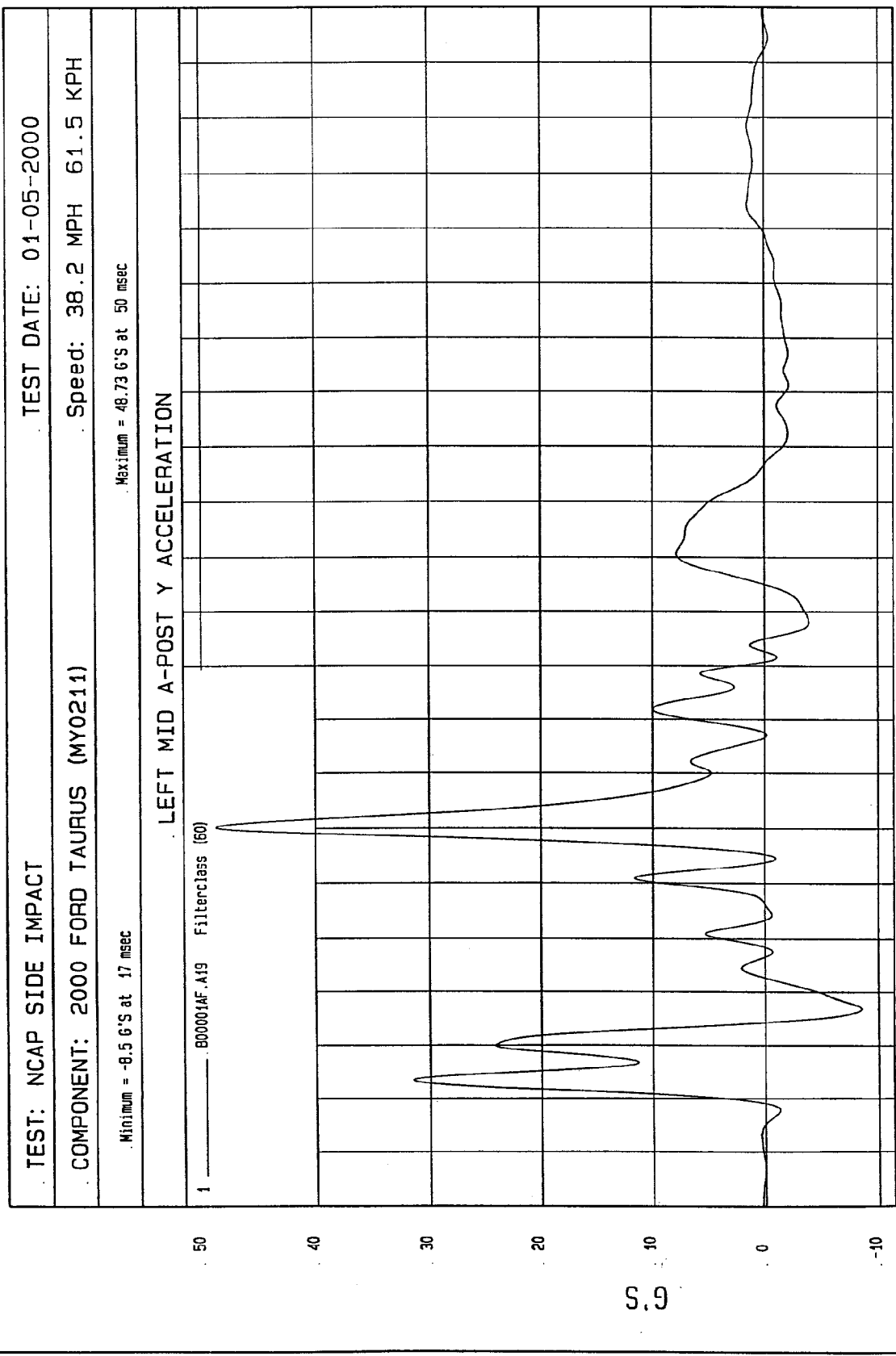
COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -16 KPH at 1 msec Maximum = 18.68 KPH at 16 msec

LEFT LOWER A-POST Y VELOCITY



NSA Research
01-12-2000 13:35



TIME (SECONDS)

MCA Research
01-12-2000 13:35

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

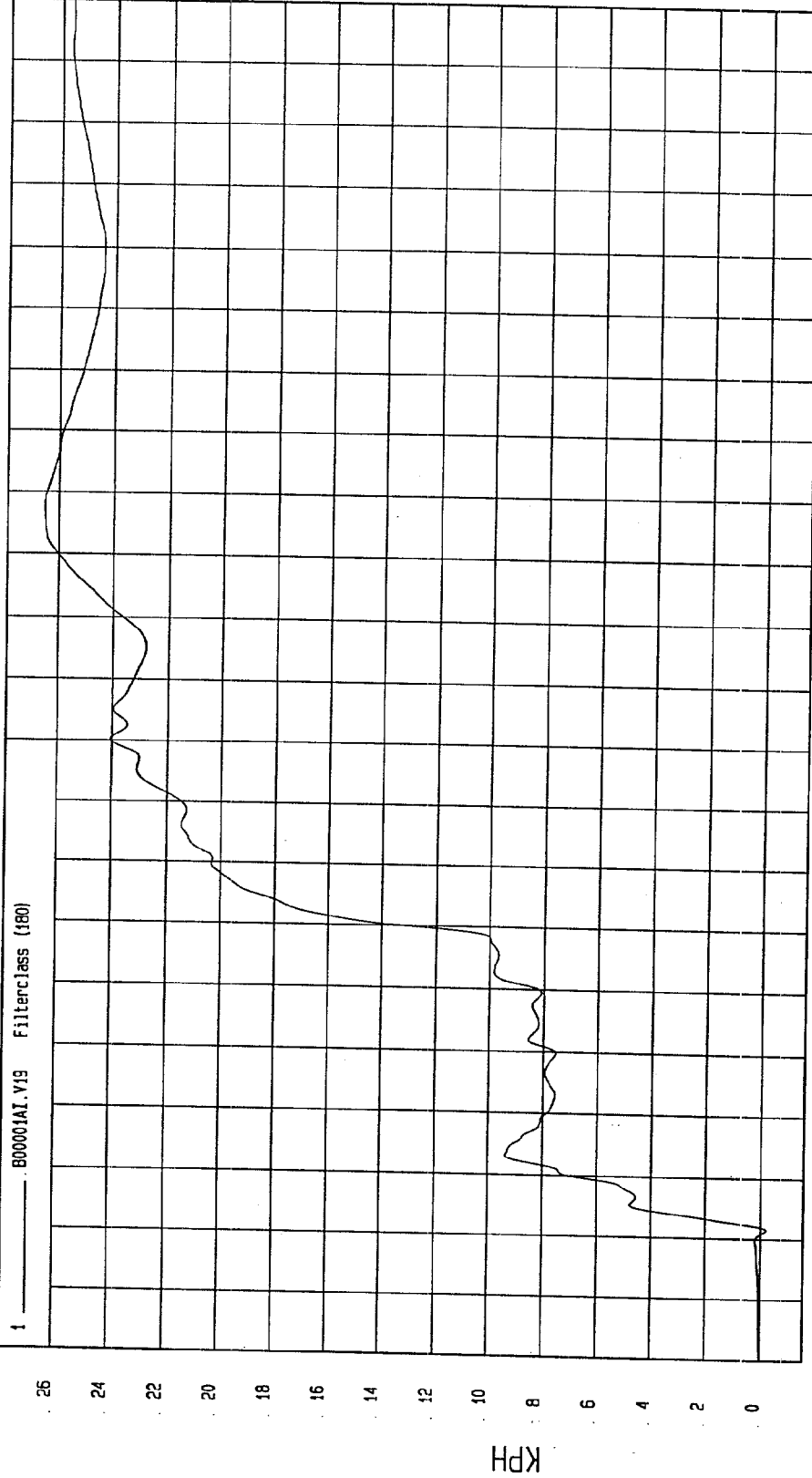
Speed: 38.2 MPH 61.5 KPH

Minimum = -.21 KPH at 1 msec

Maximum = 26.52 KPH at 118 msec

LEFT MID A-POST Y VELOCITY

1 B00001A1.V19 Filterclass (180)



WGA Research
01-12-2000 13:35

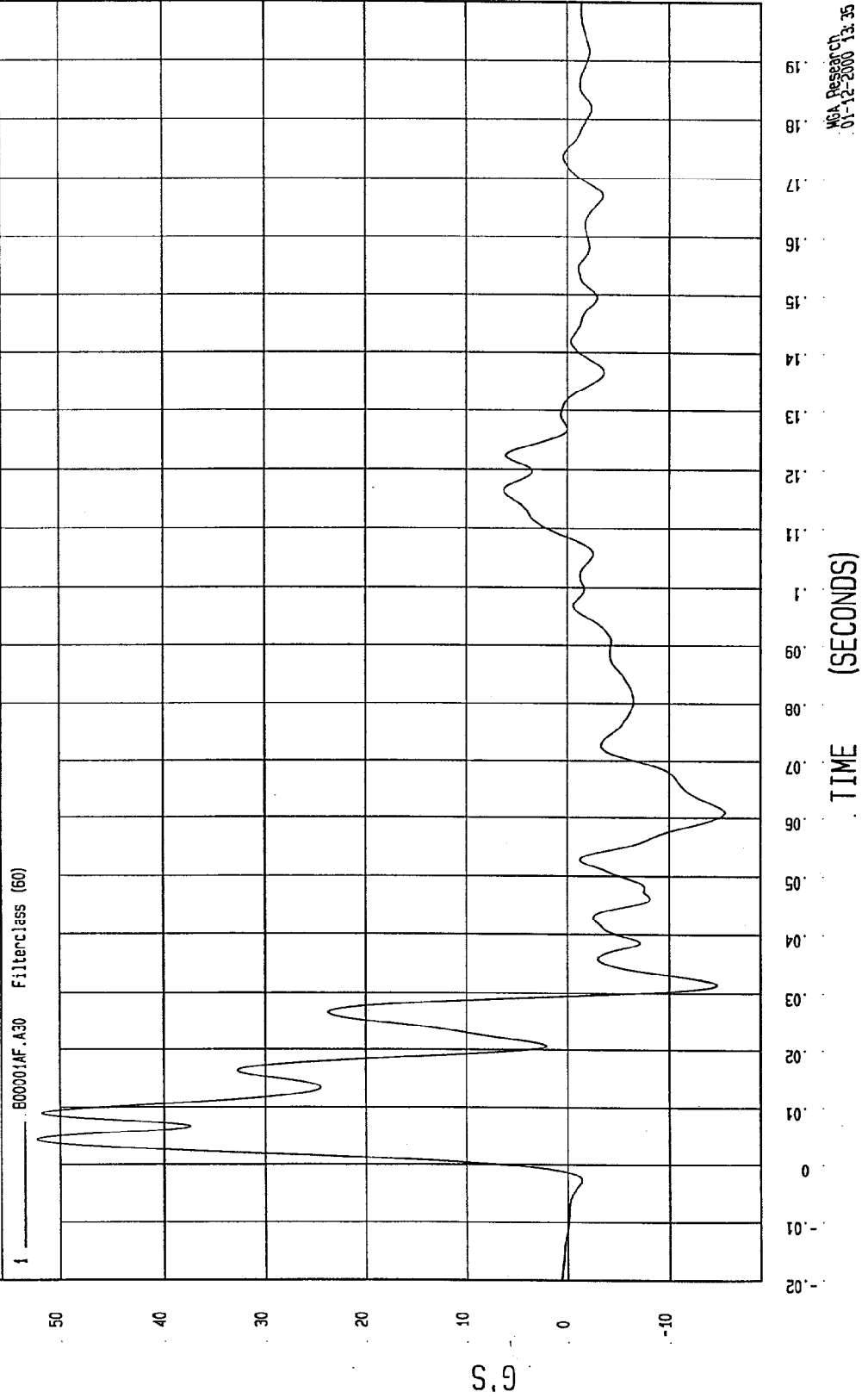
TIME Seconds

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -15.39 G'S at 61 msec Maximum = 52.27 G'S at 4 msec

LEFT LOWER B-POST Y ACCELERATION



MSA Research
01-12-2000 13:35

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

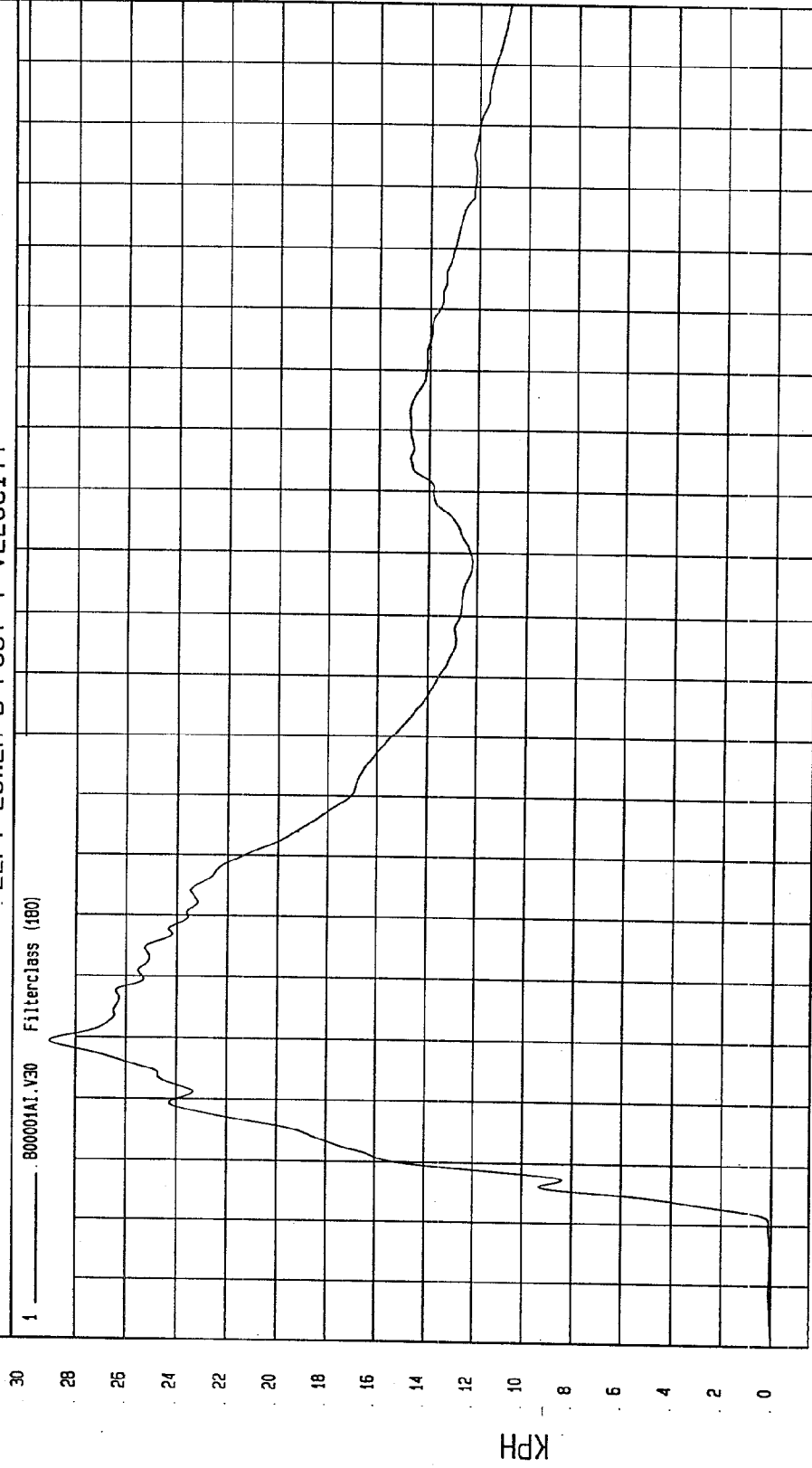
Speed: 38.2 MPH 61.5 KPH

Minimum = 0 KPH at -20 msec

Maximum = 29.03 KPH at 20 msec

LEFT LOWER B-POST Y VELOCITY

1 800001A1.V30 Filterclass (180)



MGA Research
01-12-2000 13:35

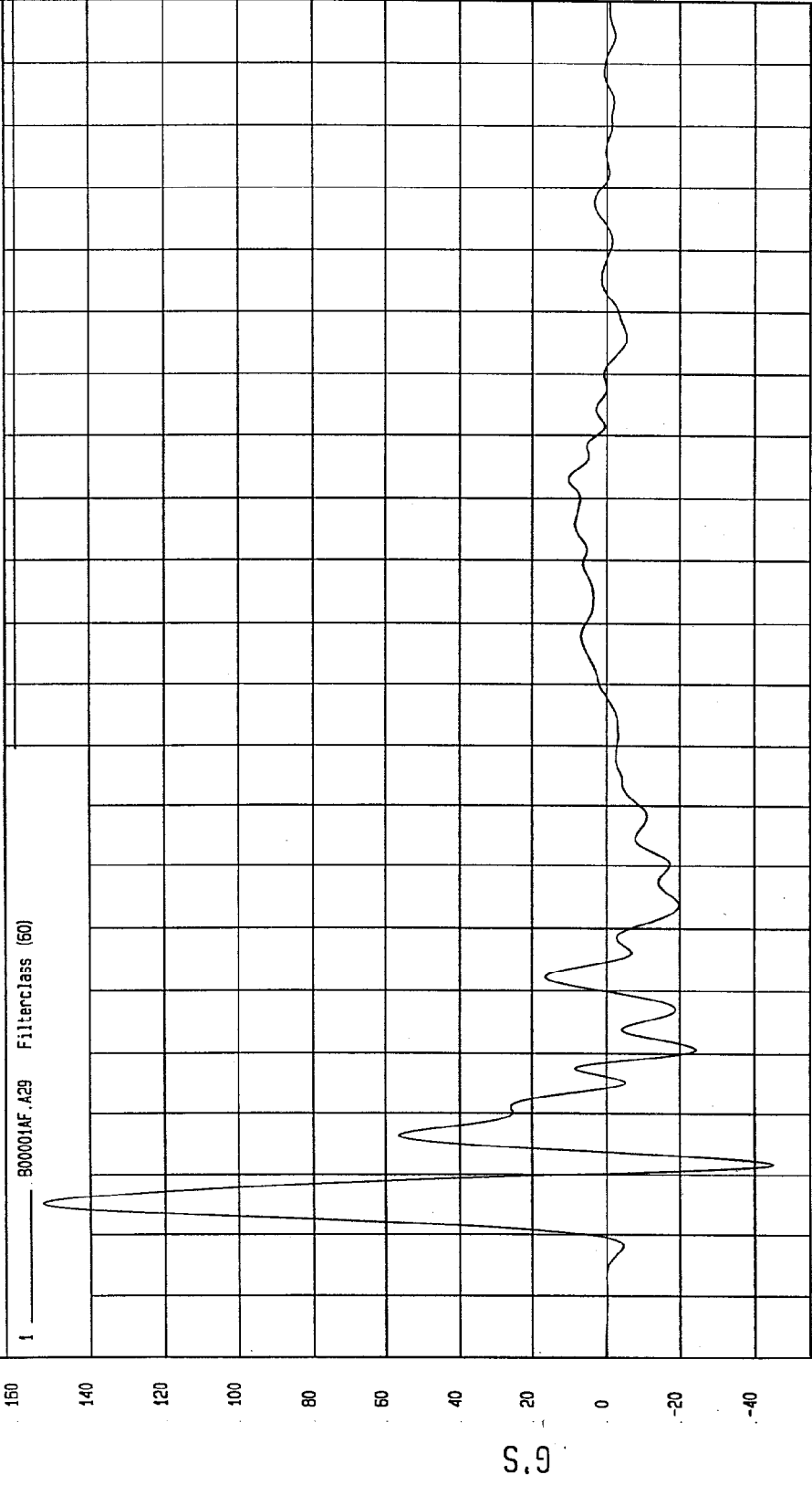
TIME Seconds

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -44.99 G'S at 12 msec Maximum = 152.76 G'S at 5 msec

LEFT MID B-POST Y ACCELERATION



MCA Research
01-12-2000 13:35

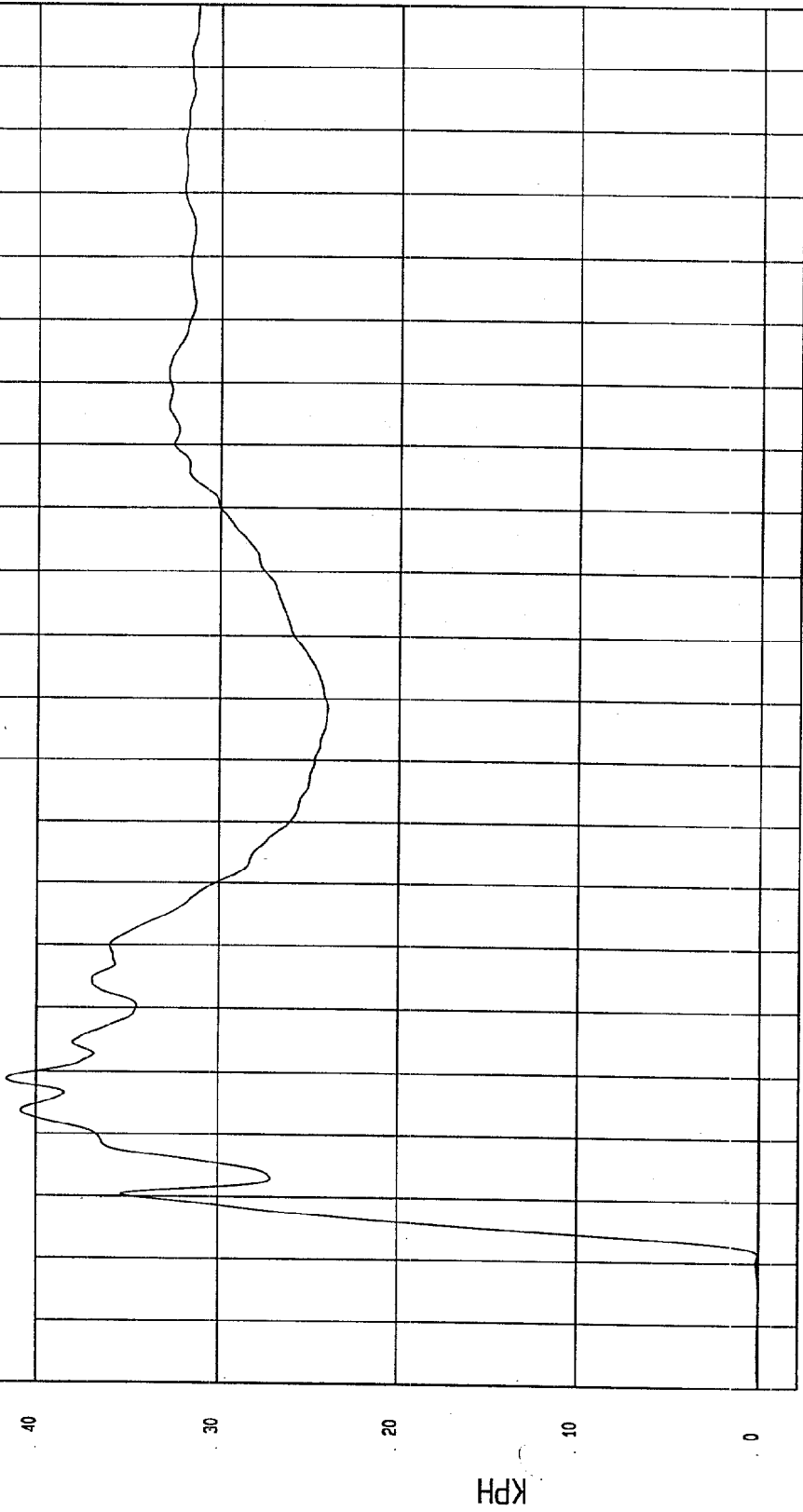
TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = 0 KPH at -20 msec Maximum = 41.6 KPH at 29 msec

LEFT MID B-POST Y VELOCITY

1 ——— 800001A1.V29 FilterClass (180)



TIME Seconds

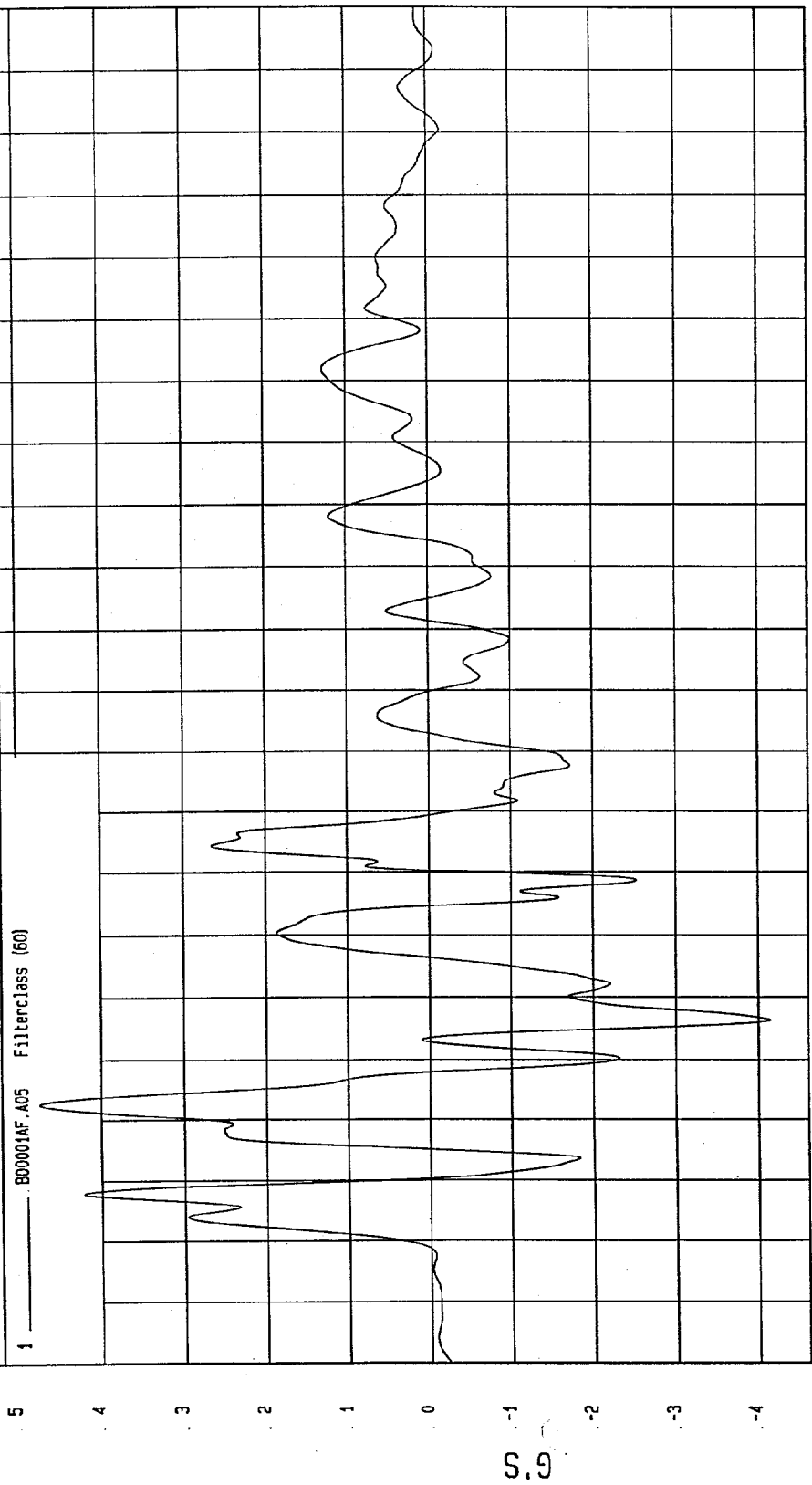
NCA Research
01-12-2000 13:35

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -4.14 G'S at 36 msec Maximum = 4.74 G'S at 22 msec

VEHICLE CG X ACCELERATION



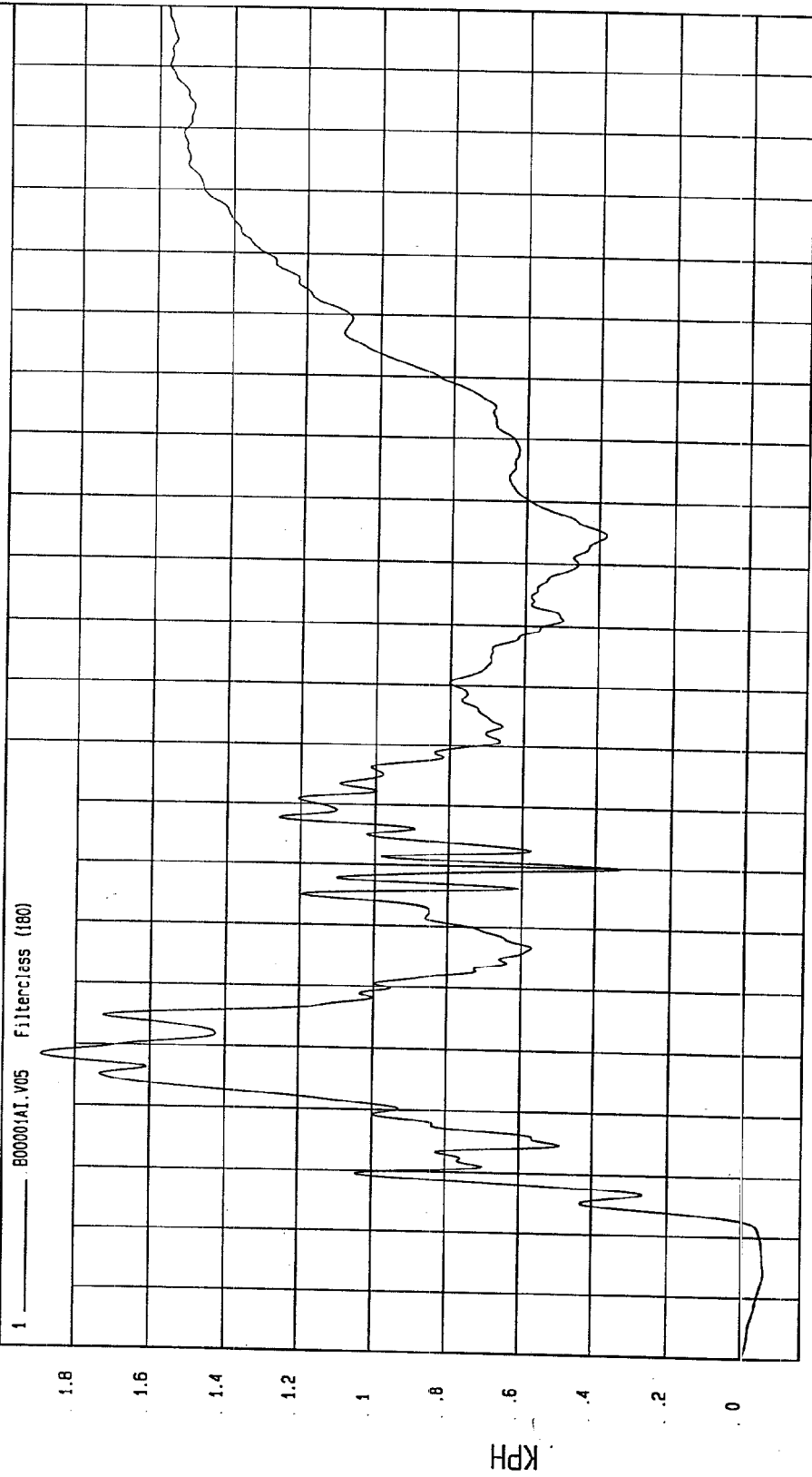
TIME (SECONDS)

0.19 0.18 0.17 0.16 0.15 0.14 0.13 0.12 0.11 0.1 0.09 0.08 0.07 0.06 0.05 0.04 0.03 0.02 0.01 0 -0.01 -0.02

MOA Research
01-12-2000 13:35

TEST: NCAP SIDE IMPACT
TEST DATE: 01-05-2000
COMPONENT: 2000 FORD TAURUS (MY0211)
Speed: 38.2 MPH 61.5 KPH
Minimum = -5.66E-02 KPH at -6 msec
Maximum = 1.89 KPH at 28 msec

VEHICLE CG X VELOCITY



TIME Seconds
MCA Research
01-12-2000 13:35

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

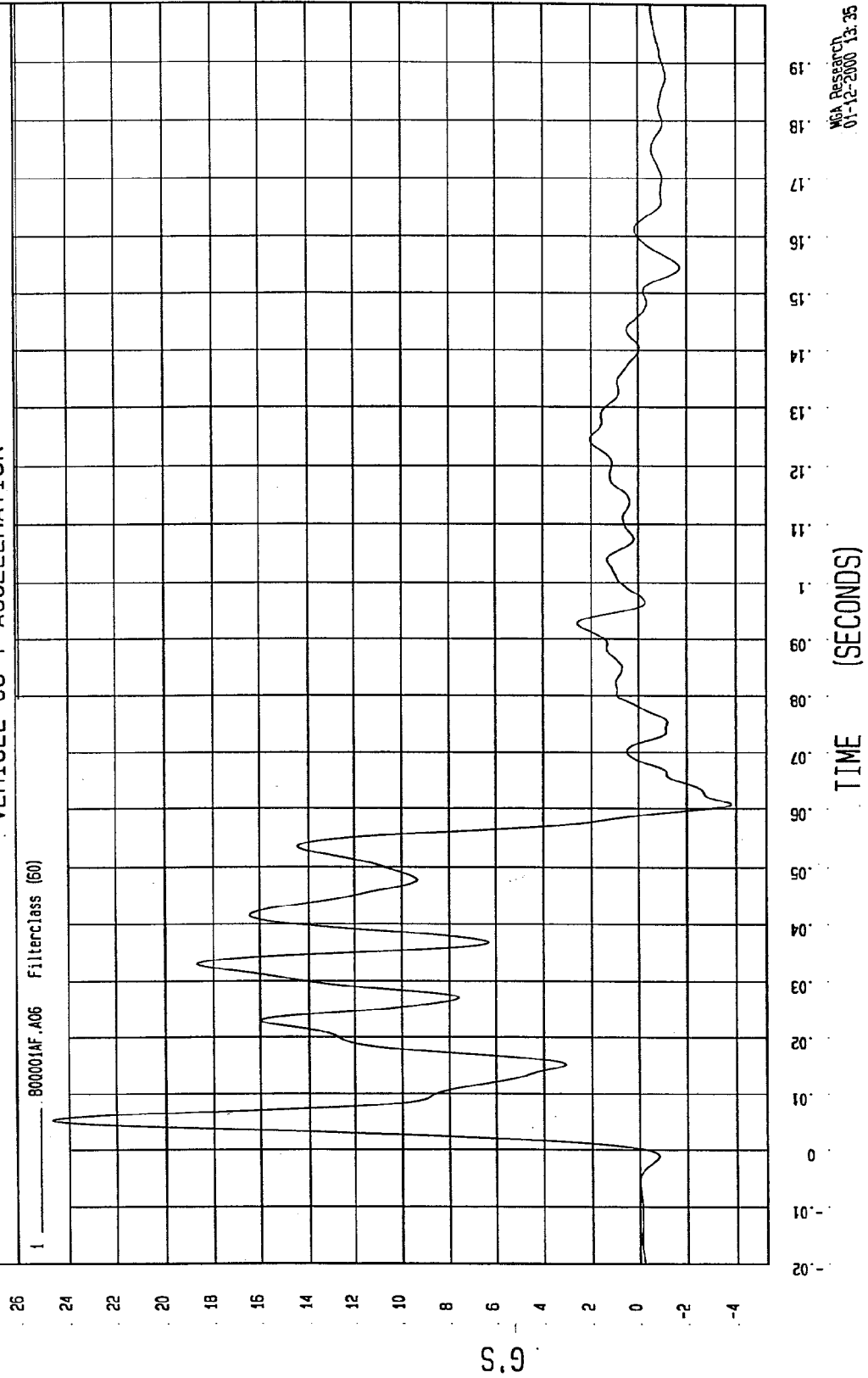
Speed: 38.2 MPH 61.5 KPH

COMPONENT: 2000 FORD TAURUS (MY0211)

Maximum = 24.7 G'S at 5 msec

Minimum = -3.8 G'S at 61 msec

VEHICLE CG Y ACCELERATION

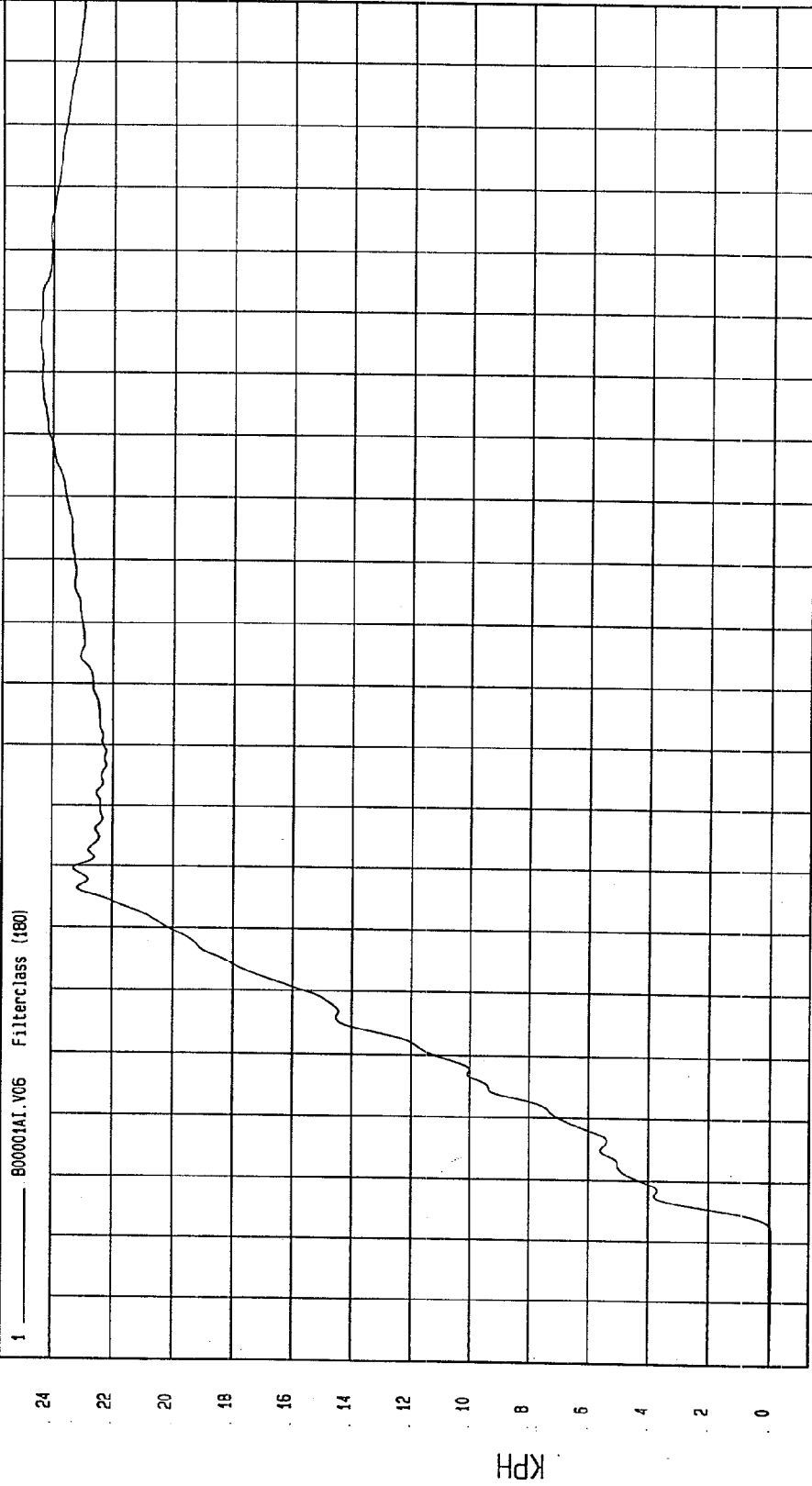


TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -5.89E-02 KPH at -6 msec Maximum = 24.43 KPH at 145 msec

VEHICLE CG Y VELOCITY

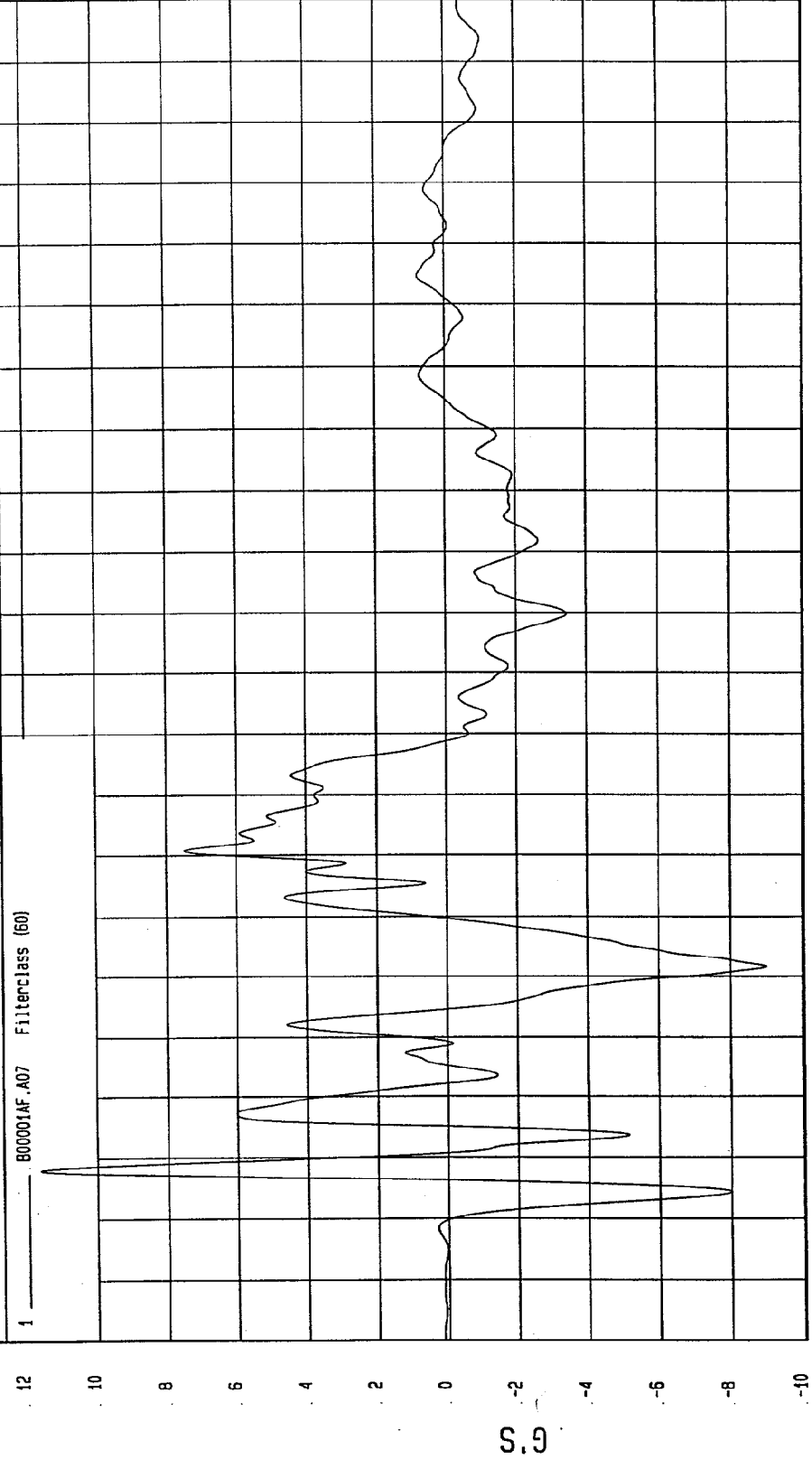


TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -9 G'S at 42 msec Maximum = 11.59 G'S at 8 msec

VEHICLE CG Z ACCELERATION



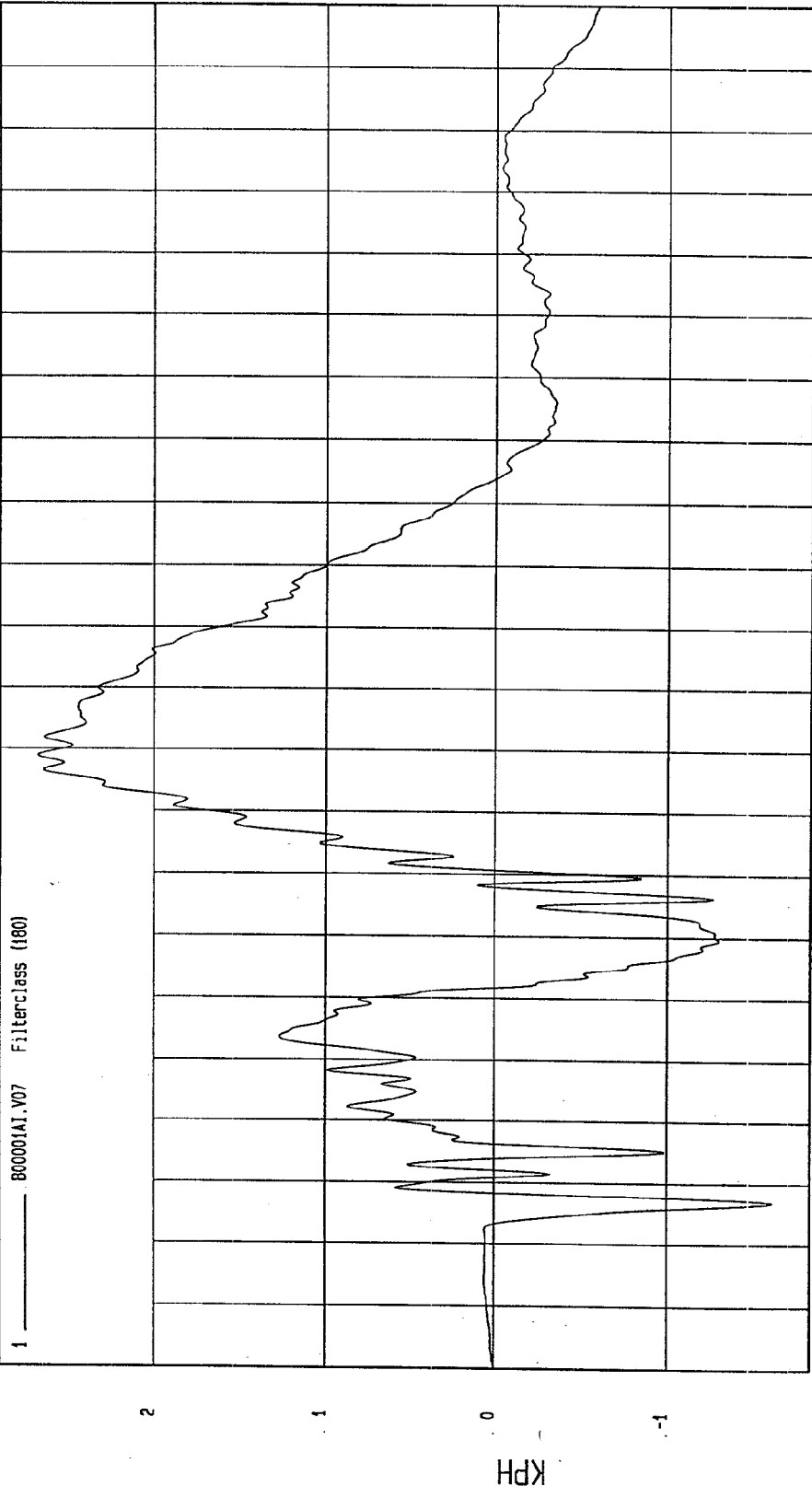
MCA Research
01-12-2000 13:35

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -1.61 KPH at 7 msec Maximum = 2.67 KPH at 79 msec

VEHICLE CG Z VELOCITY

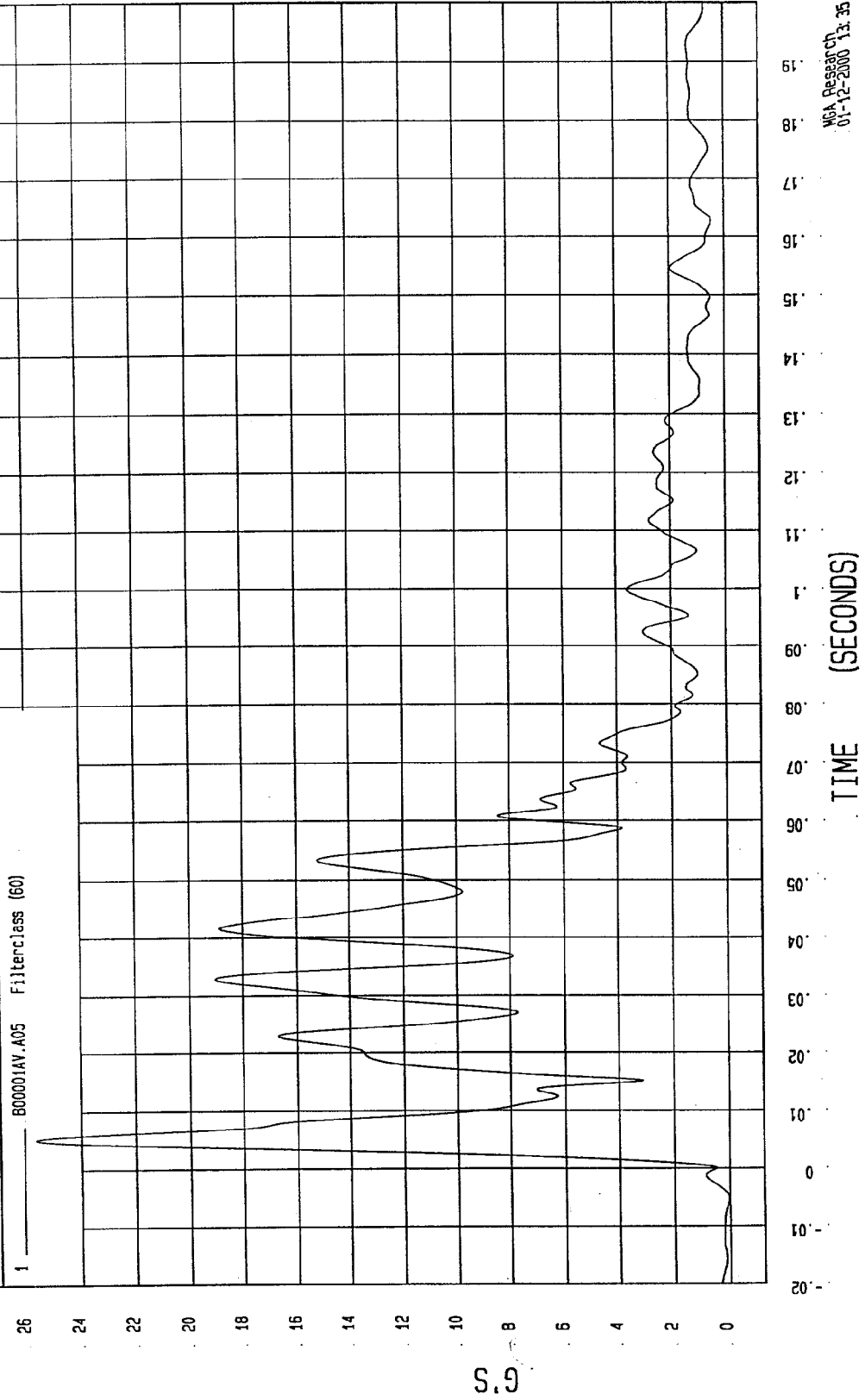


TIME Seconds

WCA Research
01-12-2000 13:35

TEST: NCAP SIDE IMPACT
TEST DATE: 01-05-2000
COMPONENT: 2000 FORD TAURUS (MY0211)
Speed: 38.2 MPH 61.5 KPH
Minimum = 4.26E-02 G'S at -5 msec
Maximum = 25.66 G'S at 5 msec

VEHICLE CG RESULTANT ACCELERATION



NSA Research
01-12-2000 13:35

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

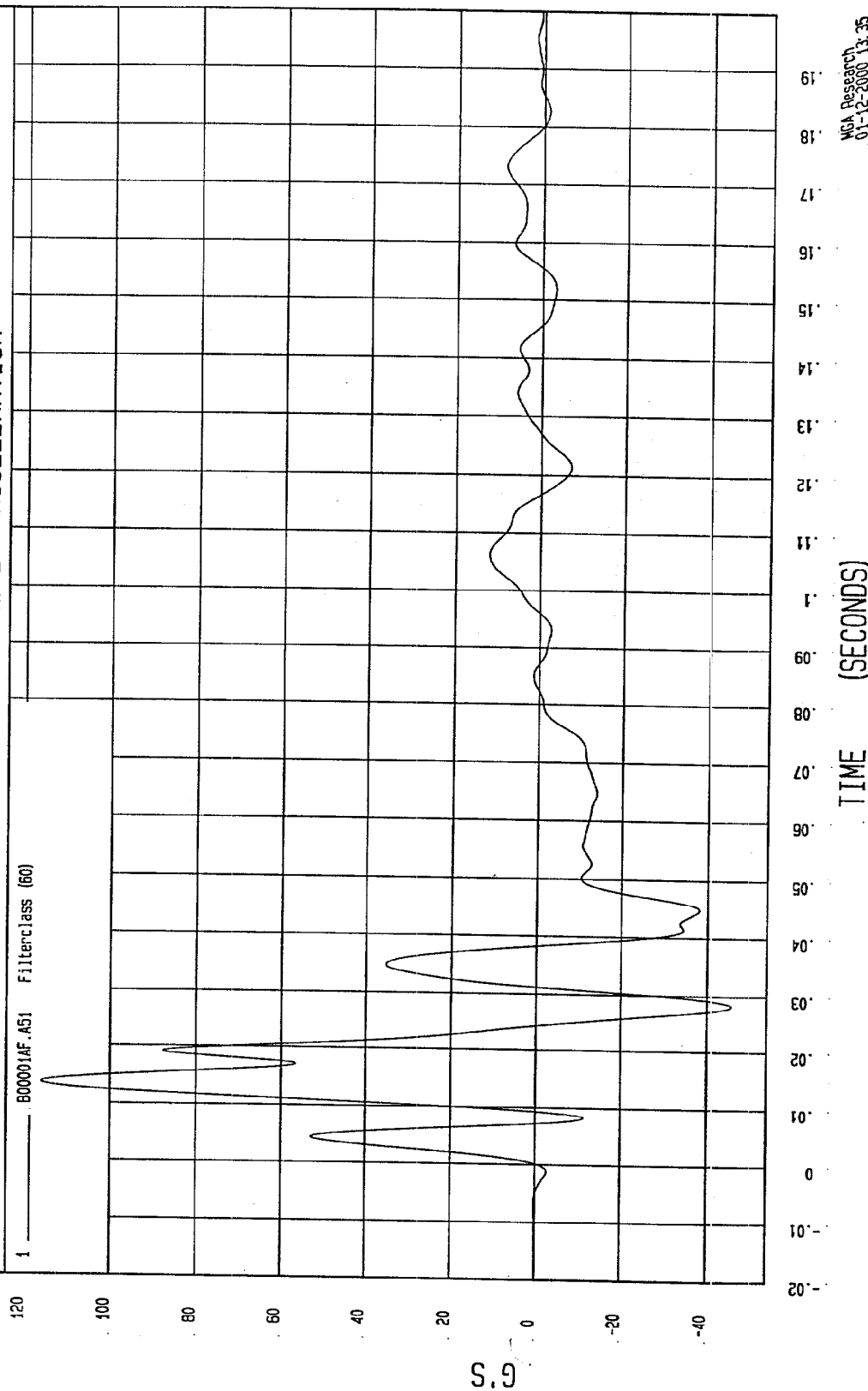
Speed: 38.2 MPH 61.5 KPH

Minimum = -45.55 G'S at 28 msec

Maximum = 116.08 G'S at 14 msec

LEFT FRONT DOOR CENTERLINE Y ACCELERATION

1 _____ B00001AF.A51 Filterclass (60)

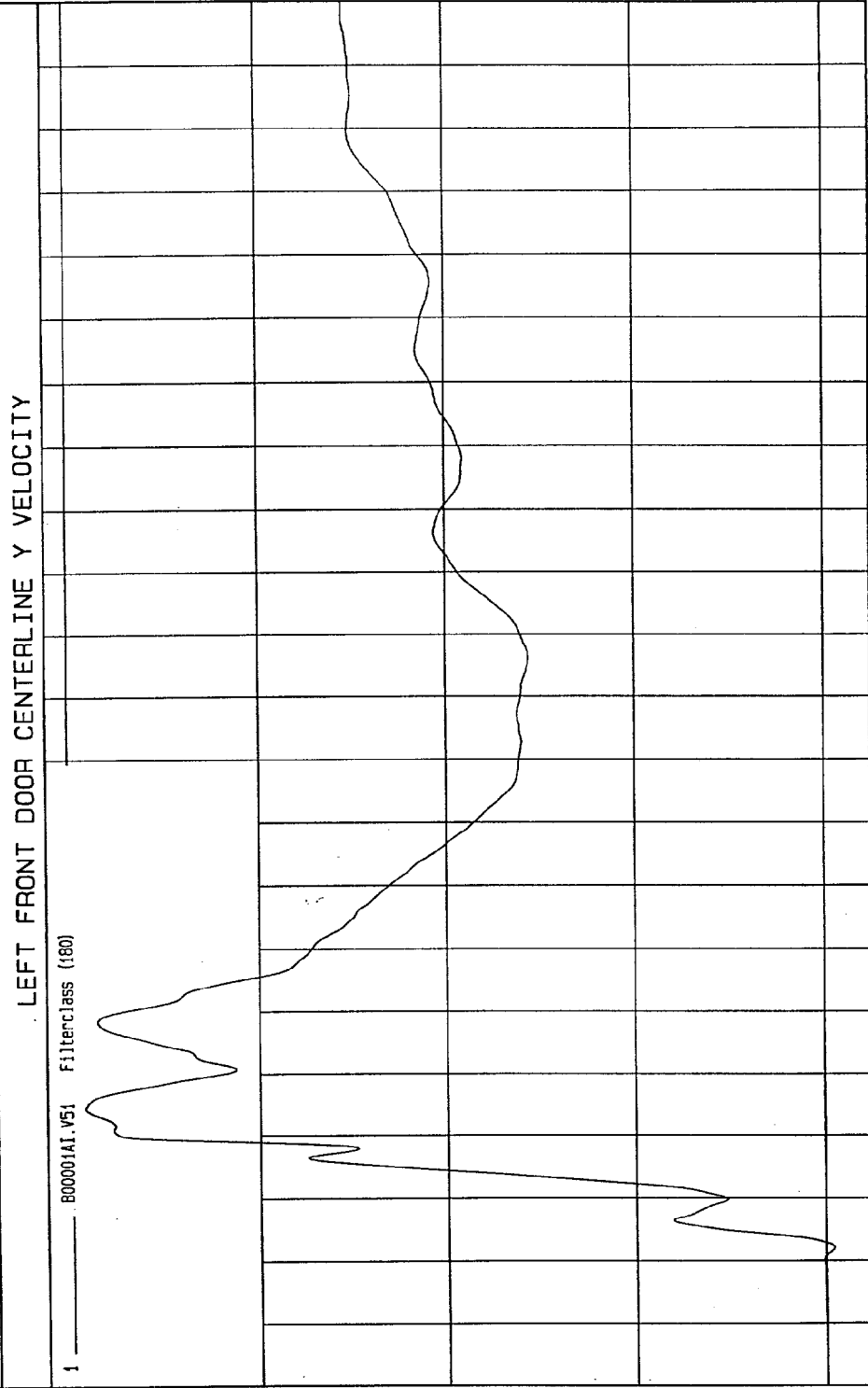


MGA Research
01-12-2000 13:35

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -44 KPH at 2 msec Maximum = 39.16 KPH at 24 msec



TIME Seconds

0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02

40
30
20
10
0

KPH

WCA Research
01-12-2000 13:35

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

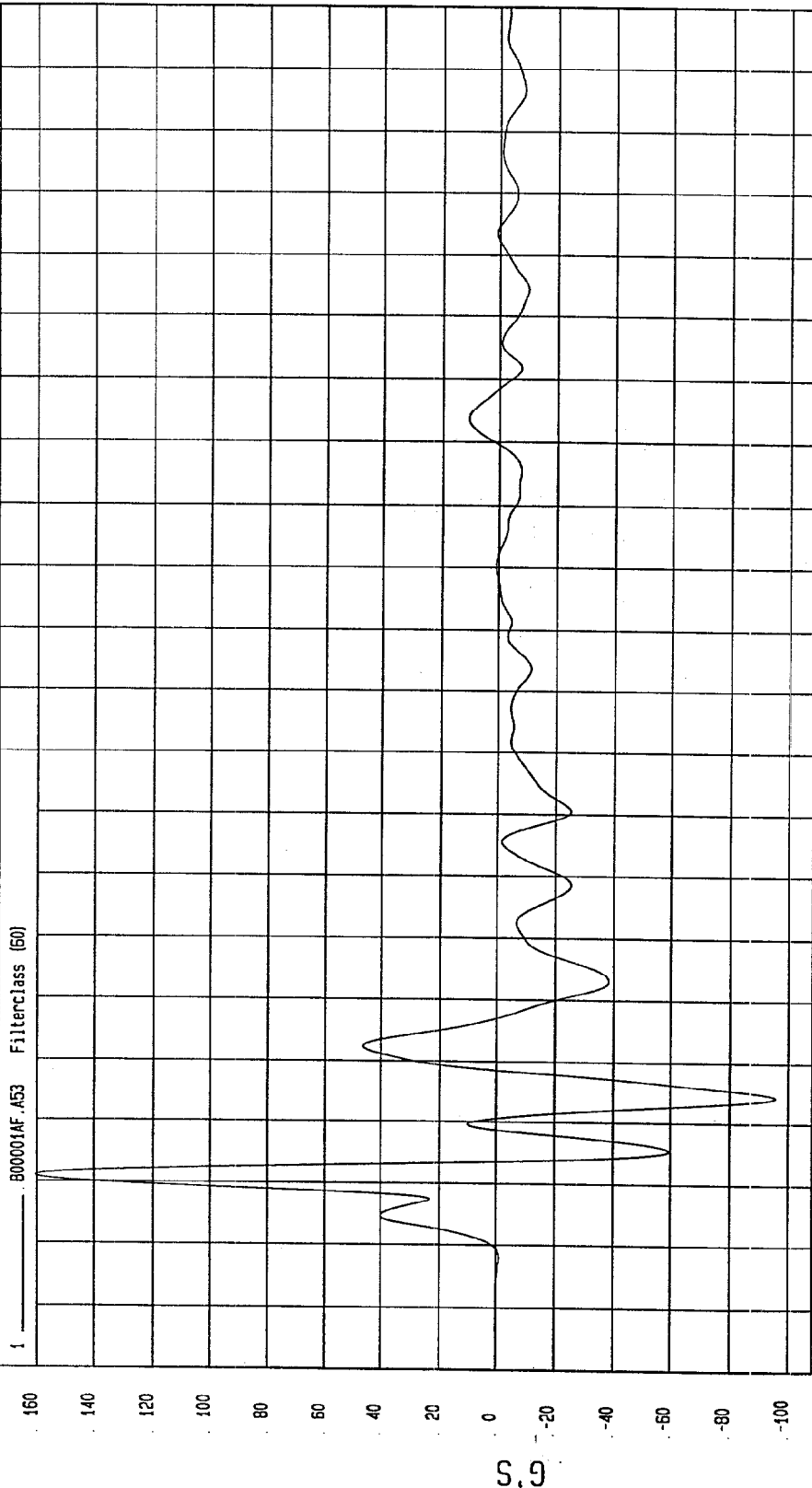
Speed: 38.2 MPH 61.5 KPH

COMPONENT: 2000 FORD TAURUS (MY0211)

Maximum = 160.36 G'S at 11 msec

Minimum = -95.58 G'S at 24 msec

LEFT FRONT DOOR UPPER CENTERLINE Y ACCELERATION



MGA Research
01-12-2000 13:35

TIME (SECONDS)

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

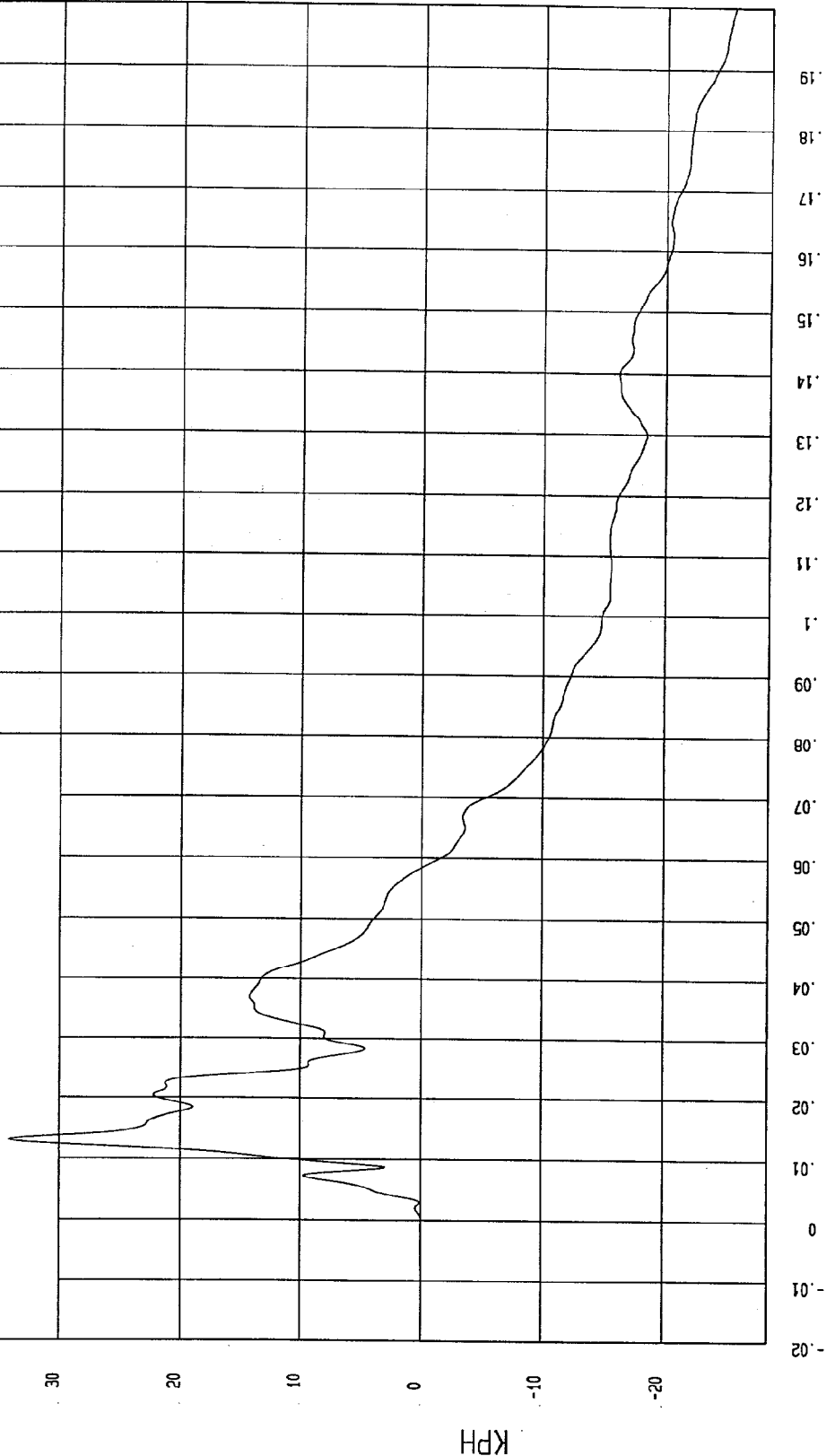
Speed: 38.2 MPH 61.5 KPH

Minimum = -25.58 KPH at 200 msec

Maximum = 34.16 KPH at 13 msec

LEFT FRONT DOOR UPPER CENTERLINE Y VELOCITY

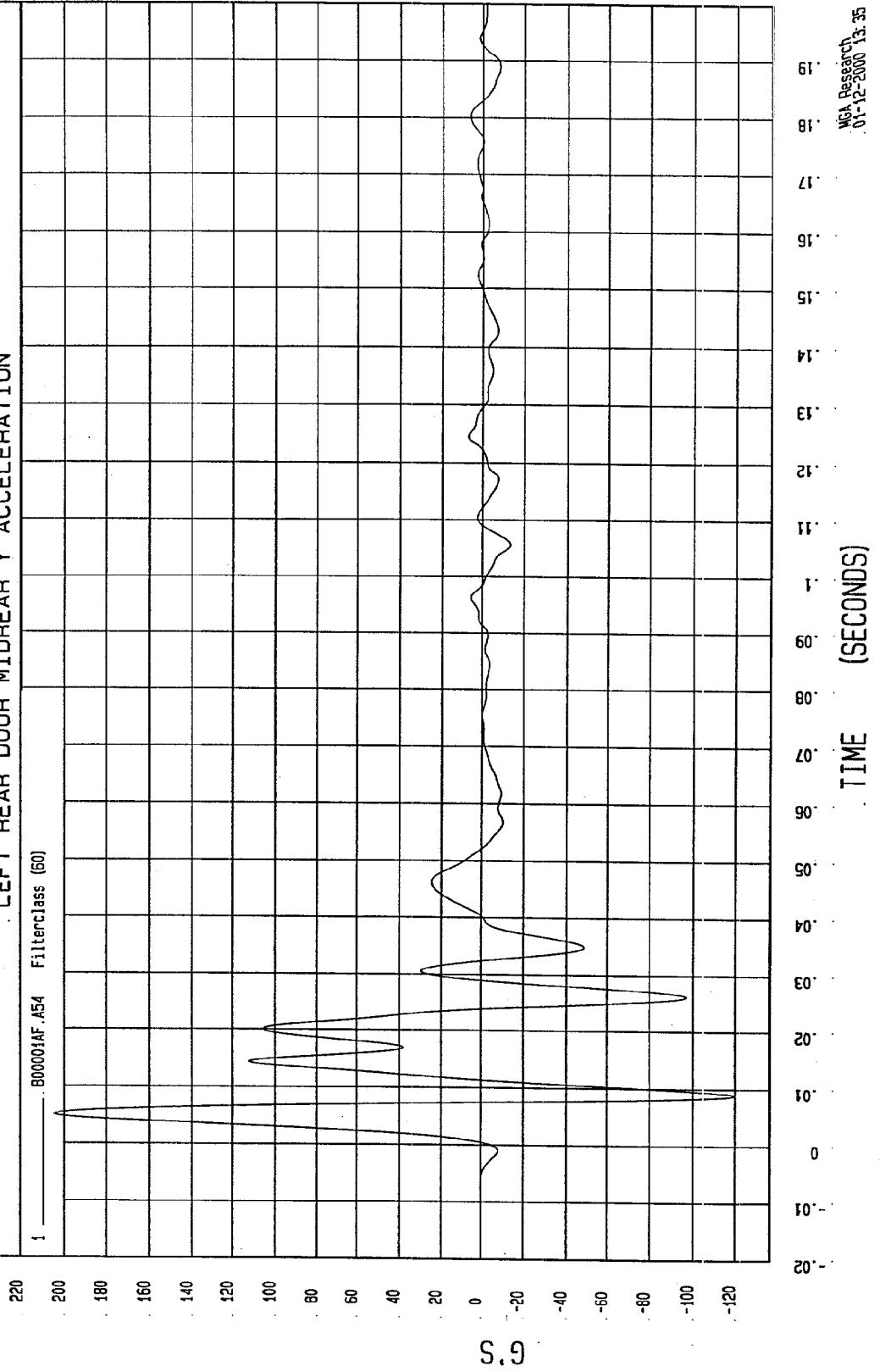
1 ——— 800001A1.V53 Filterclass (180)



NGA Research
03-24-2000 23:33

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000
COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH
Minimum = -120.03 G'S at 9 msec Maximum = 204.51 G'S at 5 msec

LEFT REAR DOOR MIDREAR Y ACCELERATION

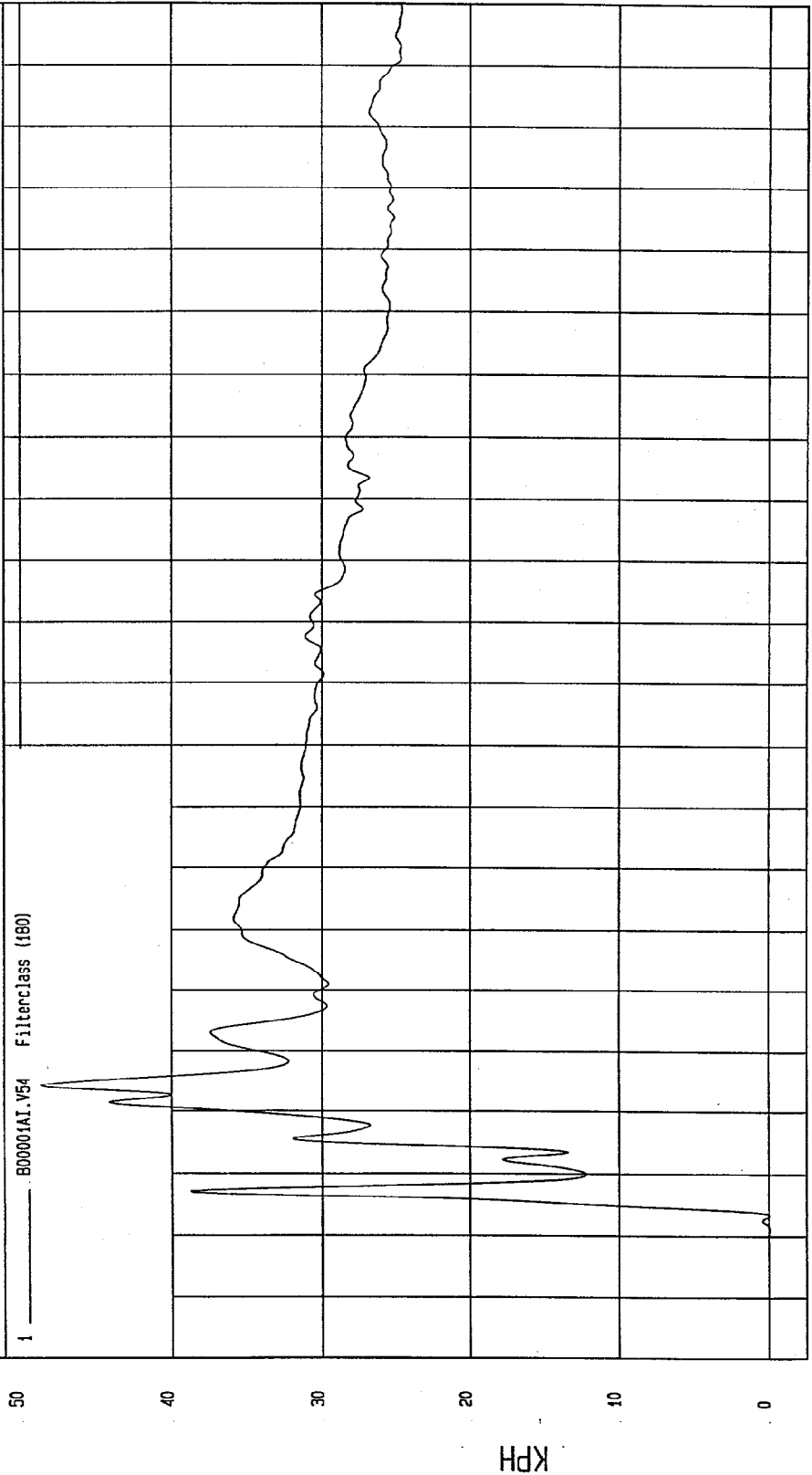


TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -9.28E-02 KPH at 1 msec Maximum = 48.66 KPH at 24 msec

LEFT REAR DOOR MIDREAR Y VELOCITY



TIME Seconds

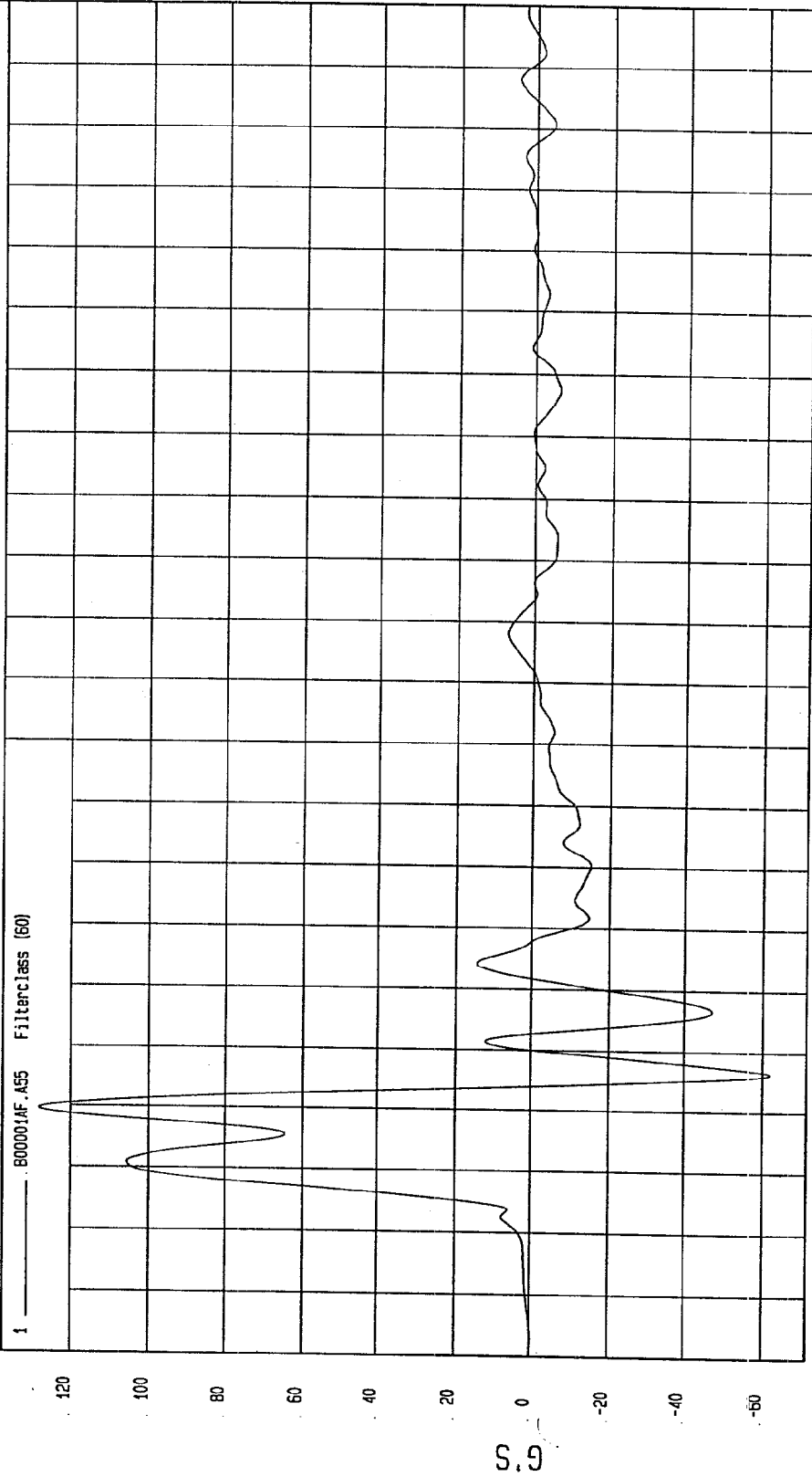
NSA Research
01-12-2000 13:35

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -61.99 G'S at 26 msec Maximum = 128.3 G'S at 20 msec

LEFT REAR DOOR UPPER CENTERLINE Y ACCELERATION



TIME (SECONDS)

0.19 0.18 0.17 0.16 0.15 0.14 0.13 0.12 0.11 0.10 0.09 0.08 0.07 0.06 0.05 0.04 0.03 0.02 0.01 0 -0.01 -0.02

NGA Research
01-12-2000 13:35

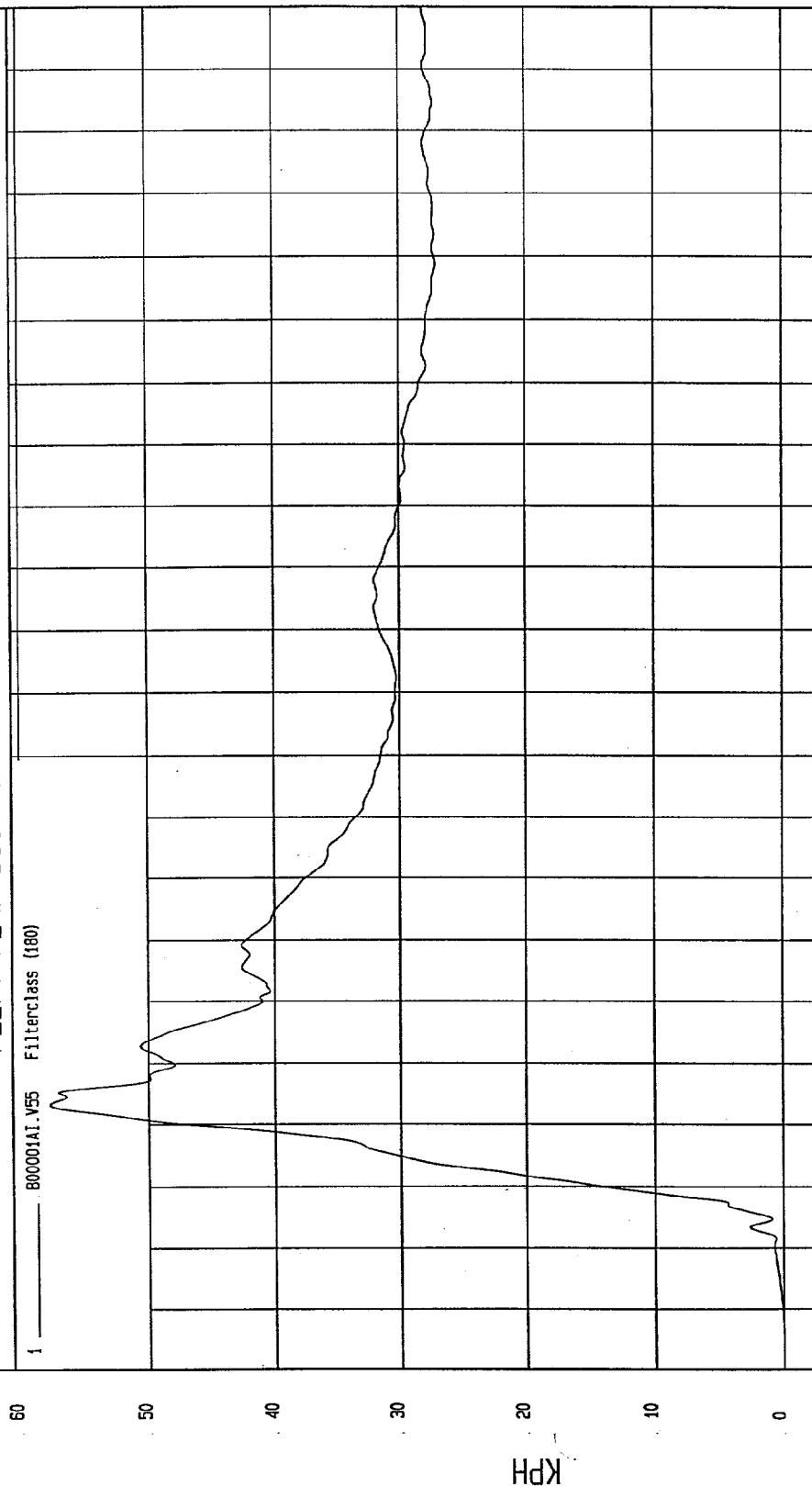
TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -.03 KPH at -15 msec Maximum = 57.69 KPH at 23 msec

LEFT REAR DOOR UPPER CENTERLINE Y VELOCITY

1 800001A1.V55 Filterclass (160)



NGA Research
01-12-2000 13:35

TIME Seconds

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

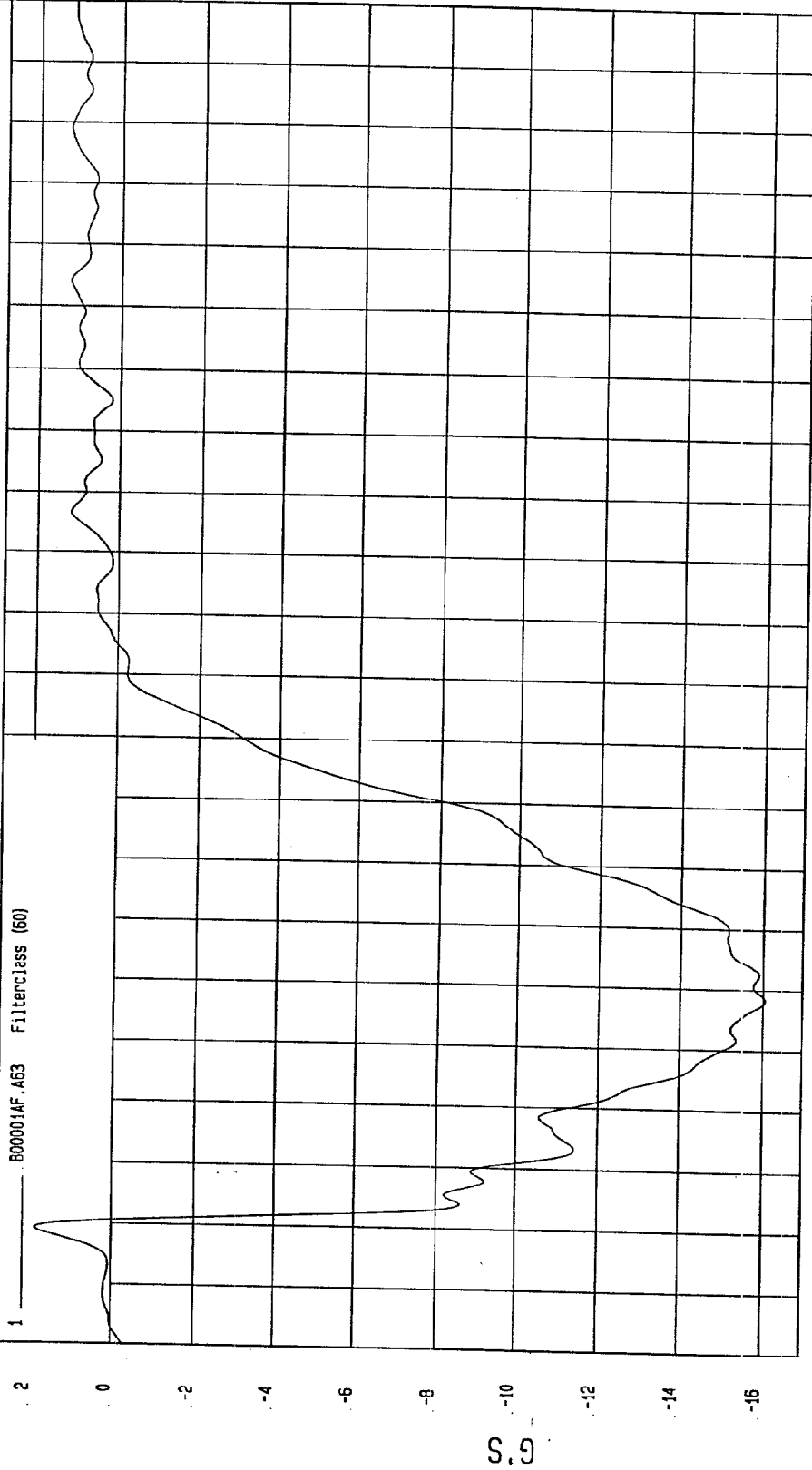
Speed: 38.2 MPH 61.5 KPH

Minimum = -16.05 G'S at 38 msec

Maximum = 1.88 G'S at -1 msec

MOVING BARRIER CG X ACCELERATION

1 800001AF.A63 Filterclass (60)



MECA Research
01-12-2000 13:35

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

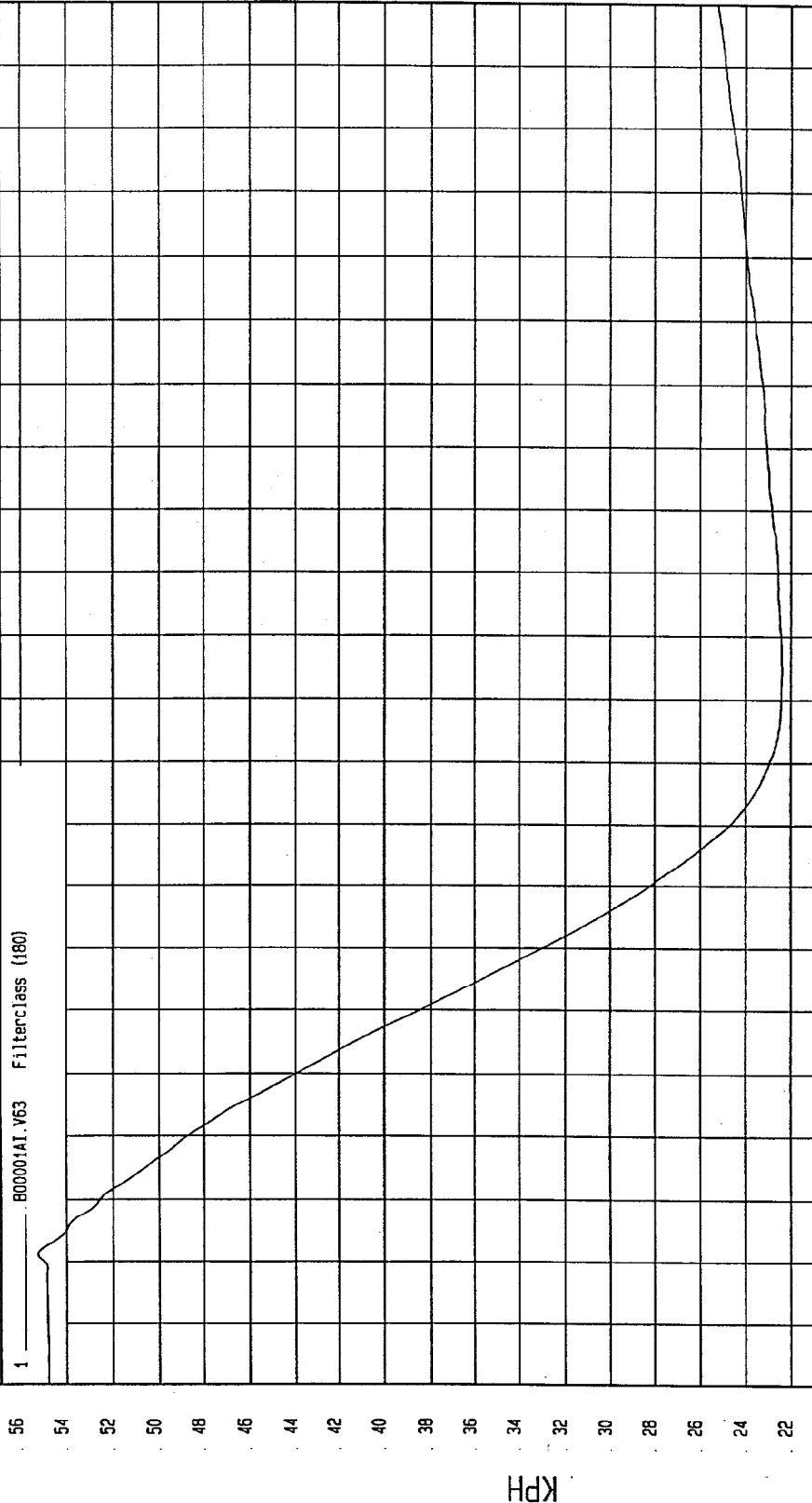
Speed: 38.2 MPH 61.5 KPH

Minimum = 22.37 KPH at 94 msec

Maximum = 55.26 KPH at 1 msec

MOVING BARRIER CG X VELOCITY

1 800001A1.V63 Filterclass (180)



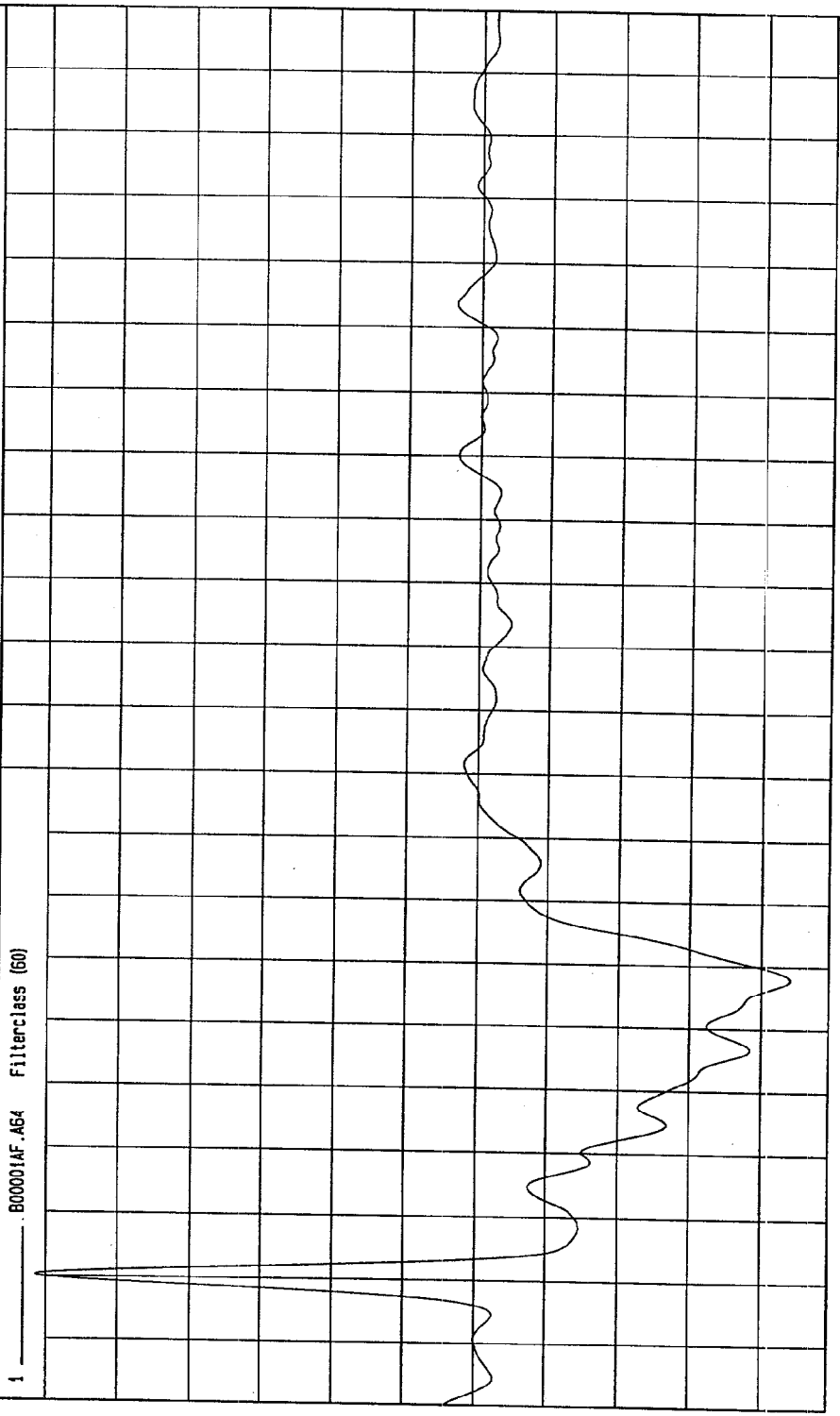
MCA Research
01-12-2000 13:35

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -9.8 G'S at 48 msec Maximum = 12.29 G'S at 0 msec

MOVING BARRIER CG Y ACCELERATION



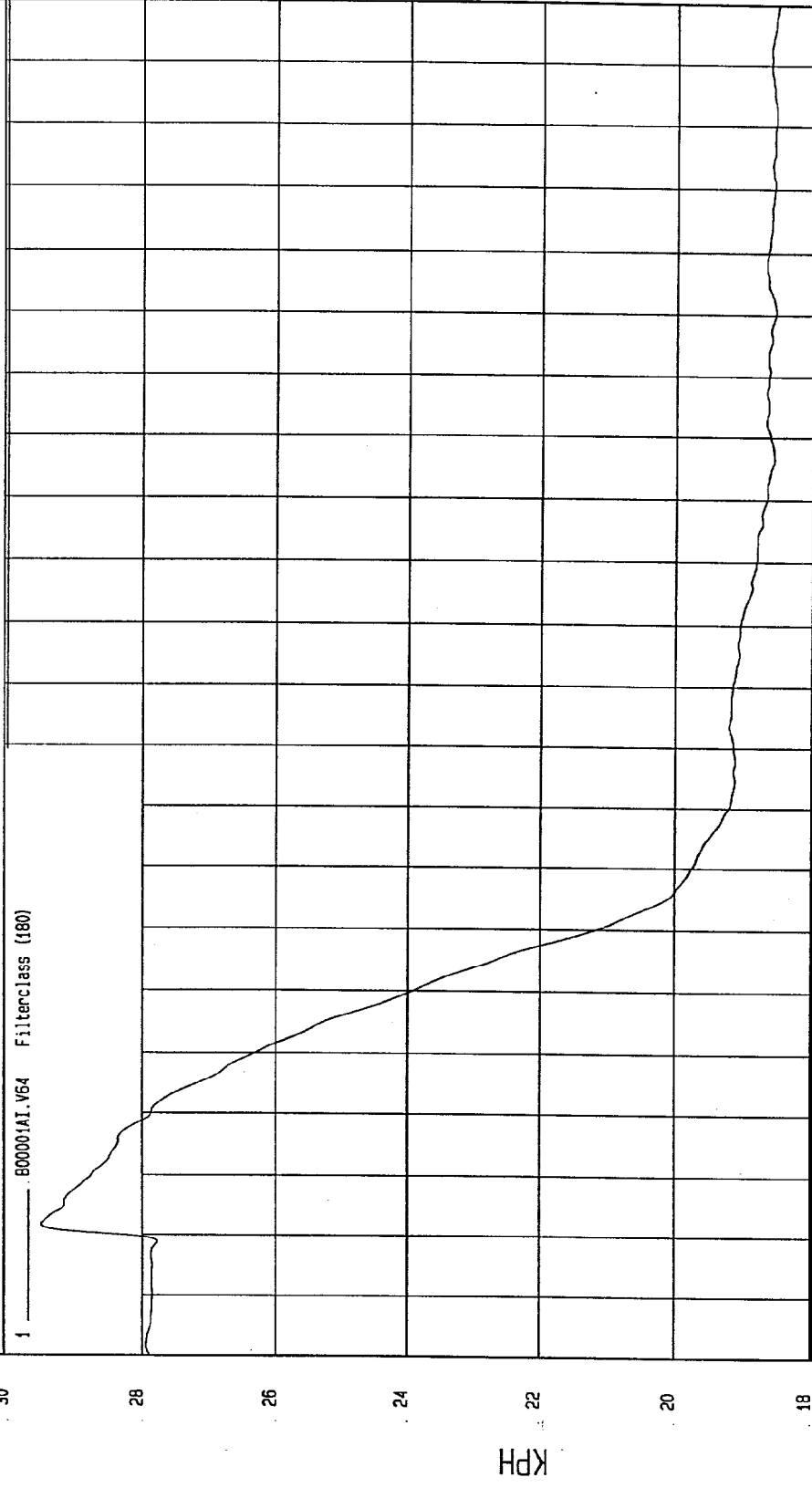
WCA Research
01-12-2000 13:35

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = 18.52 KPH at 200 msec Maximum = 29.51 KPH at 2 msec

MOVING BARRIER CG Y VELOCITY



TIME Seconds

19
18
17
16
15
14
13
12
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08
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06
05
04
03
02
01
0
-01
-02

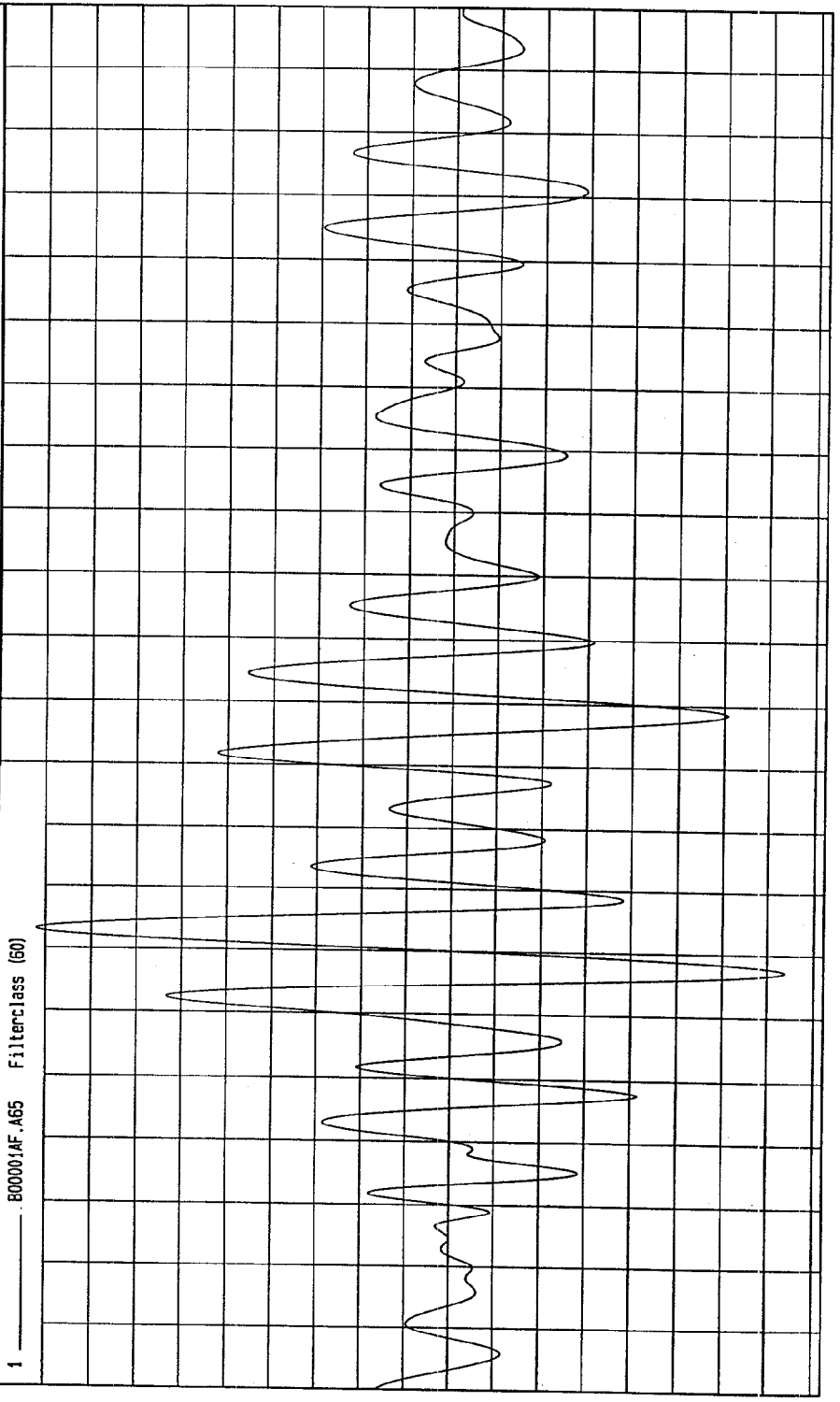
MEA Research
01-12-2000 13:35

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -14.75 G'S at 47 msec Maximum = 18.39 G'S at 53 msec

MOVING BARRIER CG Z ACCELERATION



TIME (SECONDS)

WCA Research
01-12-2000 13:35

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

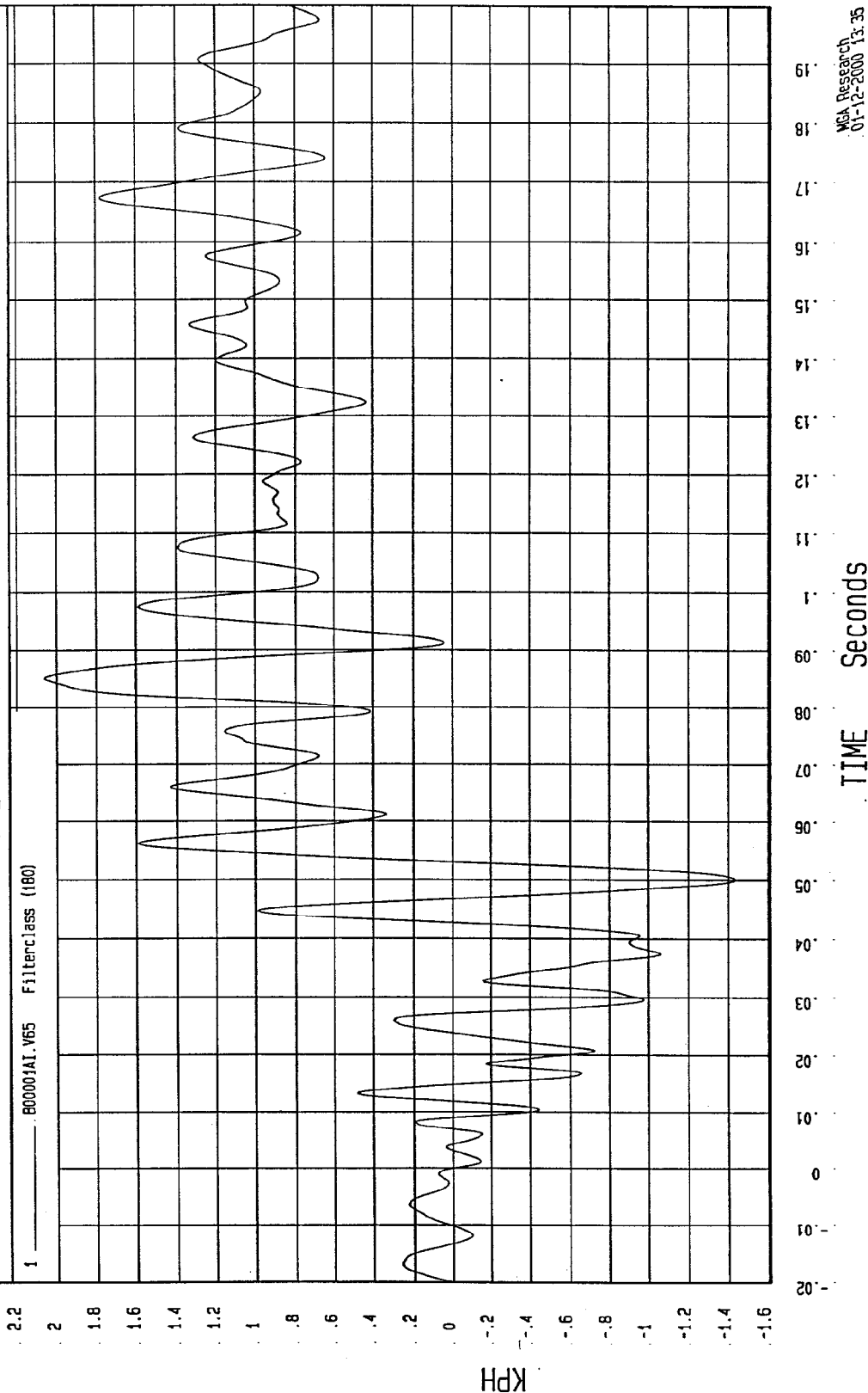
Speed: 38.2 MPH 61.5 KPH

COMPONENT: 2000 FORD TAURUS (MY0211)

Minimum = -1.44 KPH at 50 msec

Maximum = 2.06 KPH at 85 msec

MOVING BARRIER CG Z VELOCITY



MCA Research
01-12-2000 13:35

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

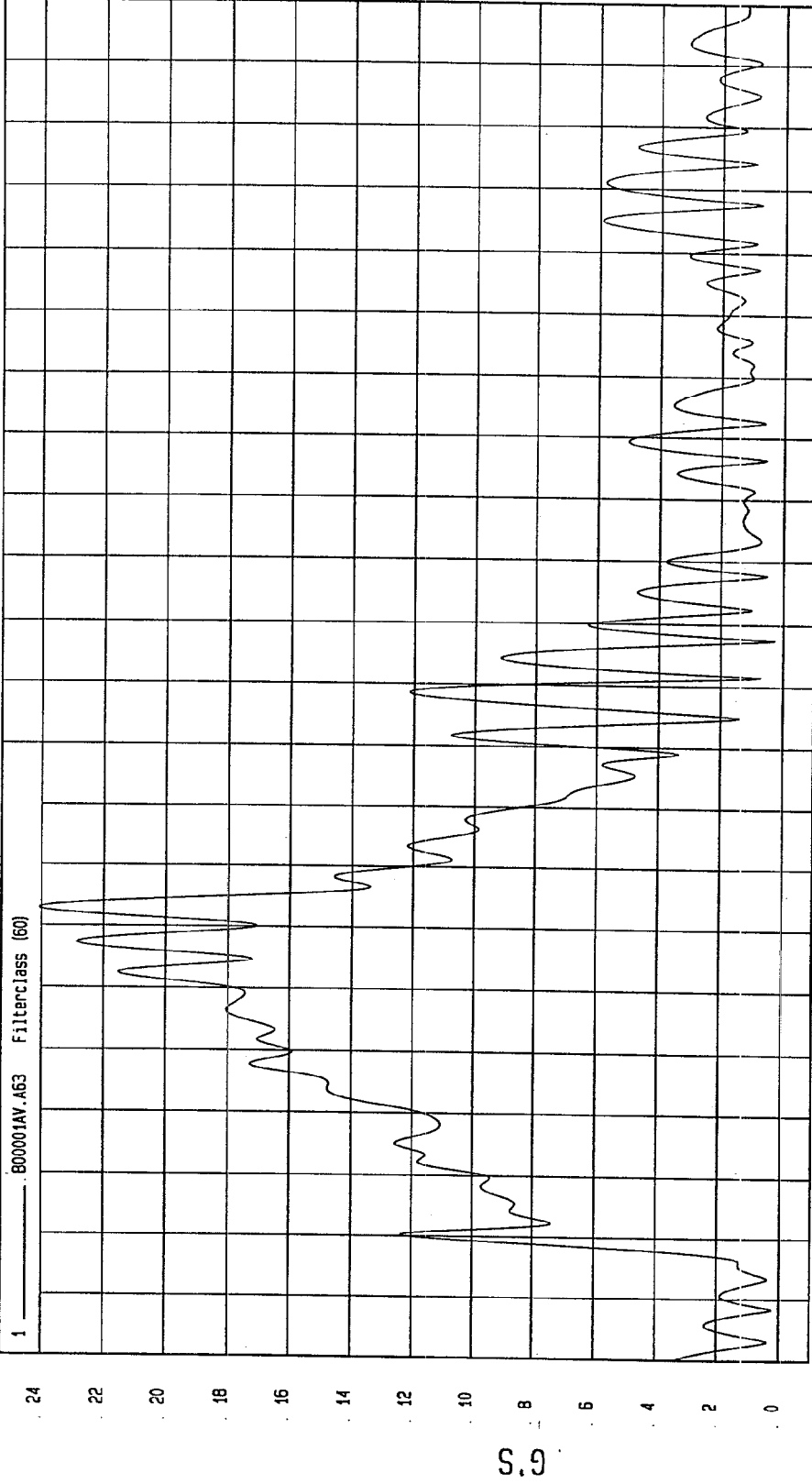
Speed: 38.2 MPH 61.5 KPH

COMPONENT: 2000 FORD TAURUS (MY0211)

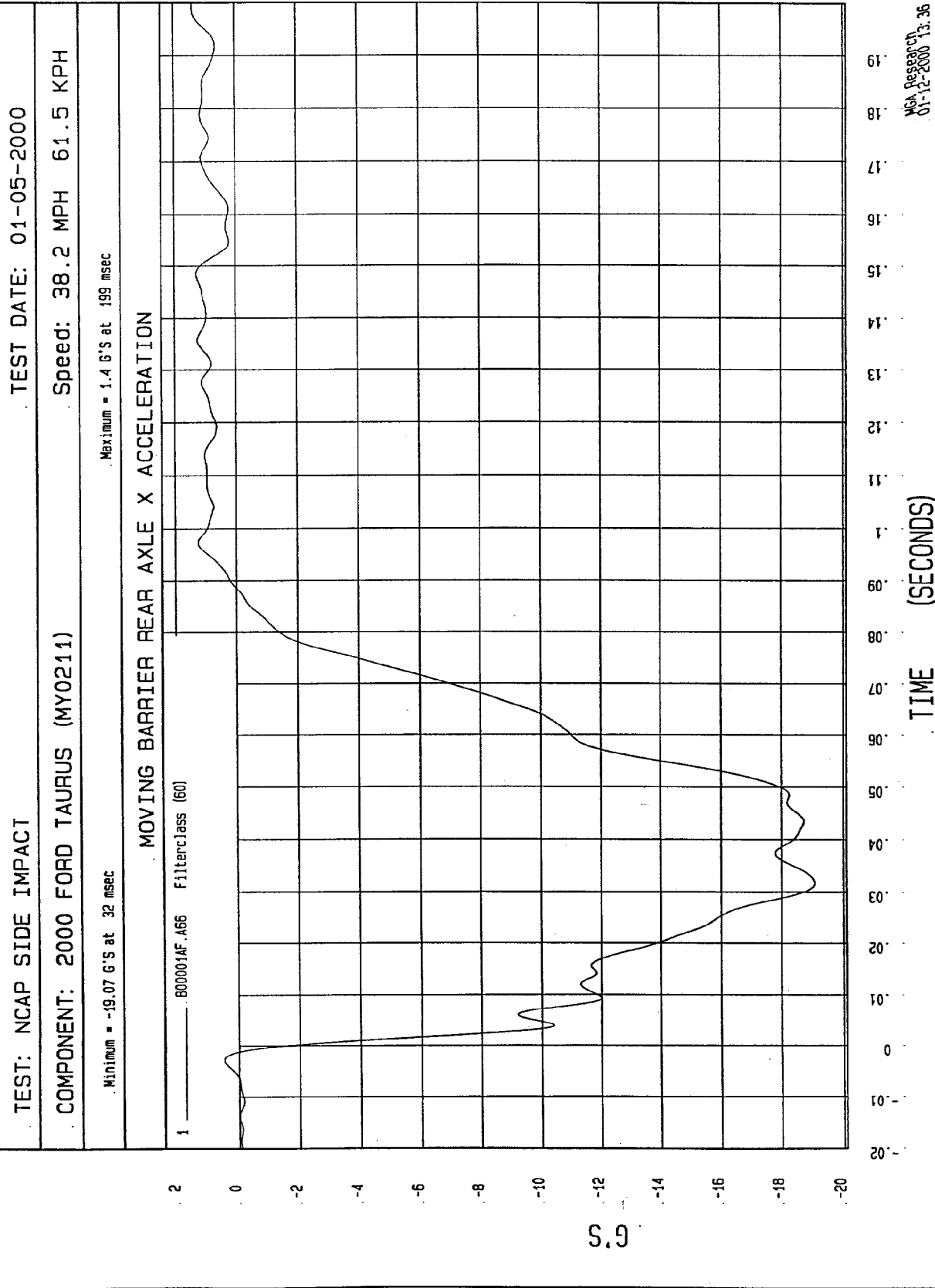
Minimum = .21 G'S at -12 msec

Maximum = 24.09 G'S at 53 msec

MOVING BARRIER CG RESULTANT ACCELERATION



WGA Research
01-12-2000 13:35



TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

Speed: 38.2 MPH 61.5 KPH

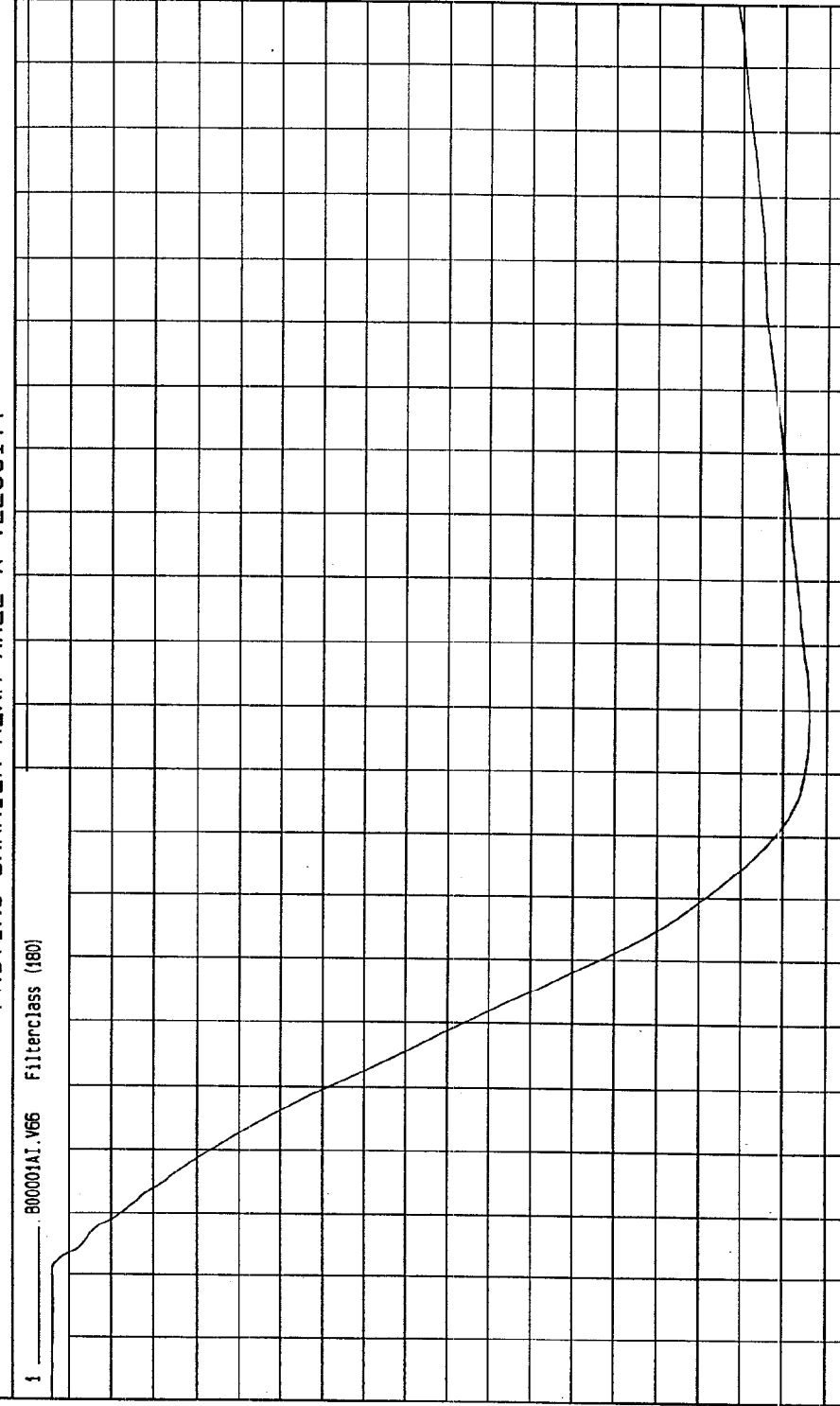
Minimum = 18.79 KPH at 88 msec

Maximum = 54.8 KPH at -18 msec

MOVING BARRIER REAR AXLE X VELOCITY

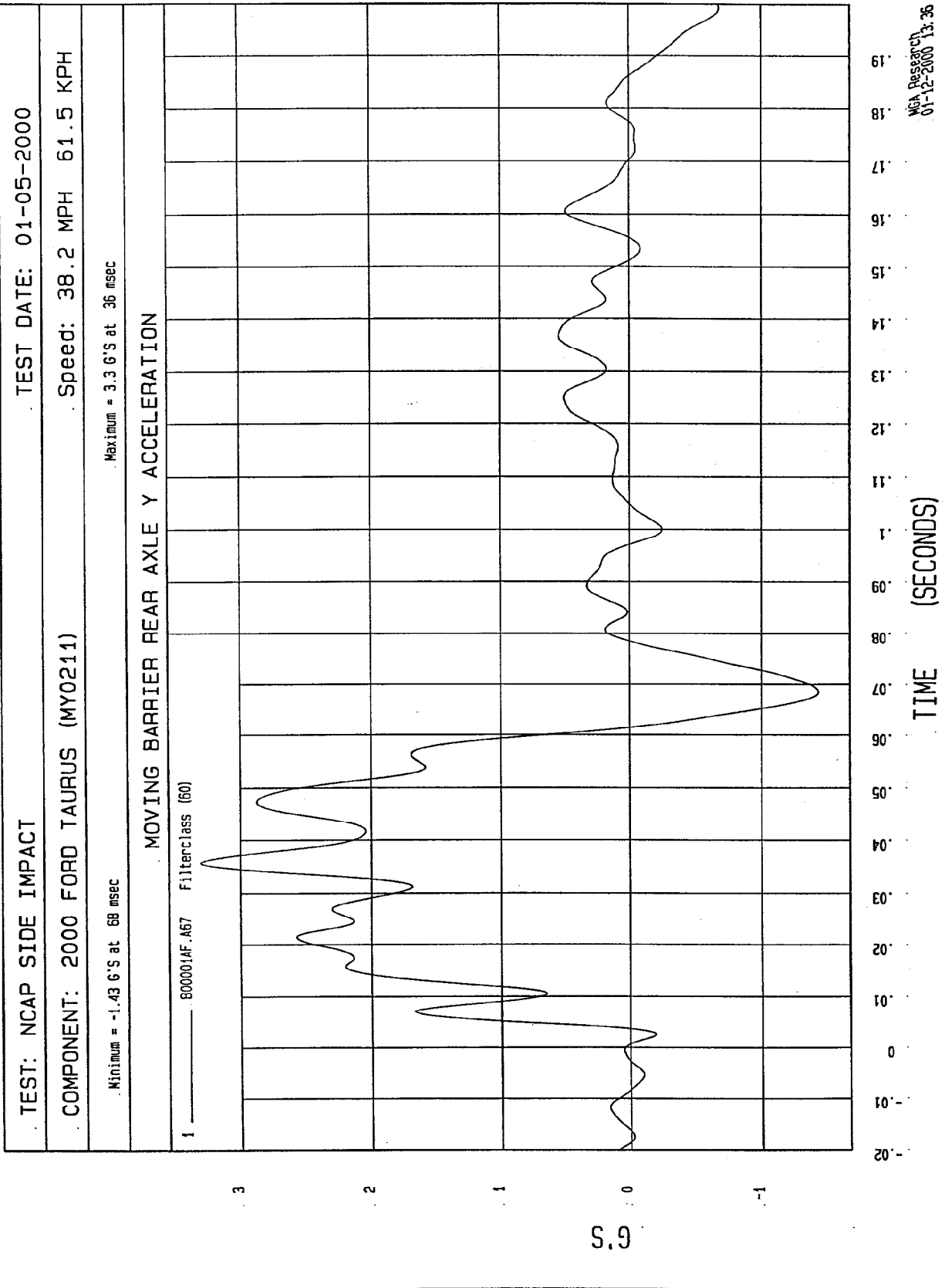
1 800001A1.V66 FilterClass (180)

KPH



TIME Seconds

WCA Research
01-12-2000 13:35



TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

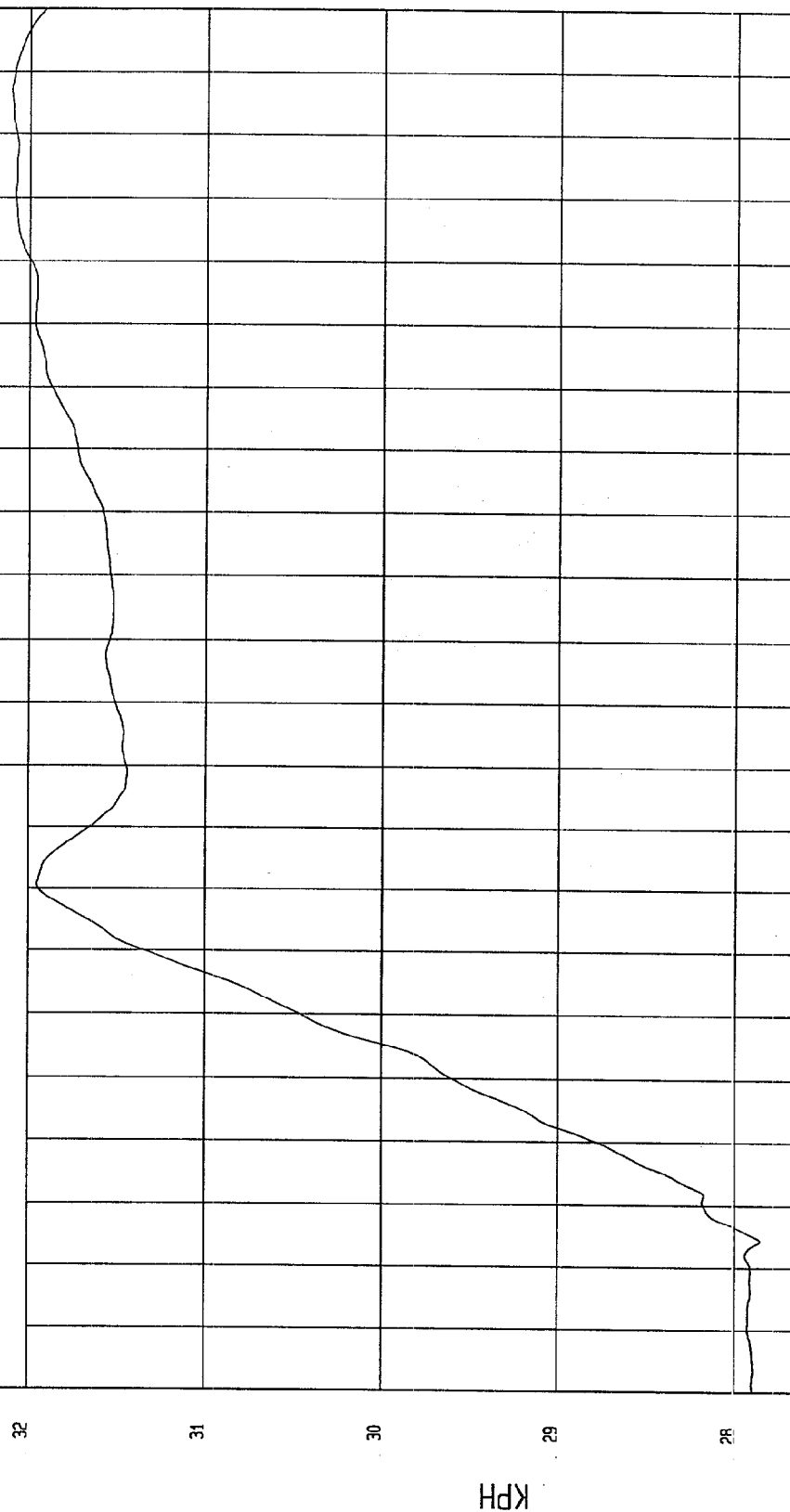
Speed: 38.2 MPH 61.5 KPH

Minimum = 27.86 KPH at 4 msec

Maximum = 32.1 KPH at 197 msec

MOVING BARRIER REAR AXLE Y VELOCITY

1 800001AI.V67 Filterclass (180)



TIME Seconds

WCA Research
01-20-2000 10:28

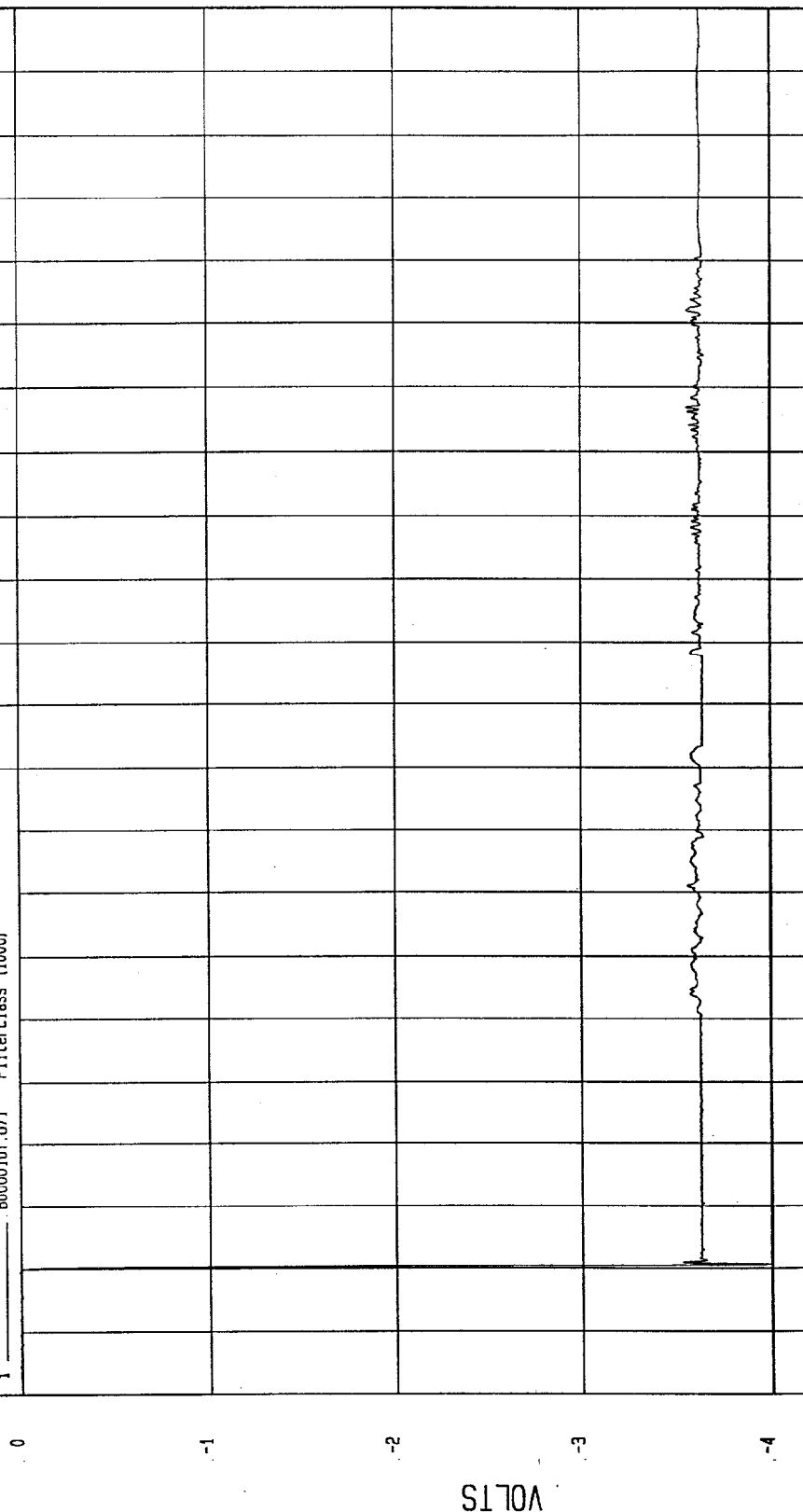
TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -3.99 VOLTS at 1 msec Maximum = 9.21E-03 VOLTS at -16 msec

LEFT BARRIER CONTACT

1 8000010T.071 FilterClass (1000)



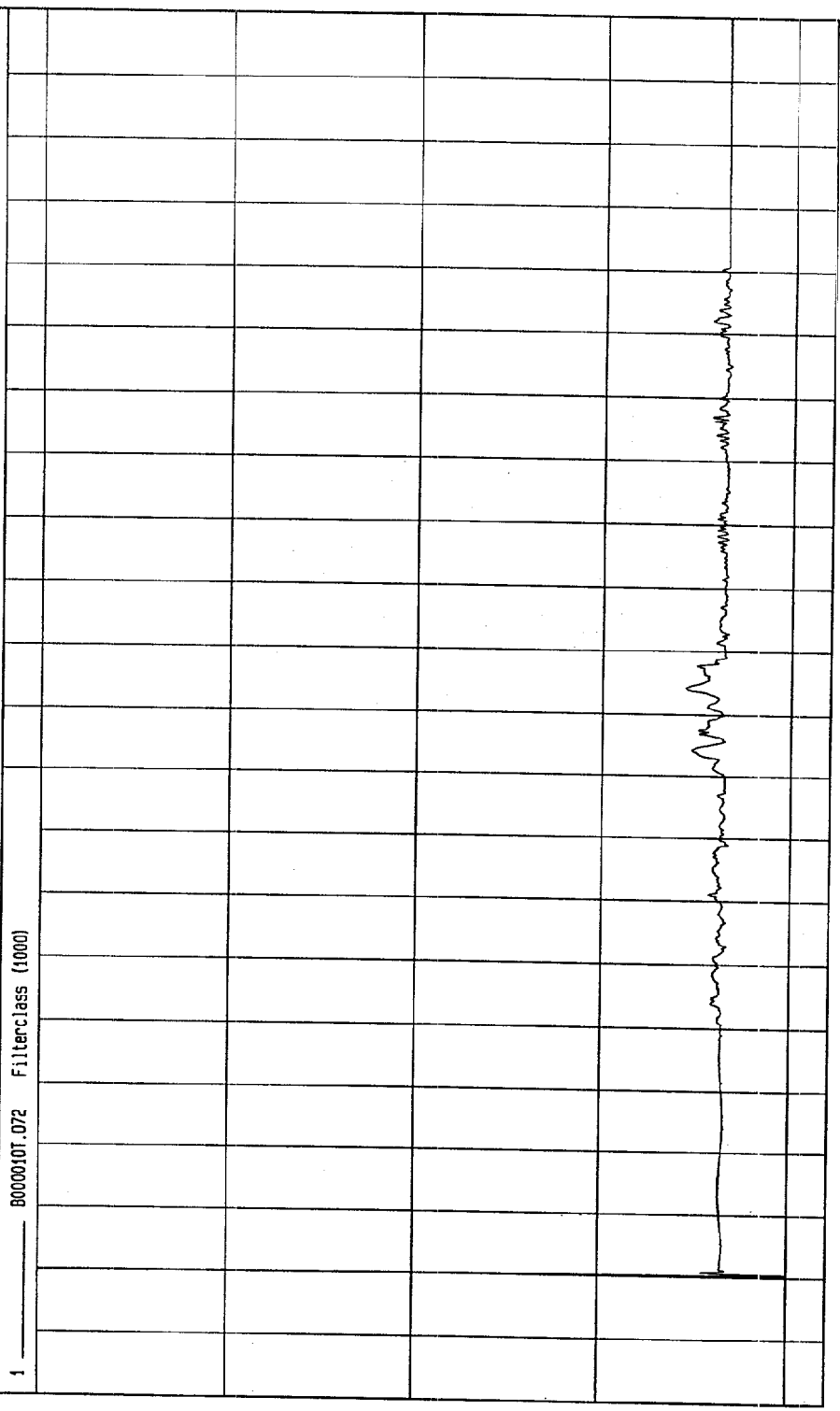
NSA Research
01-12-2000 13:36

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -4 VOLTS at 0 msec Maximum = 3.26E-03 VOLTS at -17 msec

RIGHT BARRIER CONTACT



TIME (SECONDS)

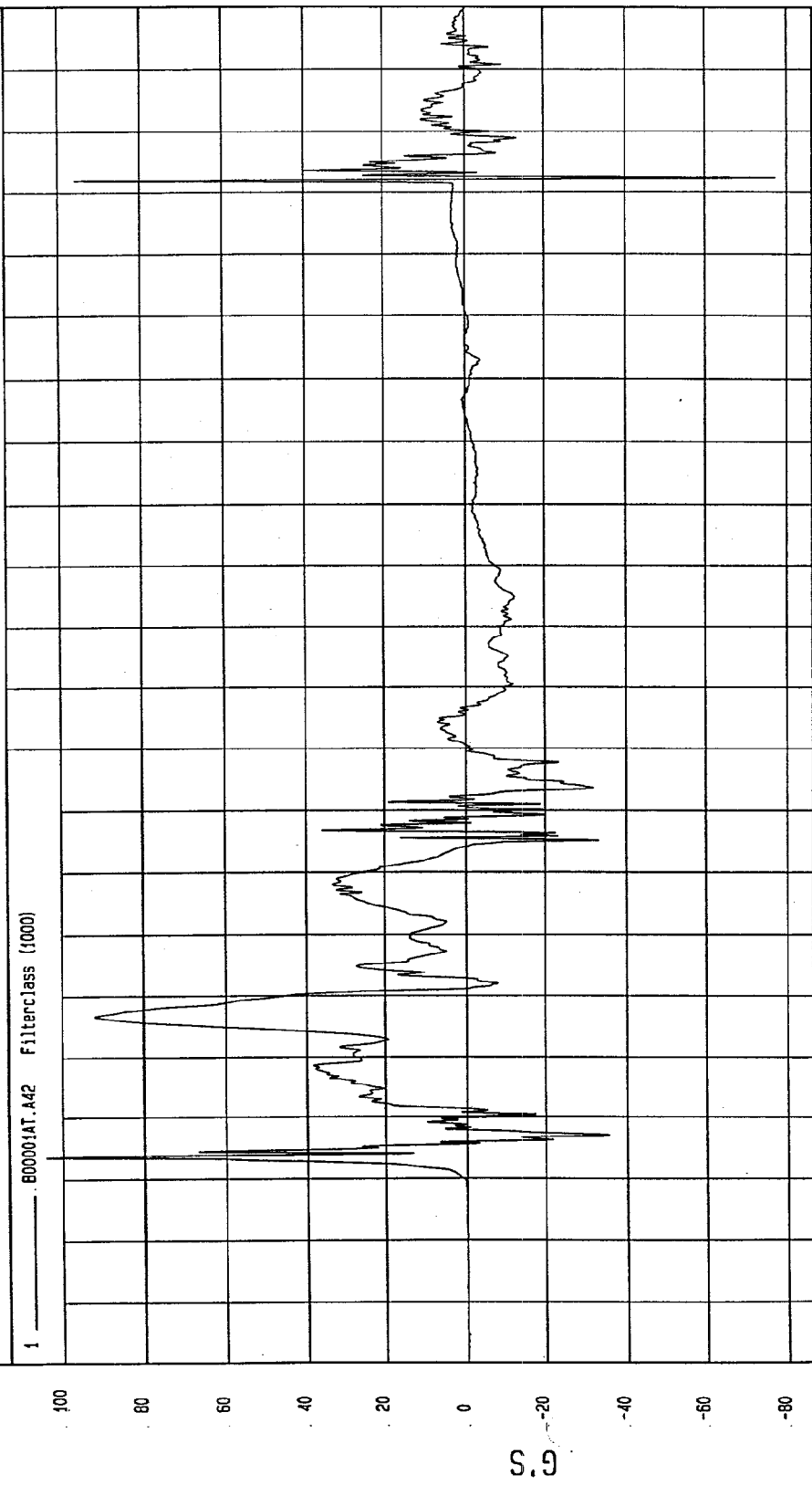
WGA Research
01-12-2000 13:36

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -77.24 G'S at 173 msec Maximum = 104.05 G'S at 14 msec

DRIVER UPPER RIB Y REDUNDANT ACCELERATION

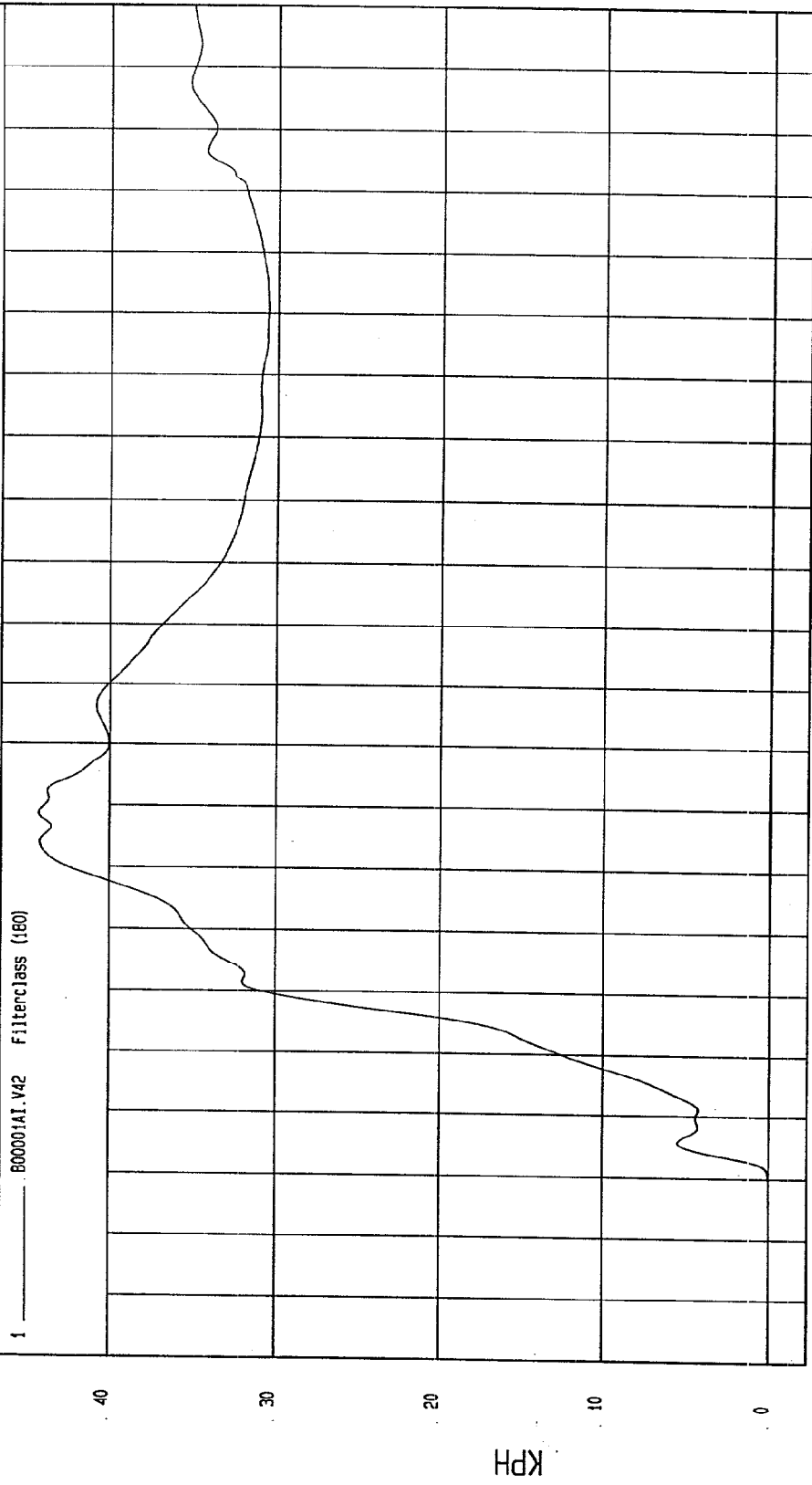


TIME (SECONDS)

MOA Research
01-12-2000 13:37

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000
COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH
Minimum = -2.40E-03 KPH at -15 msec Maximum = 44.26 KPH at 69 msec

DRIVER UPPER RIB Y REDUNDANT VELOCITY



TIME Seconds

MCA Research
01-12-2000 13:37

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

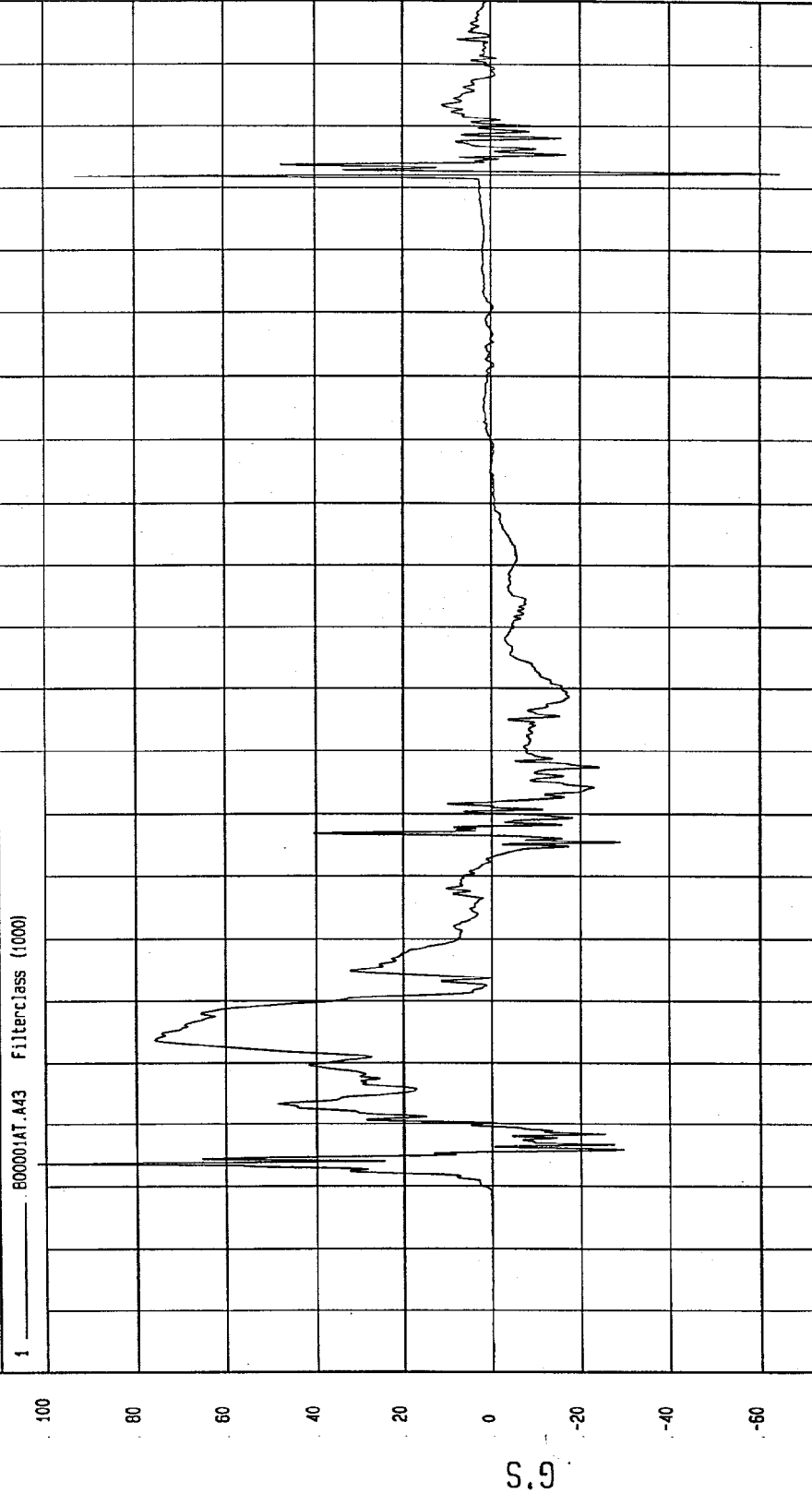
Speed: 38.2 MPH 61.5 KPH

COMPONENT: 2000 FORD TAURUS (MY0211)

Maximum = 101.94 G'S at 14 msec

Minimum = -64.22 G'S at 173 msec

DRIVER LOWER RIB Y REDUNDANT ACCELERATION



MSA Research
01-12-2000 13:37

TIME (SECONDS)

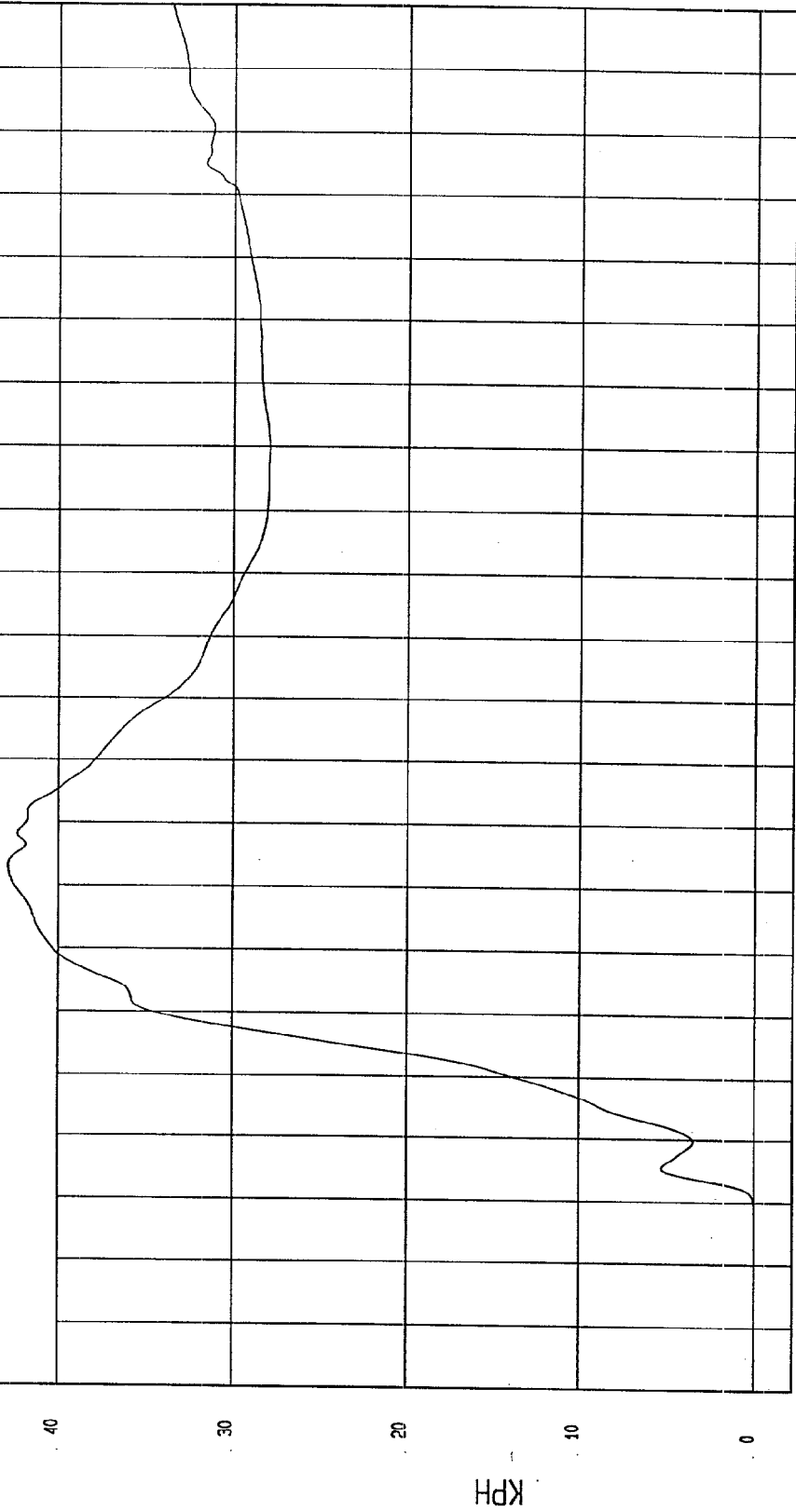
TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -7.48E-03 KPH at 2 msec Maximum = 42.86 KPH at 63 msec

DRIVER LOWER RIB Y REDUNDANT VELOCITY

1 _____ 800001A1.V43 Filterclass (180)

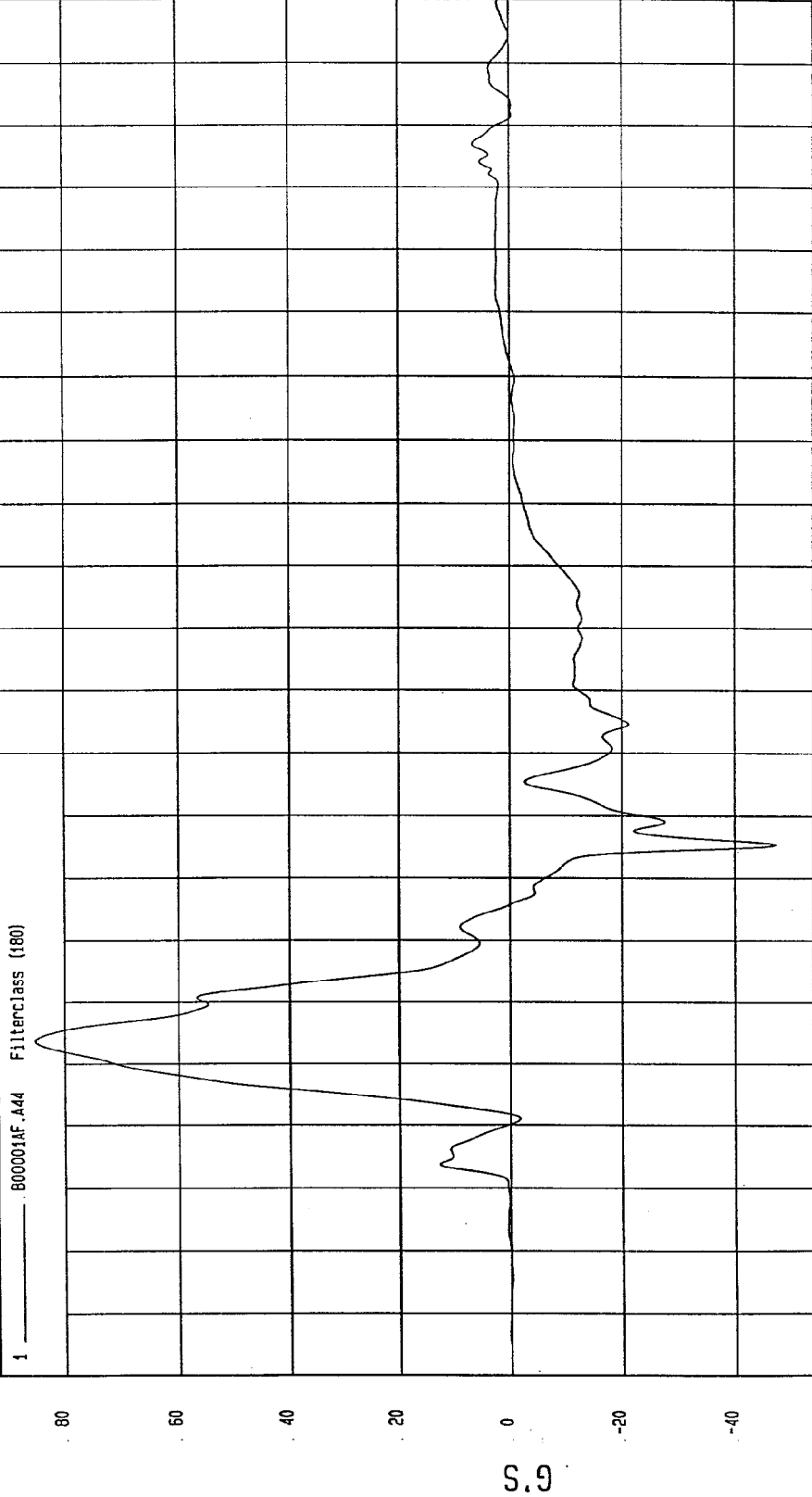


TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -47.32 G's at 65 msec Maximum = 85.29 G's at 34 msec

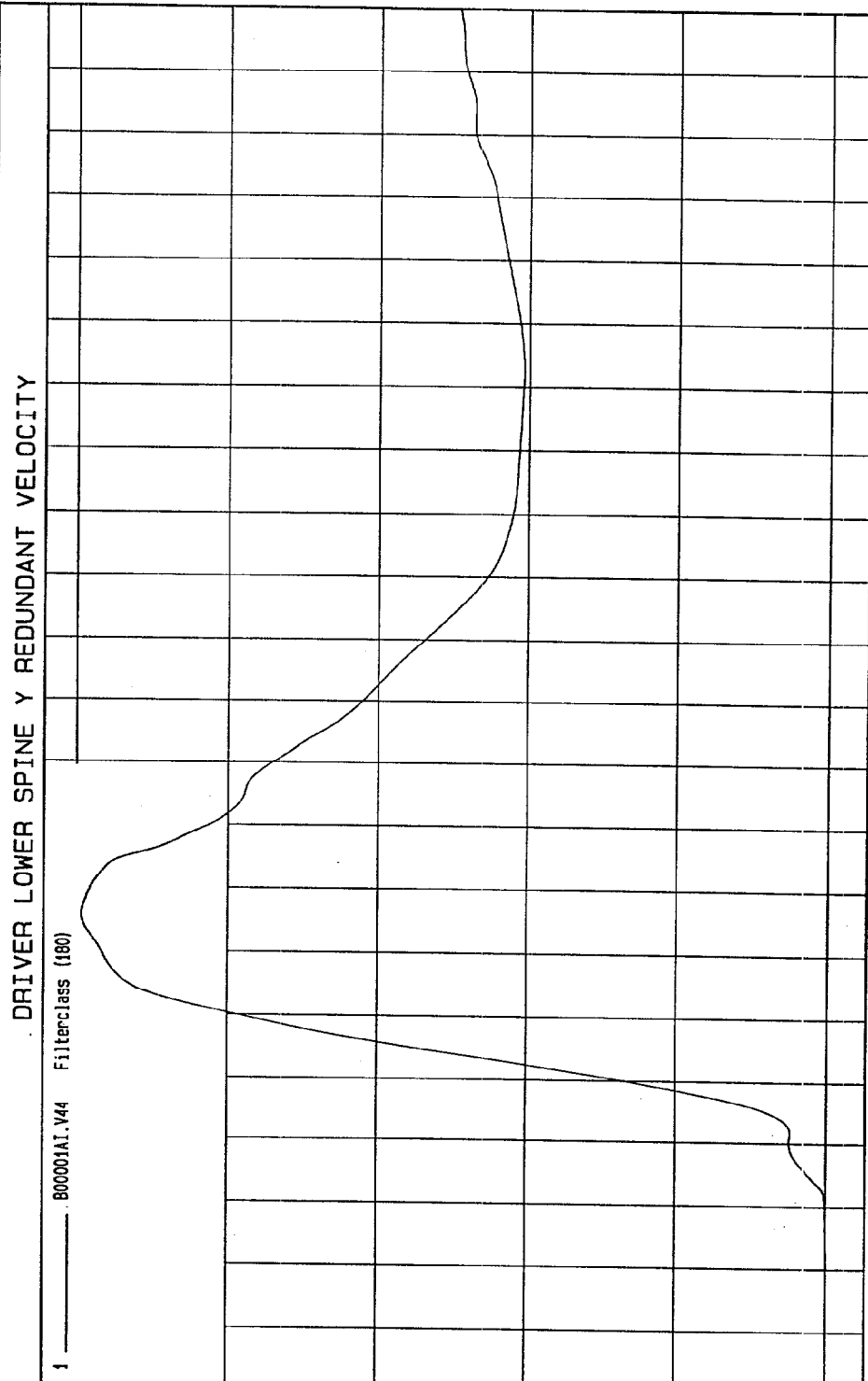
DRIVER LOWER SPINE Y REDUNDANT ACCELERATION



TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -3.02E-02 KPH at 0 msec Maximum = 49.65 KPH at 56 msec



TIME Seconds

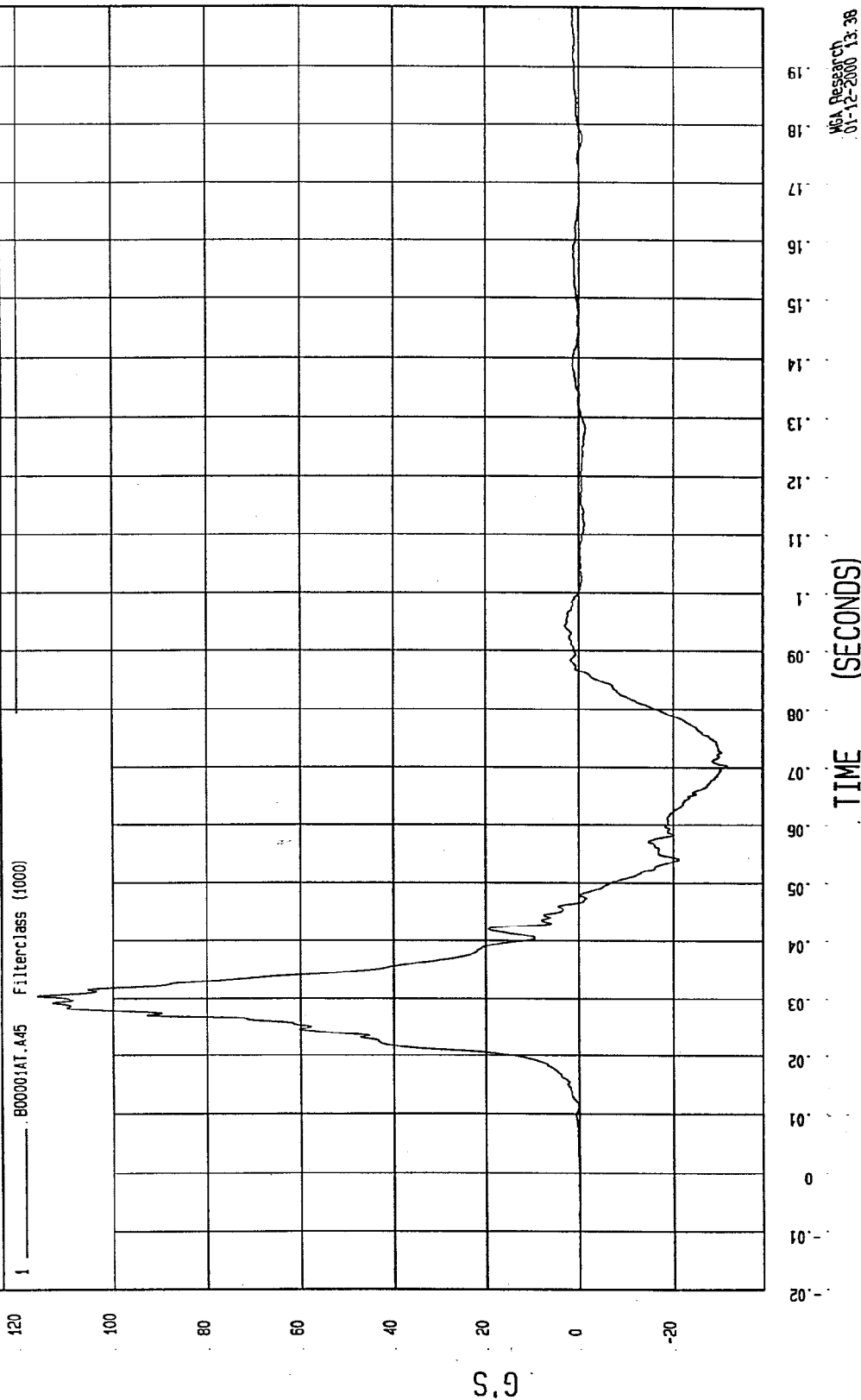
WCA Research
01-12-2000 13:37

TEST: NCAP SIDE IMPACT
 COMPONENT: 2000 FORD TAURUS (MY0211)
 Speed: 38.2 MPH 61.5 KPH

Maximum = 115.98 G'S at 30 msec

Minimum = -31.25 G'S at 70 msec

DRIVER PELVIS Y REDUNDANT ACCELERATION



TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

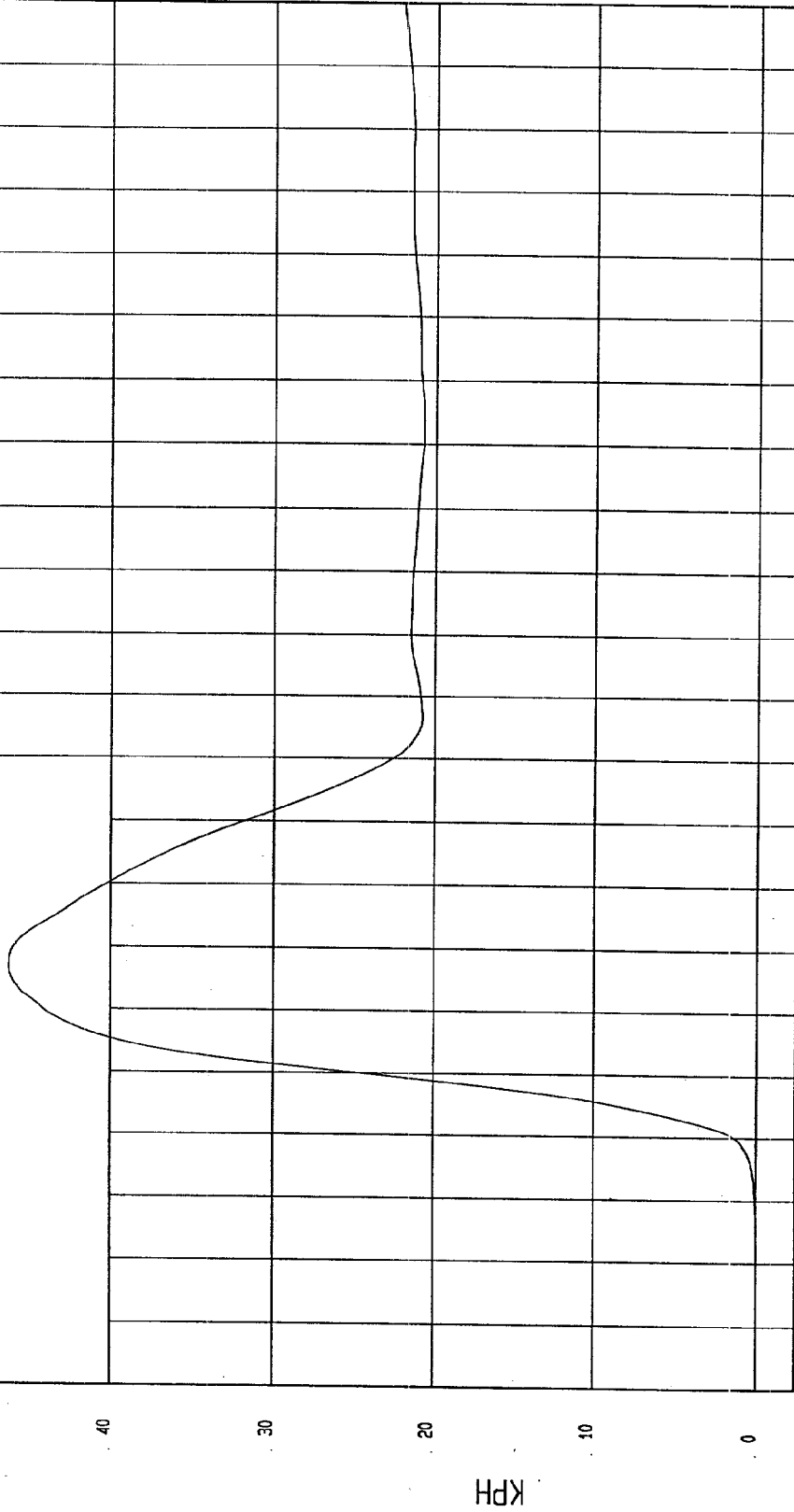
Speed: 38.2 MPH 61.5 KPH

Minimum = -4.36E-03 KPH at -15 msec

Maximum = 46.27 KPH at 47 msec

DRIVER PELVIS Y REDUNDANT VELOCITY

1 ——— B00001A1.V45 Filterclass (180)



WCA Research
01-12-2000 13:38

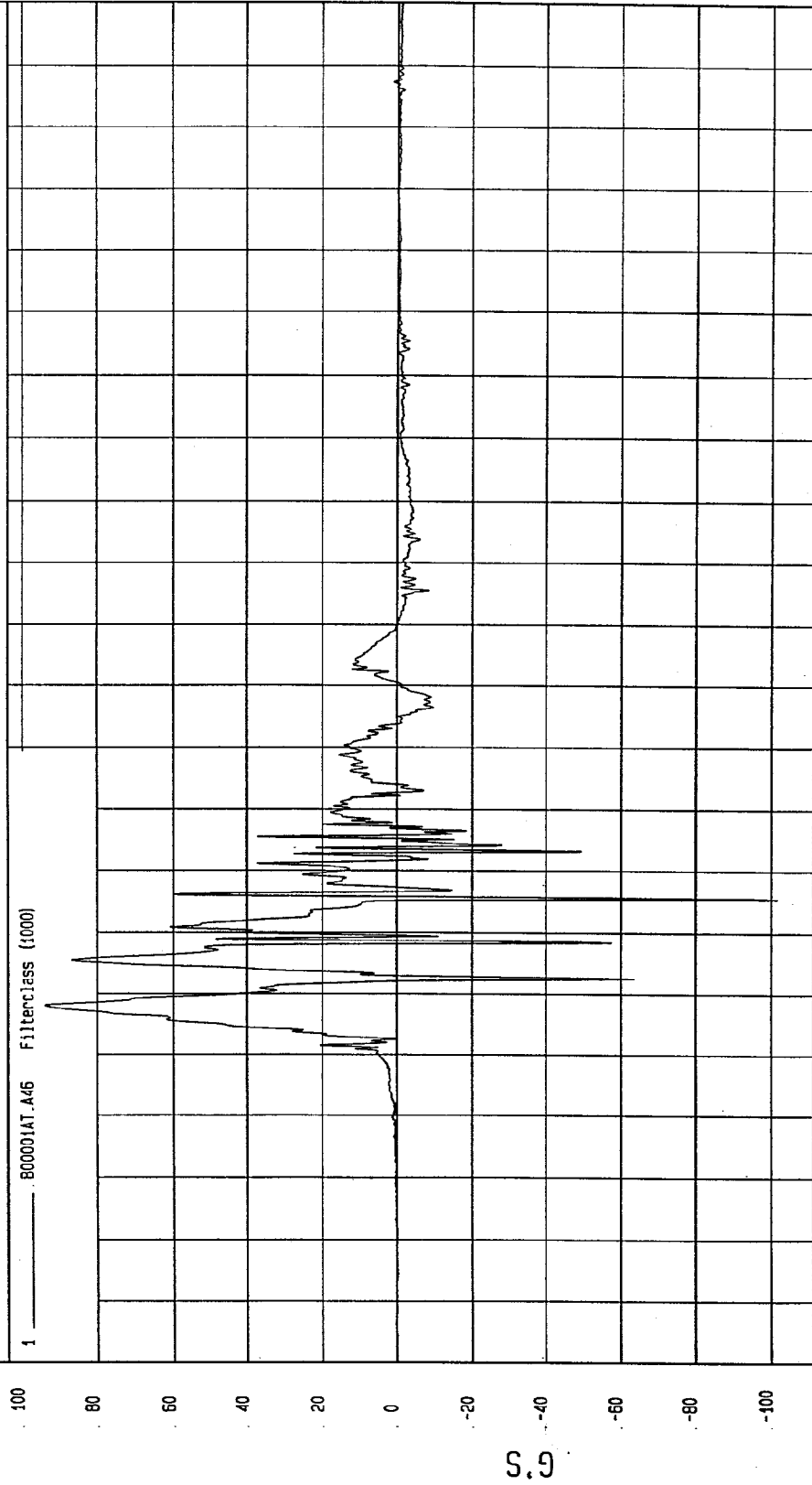
TIME Seconds

TEST: NCAP SIDE IMPACT
 COMPONENT: 2000 FORD TAURUS (MY0211)
 TEST DATE: 01-05-2000
 Speed: 38.2 MPH 61.5 KPH

Minimum = -101.53 G'S at 56 msec
 Maximum = 94.01 G'S at 38 msec

REAR PASSENGER UPPER RIB Y REDUNDANT ACCELERATION

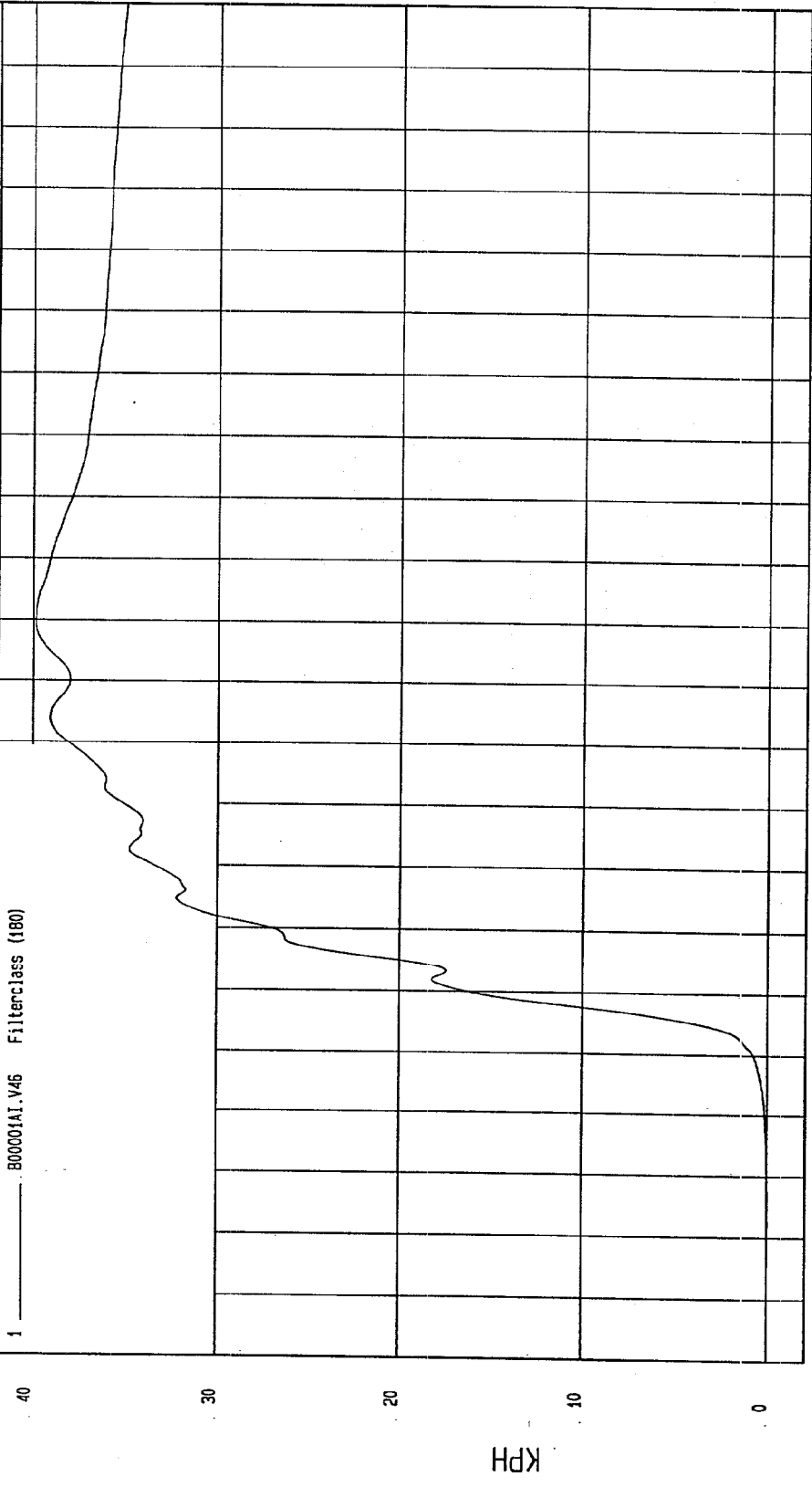
1 800001AT.A46 Filterclass (1000)



TIME (SECONDS)
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 0.18
 0.17
 0.16
 0.15
 0.14
 0.13
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 0.09
 0.08
 0.07
 0.06
 0.05
 0.04
 0.03
 0.02
 0.01
 0
 -0.01
 -0.02
 MCA Research
 01-12-2000 13:38

TEST: NCAP SIDE IMPACT
TEST DATE: 01-05-2000
COMPONENT: 2000 FORD TAURUS (MY0211)
Speed: 38.2 MPH 61.5 KPH
Minimum = -2.54E-02 KPH at 2 msec
Maximum = 39.85 KPH at 100 msec

REAR PASSENGER UPPER RIB Y REDUNDANT VELOCITY



TIME Seconds
0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02

MCA Research
01-12-2000 13:38

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

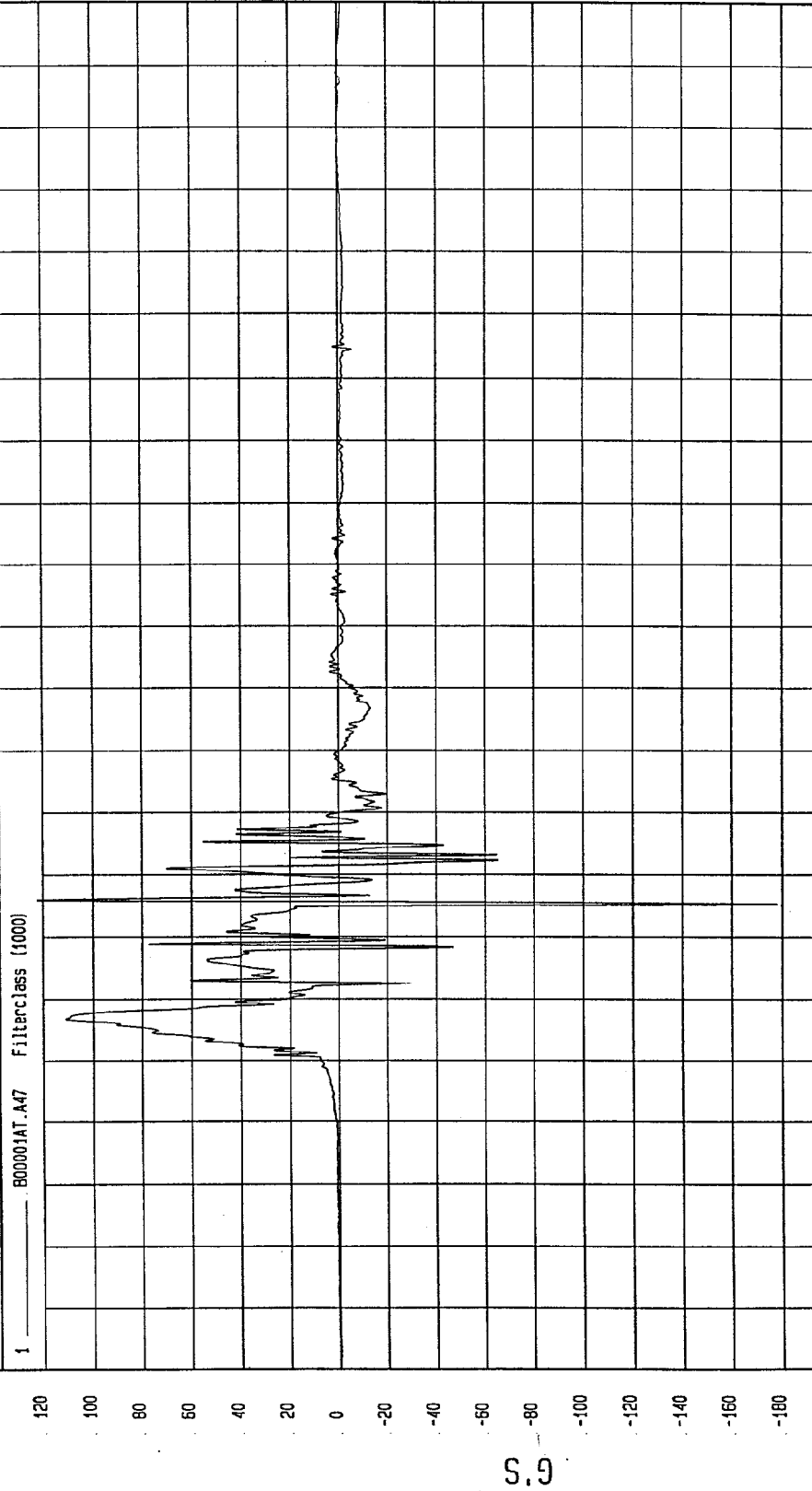
Speed: 38.2 MPH 61.5 KPH

COMPONENT: 2000 FORD TAURUS (MY0211)

Maximum = 122.33 G'S at 56 msec

Minimum = -177.74 G'S at 55 msec

REAR PASSENGER LOWER RIB Y REDUNDANT ACCELERATION



MoA Research
01-12-2000 13:38

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

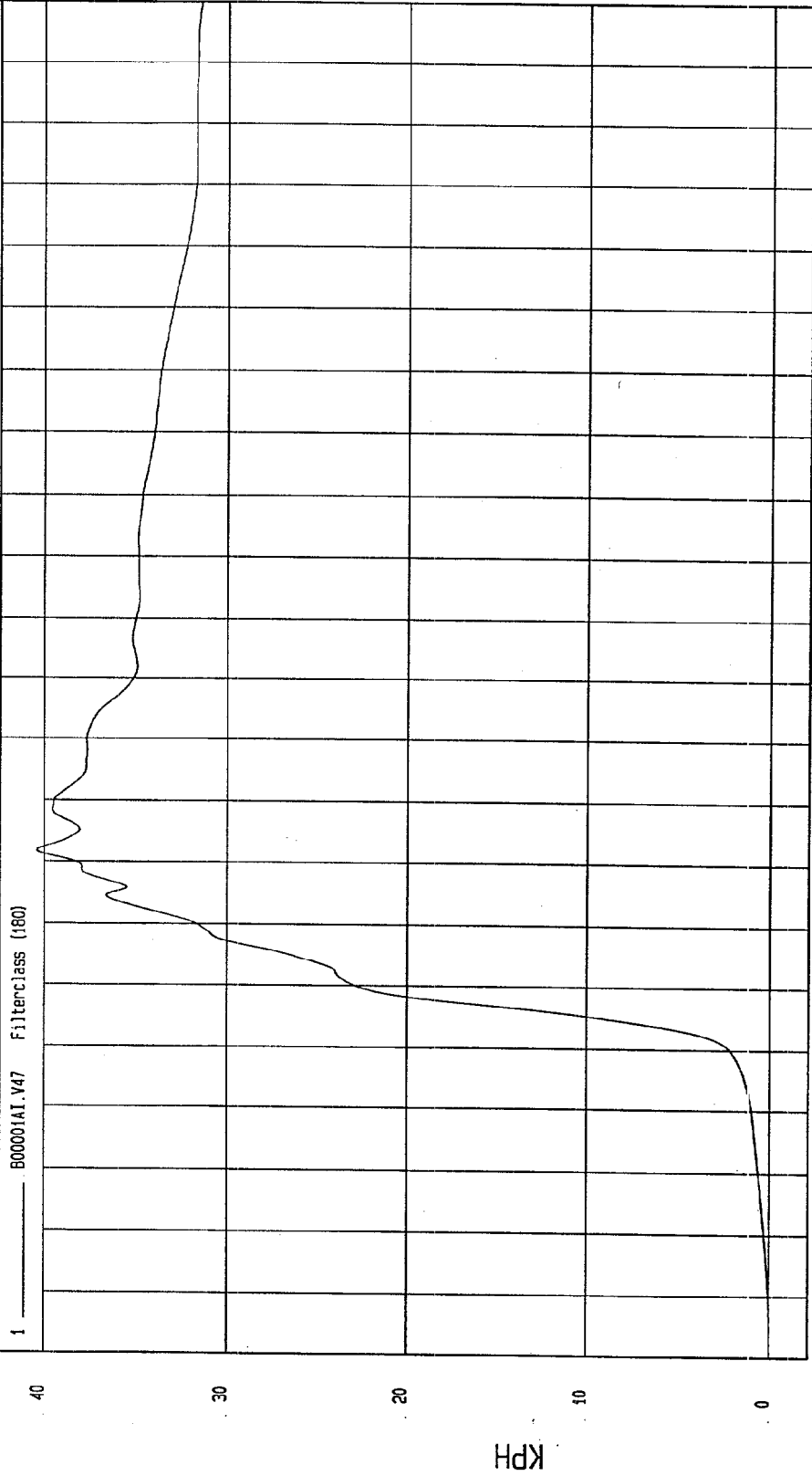
Speed: 38.2 MPH 61.5 KPH

COMPONENT: 2000 FORD TAURUS (MY0211)

Maximum = 40.39 KPH at 62 msec

Minimum = -1.13E-02 KPH at -15 msec

REAR PASSENGER LOWER RIB Y REDUNDANT VELOCITY



WCA Research
01-12-2000 13:38

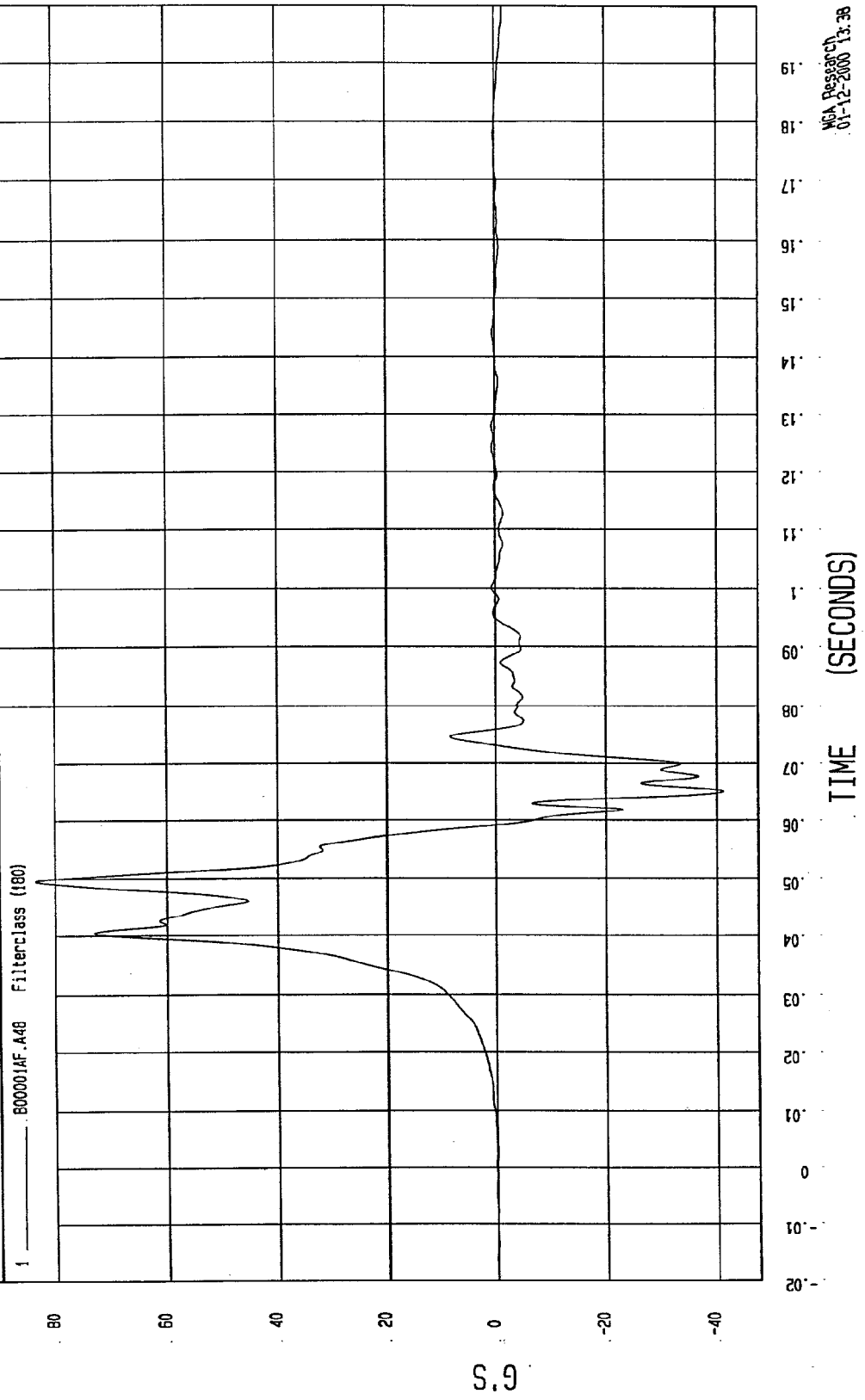
TIME Seconds

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -41.17 G'S at 65 msec Maximum = 83.61 G'S at 50 msec

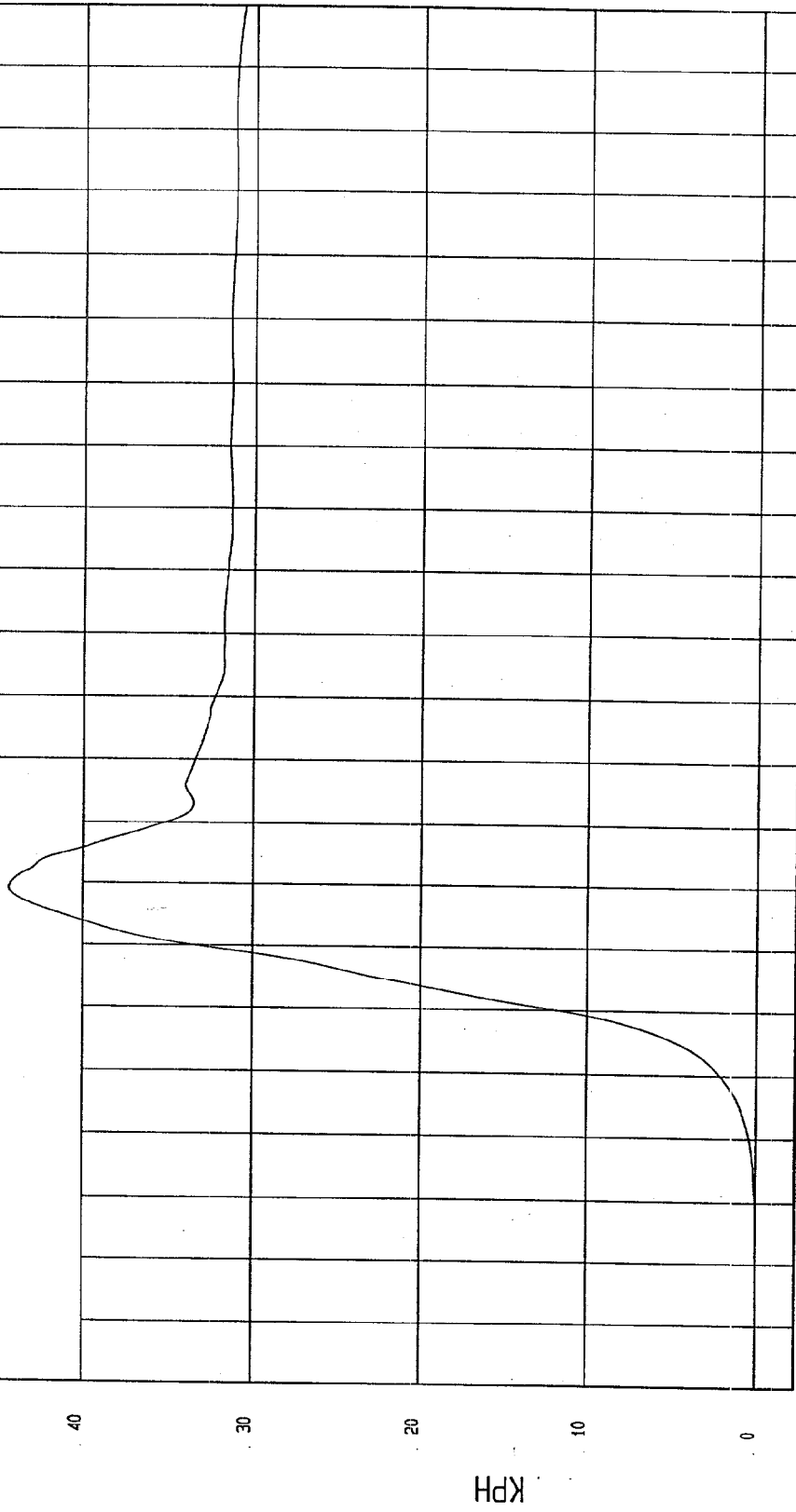
REAR PASSENGER LOWER SPINE Y REDUNDANT ACCELERATION



TEST: NCAP SIDE IMPACT
 COMPONENT: 2000 FORD TAURUS (MY0211)
 TEST DATE: 01-05-2000
 Speed: 38.2 MPH 61.5 KPH
 Minimum = -7.40E-03 KPH at -7 msec
 Maximum = 44.41 KPH at 59 msec

REAR PASSENGER LOWER SPINE Y REDUNDANT VELOCITY

1 — 800001A1.V48 Filterclass (180)



TIME Seconds
 0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02

WCA Research
 01-12-2000 13:36

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

Speed: 38.2 MPH 61.5 KPH

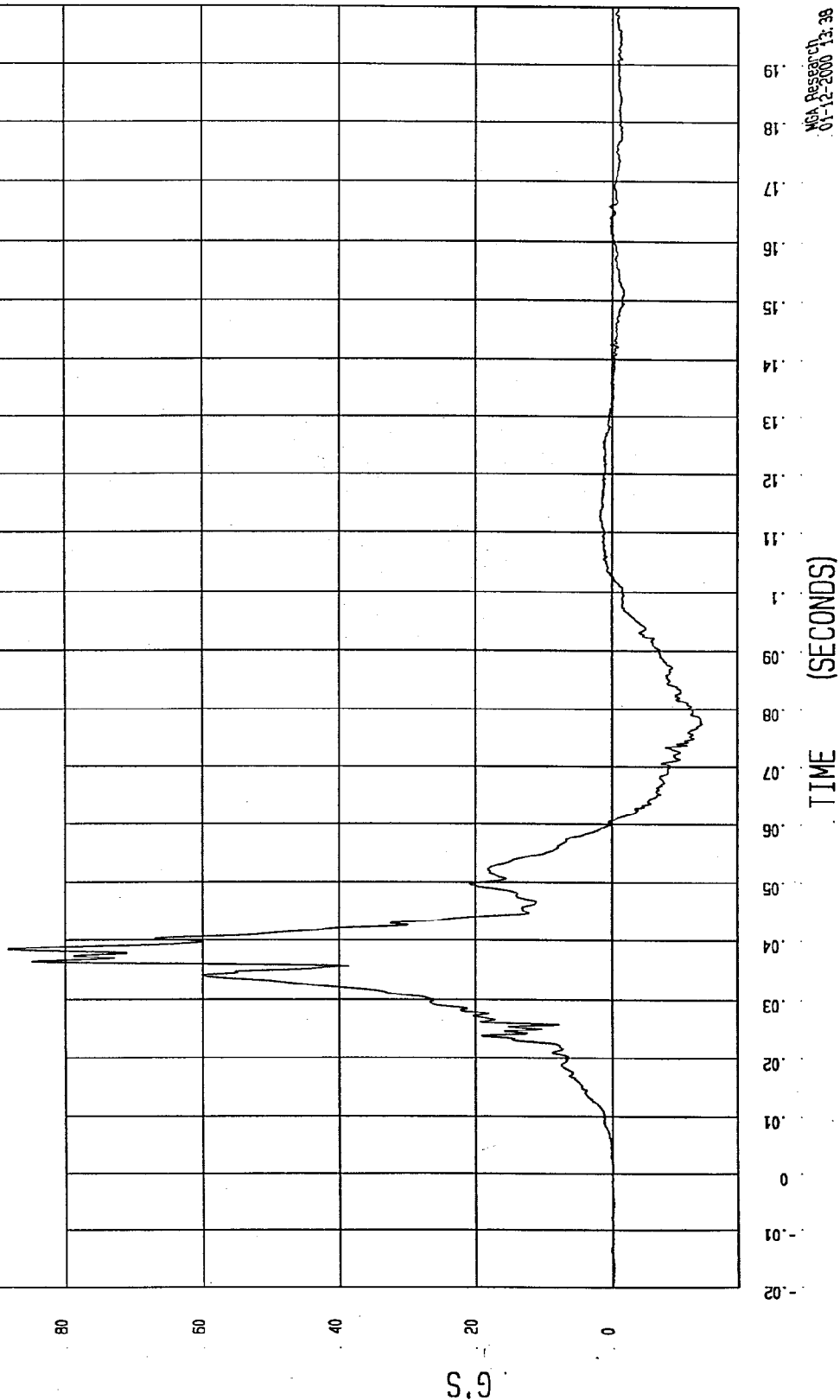
COMPONENT: 2000 FORD TAURUS (MY0211)

Maximum = 88.42 G'S at 38 msec

Minimum = -13.06 G'S at 77 msec

REAR PASSENGER PELVIS Y REDUNDANT ACCELERATION

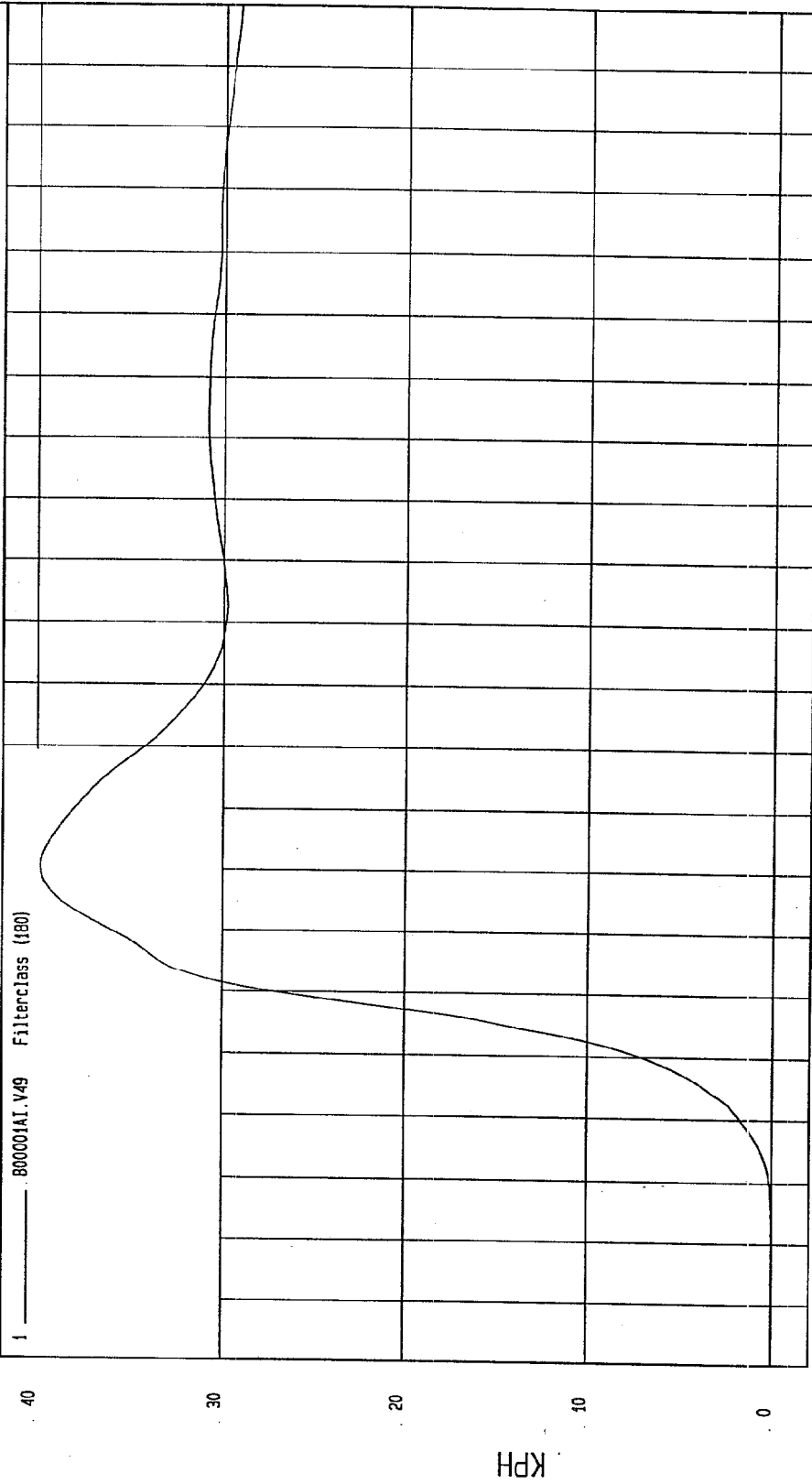
1 B00001AT.A49 Filterclass (1000)



NSA Research
01-12-2000 13:39

TEST: NCAP SIDE IMPACT
TEST DATE: 01-05-2000
COMPONENT: 2000 FORD TAURUS (MY0211)
Speed: 38.2 MPH 61.5 KPH
Minimum = -4.76E-03 KPH at -15 msec
Maximum = 39.8 KPH at 60 msec

REAR PASSENGER PELVIS Y REDUNDANT VELOCITY



NGA Research
01-12-2000 13:38

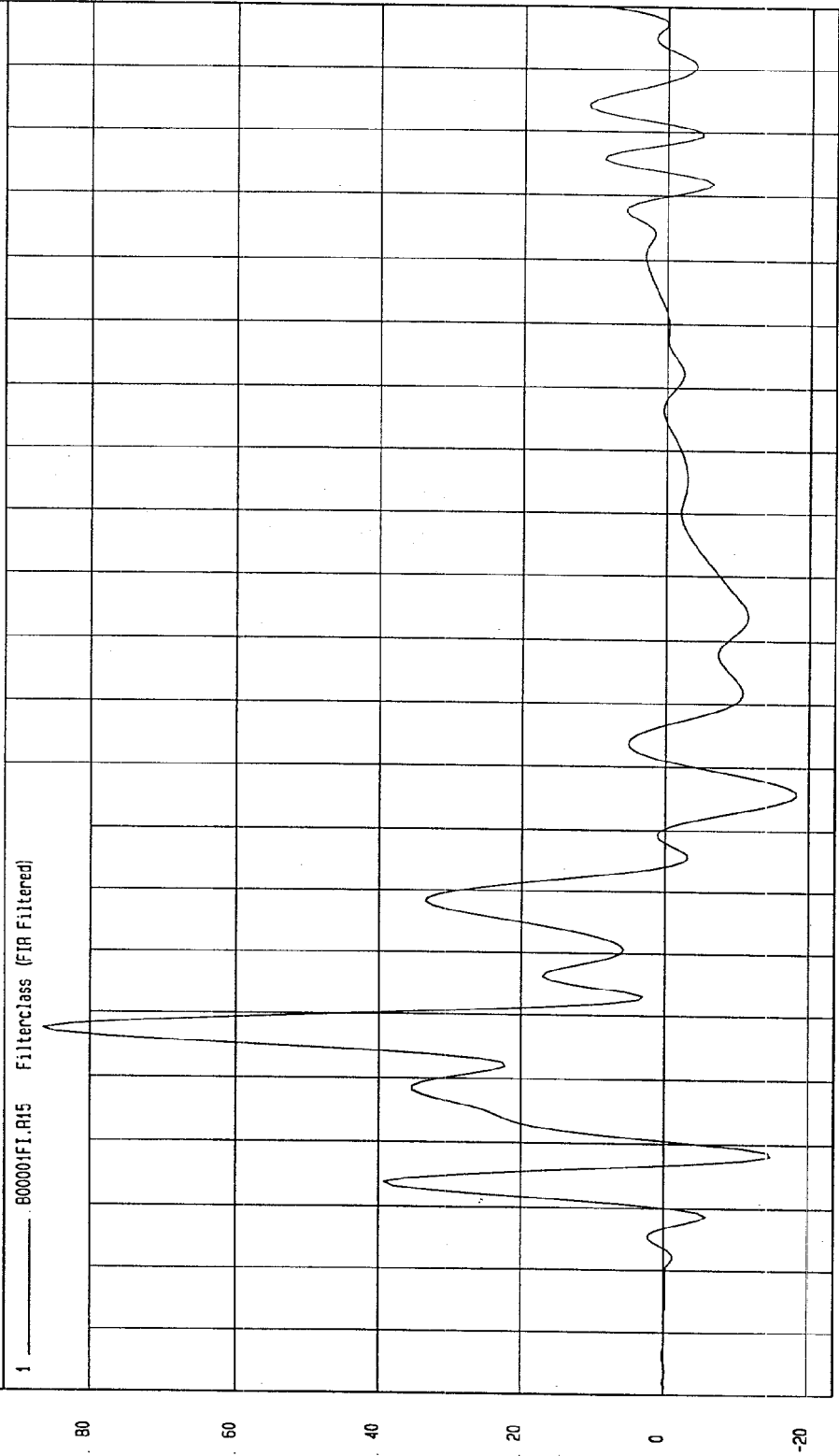
FINITE IMPULSE RESPONSE (FIR) FILTERED DATA

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -18.27 G'S at 76 msec Maximum = 86.42 G'S at 38 msec

DRIVER UPPER RIB Y ACCELERATION



TIME (SECONDS)

NGA Research
01-05-2000 17:33

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

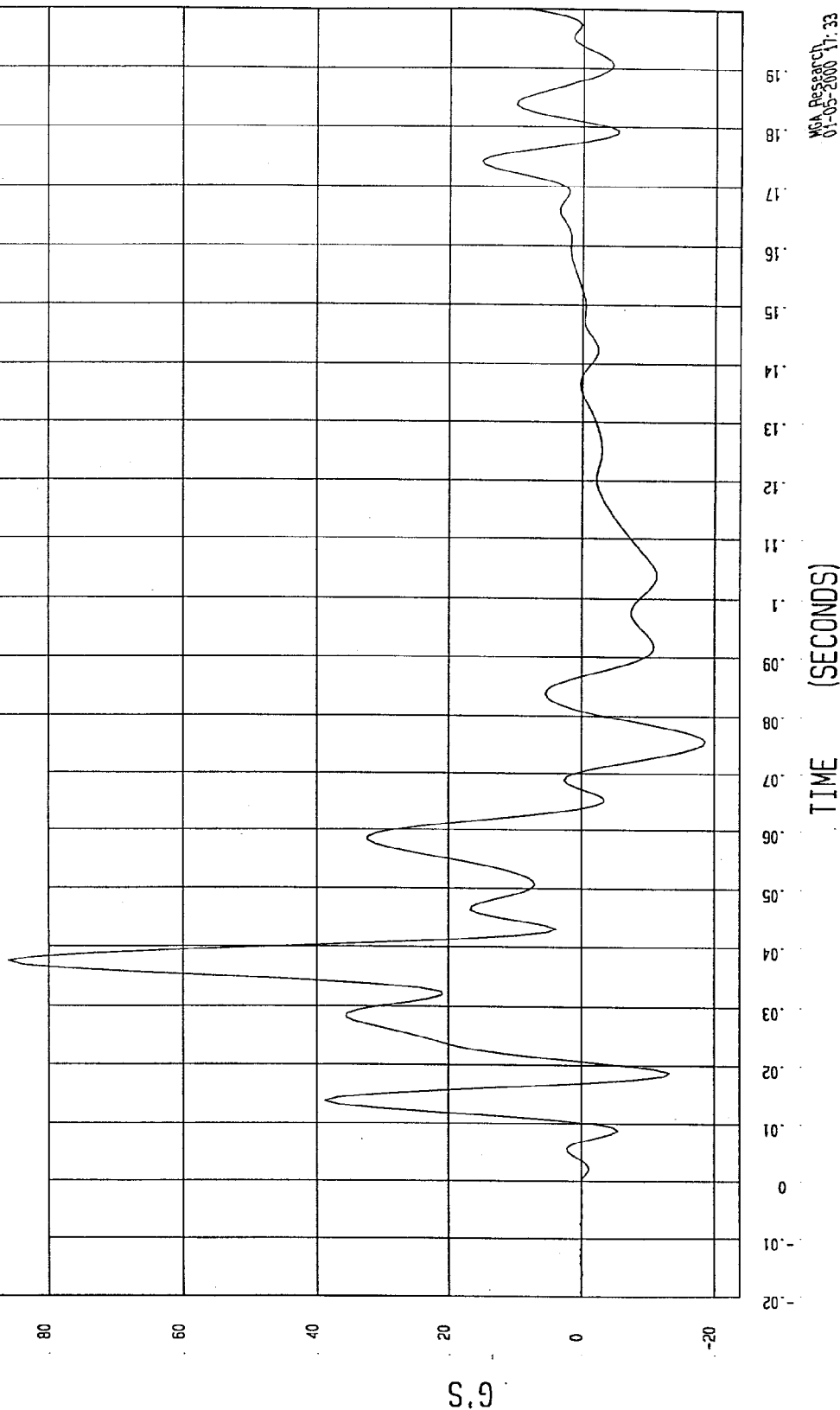
Speed: 38.2 MPH 61.5 KPH

Maximum = 85.99 G'S at 38 msec

Minimum = -18.55 G'S at 76 msec

DRIVER UPPER RIB Y REDUNDANT ACCELERATION

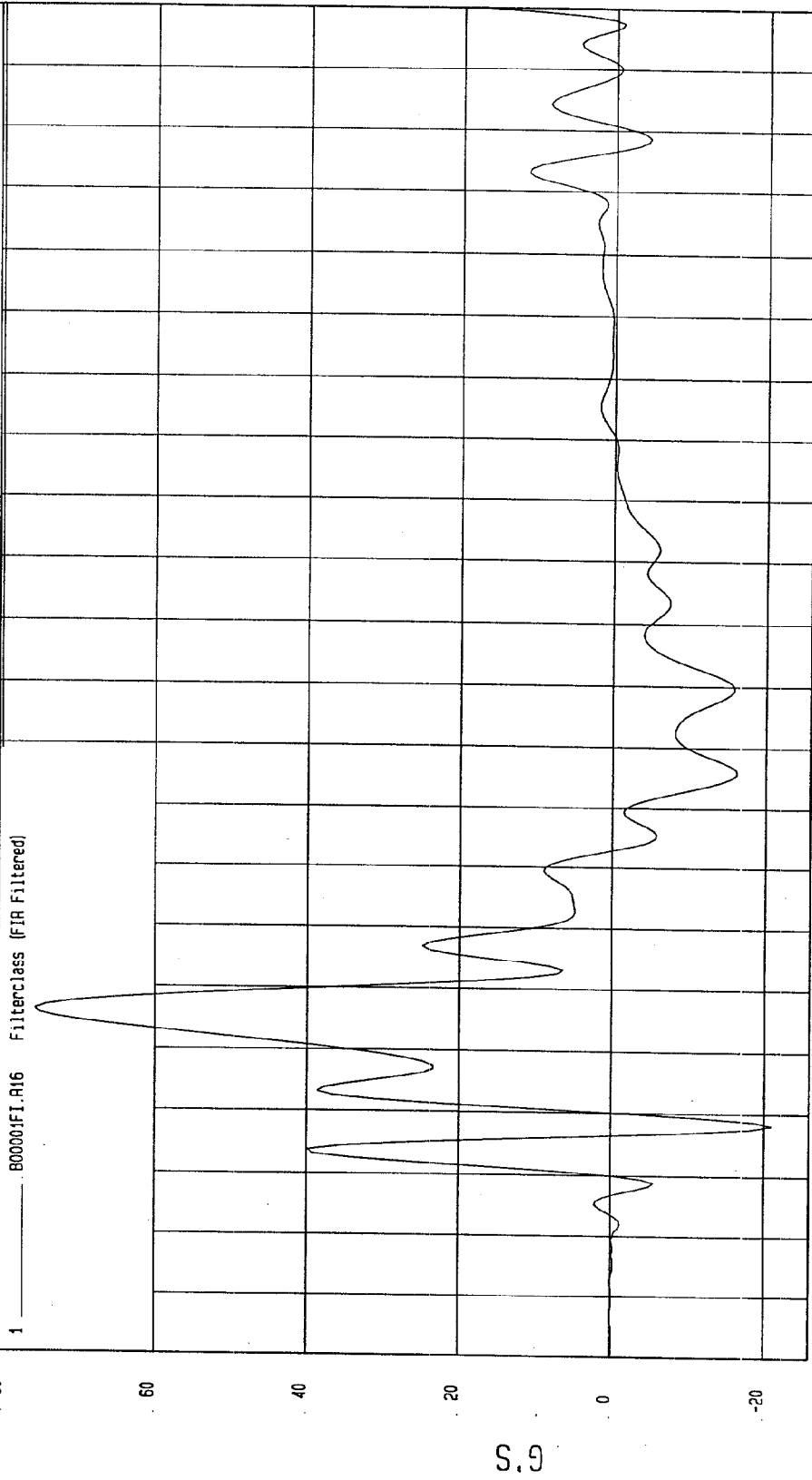
1 B00001F1.R42 Filterclass (FIR Filtered)



WGA Research
01-05-2000 17:33

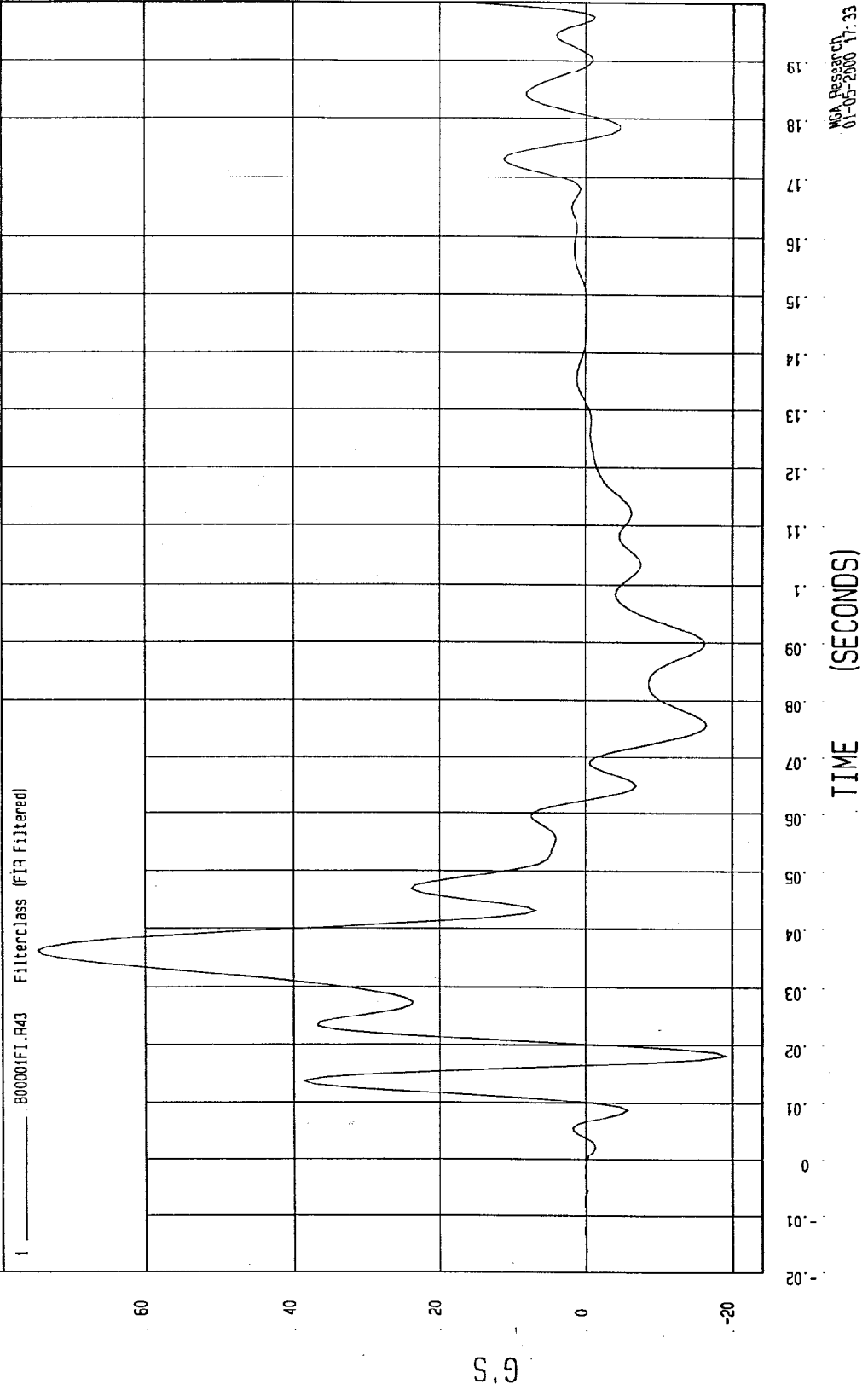
TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000
COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH
Minimum = -20.98 G'S at 18 msec Maximum = 75.64 G'S at 36 msec

DRIVER LOWER RIB Y ACCELERATION



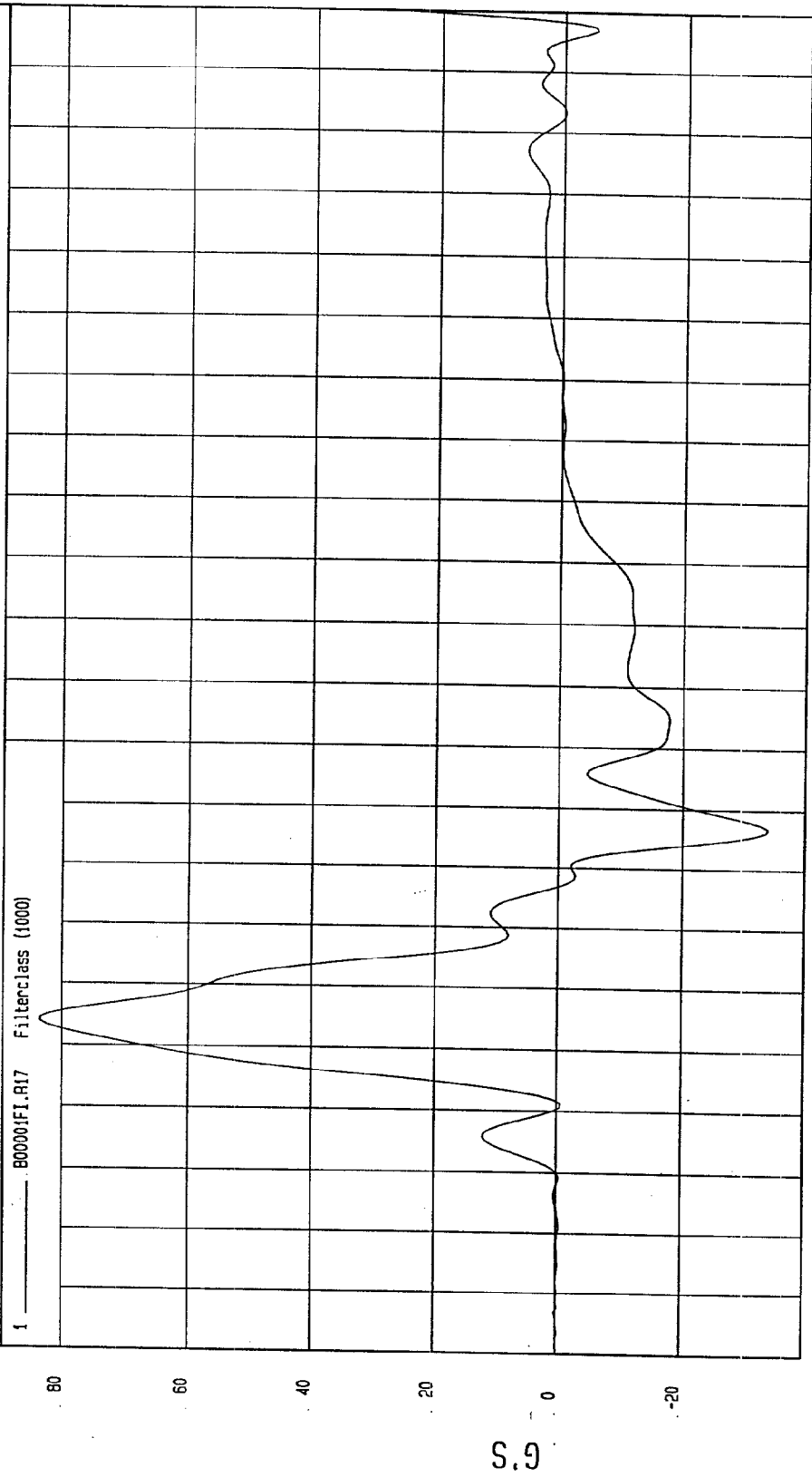
TEST: NCAP SIDE IMPACT
TEST DATE: 01-05-2000
COMPONENT: 2000 FORD TAURUS (MY0211)
Speed: 38.2 MPH 61.5 KPH
Minimum = -19.23 G'S at 18 msec
Maximum = 74.58 G'S at 35 msec

DRIVER LOWER RIB Y REDUNDANT ACCELERATION



TEST: NCAP SIDE IMPACT
 COMPONENT: 2000 FORD TAURUS (MY0211)
 TEST DATE: 01-05-2000
 Speed: 38.2 MPH 61.5 KPH
 Minimum = -33.55 G'S at 67 msec
 Maximum = 83.57 G'S at 34 msec

DRIVER LOWER SPINE Y ACCELERATION



TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

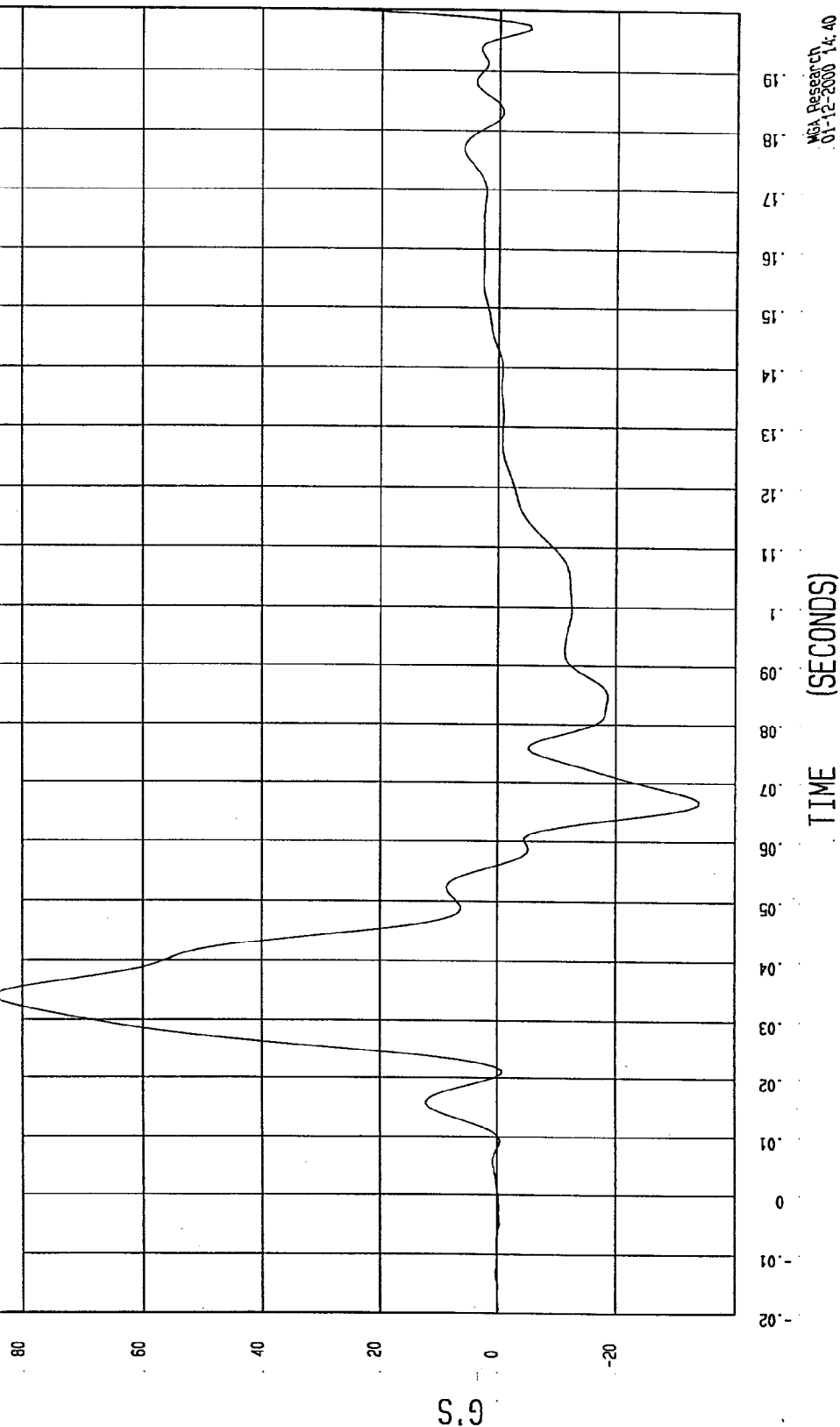
Speed: 38.2 MPH 61.5 KPH

Minimum = -33.87 G'S at 67 msec

Maximum = 84.75 G'S at 34 msec

DRIVER LOWER SPINE Y REDUNDANT ACCELERATION

1 80000FI.R44 FilterClass (1000)

MSA Research
01-12-2000 14:40

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -31.45 G'S at 72 msec Maximum = 111.57 G'S at 30 msec

DRIVER PELVIS Y ACCELERATION



TIME (SECONDS)

WCA Research
01-05-2000 17:33

TEST: NCAP SIDE IMPACT

COMPONENT: 2000 FORD TAURUS (MY0211)

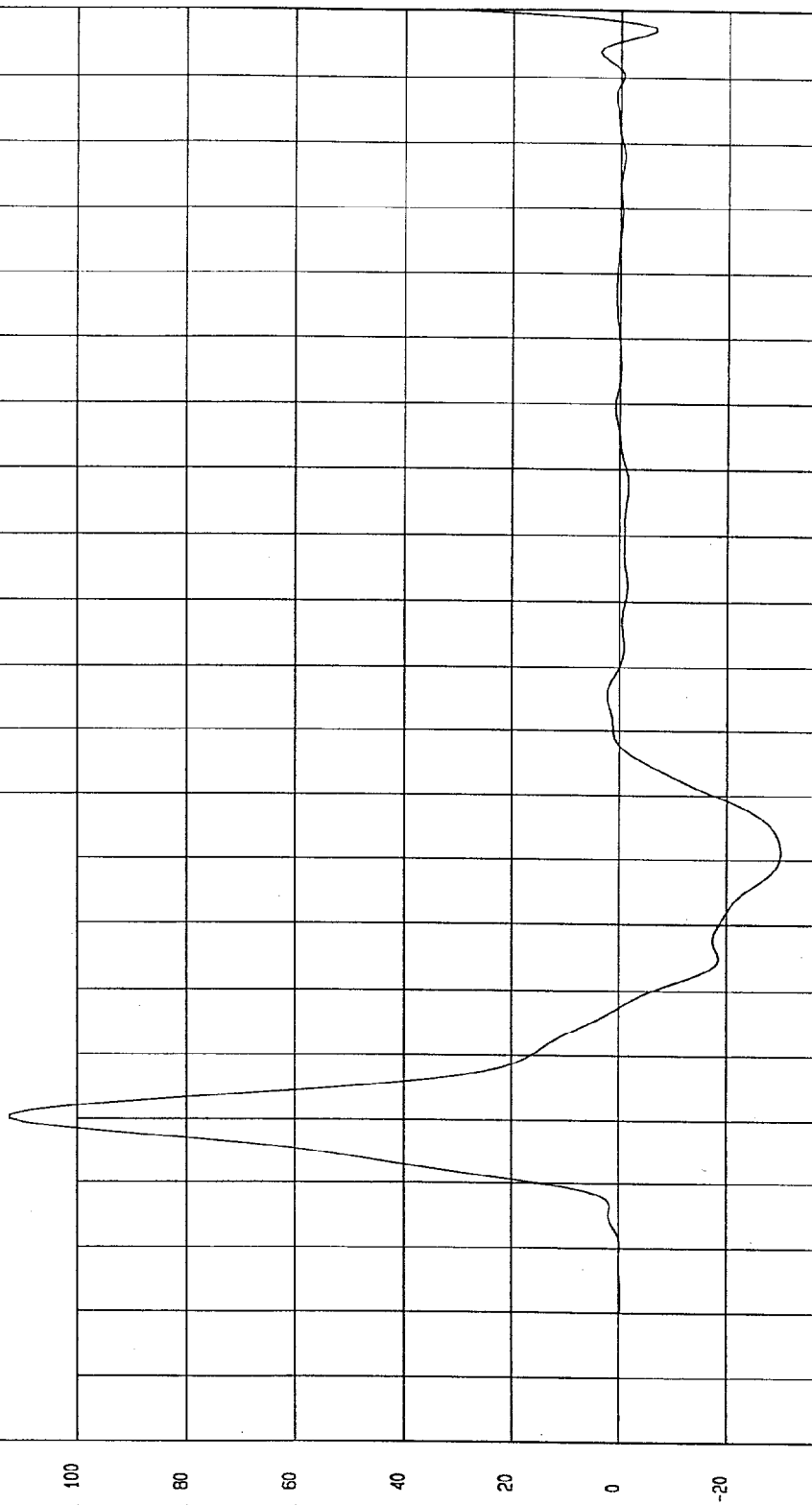
Speed: 38.2 MPH 61.5 KPH

Minimum = -30.07 G'S at 71 msec

Maximum = 112.31 G'S at 30 msec

DRIVER PELVIS Y REDUNDANT ACCELERATION

1 B0000F1.R45 FilterClass (FIR Filtered)



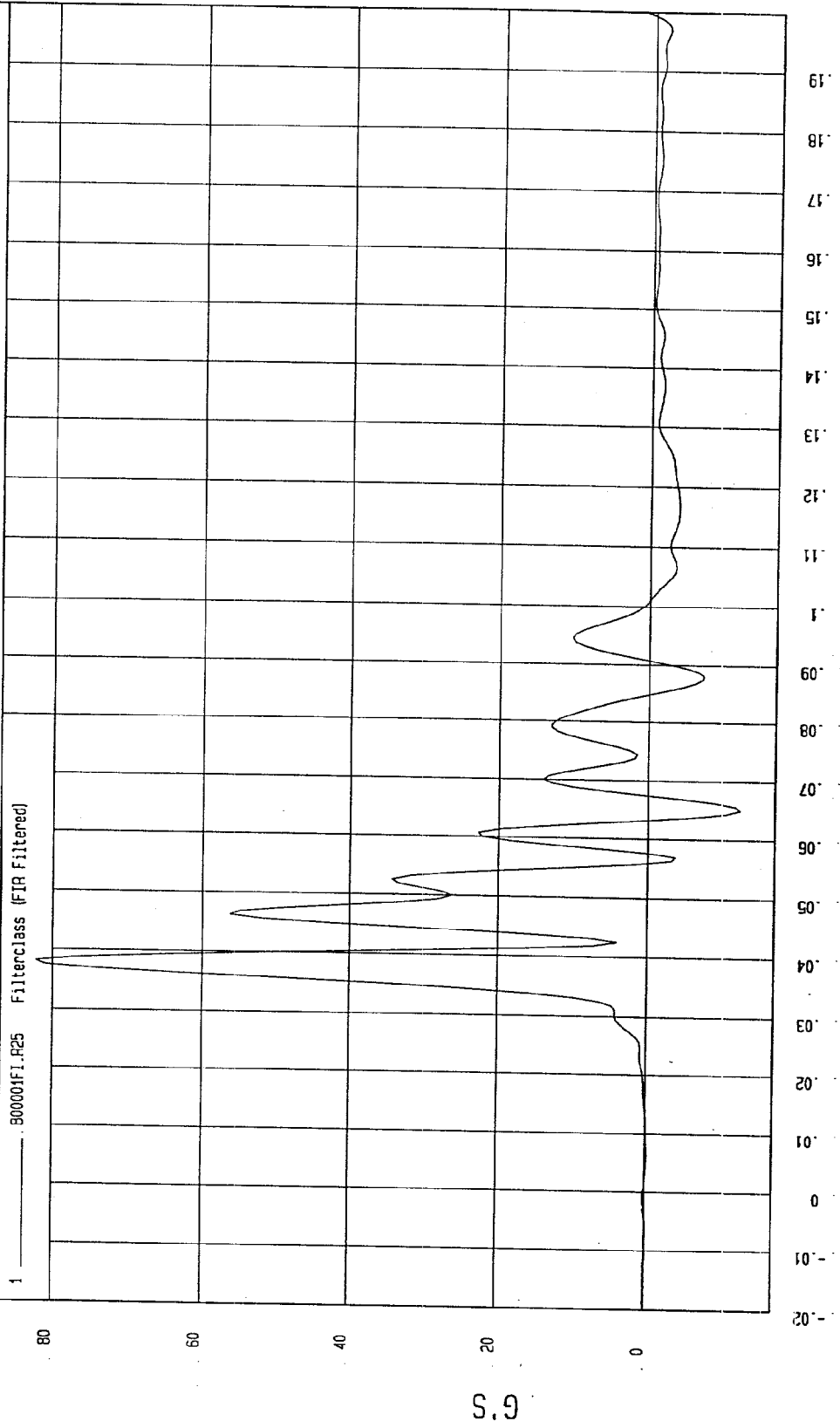
NCAP Research
01-05-2000 17:33

TEST: NCAP SIDE IMPACT TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211) Speed: 38.2 MPH 61.5 KPH

Minimum = -12.31 G'S at 65 msec Maximum = 82.3 G'S at 38 msec

REAR PASSENGER UPPER RIB Y ACCELERATION



MGA Research
01-05-2000 17:33

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

Speed: 38.2 MPH 61.5 KPH

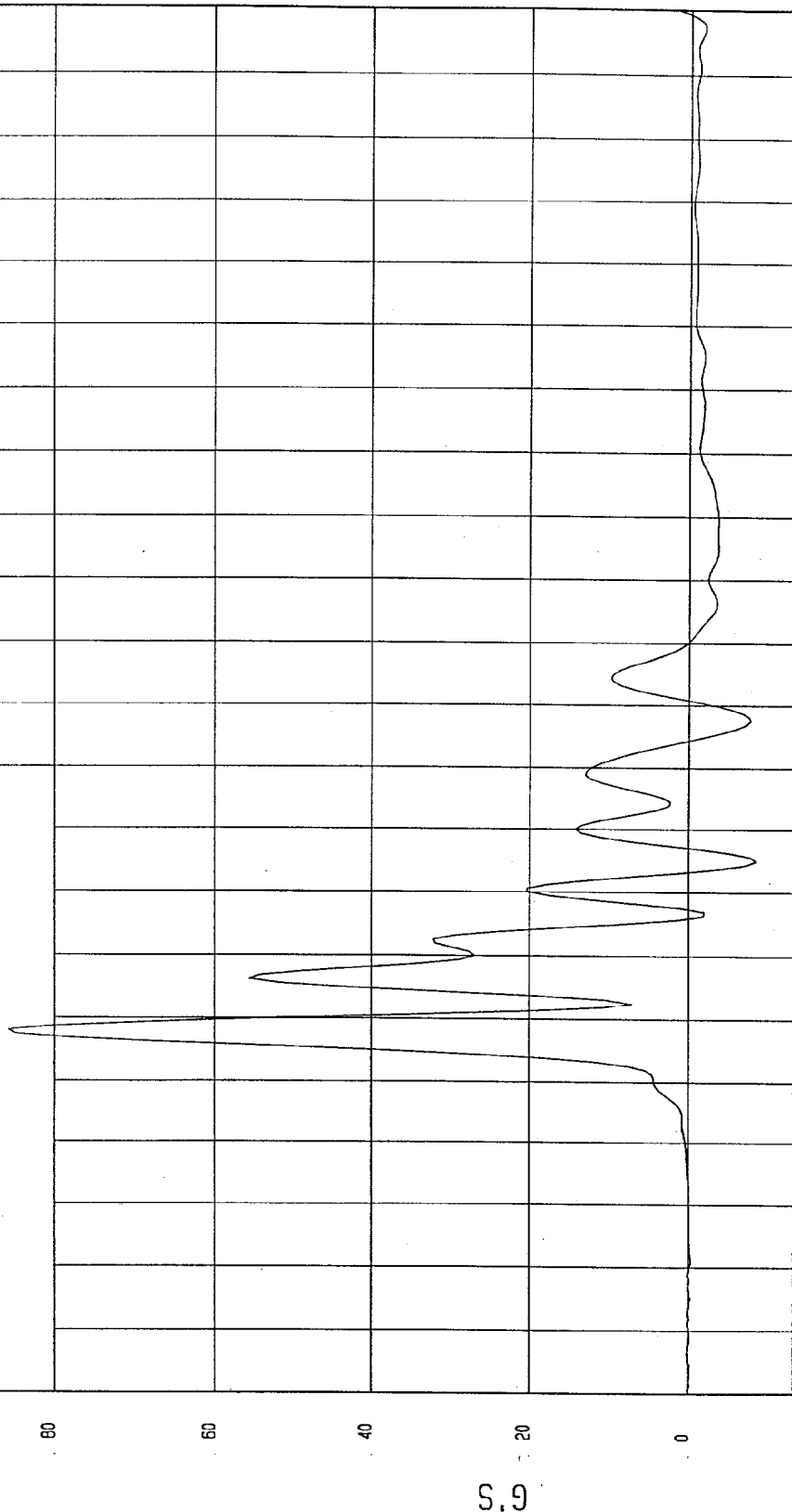
COMPONENT: 2000 FORD TAURUS (MY0211)

Maximum = 85.7 G'S at 38 msec

Minimum = -8.63 G'S at 65 msec

REAR PASSENGER UPPER RIB Y REDUNDANT ACCELERATION

1 ——— B00001F1.P46 Filterclass (FIR Filtered)



TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

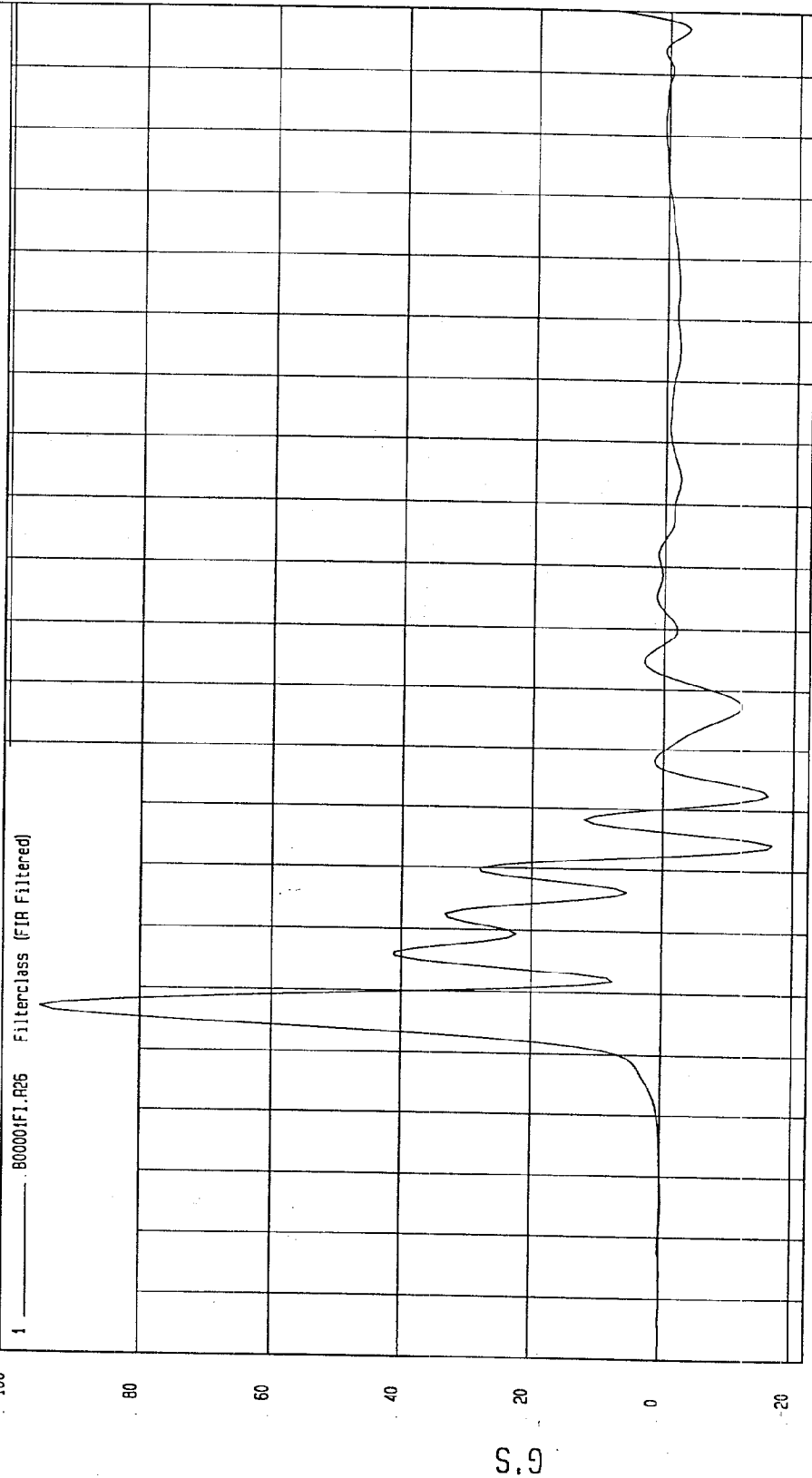
COMPONENT: 2000 FORD TAURUS (MY0211)

Speed: 38.2 MPH 61.5 KPH

Minimum = -16.77 G'S at 64 msec

Maximum = 95.16 G'S at 37 msec

REAR PASSENGER LOWER RIB Y ACCELERATION



TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

Speed: 38.2 MPH 61.5 KPH

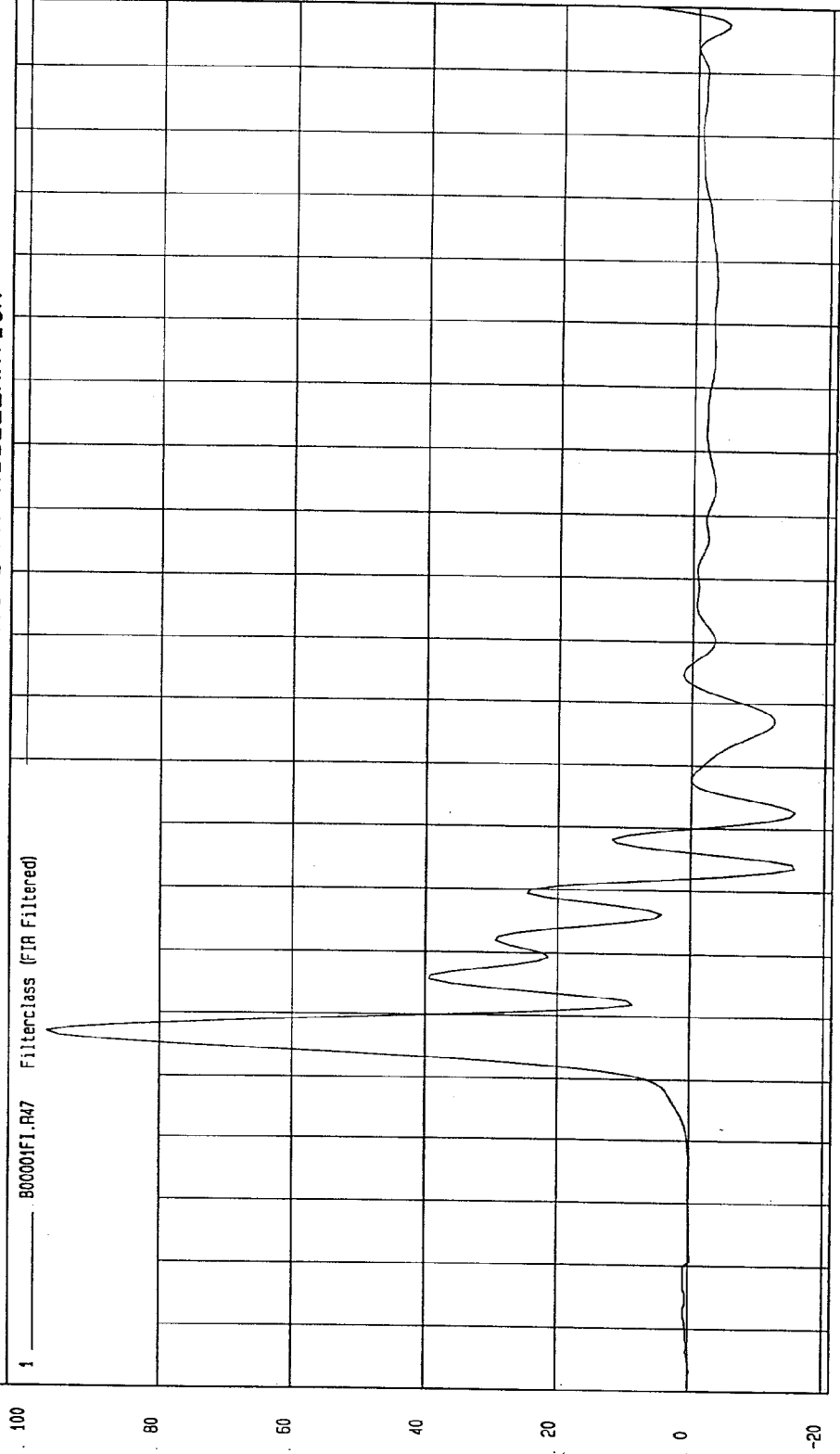
COMPONENT: 2000 FORD TAURUS (MY0211)

Maximum = 96.89 G'S at 37 msec

Minimum = -15.57 G'S at 72 msec

REAR PASSENGER LOWER RIB Y REDUNDANT ACCELERATION

1 800004F1.R47 Filterclass (FIR Filtered)



WCA Research
01-05-2000 17:33

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

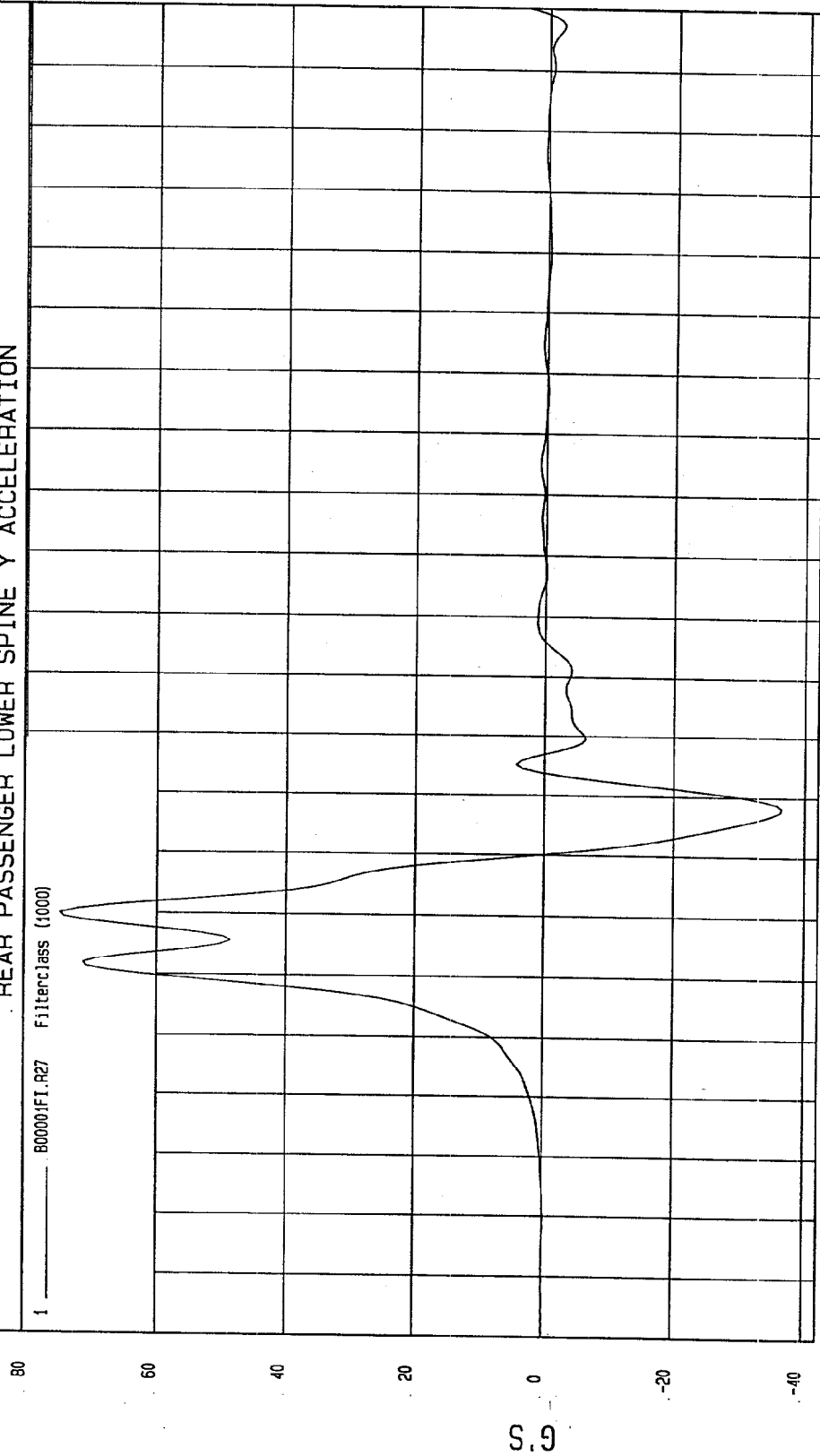
Speed: 38.2 MPH 61.5 KPH

Minimum = -36.55 G'S at 68 msec

Maximum = 74.81 G'S at 50 msec

REAR PASSENGER LOWER SPINE Y ACCELERATION

1 800001FI.R27 FilterClass (1000)



MCA Research
01-12-2000 14:40

TIME (SECONDS)

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

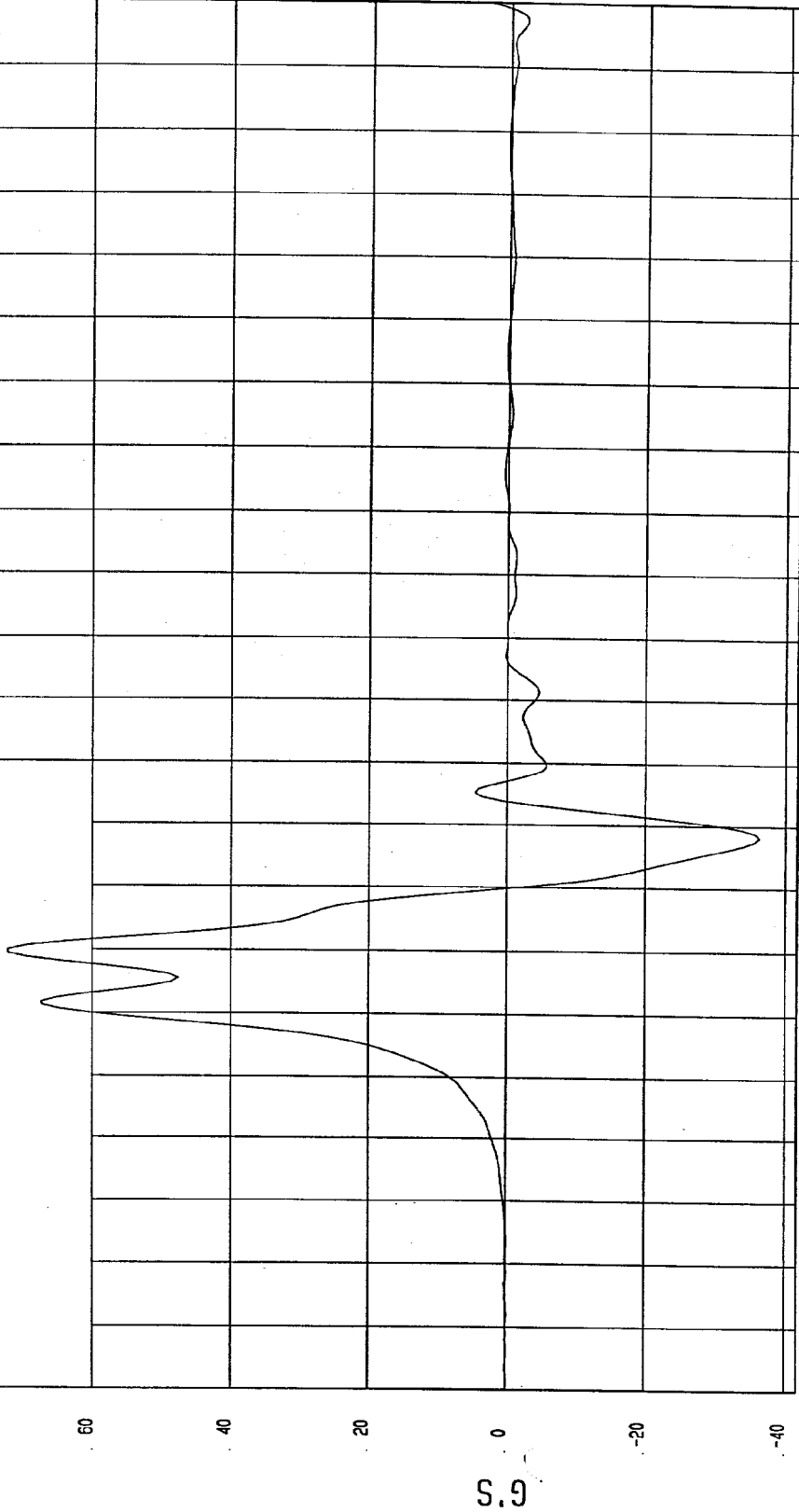
Speed: 38.2 MPH 61.5 KPH

Minimum = -35.28 G'S at 68 msec

Maximum = 72.12 G'S at 50 msec

REAR PASSENGER LOWER SPINE Y REDUNDANT ACCELERATION

1 _____ B00001FI.R48 FilterClass (1000)



MGA Research
01-12-2000 14:40

TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

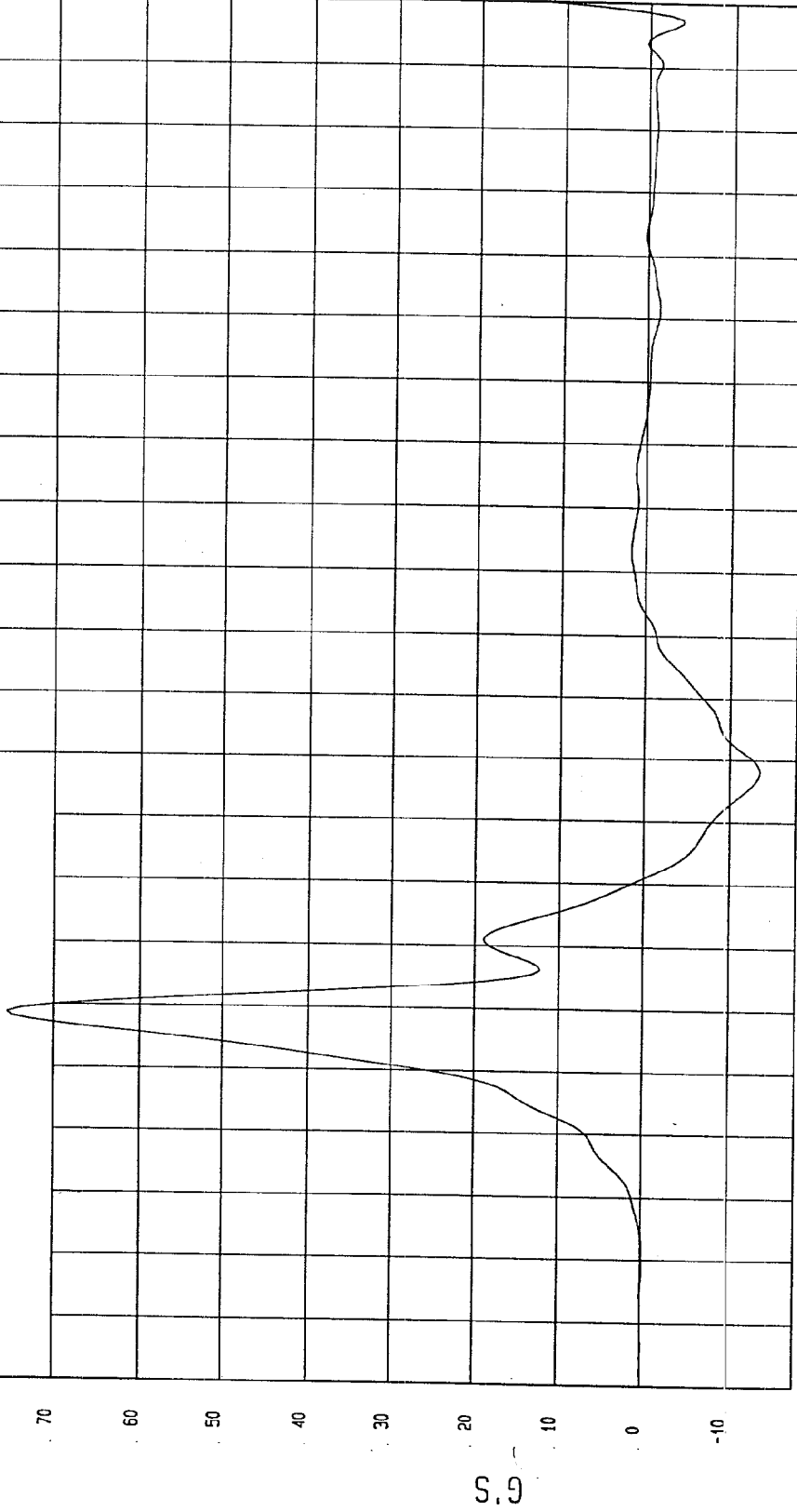
Speed: 38.2 MPH 61.5 KPH

Minimum = -13.52 G'S at 78 msec

Maximum = 75.45 G'S at 39 msec

REAR PASSENGER PELVIS Y ACCELERATION

1 ——— B0000FI.R2B Filterclass (1000)



TEST: NCAP SIDE IMPACT

TEST DATE: 01-05-2000

COMPONENT: 2000 FORD TAURUS (MY0211)

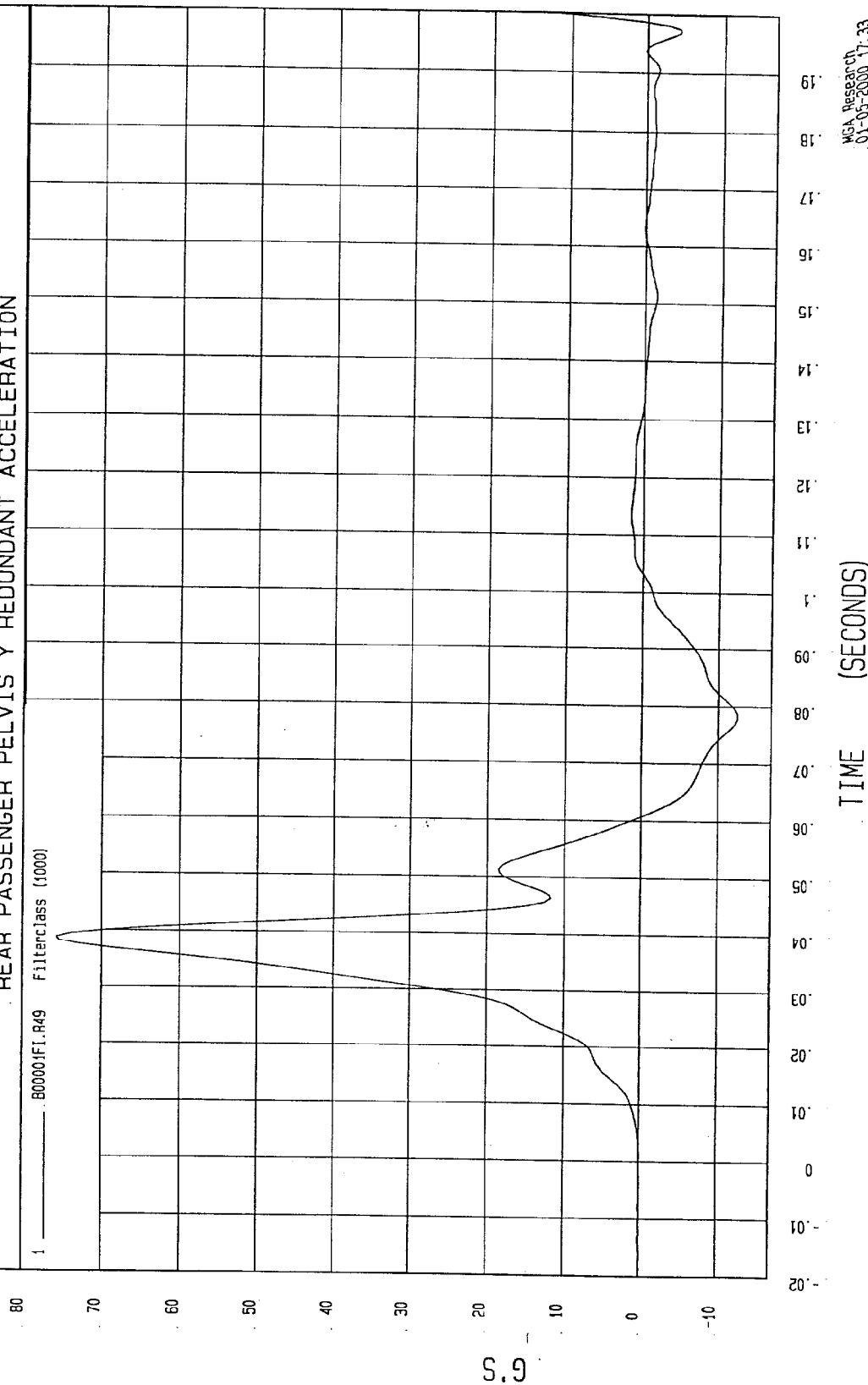
Speed: 38.2 MPH 61.5 KPH

Minimum = -12.5 G'S at 78 msec

Maximum = 75.63 G'S at 39 msec

REAR PASSENGER PELVIS Y REDUNDANT ACCELERATION

1 80000JFI.R49 Filterclass (1000)



MSA Research
01-05-2000 17:33

APPENDIX C
SID CONFIGURATION AND PERFORMANCE VERIFICATION

PRE-TEST CERTIFICATION DATA

C-1

Driver Dummy Serial Number: 271

Calibration Test Results Summary

C-2

Driver Dummy Serial Number: 271

Pre-Test Calibration

External Dimensions:	The dummy passed all external dimension requirements.
Head Drop Test:	The head passed all drop test requirements.
Neck Bending Test:	The neck passed all bending requirements.
Thorax Impact Test:	The thorax passed all impact test requirements.
Pelvic Impact Test:	The pelvis passed all impact test requirements.
Abdominal Compression Test:	The abdomen passed all compression test requirements.
Lumbar Flexion Test:	The lumbar passed all flexion test requirements.

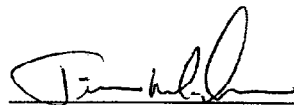
SIDE IMPACT DUMMY CONFIGURATION AND PERFORMANCE VERIFICATION DATA C-3

DUMMY SERIAL NUMBER: 271

DATE OF VERIFICATION: January 3, 2000

DESCRIPTION	SPECIFICATION	TEST RESULTS
SH - Seated Height (mm)	889 - 909	898
RH - Rib Height (mm)	501 -521	514
HP - Hip Pivot Height (mm)	99 ref.	99
RD - Rib From Back Line (mm)	229 - 241	235
KV - Knee Pivot From Back Line (mm)	511 - 526	518
SW - Knee Pivot to Floor (mm)	490 - 505	493
HW - Hip Width (mm)	356 - 391	375

MEASUREMENTS BY:



APPROVED BY:



MGA RESEARCH CORPORATION

C-4

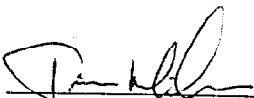
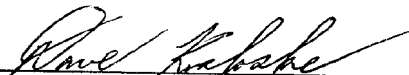
HEAD DROP TEST (LATERAL)

SIDE IMPACT DUMMY (SID)

DATE: January 3, 2000DUMMY SERIAL NUMBER: 271TEST NUMBER: D991501

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.0°
RELATIVE HUMIDITY (%)	10 - 70	34%
PEAK RESULTANT ACCELERATION	120 - 150 g's	122
IS RESULTANT CURVE UNIMODAL		Yes
PEAK LONGITUDINAL ACCELERATION	± 15 g's	-8

TEST MEETS SPECIFICATIONS

TECHNICIAN: APPROVED BY: 

TEST: Dummy Calibration - Head Drop

TEST DATE: 01-03-2000

COMPONENT: Dummy # 271

Minimum = 3.72E-02 G'S at 1 msec

Maximum = 122.16 G'S at 38 msec

PEAK RESULTANT ACCELERATION

1 _____ 099501AV.A01 Filterclass (1000)

180

160

140

120

100

80

60

40

20

0

G'S

0

10

20

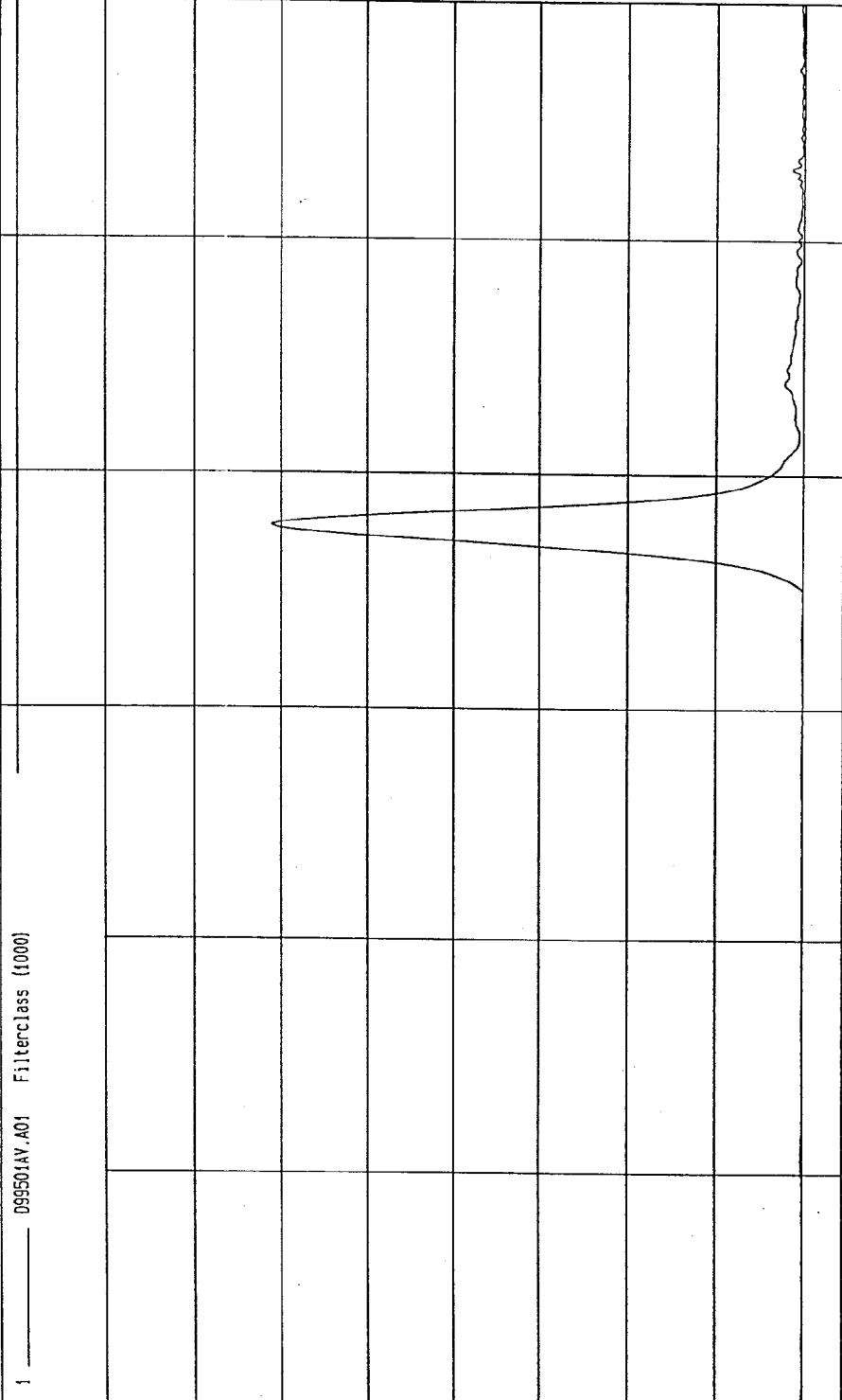
30

40

50

TIME (sec.)

MCA Research
01-03-2000 15:17



TEST: Dummy Calibration - Head Drop

TEST DATE: 01-03-2000

COMPONENT: Dummy # 271

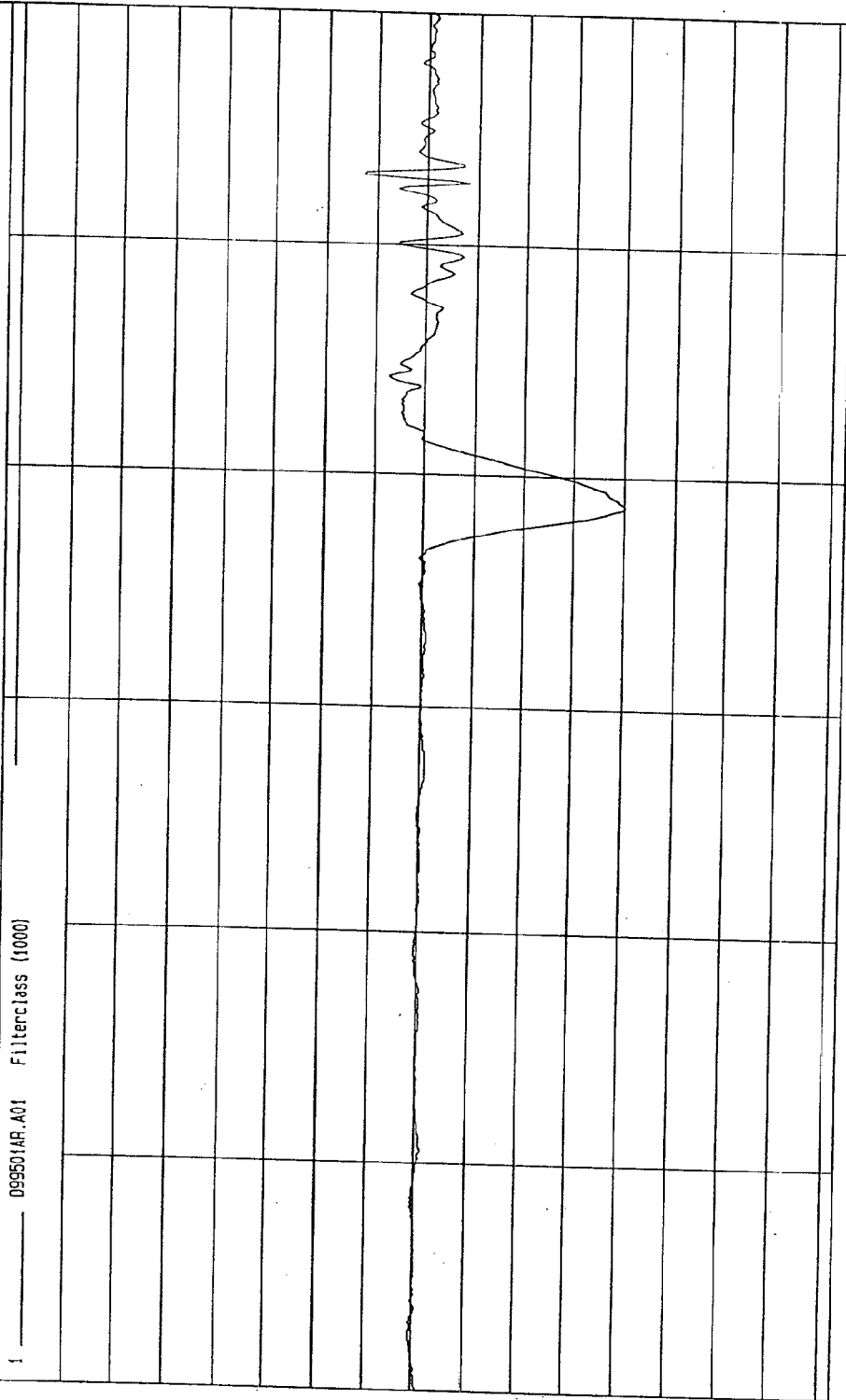
Minimum = -8.05 G'S at 39 msec

Maximum = 2.59 G'S at 53 msec

PEAK LONGITUDINAL ACCELERATION

1 _____ 099501AR.A01 Filterclass (1000)

16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
S.G



TIME (sec.)

MGA RESEARCH CORPORATION

C-7

NECK PENDULUM TEST

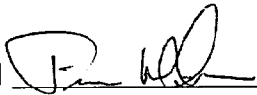
SIDE IMPACT DUMMY (SID)

DATE: January 3, 2000DUMMY NUMBER: 271TEST NUMBER: D991509

TEST PARAMETER		SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)		18.9° - 25.5° C	21.0°
RELATIVE HUMIDITY (%)		10 - 70%	34%
IMPACT VELOCITY		6.89 - 7.13 MS	7.04
PENDULUM DECELERATION	10 MS	1.96 - 2.55 MS	2.30
	20 MS	4.12 - 5.10 MS	4.68
	30 MS	5.73 - 7.01 MS	6.40
	40 - 70 MS	6.27 - 7.64 MS	6.83
MIDSAGGITAL PLANE MAX ROTATION		64° - 78°	74°
HEAD ROTATION PEAK TO ZERO- DECAY TIME		50 - 70 MS	63
MAX. M _x AT OCCIPITAL CONDYLES		88.1 - 108.5 NM	93.5
M _x PEAK TO ZERO - DECAY TIME		40 - 60 MS	53
M _x PEAK TO MAX. HEAD ROTATION		0 - 20 MS	8

TEST MEETS SPECIFICATIONS

TECHNICIAN



APPROVED BY



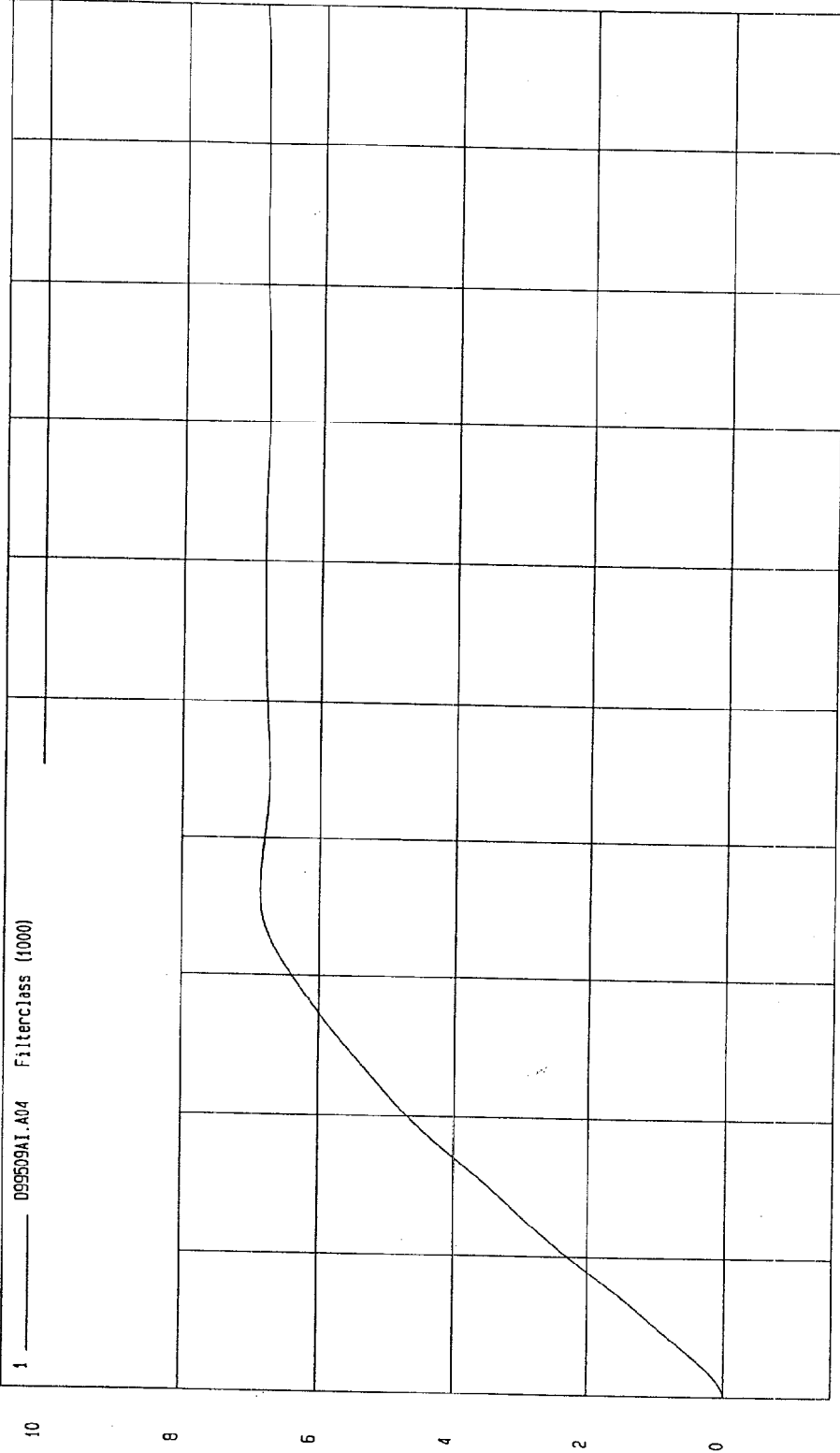
TEST: Dummy Calibration - Neck Bending TEST DATE: 01-03-2000 - 10:49:42

COMPONENT: Dummy # 271 Velocity: 23.09 FT/SEC 7.04 M/SEC

Minimum = 0 FT/SEC at 0 msec Maximum = 8.57 FT/SEC at 190. msec

PENDULUM DECELERATION

1 ——— 09509A1.A04 Filterclass (1000)



0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0

TIME SEC

WCA Research
01-25-2000 10:30

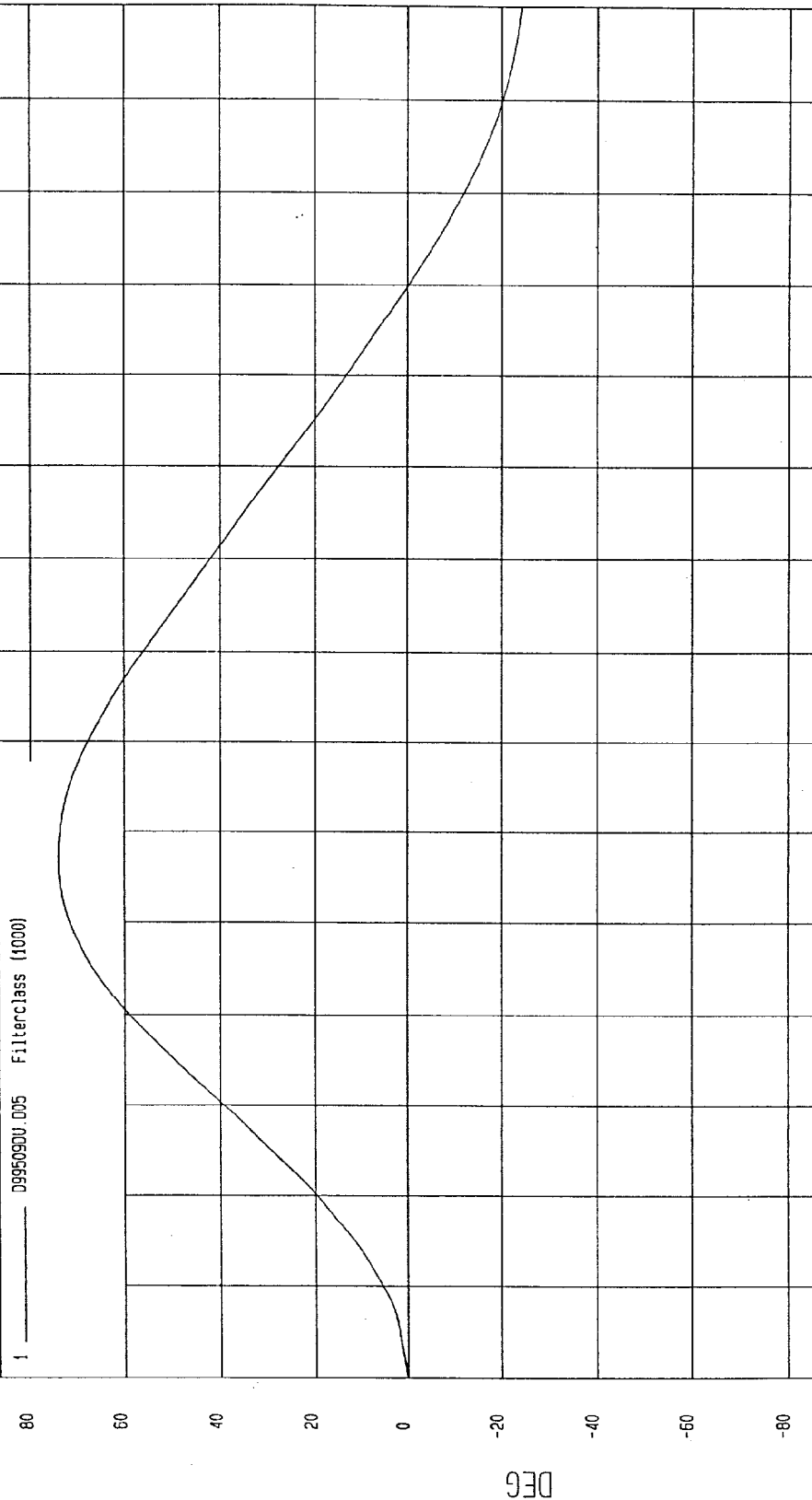
TEST: Dummy Calibration - Neck Bending TEST DATE: 01-03-2000 - 10:53:40

COMPONENT: Dummy # 271 Velocity: 23.09 FT/SEC 7.04 M/SEC

Minimum = -24.83 DEG at 153. msec Maximum = 74.15 DEG at 57 msec

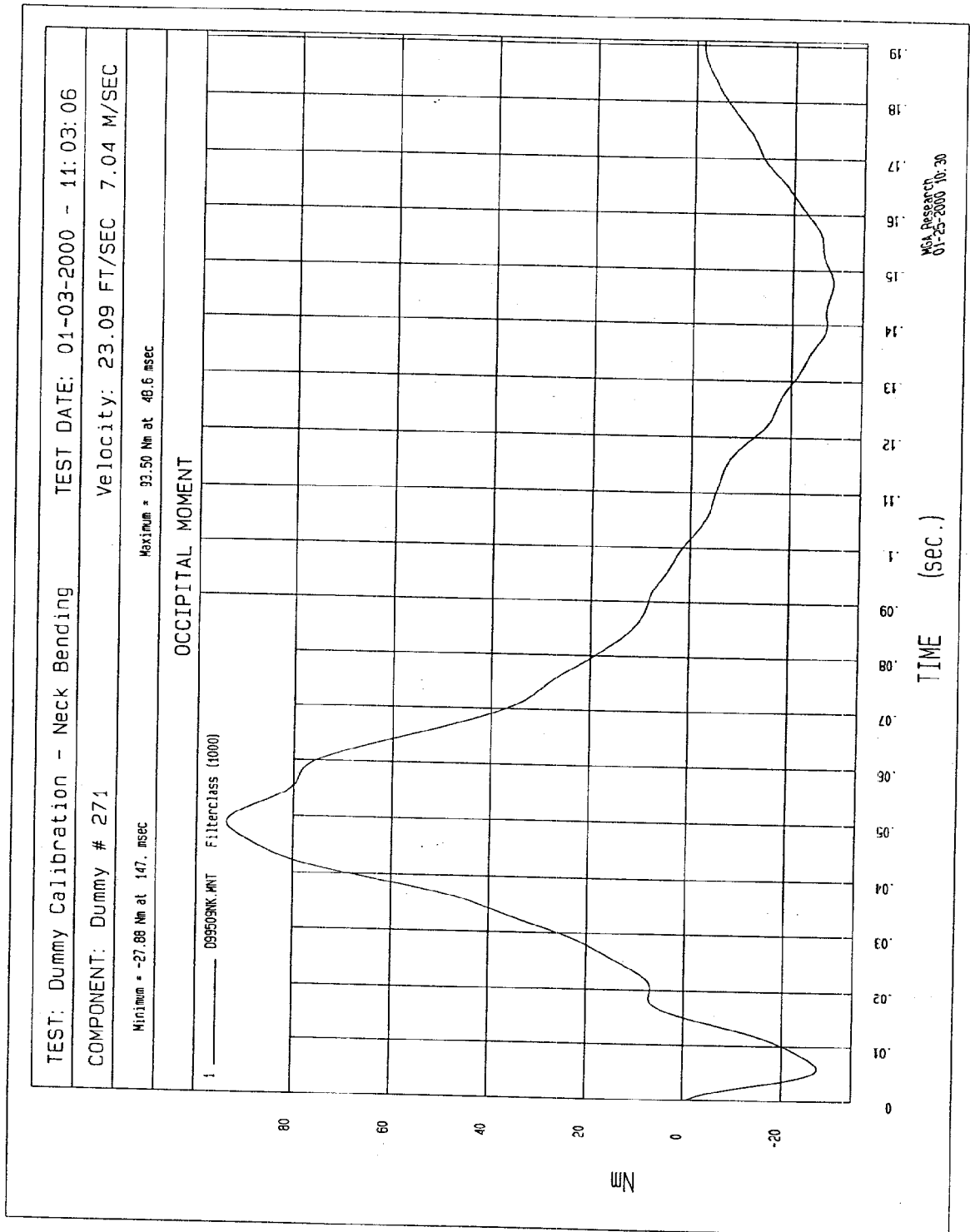
NECK ROTATION

1 ——— D995090U.D05 Filterclass (1000)



TIME (sec.)

MGA Research
01-25-2000 10:30



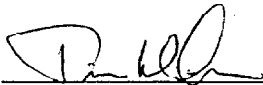
THORAX IMPACT TEST
SIDE IMPACT DUMMY (SID)

DATE: December 10, 1999DUMMY SERIAL NUMBER: 271TEST NUMBER: D991502

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.0°
RELATIVE HUMIDITY (%)	10 - 70	26%
PROBE SPEED (m/s)	4.27 - 4.33	4.28
UPPER RIB (g's)	37 - 46 g's	38
LOWER RIB (g's)	37 - 46 g's	39
LOWER SPINE (g's)	15 - 22 g's	19

TEST MEETS SPECIFICATIONS

TECHNICIAN



APPROVED BY

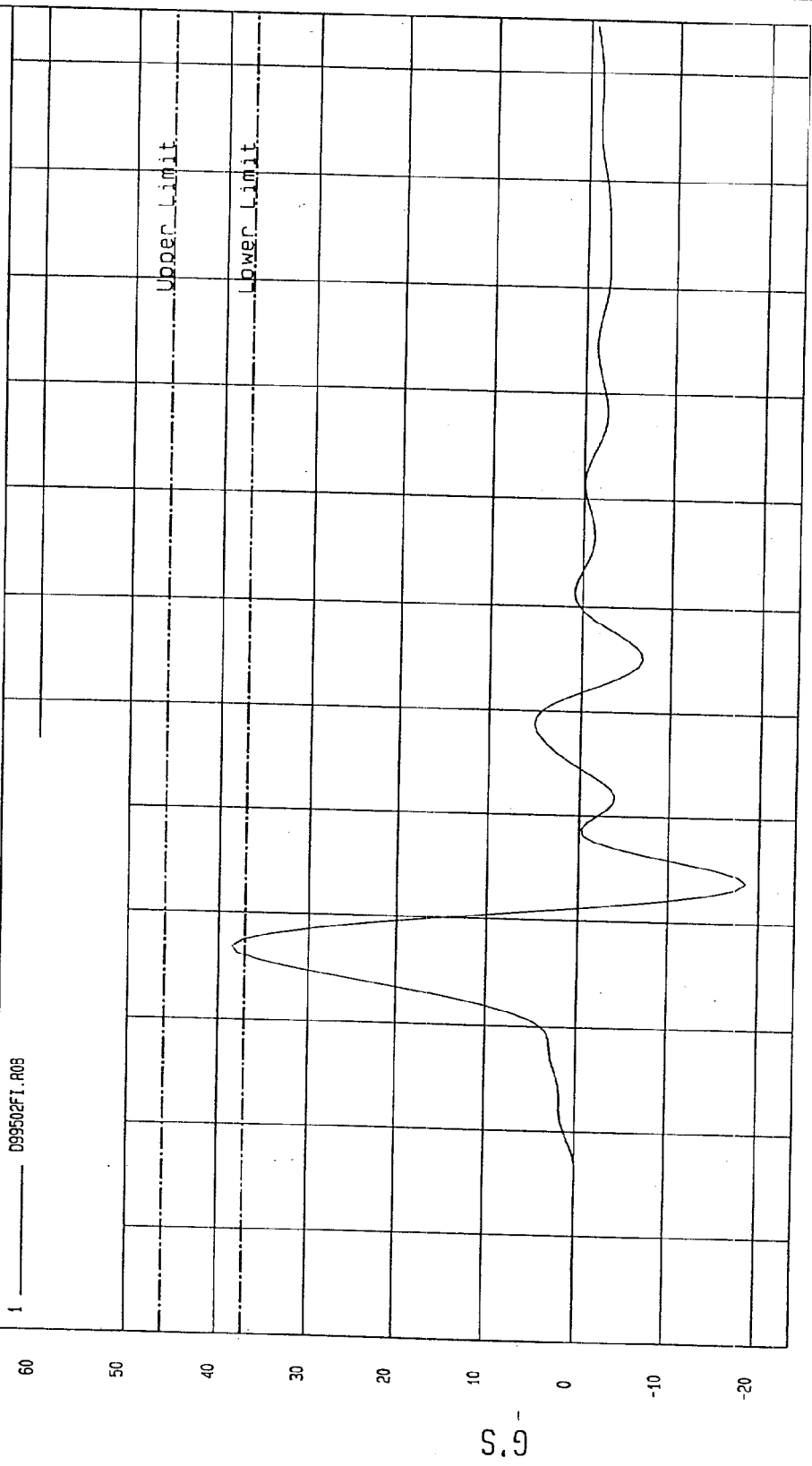


TEST: Dummy Calibration - Thorax Impact TEST DATE: 12-10-1999 - 10:09:13

COMPONENT: Dummy # 271 Velocity: 14.033 FT/SEC 4.28 M/SEC

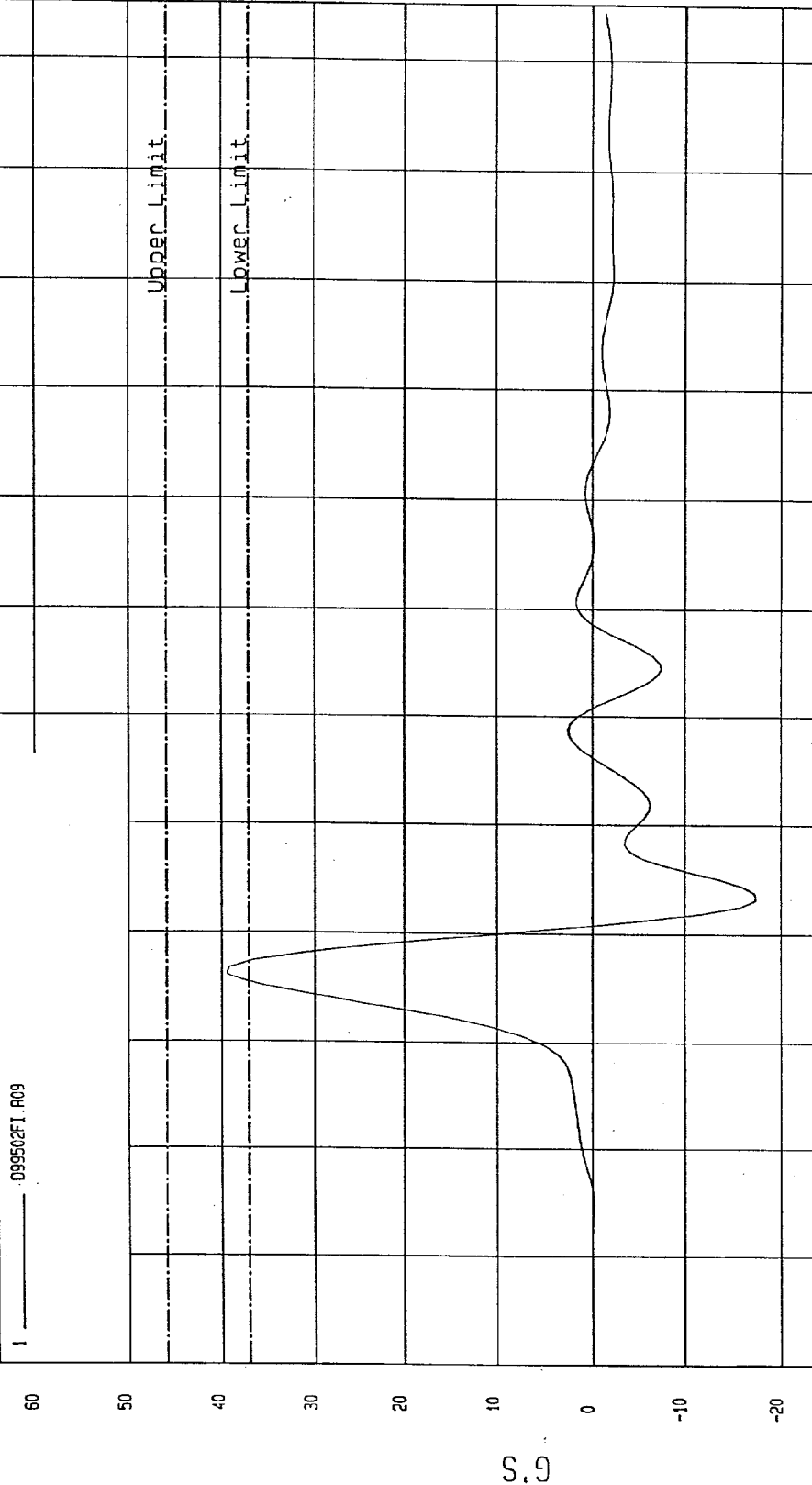
Minimum = -18.54 G'S at 43.7 msec Maximum = 38.45 G'S at 36.8 msec

UPPER RIB ACCELERATION



TEST: Dummy Calibration - Thorax Impact TEST DATE: 12-10-1999 - 10:09:13
 COMPONENT: Dummy # 271 Velocity: 14.033 FT/SEC 4.28 M/SEC
 Minimum = -17.23 G'S at 43.1 msec Maximum = 39.45 G'S at 36.2 msec

LOWER RIB ACCELERATION



MGA Research
 12-10-1999 10:22

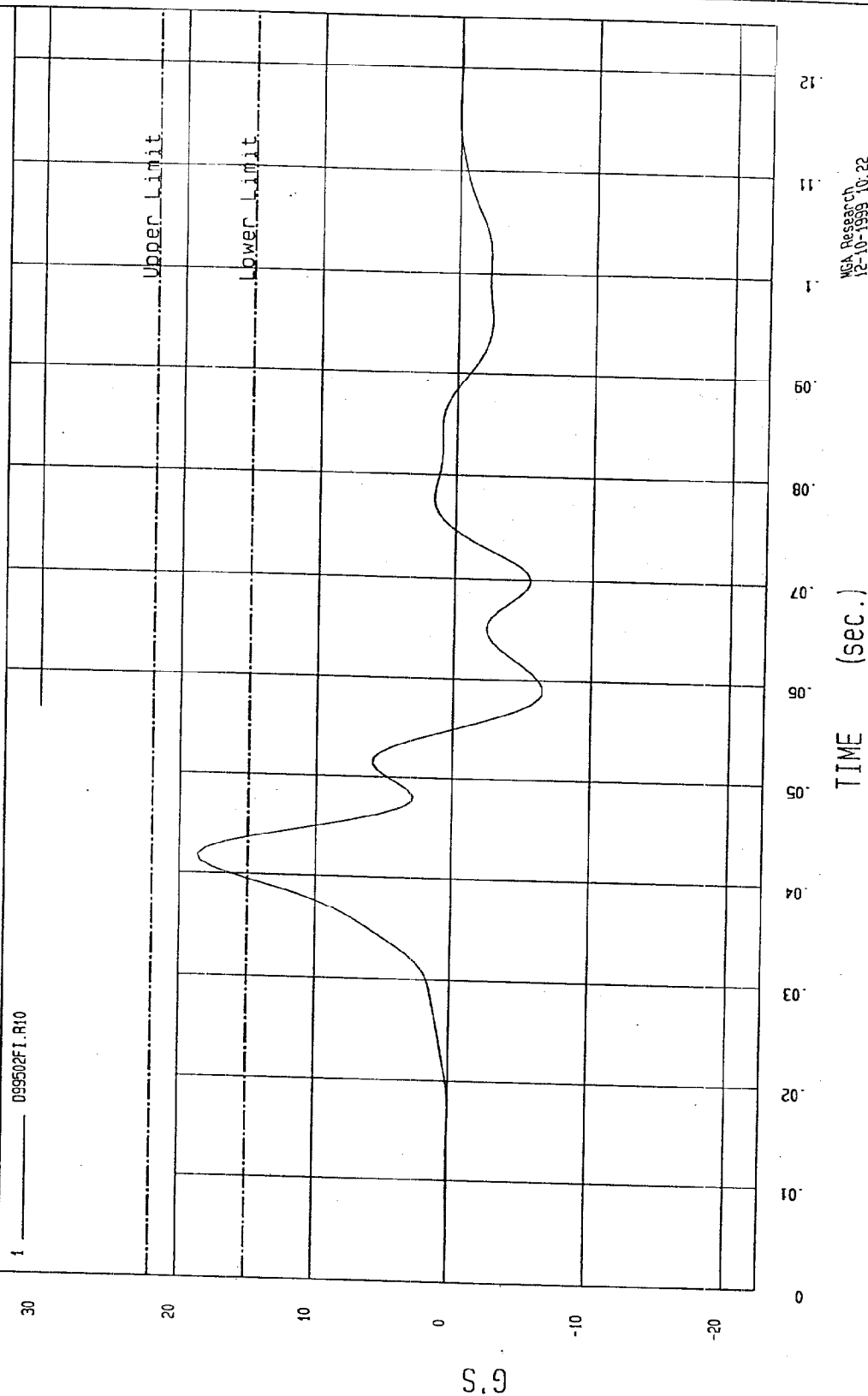
TEST: Dummy Calibration - Thorax Impact TEST DATE: 12-10-1999 - 10:09:13

COMPONENT: Dummy # 271 Velocity: 14.033 FT/SEC 4.28 M/SEC

Minimum = -6.43 G'S at 58.7 msec

Maximum = 18.66 G'S at 41.8 msec

LOWER SPINE ACCELERATION



PELVIS IMPACT TEST

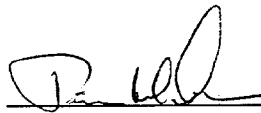
SIDE IMPACT DUMMY (SID)

DATE: December 10, 1999DUMMY SERIAL NUMBER: 271TEST NUMBER: D991503

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.0°
RELATIVE HUMIDITY (%)	10 - 70	26%
PROBE SPEED (m/s)	4.27 - 4.33	4.28
PELVIS ACCELERATION (g's)	40 - 60	44

TEST MEETS SPECIFICATIONS

TECHNICIAN



APPROVED BY

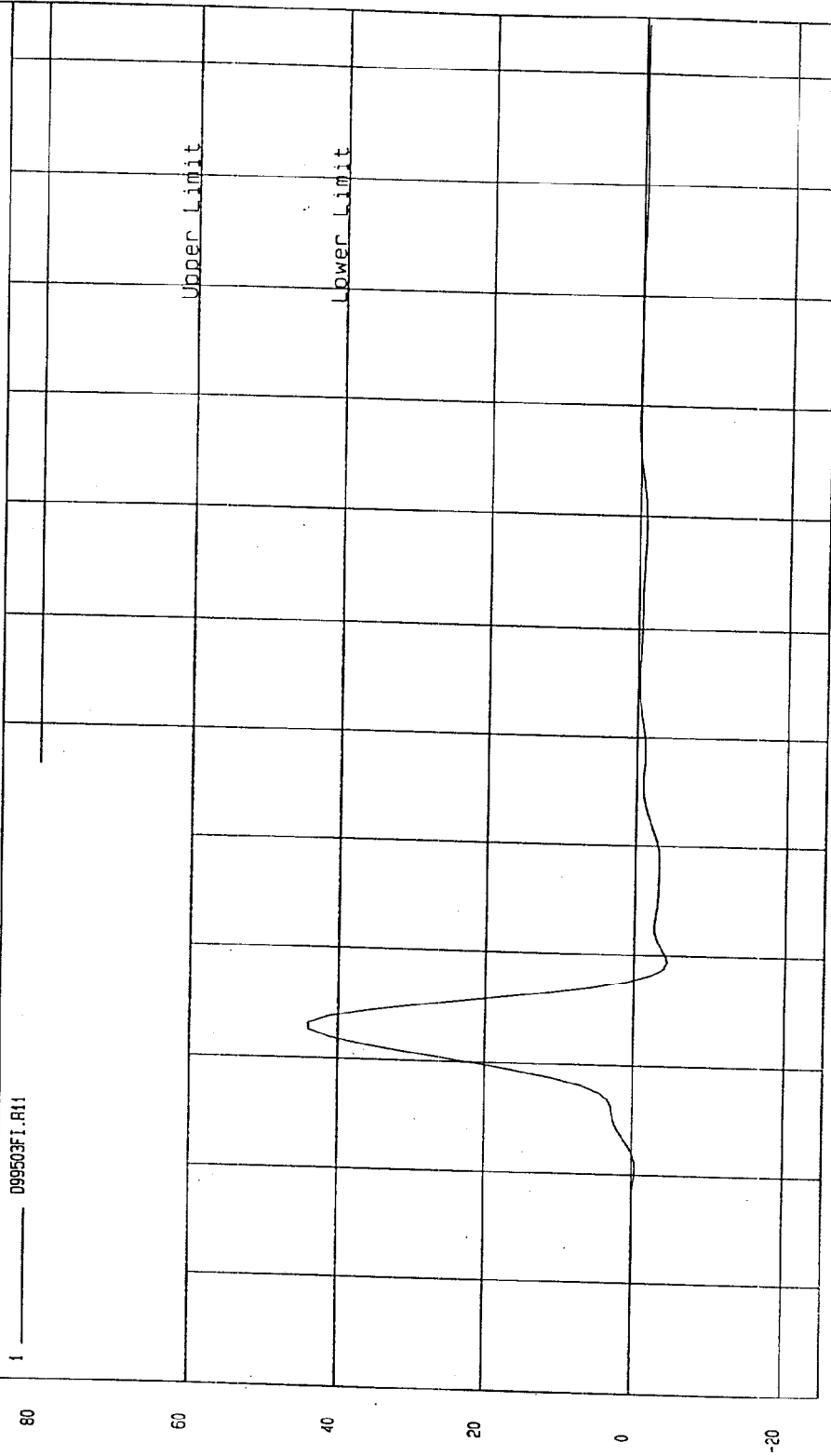


TEST: Dummy Calibration - Pelvis Impact TEST DATE: 12-10-1999 - 10:20:49

COMPONENT: Dummy # 271 Velocity: 14.03 FT/SEC 4.28 M/SEC

Minimum = -7.18 G'S at 196. msec Maximum = 44.19 G'S at 33.1 msec

PELVIS ACCELERATION



WGA Research
12-10-1999 10:22

MGA RESEARCH CORPORATION

C-17

ABDOMINAL COMPRESSION TEST
(PRELOAD = 10 LBS)

SIDE IMPACT DUMMY (SID)

DATE: December 10, 1999

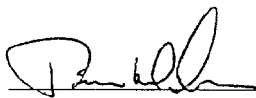
DUMMY SERIAL NUMBER: 271

TEST NUMBER: D991504

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.0°
RELATIVE HUMIDITY (%)	10 - 70	23%
FORCE @ 12.7 mm	104 - 162	147
FORCE @ 19.0 mm	163 - 222	202
FORCE @ 25.4 mm	222 - 280	265
FORCE @ 33 mm	325 - 391	357

TEST MEETS SPECIFICATIONS

TECHNICIAN



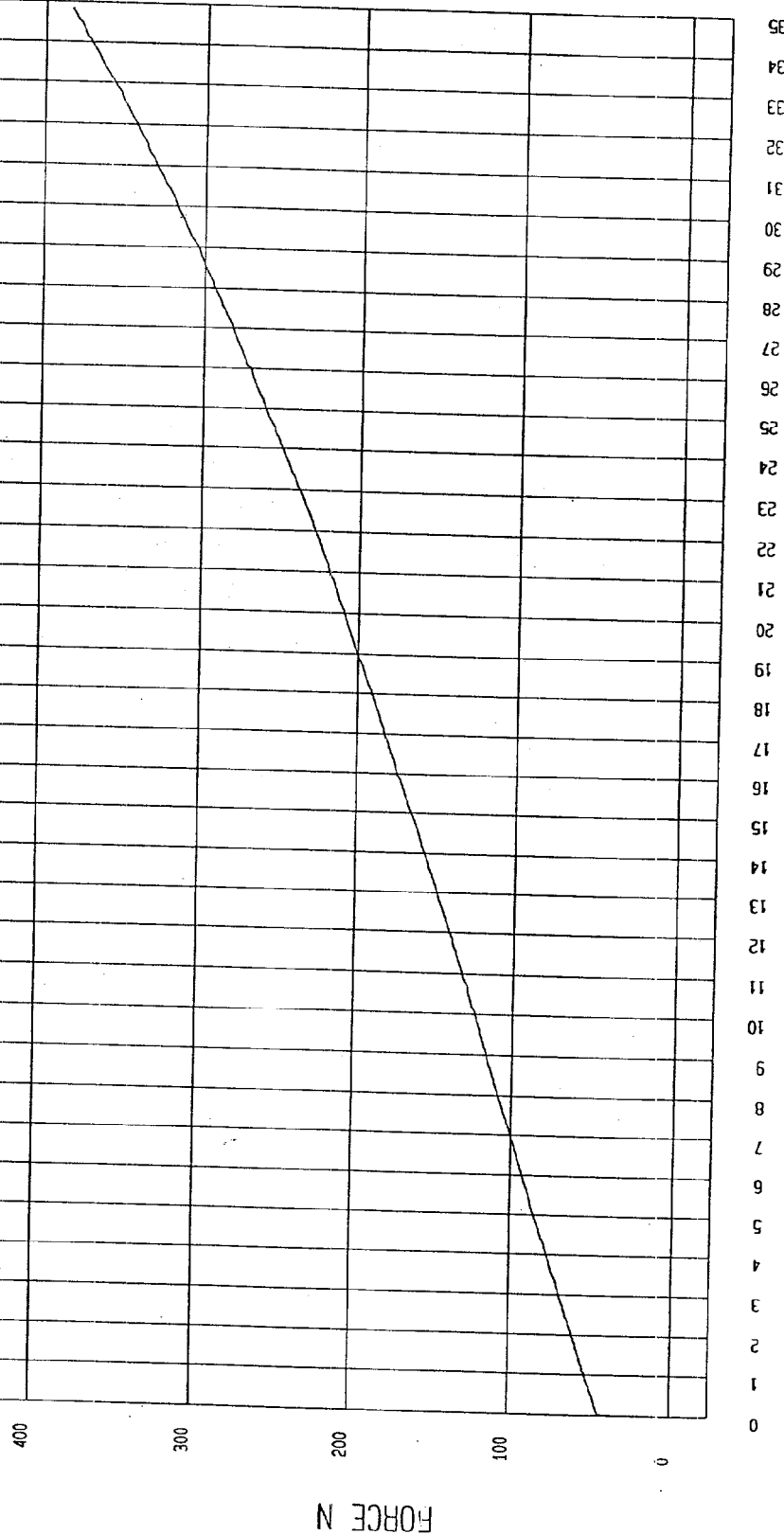
APPROVED BY



TEST: DUMMY CALIBRATION - ABDOMEN COMPRESSION TEST DATE: 12-10-1999 - 12:52:04

COMPONENT: DUMMY # 271

FORCE as a function of DISPLACEMENT



MEA Research
12-10-1999 13:36

MGA RESEARCH CORPORATION

C-19

LUMBAR FLEXION TEST

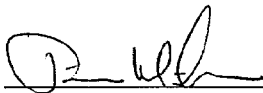
SIDE IMPACT DUMMY (SID)

DATE: December 10, 1999DUMMY SERIAL NUMBER: 271TEST NUMBER: D991505

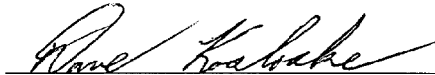
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.0°
RELATIVE HUMIDITY (%)	10 - 70	23%
FORCE @ 0°	0 - 26.7	0
FORCE @ 20°	97.9 - 151.2	136.3
FORCE @ 30°	151.2 - 204.6	156.3
FORCE @ 40°	204.6 - 258.0	208.1
RETURN ANGLE	12° maximum	5°

TEST MEETS SPECIFICATIONS

TECHNICIAN



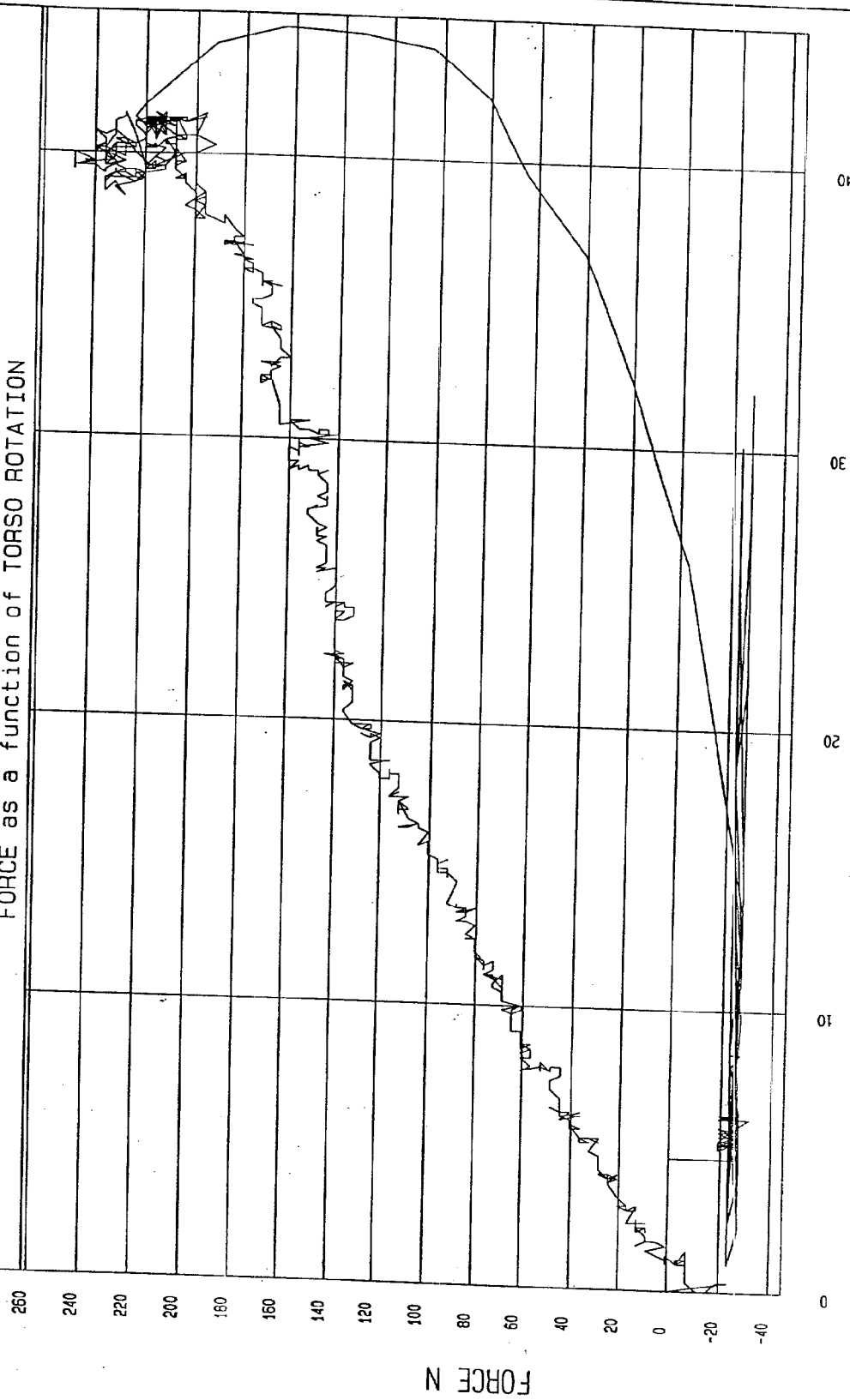
APPROVED BY



TEST: DUMMY CALIBRATION - LUMBAR FLEXION TEST DATE: 12-10-1999 - 12:06:14

COMPONENT: DUMMY # 271

FORCE as a function of TORSO ROTATION



NSA Research
12-10-1999 13:36

PRE-TEST CERTIFICATION DATA

C-21

Passenger Dummy Serial Number: 272

Passenger Dummy Serial Number: 272

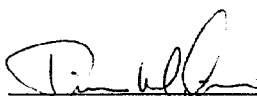
Pre-Test Calibration

External Dimensions:	The dummy passed all external dimension requirements.
Head Drop Test:	The head passed all drop test requirements.
Thorax Impact Test:	The thorax passed all impact test requirements.
Pelvic Impact Test:	The pelvis passed all impact test requirements.
Abdominal Compression Test:	The abdomen passed all compression test requirements.
Lumbar Flexion Test:	The lumbar passed all flexion test requirements.

SIDE IMPACT DUMMY CONFIGURATION AND PERFORMANCE VERIFICATION DATA **C-23**DUMMY SERIAL NUMBER: 272DATE OF VERIFICATION: December 10, 1999

DESCRIPTION	SPECIFICATION	TEST RESULTS
SH - Seated Height (mm)	889 - 909	895
RH - Rib Height (mm)	501 - 521	513
HP - Hip Pivot Height (mm)	99 ref.	99
RD - Rib From Back Line (mm)	229 - 241	236
KV - Knee Pivot From Back Line (mm)	511 - 526	523
SW - Knee Pivot to Floor (mm)	490 - 505	493
HW - Hip Width (mm)	356 - 391	374

MEASUREMENTS BY:



APPROVED BY:



MGA RESEARCH CORPORATION

C-24

HEAD DROP TEST

SIDE IMPACT DUMMY (SID)

DATE: December 10, 1999DUMMY NUMBER: 272TEST NUMBER: D991481

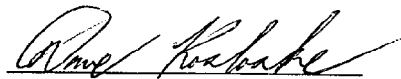
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9° - 25.5° C	21.0°
RELATIVE HUMIDITY	10 - 70%	26%
PEAK RESULTANT ACCELERATION	210 - 260 g's	249
PEAK LATERAL ACCELERATION	< 10 g's	2
TIME ABOVE 100 G.	0.9 - 1.5 msec.	1.2

TEST MEETS SPECIFICATIONS

TECHNICIAN



APPROVED BY



TEST: Dummy Calibration - Head Drop TEST DATE: 12-10-1999 - 15:36:47

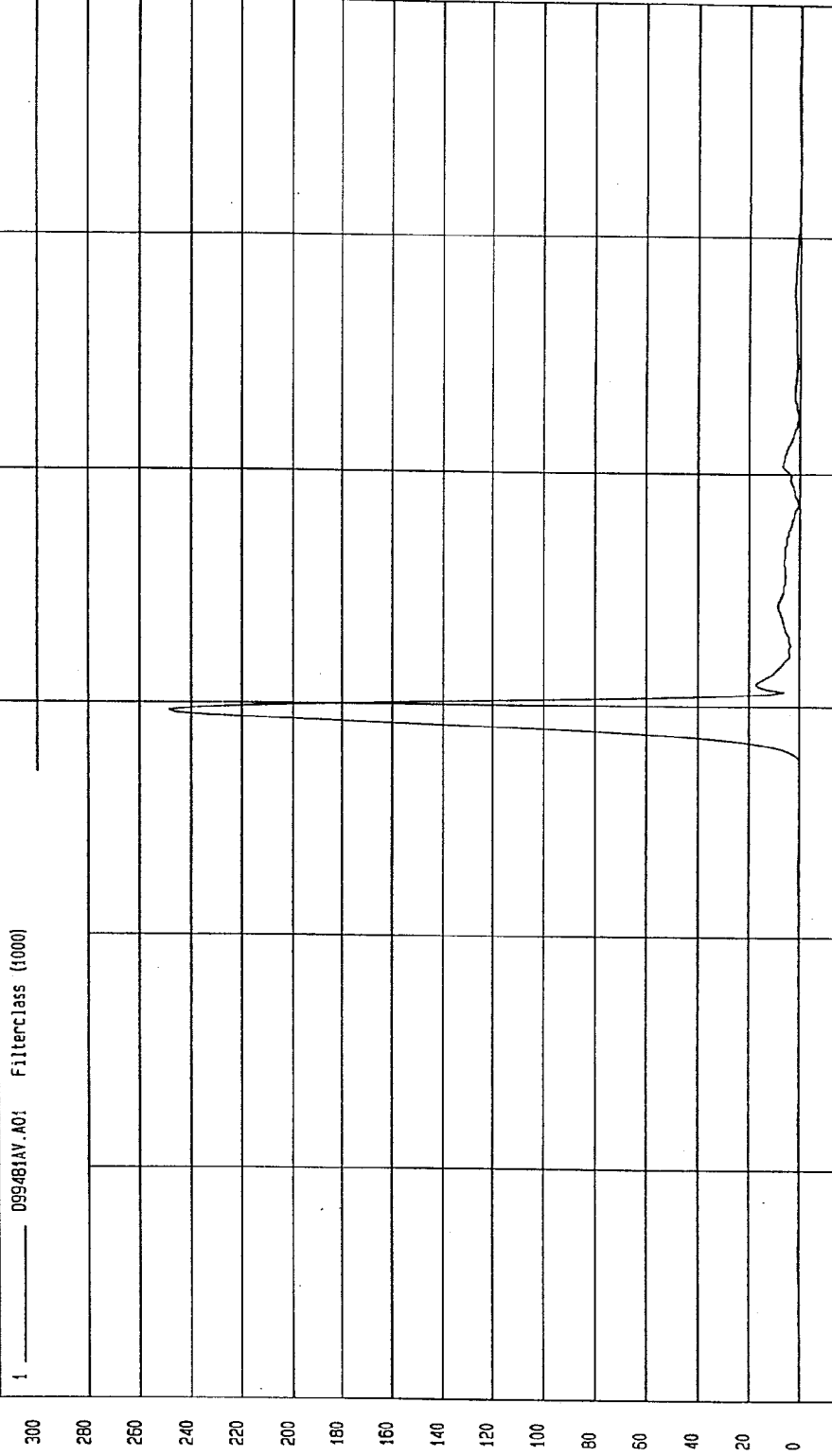
COMPONENT: Dummy # 272

Minimum = 3.76E-02 G'S at 1.4 msec

Maximum = 248.67 G'S at 29.7 msec

PEAK RESULTANT ACCELERATION

1 ——— 099481AV.A01 Filterclass (1000)



TIME (sec.)

MSA Research
12-10-1999 15:37

TEST: Dummy Calibration - Head Drop

TEST DATE: 12-10-1999 - 15:36:47

COMPONENT: Dummy # 272

Minimum = -2.35 G'S at 104. msec

Maximum = 2.44 G'S at 29.7 msec

PEAK LATERAL ACCELERATION

1 ——— D99481AR.A02 Filterclass (1000)

G.S

16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16

TIME (sec.)

.01

.02

.03

.04

.05

MGA Research
12-10-1999 15:37

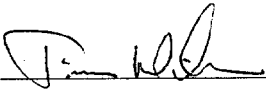
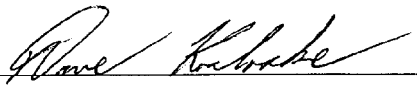
THORAX IMPACT TEST

SIDE IMPACT DUMMY (SID)

DATE: December 10, 1999DUMMY SERIAL NUMBER: 272TEST NUMBER: D991482

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.0°
RELATIVE HUMIDITY (%)	10 - 70	26%
PROBE SPEED (m/s)	4.27 - 4.33	4.27
UPPER RIB (g's)	37 - 46 g's	43
LOWER RIB (g's)	37 - 46 g's	43
LOWER SPINE (g's)	15 - 22 g's	22

TEST MEETS SPECIFICATIONS

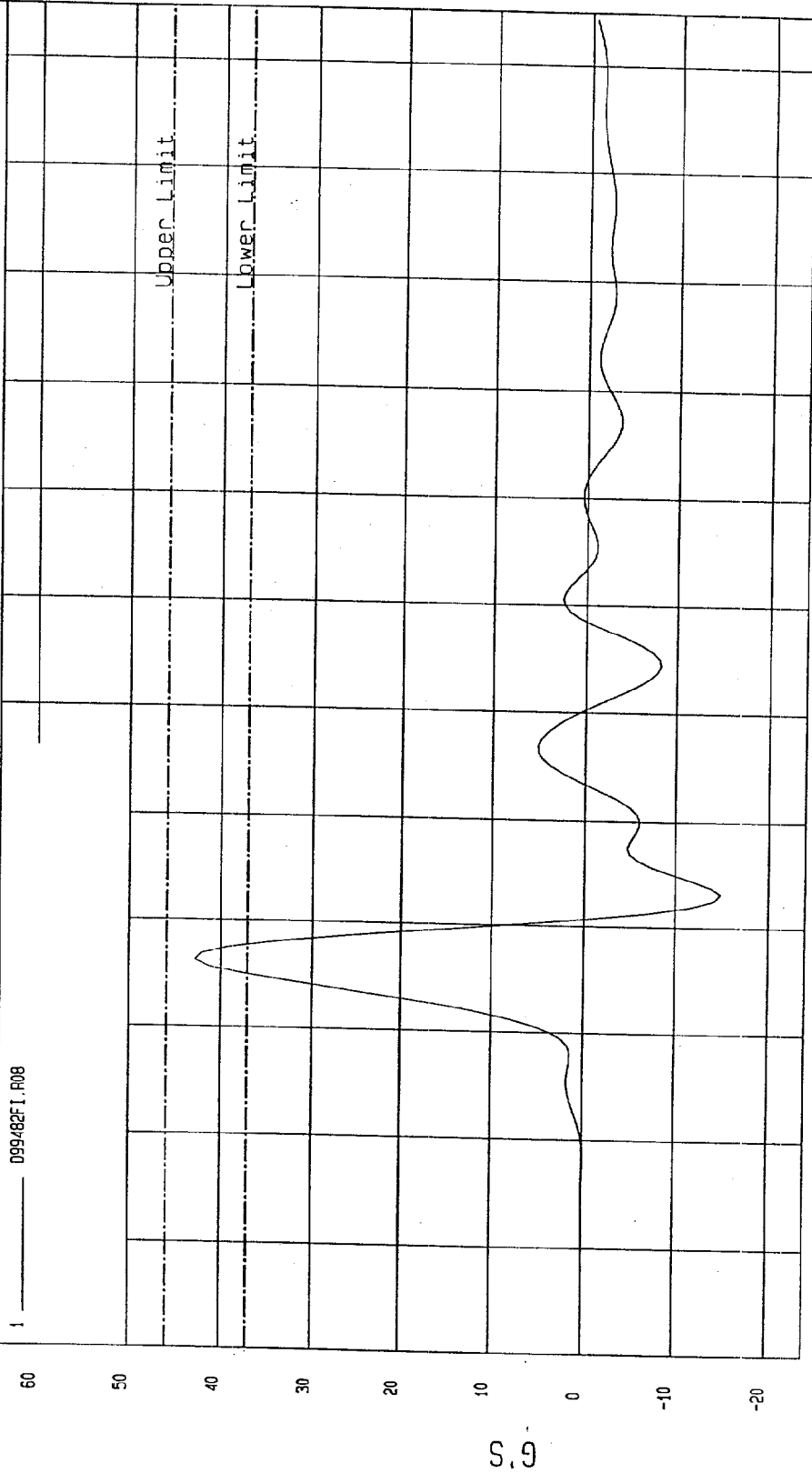
TECHNICIAN APPROVED BY 

TEST: Dummy Calibration - Thorax Impact TEST DATE: 12-10-1999 - 10:54:19

COMPONENT: Dummy # 272 Velocity: 14.006 FT/SEC 4.27 M/SEC

Minimum = -14.82 G'S at 43.1 msec
Maximum = 42.88 G'S at 35.2 msec

UPPER RIB ACCELERATION



NCA Research
12-10-1999 11:03

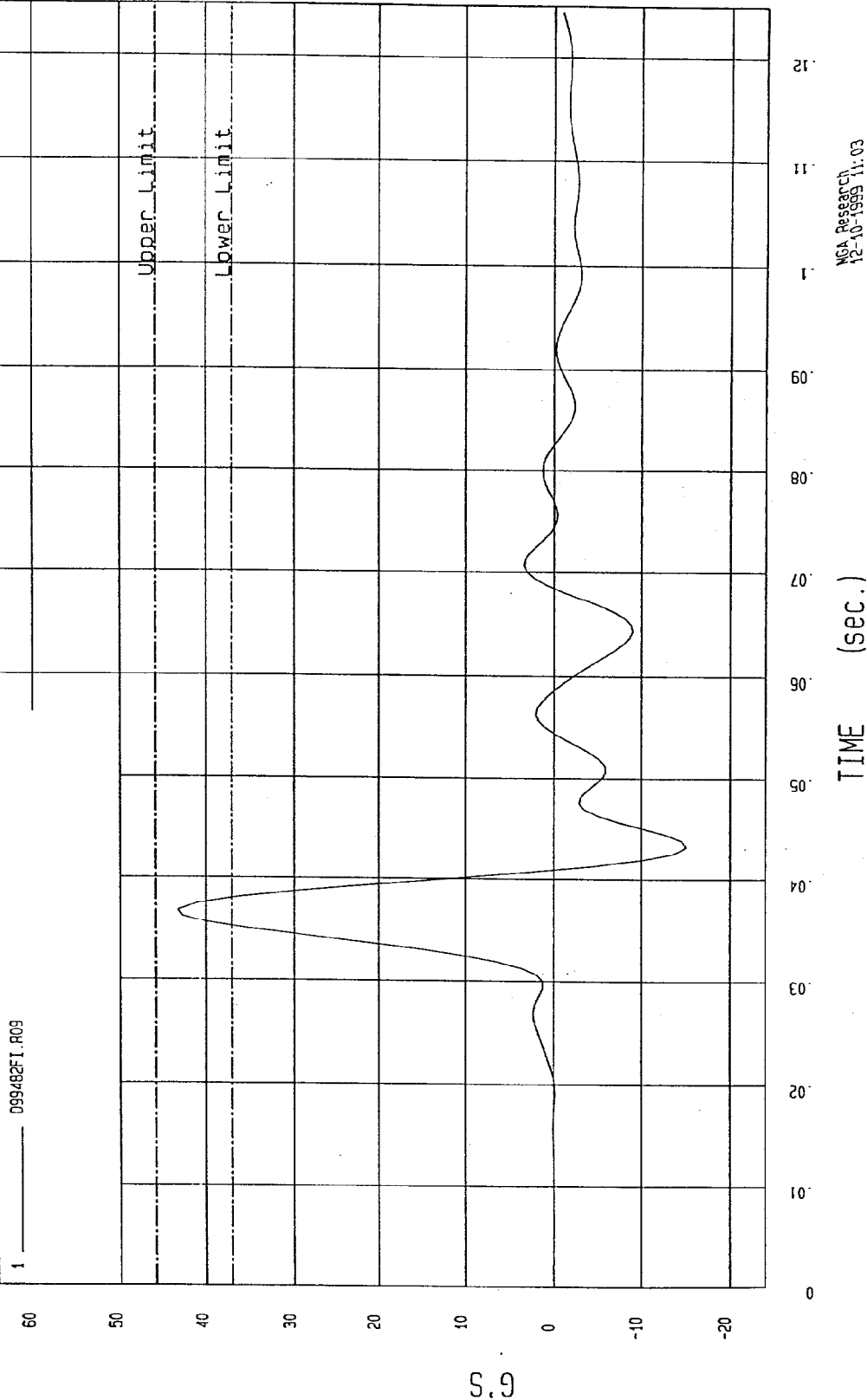
TEST: Dummy Calibration - Thorax Impact TEST DATE: 12-10-1999 - 10:54:19

COMPONENT: Dummy # 272 Velocity: 14.006 FT/SEC 4.27 M/SEC

Minimum = -15.01 G'S at 43.1 msec

Maximum = 43.33 G'S at 36.8 msec

LOWER RIB ACCELERATION

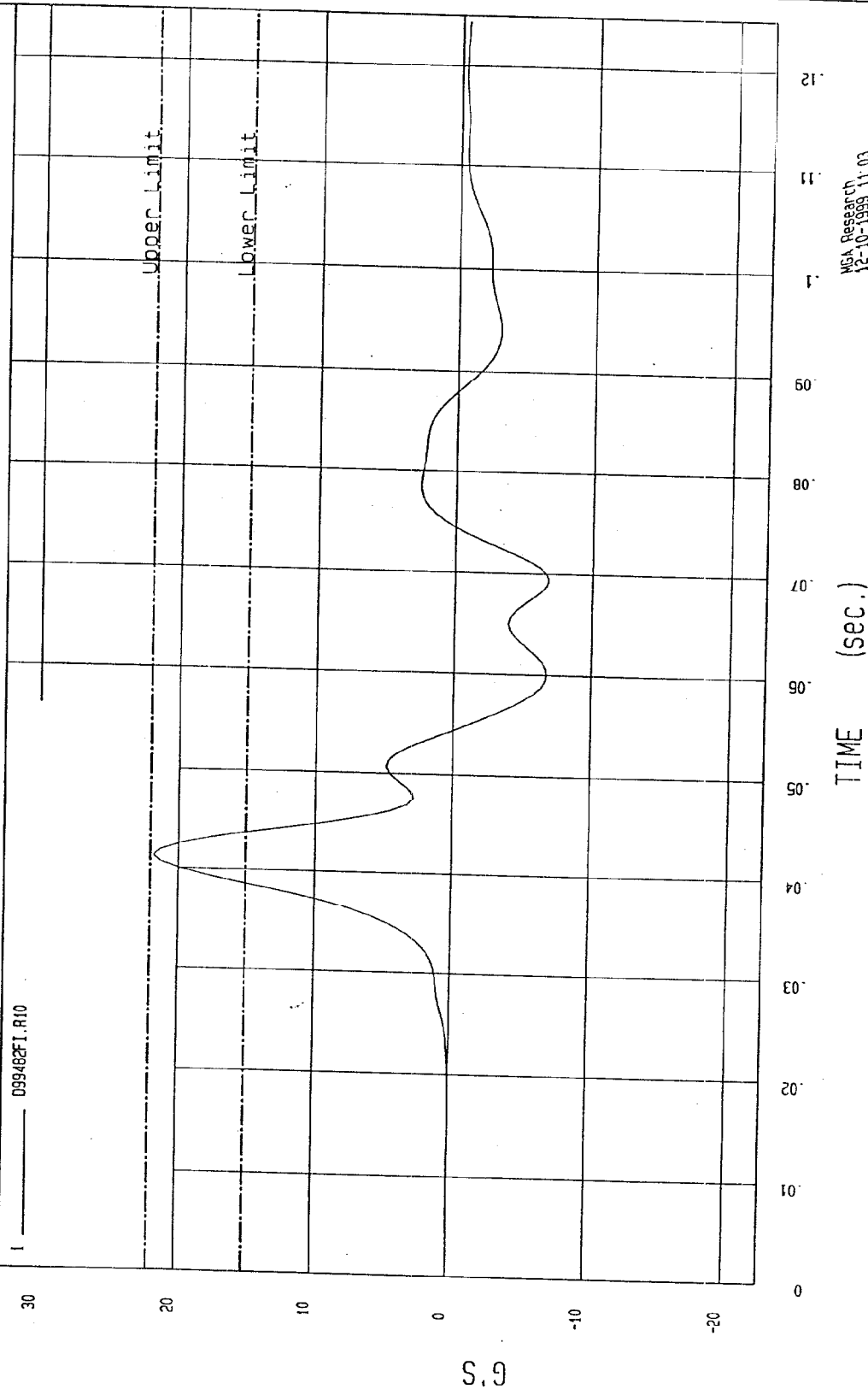


TEST: Dummy Calibration - Thorax Impact TEST DATE: 12-10-1999 - 10:56:59

COMPONENT: Dummy # 272 Velocity: 14.006 FT/SEC 4.27 M/SEC

Minimum = -6.81 G'S at 69.3 msec Maximum = 21.76 G'S at 41.2 msec

LOWER SPINE ACCELERATION



MGA RESEARCH CORPORATION

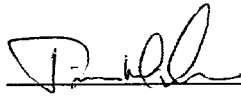
C-31

PELVIS IMPACT TEST
SIDE IMPACT DUMMY (SID)DATE: December 10, 1999DUMMY SERIAL NUMBER: 272TEST NUMBER: D991483

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.0°
RELATIVE HUMIDITY (%)	10 - 70	26%
PROBE SPEED (m/s)	4.27 - 4.33	4.29
PELVIS ACCELERATION (g's)	40 - 60	53

TEST MEETS SPECIFICATIONS

TECHNICIAN



APPROVED BY



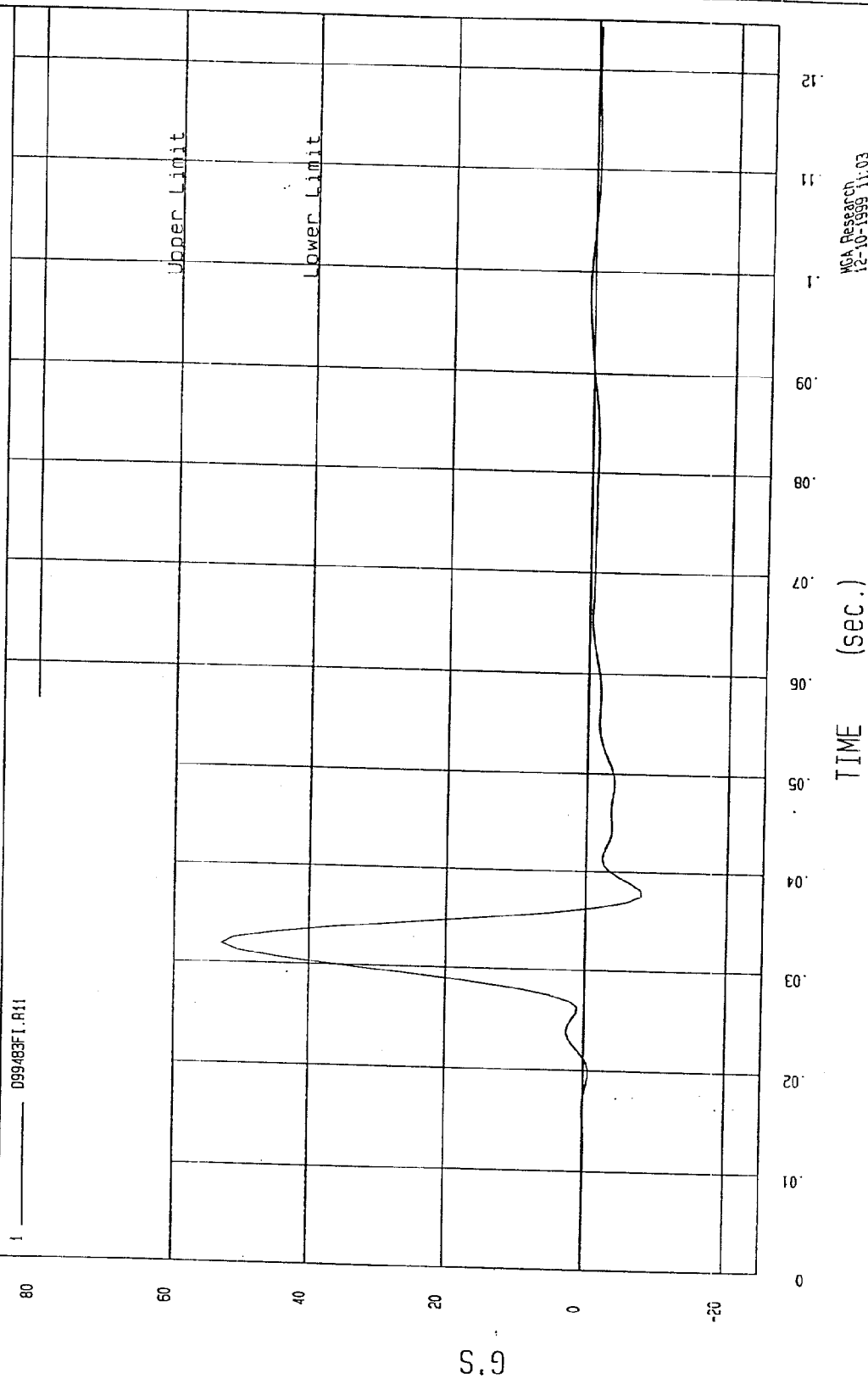
TEST: Dummy Calibration - Pelvis Impact TEST DATE: 12-10-1999 - 11:02:39

COMPONENT: Dummy # 272 Velocity: 14.068 FT/SEC 4.29 M/SEC

Minimum = -9.71 G'S at 195. msec

Maximum = 53.00 G'S at 31.8 msec

PELVIS ACCELERATION



ABDOMINAL COMPRESSION TEST
(PRELOAD = 10 LBS)

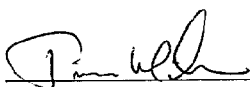
SIDE IMPACT DUMMY (SID)

DATE: December 10, 1999DUMMY SERIAL NUMBER: 272TEST NUMBER: D991484

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.0°
RELATIVE HUMIDITY (%)	10 - 70	23%
FORCE @ 12.7 mm	104 - 162	134
FORCE @ 19.0 mm	163 - 222	185
FORCE @ 25.4 mm	222 - 280	248
FORCE @ 33 mm	325 - 391	335

TEST MEETS SPECIFICATIONS

TECHNICIAN



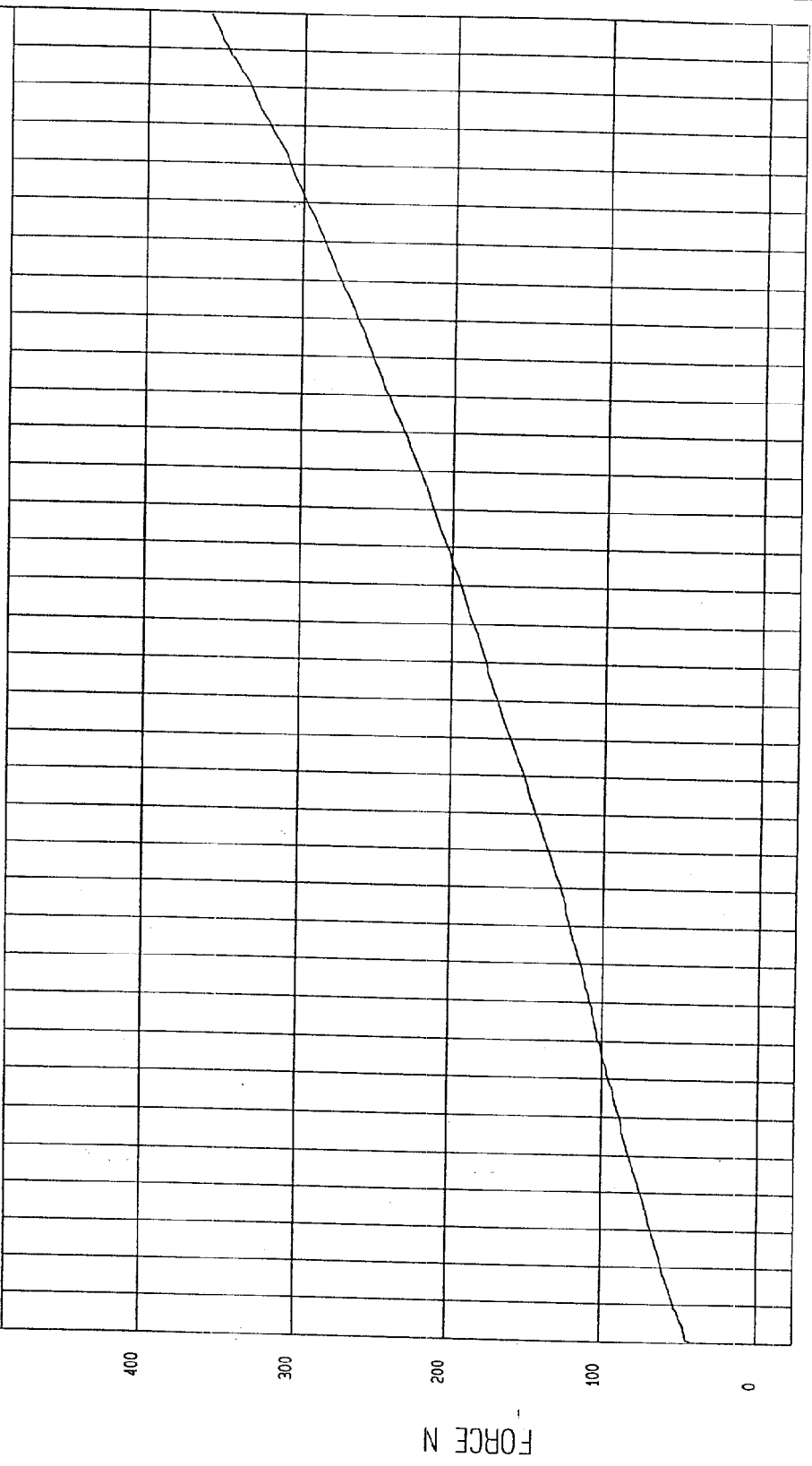
APPROVED BY



TEST: DUMMY CALIBRATION - ABDOMEN COMPRESSION TEST DATE: 12-10-1999 - 12:55:57

COMPONENT: DUMMY # 272

FORCE as a function of DISPLACEMENT



NCA Research
12-10-1999 15:36

DISPLACEMENT mm

MGA RESEARCH CORPORATION

C-35

LUMBAR FLEXION TEST

SIDE IMPACT DUMMY (SID)

DATE: December 10, 1999DUMMY SERIAL NUMBER: 272TEST NUMBER: D991485

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.0°
RELATIVE HUMIDITY (%)	10 - 70	23%
FORCE @ 0°	0 - 26.7	0
FORCE @ 20°	97.9 - 151.2	107.8
FORCE @ 30°	151.2 - 204.6	159.7
FORCE @ 40°	204.6 - 258.0	215.5
RETURN ANGLE	12° maximum	3°

TEST MEETS SPECIFICATIONS

TECHNICIAN



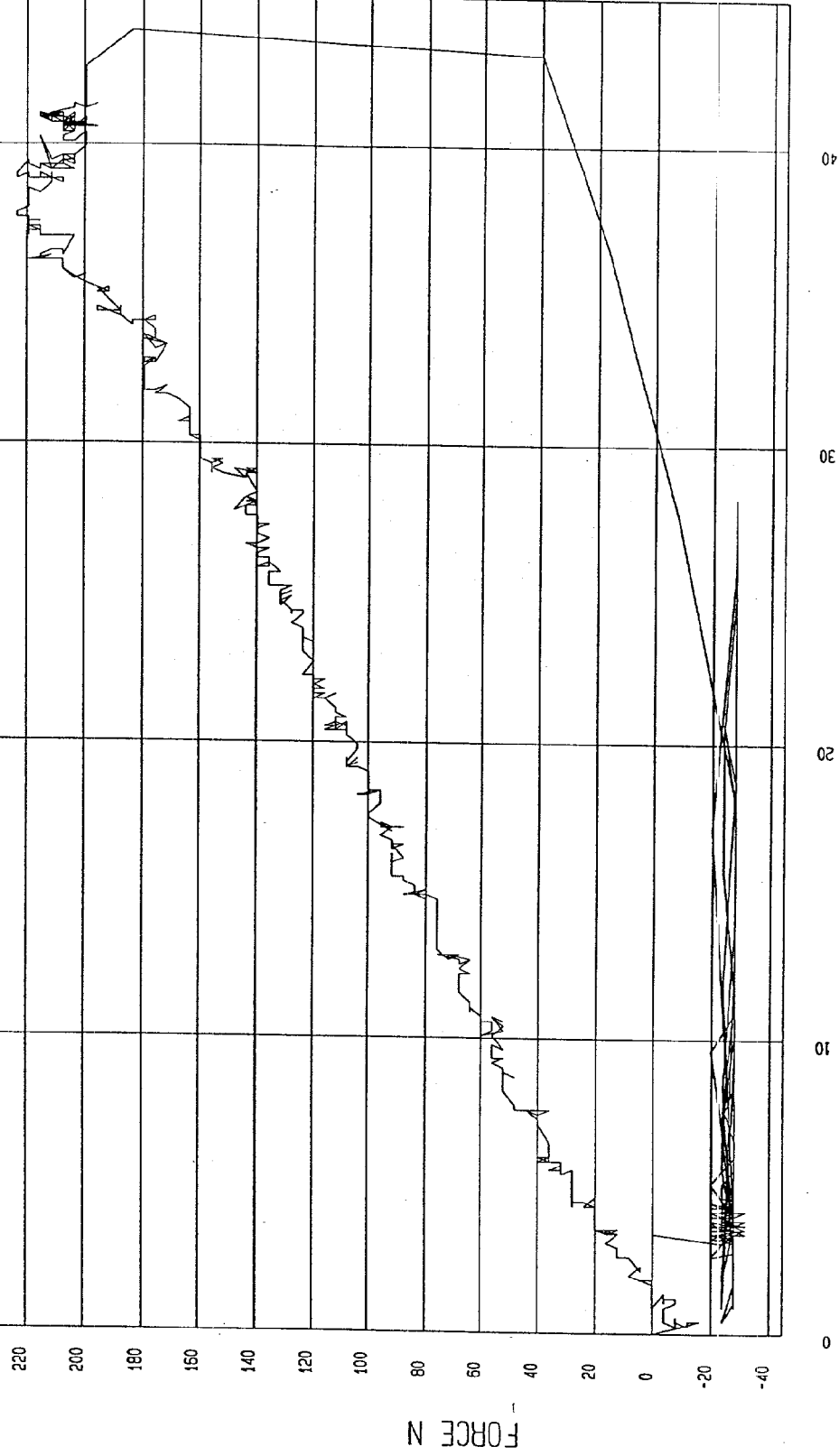
APPROVED BY



TEST: DUMMY CALIBRATION - LUMBAR FLEXION TEST DATE: 12-10-1999 - 12:26:16

COMPONENT: DUMMY # 272

FORCE as a function of TORSO ROTATION



MGA Research
12-10-1999 15:36

POST-TEST CERTIFICATION DATA

C-37

Driver Dummy Serial Number: 271

Driver Dummy Serial Number: 271

Post-Test Calibration

External Dimensions:	The dummy passed all external dimension requirements.
Head Drop Test:	The head passed all drop test requirements.
Neck Bending Test:	The neck passed all bending requirements.
Thorax Impact Test:	The thorax passed all impact test requirements.
Pelvic Impact Test:	The pelvis passed all impact test requirements.
Abdominal Compression Test:	The abdomen passed all compression test requirements.
Lumbar Flexion Test:	The lumbar passed all flexion test requirements.

SIDE IMPACT DUMMY CONFIGURATION AND PERFORMANCE VERIFICATION DATA C-39

DUMMY SERIAL NUMBER: 271

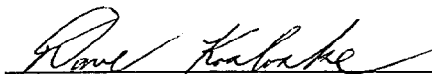
DATE OF VERIFICATION: January 19, 2000

DESCRIPTION	SPECIFICATION	TEST RESULTS
SH - Seated Height (mm)	889 - 909	898
RH - Rib Height (mm)	501 - 521	514
HP - Hip Pivot Height (mm)	99 ref.	99
RD - Rib From Back Line (mm)	229 - 241	235
KV - Knee Pivot From Back Line (mm)	511 - 526	518
SW - Knee Pivot to Floor (mm)	490 - 505	493
HW - Hip Width (mm)	356 - 391	375

MEASUREMENTS BY:



APPROVED BY:



MGA RESEARCH CORPORATION

C-40

HEAD DROP TEST (LATERAL)

SIDE IMPACT DUMMY (SID)

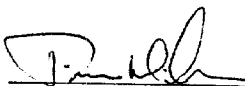
DATE: January 18, 2000

DUMMY SERIAL NUMBER: 271

TEST NUMBER: D00121

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.0°
RELATIVE HUMIDITY (%)	10 - 70	21%
PEAK RESULTANT ACCELERATION	120 - 150 g's	133
IS RESULTANT CURVE UNIMODAL	within 15% of peak	Yes
PEAK LONGITUDINAL ACCELERATION	± 15 g's	-8

TEST MEETS SPECIFICATIONS

TECHNICIAN: 

APPROVED BY: 

TEST: Dummy Calibration - Head Drop TEST DATE: 01-18-2000 - 12:12:46

COMPONENT: Dummy # 271

Minimum = .05 G'S at 0 msec

Maximum = 133.18 G'S at 36.8 msec

PEAK RESULTANT ACCELERATION

1 ——— 000121AV.A01 Filterclass (1000)

180
160
140
120
100
80
60
40
20
0

G

50

40

30

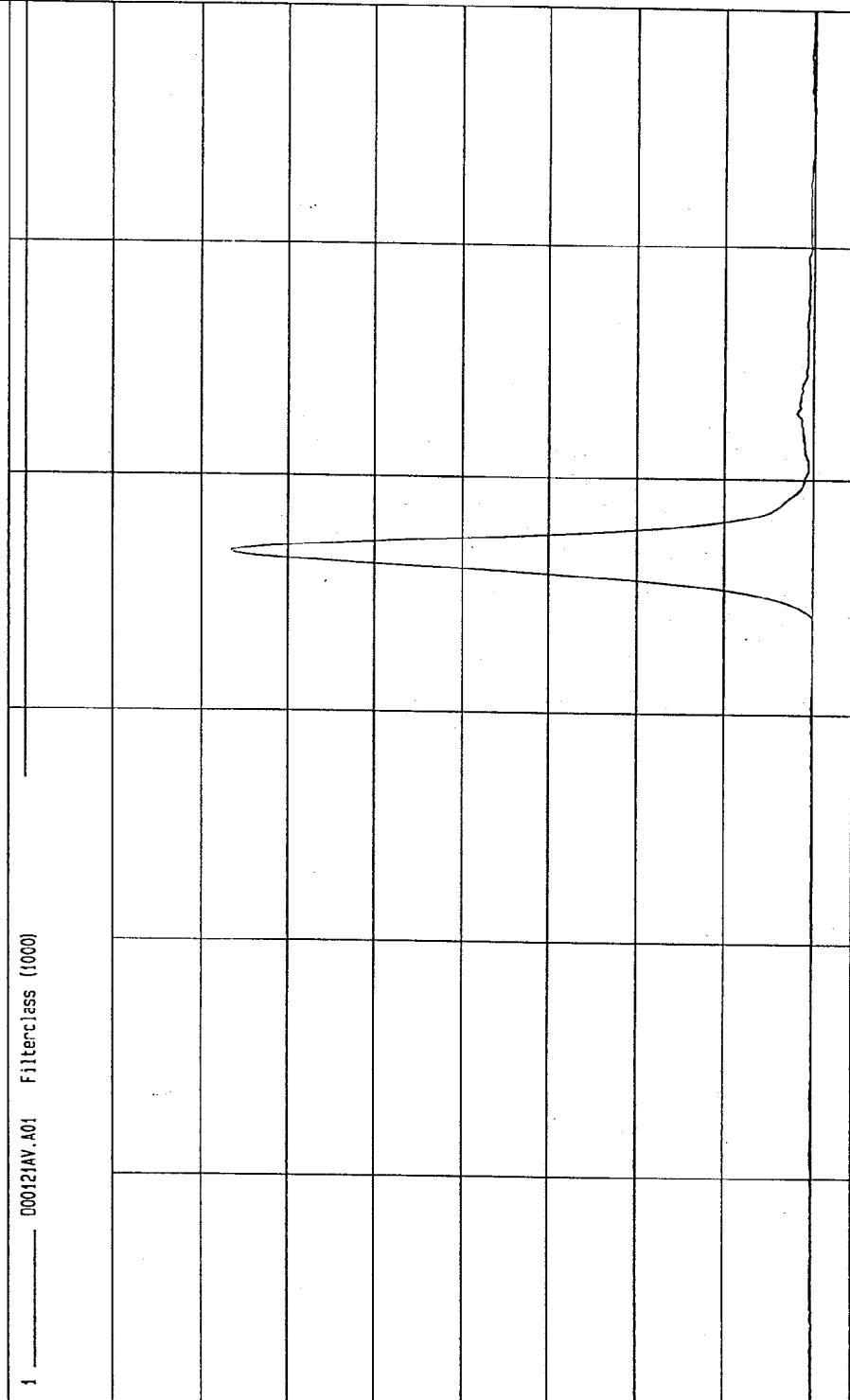
20

10

0

TIME (sec.)

MSA Research
01-18-2000 12:15



TEST: Dummy Calibration - Head Drop TEST DATE: 01-18-2000 - 12:14:18

COMPONENT: Dummy # 271

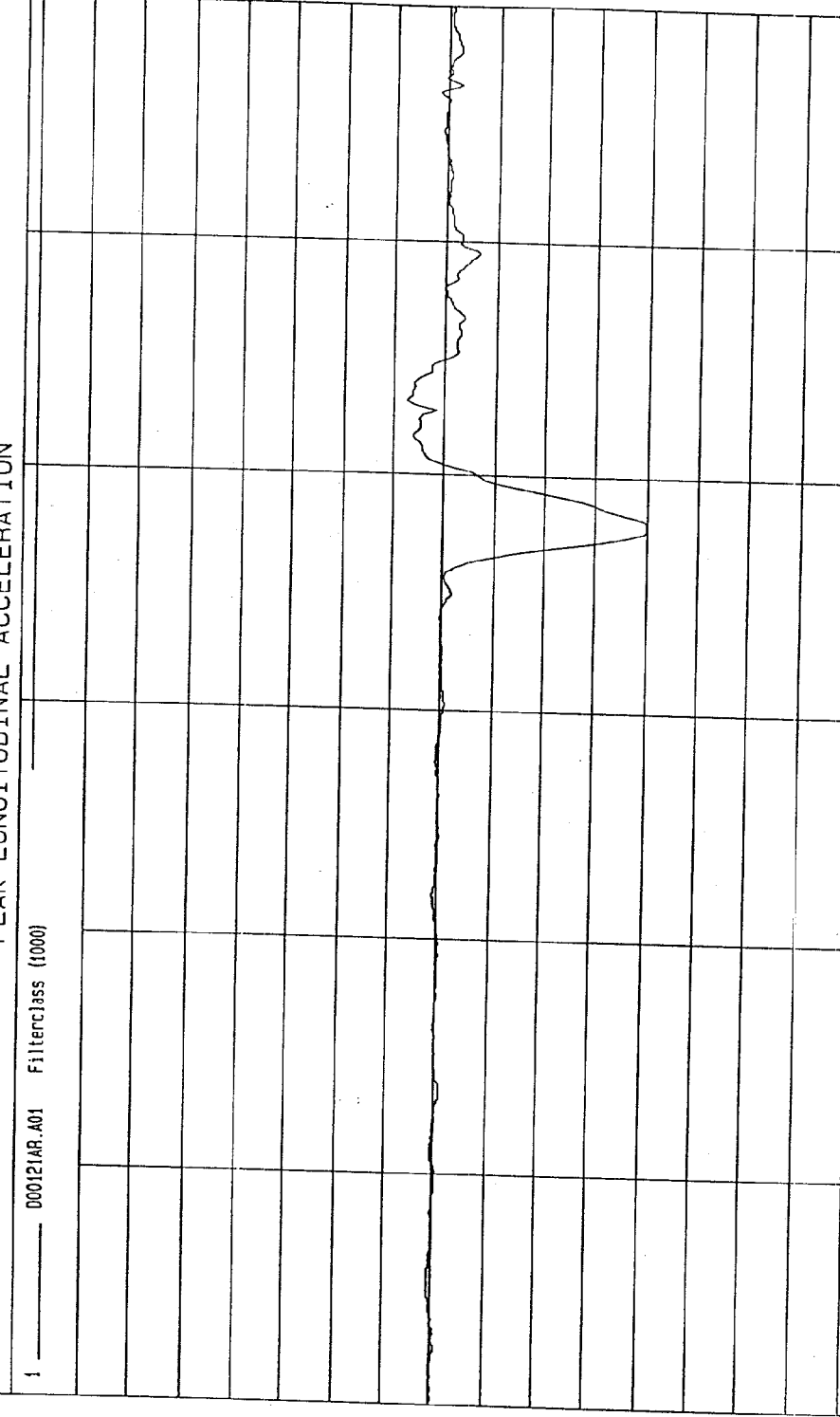
Minimum = -7.97 G's at 37.7 msec

Maximum = 1.45 G's at 43.2 msec

PEAK LONGITUDINAL ACCELERATION

1 ——— 000121AR.A01 Filterclass (1000)

G's



TIME (sec.)

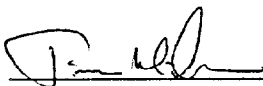
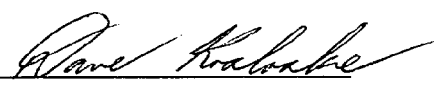
NECK PENDULUM TEST

SIDE IMPACT DUMMY (SID)

DATE: January 19, 2000DUMMY NUMBER: 271TEST NUMBER: D00129

TEST PARAMETER		SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)		18.9° - 25.5° C	21.0°
RELATIVE HUMIDITY (%)		10 - 70%	22%
IMPACT VELOCITY		6.89 - 7.13 MS	7.11
PENDULUM DECELERATION	10 MS	1.96 - 2.55 MS	2.33
	20 MS	4.12 - 5.10 MS	4.63
	30 MS	5.73 - 7.01 MS	6.33
	40 - 70 MS	6.27 - 7.64 MS	6.97
MIDSAGGITAL PLANE MAX ROTATION		64° - 78°	72°
HEAD ROTATION PEAK TO ZERO- DECAY TIME		50 - 70 MS	61
MAX. M _x AT OCCIPITAL CONDYLES		88.1 - 108.5 NM	89.3
M _x PEAK TO ZERO - DECAY TIME		40 - 60 MS	53
M _x PEAK TO MAX. HEAD ROTATION		0 - 20 MS	7

TEST MEETS SPECIFICATIONS

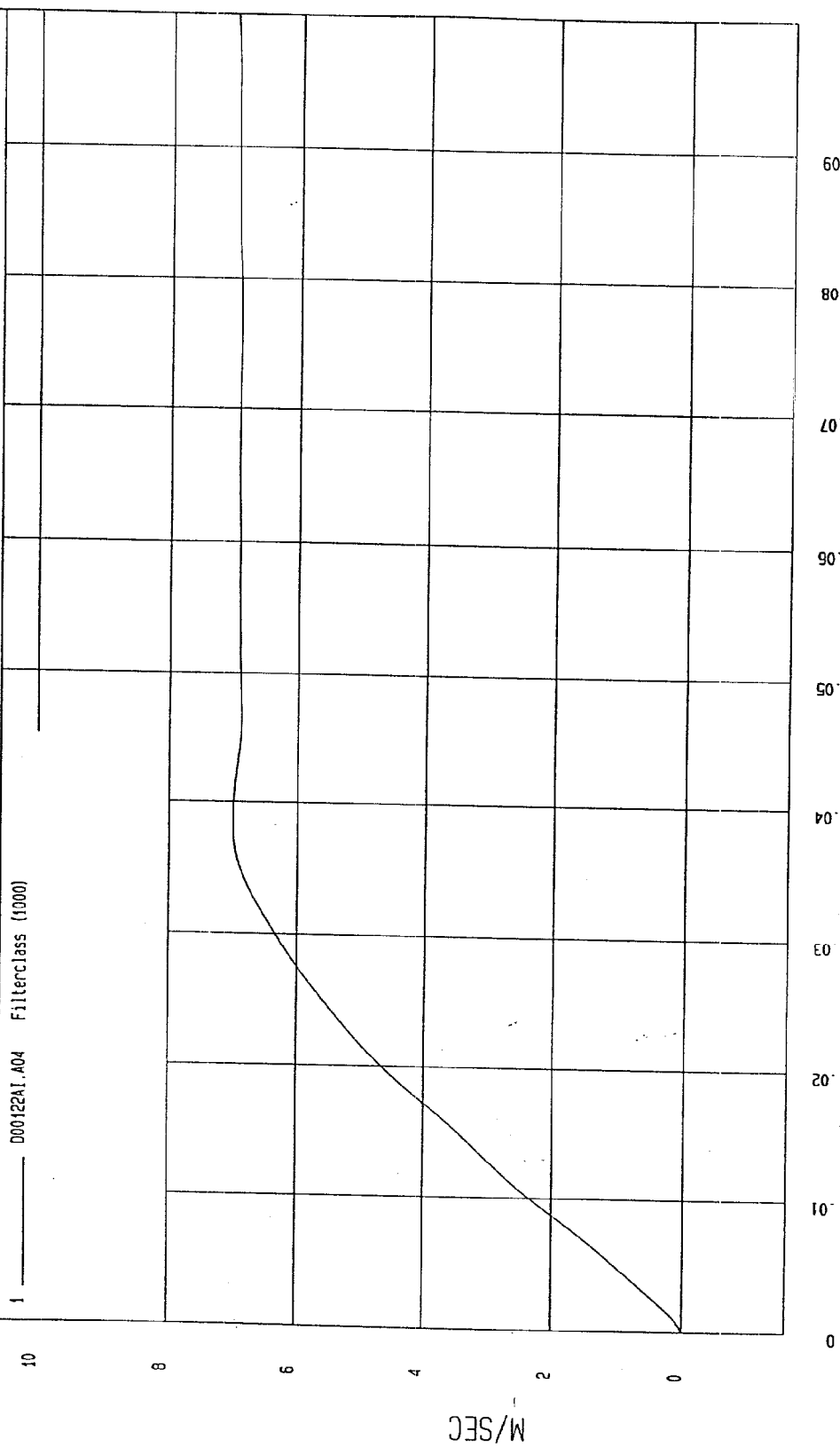
TECHNICIAN APPROVED BY 

TEST: Dummy Calibration - Neck Bending TEST DATE: 01-19-2000 - 17:16:57

COMPONENT: Dummy # 271 Velocity: 23.32 FT/SEC 7.11 M/SEC

Minimum = 0 M/SEC at 0 msec Maximum = 8.72 M/SEC at 190. msec

PENDULUM DECELERATION

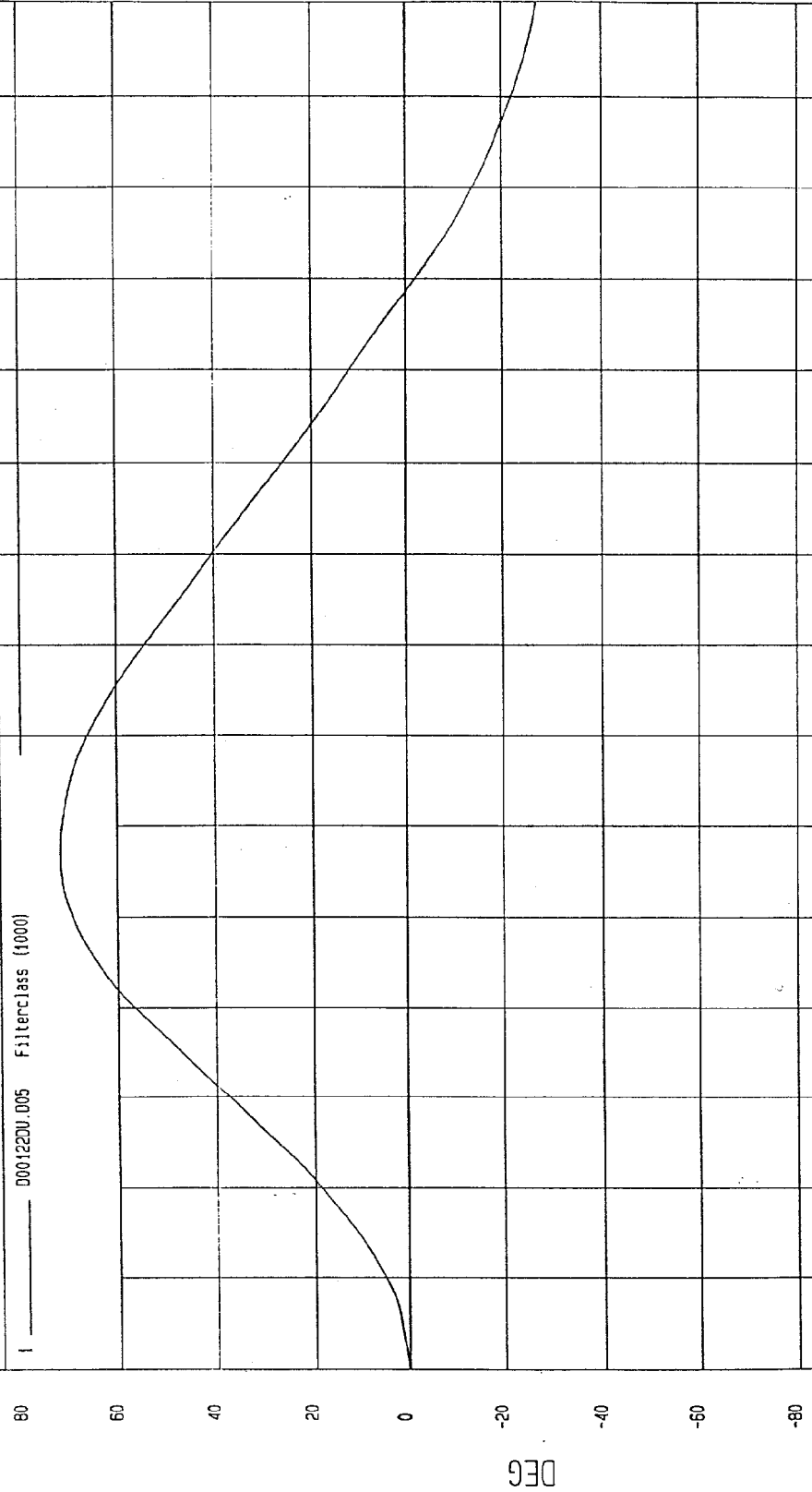


TEST: Dummy Calibration - Neck Bending TEST DATE: 01-19-2000 - 17:19:51

COMPONENT: Dummy # 271 Velocity: 23.32 FT/SEC 7.11 M/SEC

Minimum = -28.44 DEG at 157. msec Maximum = 71.94 DEG at 57.2 msec

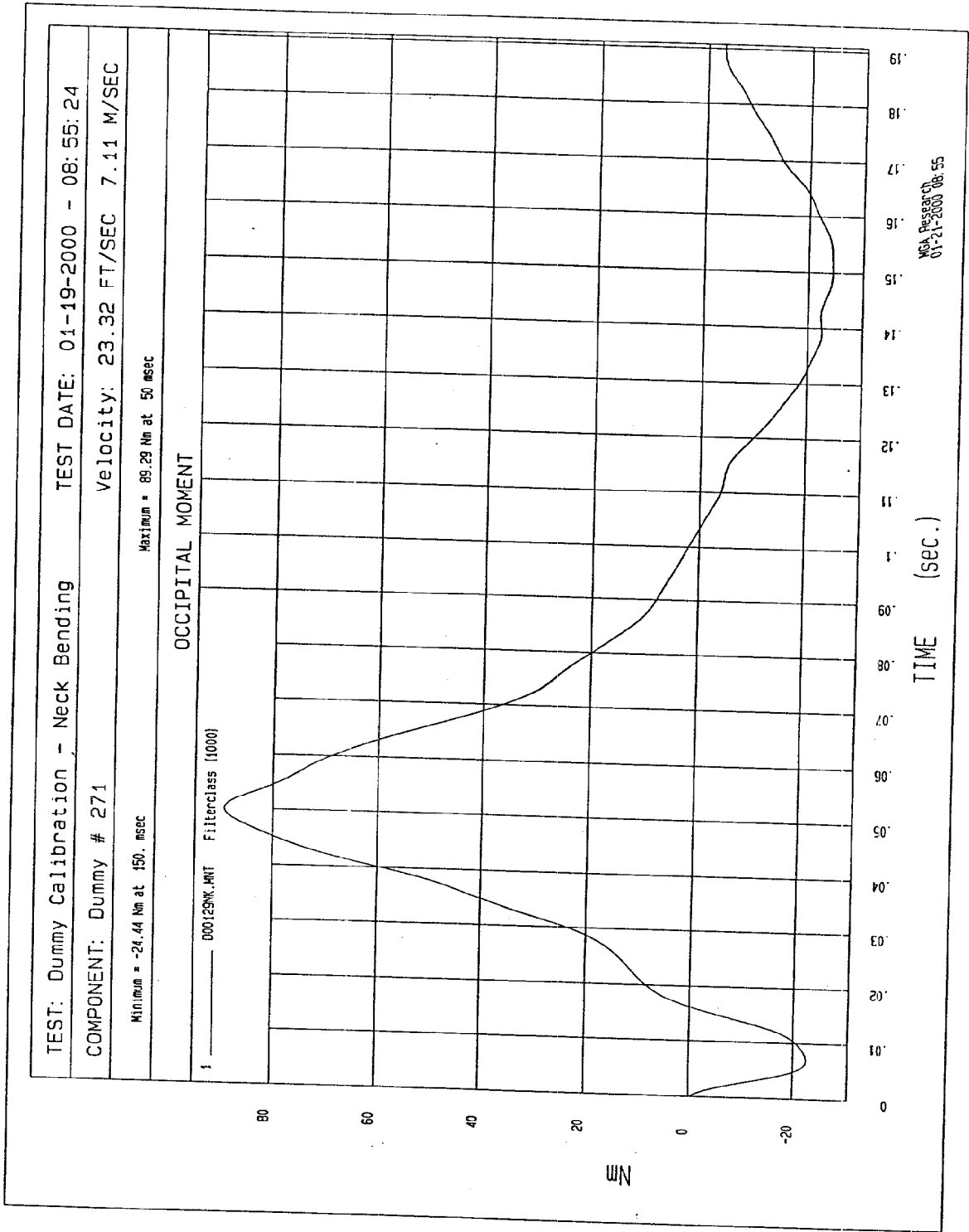
NECK ROTATION



0 10 20 30 40 50 60 70 80

TIME (sec.)

MCA Research
01-19-2000 17:24



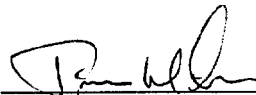
THORAX IMPACT TEST
SIDE IMPACT DUMMY (SID)

DATE: January 13, 2000DUMMY SERIAL NUMBER: 271TEST NUMBER: D00122

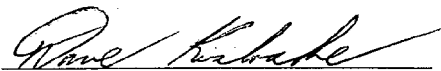
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.0°
RELATIVE HUMIDITY (%)	10 - 70	32%
PROBE SPEED (m/s)	4.27 - 4.33	4.29
UPPER RIB (g's)	37 - 46 g's	40
LOWER RIB (g's)	37 - 46 g's	41
LOWER SPINE (g's)	15 - 22 g's	19

TEST MEETS SPECIFICATIONS

TECHNICIAN



APPROVED BY

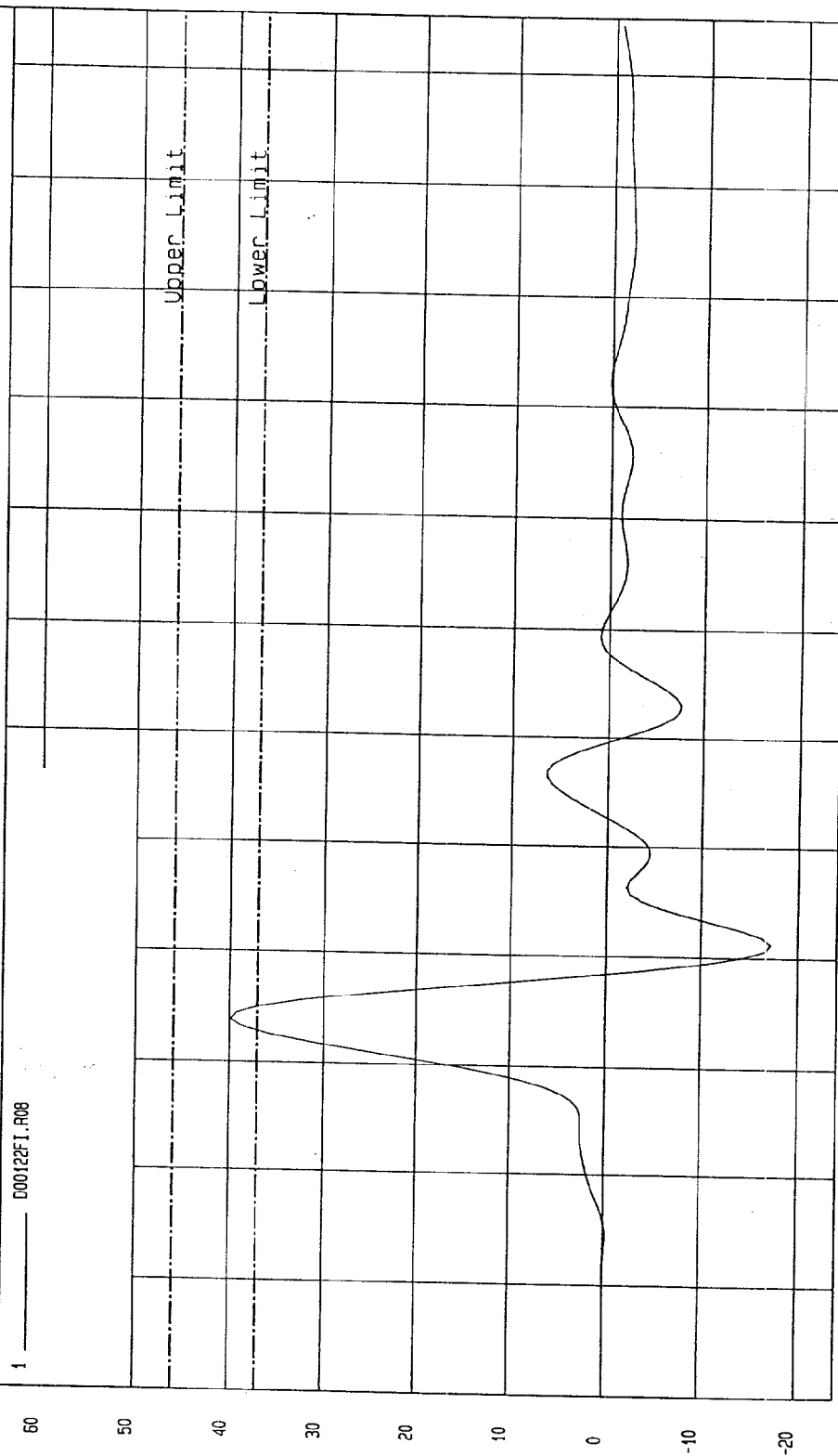


TEST: Dummy Calibration - Thorax Impact TEST DATE: 01-13-2000 - 13:59:30

COMPONENT: Dummy # 271 Velocity: 14.06 FT/SEC 4.29 M/SEC

Minimum = -17.17 G'S at 41.2 msec Maximum = 39.88 G'S at 33.7 msec

UPPER RIB ACCELERATION



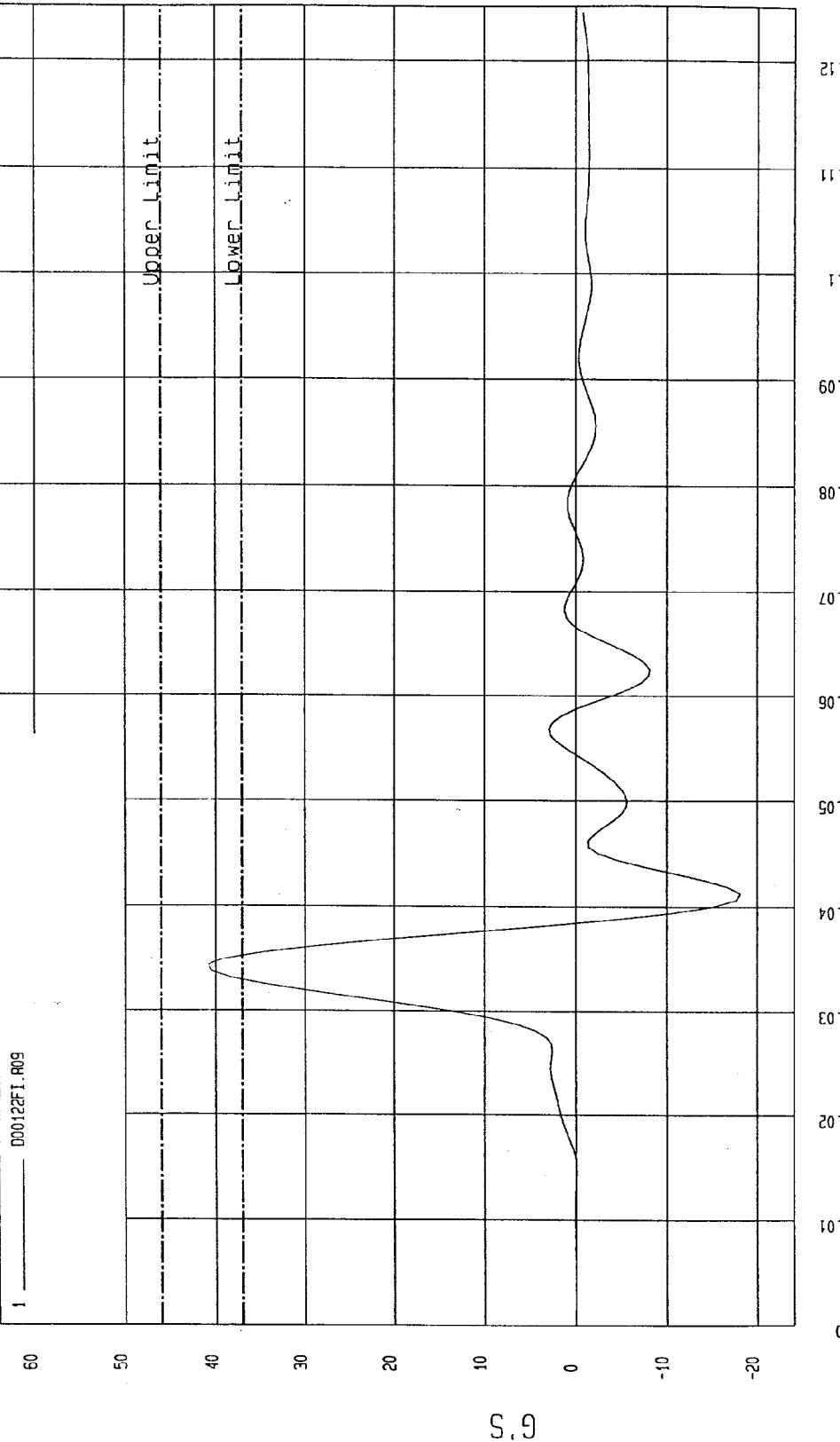
MCA Research
01-25-2000 10:42

TEST: Dummy Calibration - Thorax Impact TEST DATE: 01-13-2000 - 13:59:30

COMPONENT: Dummy # 271 Velocity: 14.06 FT/SEC 4.29 M/SEC

Minimum = -18.11 G'S at 41.2 msec Maximum = 40.83 G'S at 34.3 msec

LOWER RIB ACCELERATION



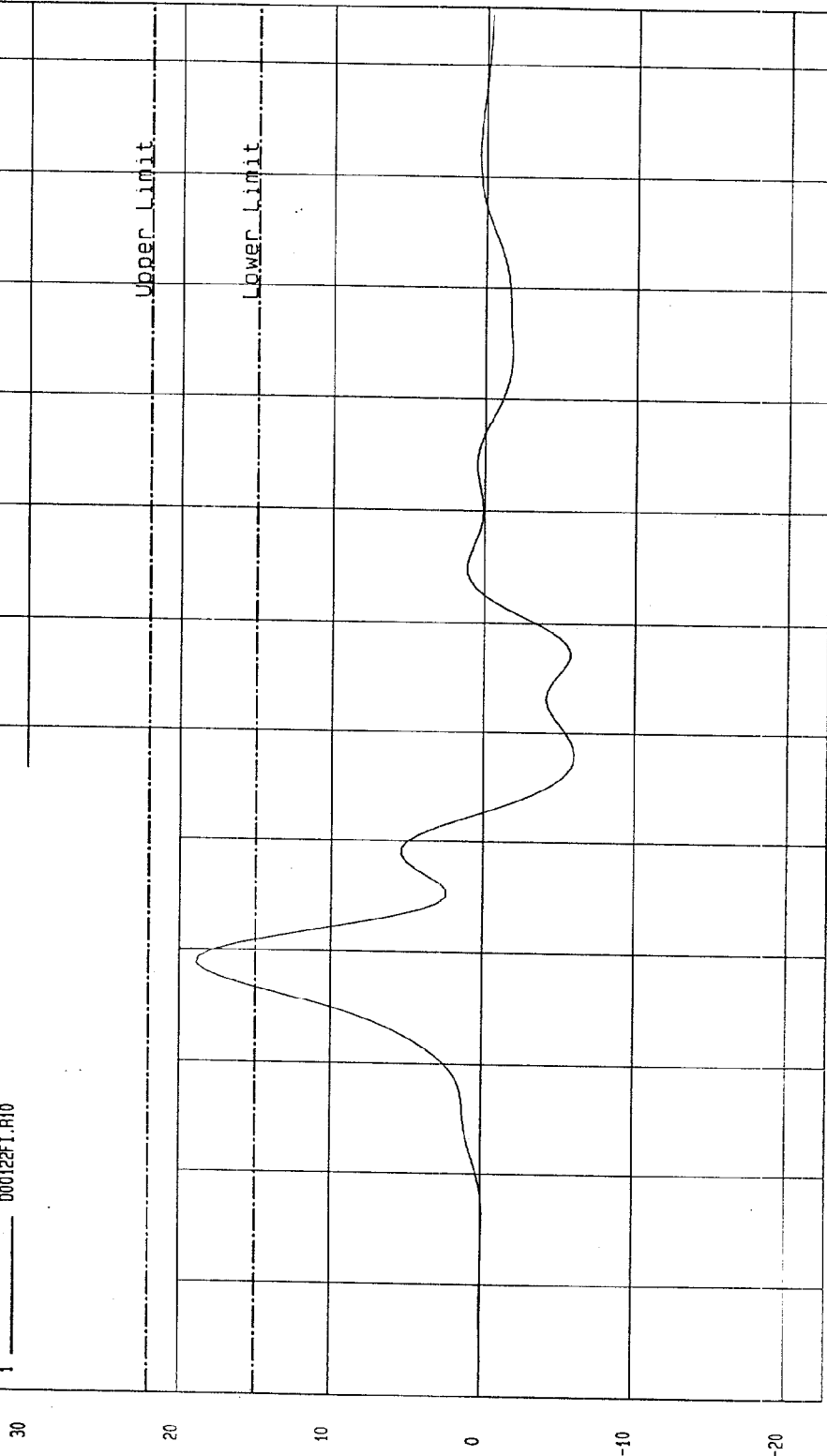
TEST: Dummy Calibration - Thorax Impact TEST DATE: 01-13-2000 - 13:59:30

COMPONENT: Dummy # 271 Velocity: 14.06 FT/SEC 4.29 M/SEC

Minimum = -6.02 G'S at 58.1 msec
Maximum = 18.90 G'S at 38.7 msec

LOWER SPINE ACCELERATION

1 ——— 000122F1.R10



MGA Research
01-25-2000 10:42

MGA RESEARCH CORPORATION

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PELVIS IMPACT TEST

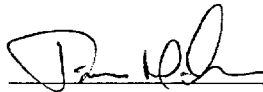
SIDE IMPACT DUMMY (SID)

DATE: January 13, 2000DUMMY SERIAL NUMBER: 271 TEST NUMBER: D00123

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.0°
RELATIVE HUMIDITY (%)	10 - 70	32%
PROBE SPEED (m/s)	4.27 - 4.33	4.27
PELVIS ACCELERATION (g's)	40 - 60	49

TEST MEETS SPECIFICATIONS

TECHNICIAN



APPROVED BY



TEST: Dummy Calibration - Pelvis Impact TEST DATE: 01-13-2000 - 14:06:54

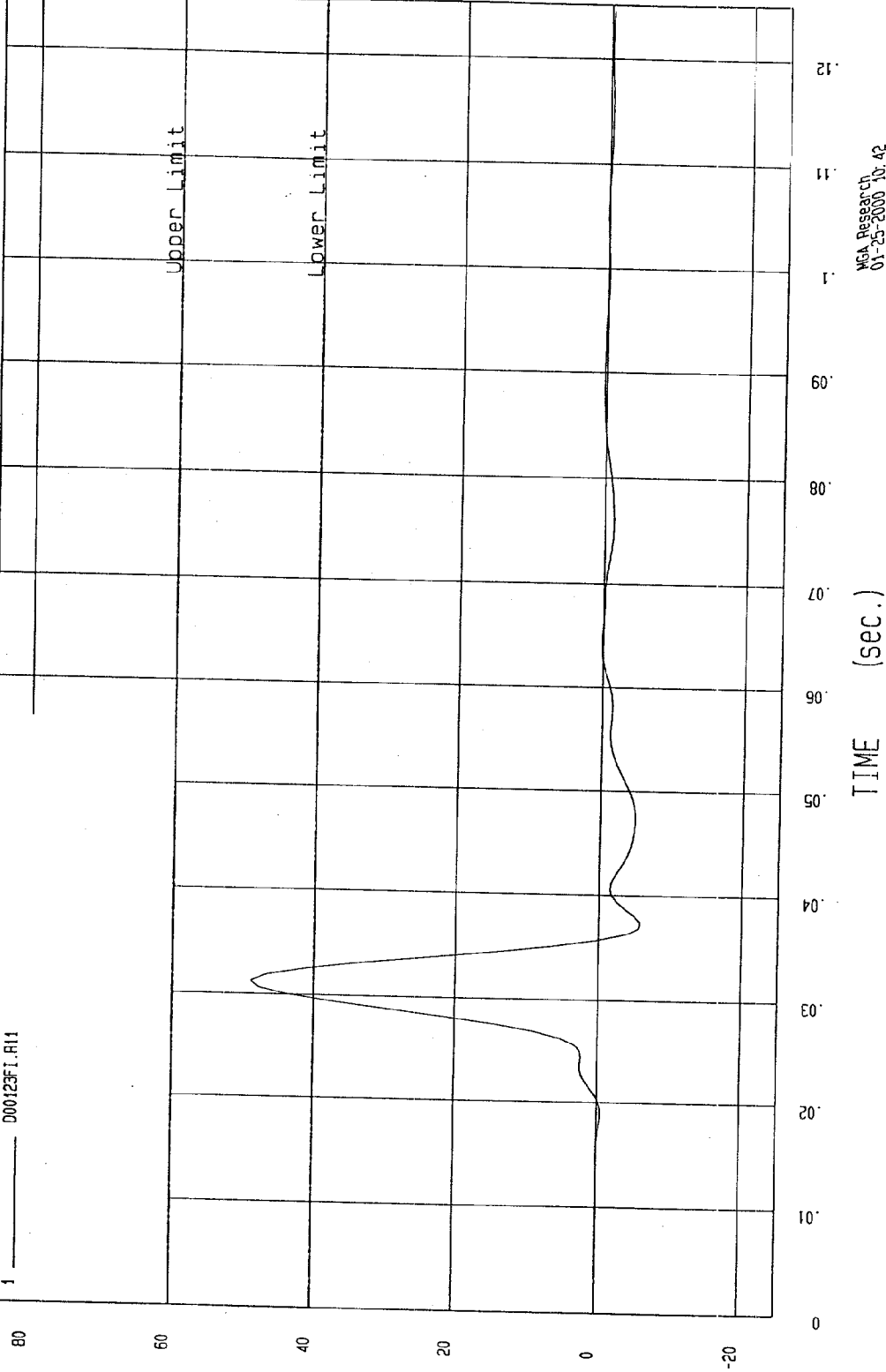
COMPONENT: Dummy # 271 Velocity: 14.022 FT/SEC 4.27 M/SEC

Minimum = -6.93 G'S at 196. msec

Maximum = 48.98 G'S at 31.2 msec

PELVIS ACCELERATION

1 ——— D00123FI.R11



NCA Research
01-25-2000 10:42

ABDOMINAL COMPRESSION TEST
(PRELOAD = 10 LBS)

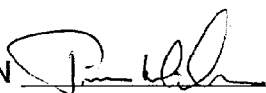
SIDE IMPACT DUMMY (SID)

DATE: January 13, 2000DUMMY SERIAL NUMBER: 271TEST NUMBER: D00124

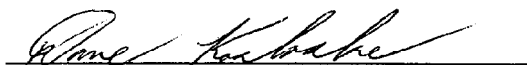
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.0°
RELATIVE HUMIDITY (%)	10 - 70	23%
FORCE @ 12.7 mm	104 - 162	148
FORCE @ 19.0 mm	163 - 222	207
FORCE @ 25.4 mm	222 - 280	272
FORCE @ 33 mm	325 - 391	376

TEST MEETS SPECIFICATIONS

TECHNICIAN



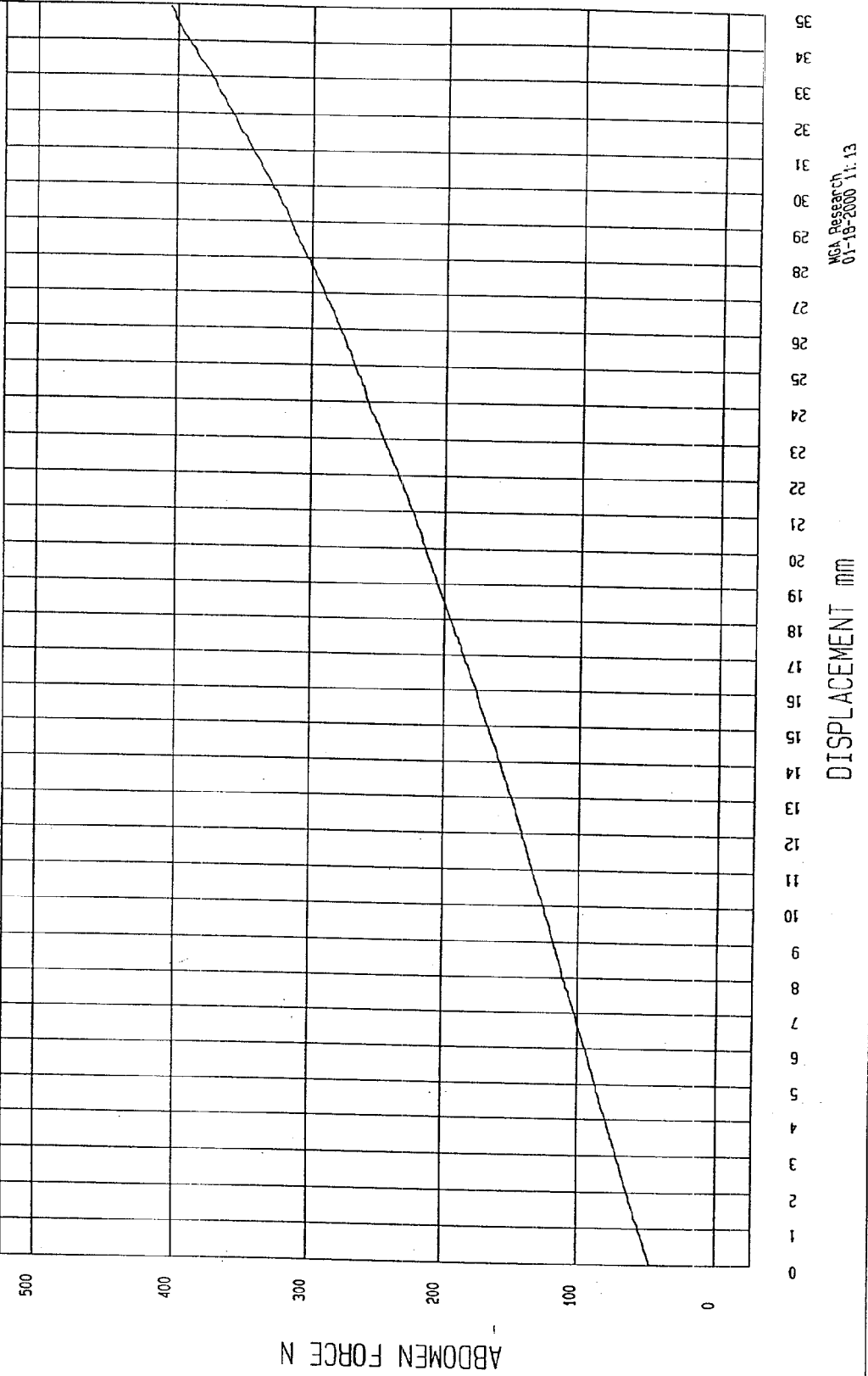
APPROVED BY



TEST: DUMMY CALIBRATION - ABDOMEN COMPRESSION TEST DATE: 01-13-2000 - 15:46:29

COMPONENT: DUMMY # 271

ABDOMEN FORCE as a function of DISPLACEMENT



NSA Research
01-13-2000 11:13

LUMBAR FLEXION TEST

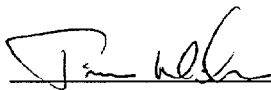
SIDE IMPACT DUMMY (SID)

DATE: January 14, 2000DUMMY SERIAL NUMBER: 271TEST NUMBER: D00125

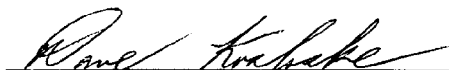
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.0°
RELATIVE HUMIDITY (%)	10 - 70	29%
FORCE @ 0°	0 - 26.7	0
FORCE @ 20°	97.9 - 151.2	112.3
FORCE @ 30°	151.2 - 204.6	181.1
FORCE @ 40°	204.6 - 258.0	241.9
RETURN ANGLE	12° maximum	3°

TEST MEETS SPECIFICATIONS

TECHNICIAN



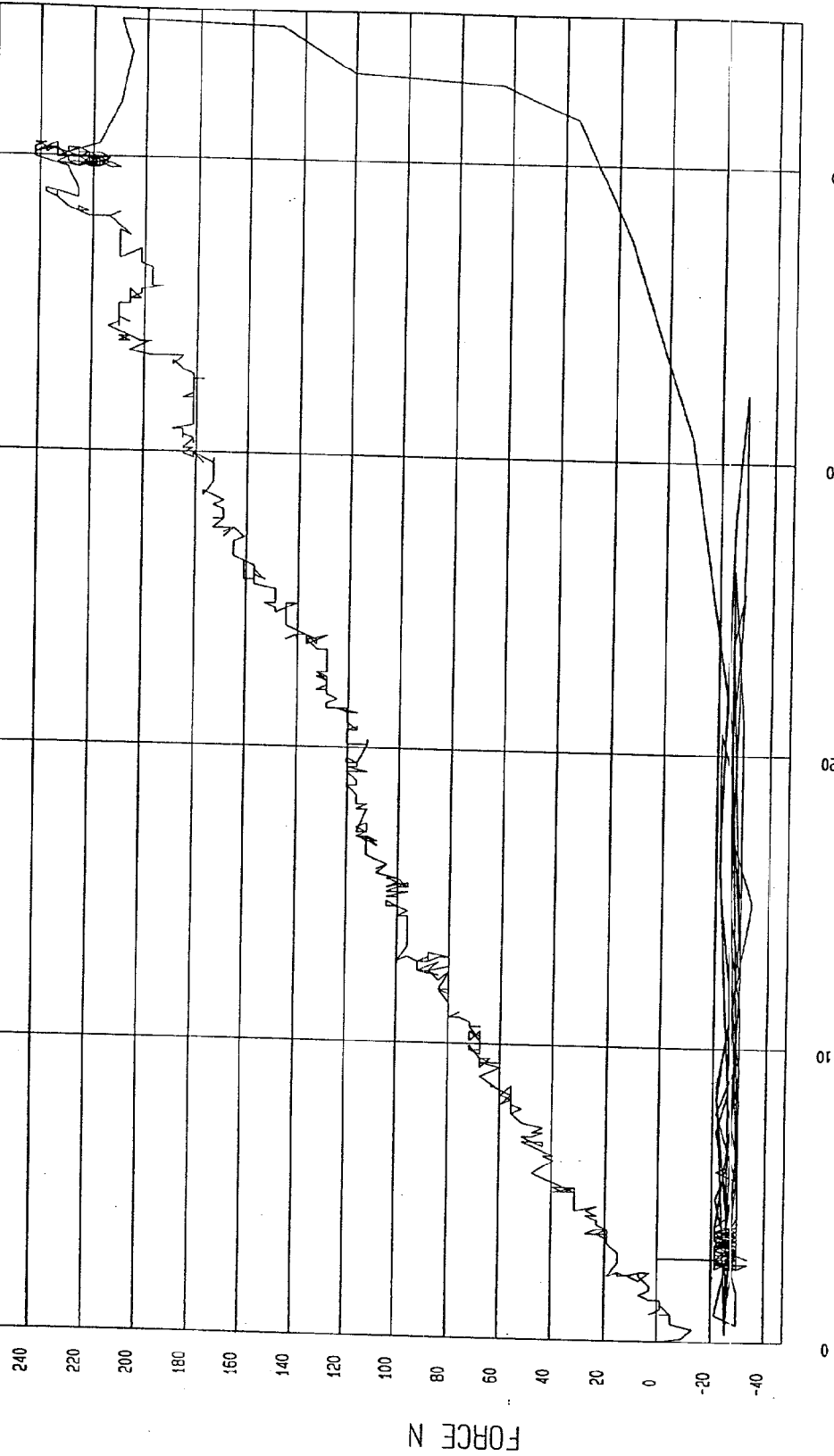
APPROVED BY



TEST: DUMMY CALIBRATION - LUMBAR FLEXION TEST DATE: 01-14-2000 - 14:07:42

COMPONENT: DUMMY # 271

FORCE as a function of TORSO ROTATION



MCA Research
01-18-2000 11:19

POST-TEST CERTIFICATION DATA

C-57

Passenger Dummy Serial Number: 272

Calibration Test Results Summary

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Passenger Dummy Serial Number: 272

Post-Test Calibration

External Dimensions:	The dummy passed all external dimension requirements.
Head Drop Test:	The head passed all drop test requirements.
Thorax Impact Test:	The thorax passed all impact test requirements.
Pelvic Impact Test:	The pelvis passed all impact test requirements.
Abdominal Compression Test:	The abdomen passed all compression test requirements.
Lumbar Flexion Test:	The lumbar passed all flexion test requirements.

C-59

DATE OF VERIFICATION: January 18, 2000

DESCRIPTION	SPECIFICATION	TEST RESULTS
SH - Seated Height (mm)	889 - 909	895
RH - Rib Height (mm)	501 - 521	513
HP - Hip Pivot Height (mm)	99 ref.	99
RD - Rib From Back Line (mm)	229 - 241	236
KV - Knee Pivot From Back Line (mm)	511 - 526	523
SW - Knee Pivot to Floor (mm)	490 - 505	493
HW - Hip Width (mm)	356 - 391	374

MEASUREMENTS BY: Paul

APPROVED BY: Dave Krasinski

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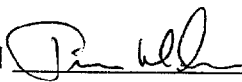
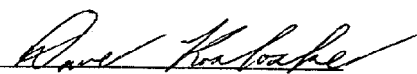
HEAD DROP TEST

SIDE IMPACT DUMMY (SID)

DATE: January 18, 2000DUMMY NUMBER: 272TEST NUMBER: D00131

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	18.9° - 25.5° C	21.0°
RELATIVE HUMIDITY	10 - 70%	21%
PEAK RESULTANT ACCELERATION	210 - 260 g's	244
PEAK LATERAL ACCELERATION	< 10 g's	-6
TIME ABOVE 100 G.	0.9 - 1.5 msec.	1.2

TEST MEETS SPECIFICATIONS

TECHNICIAN APPROVED BY 

TEST: Dummy Calibration - Head Drop TEST DATE: 01-18-2000 - 12:01:43

COMPONENT: Dummy # 272

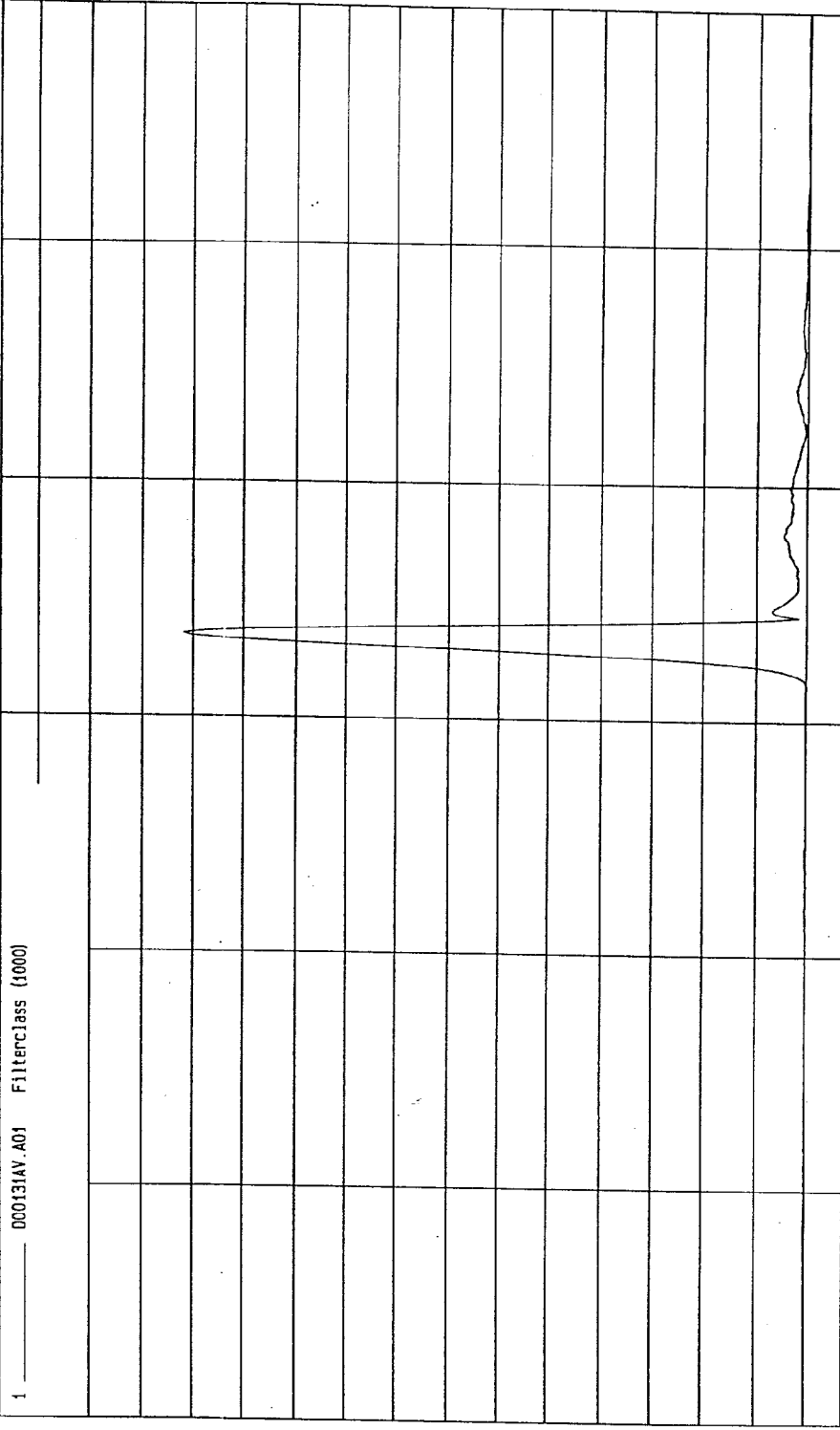
Minimum = 5.83E-02 G's at .5 msec

Maximum = 243.79 G's at 33.5 msec

PEAK RESULTANT ACCELERATION

1 _____ 000131AV.A01 Filterclass (1000)

G.S.



MCA Research
01-18-2000 12:04

TEST: Dummy Calibration - Head Drop TEST DATE: 01-18-2000 - 12:01:43

COMPONENT: Dummy # 272

Minimum = -5.93 G'S at 33.4 msec

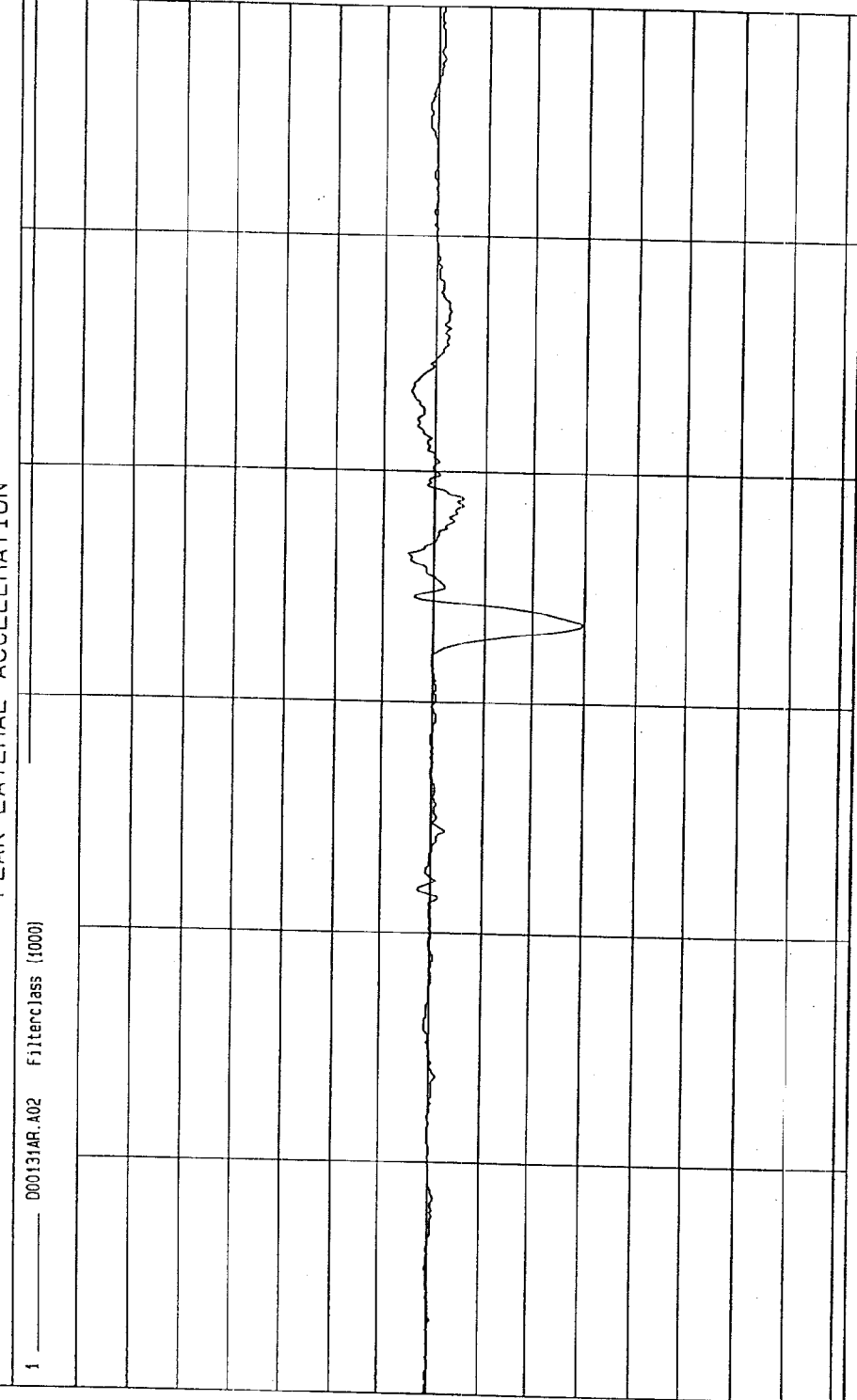
Maximum = .98 G'S at 35.4 msec

PEAK LATERAL ACCELERATION

1 _____ 000131AR.A02 Filterclass (1000)

16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16

G'S



MGA RESEARCH CORPORATION

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THORAX IMPACT TEST

SIDE IMPACT DUMMY (SID)

DATE: January 13, 2000DUMMY SERIAL NUMBER: 272TEST NUMBER: D00132

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.0°
RELATIVE HUMIDITY (%)	10 - 70	32%
PROBE SPEED (m/s)	4.27 - 4.33	4.27
UPPER RIB (g's)	37 - 46 g's	40
LOWER RIB (g's)	37 - 46 g's	39
LOWER SPINE (g's)	15 - 22 g's	20

TEST MEETS SPECIFICATIONS

TECHNICIAN



APPROVED BY

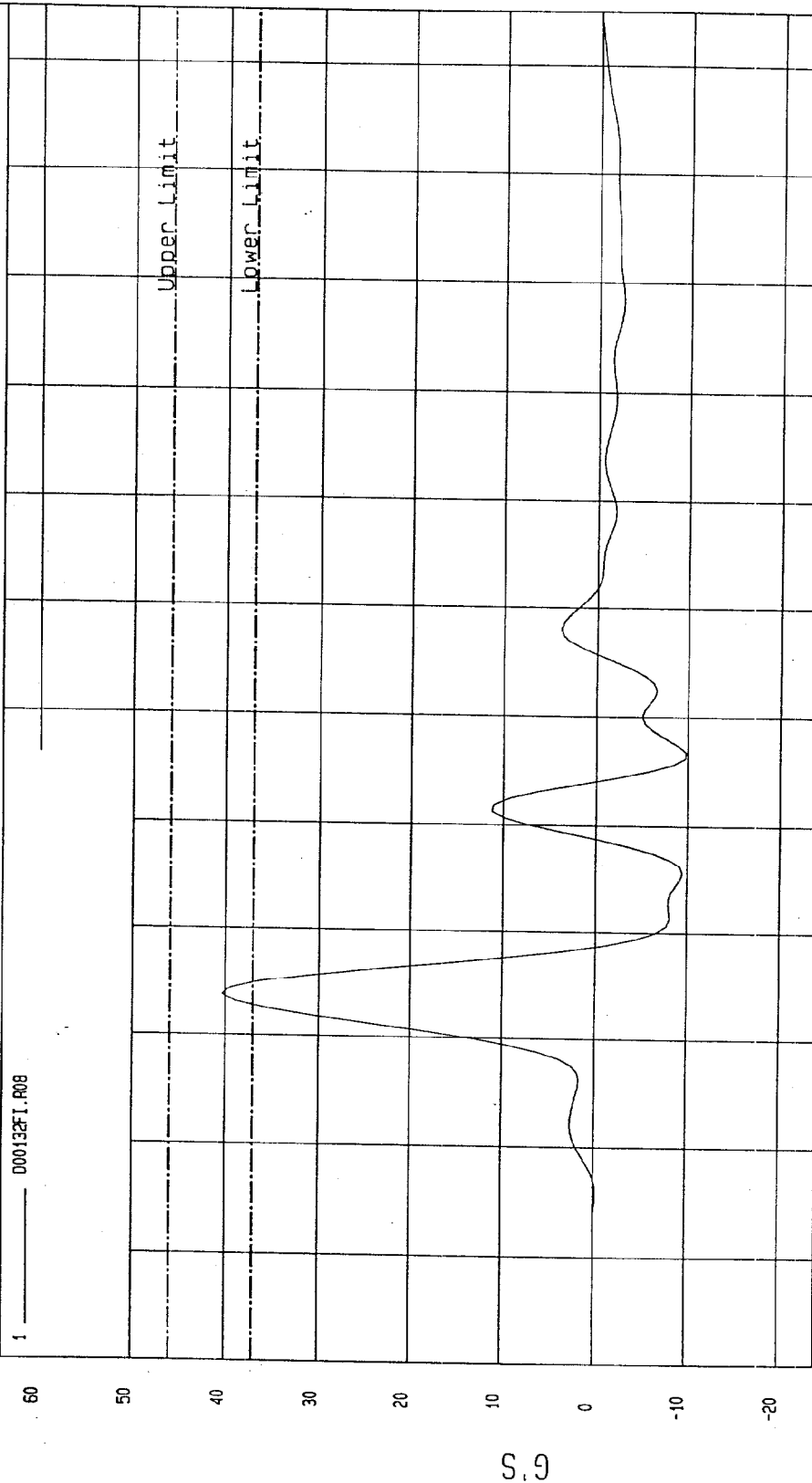


TEST: Dummy Calibration - Thorax Impact TEST DATE: 01-13-2000 - 14:27:14

COMPONENT: Dummy # 272 Velocity: 14.021 FT/SEC 4.27 M/SEC

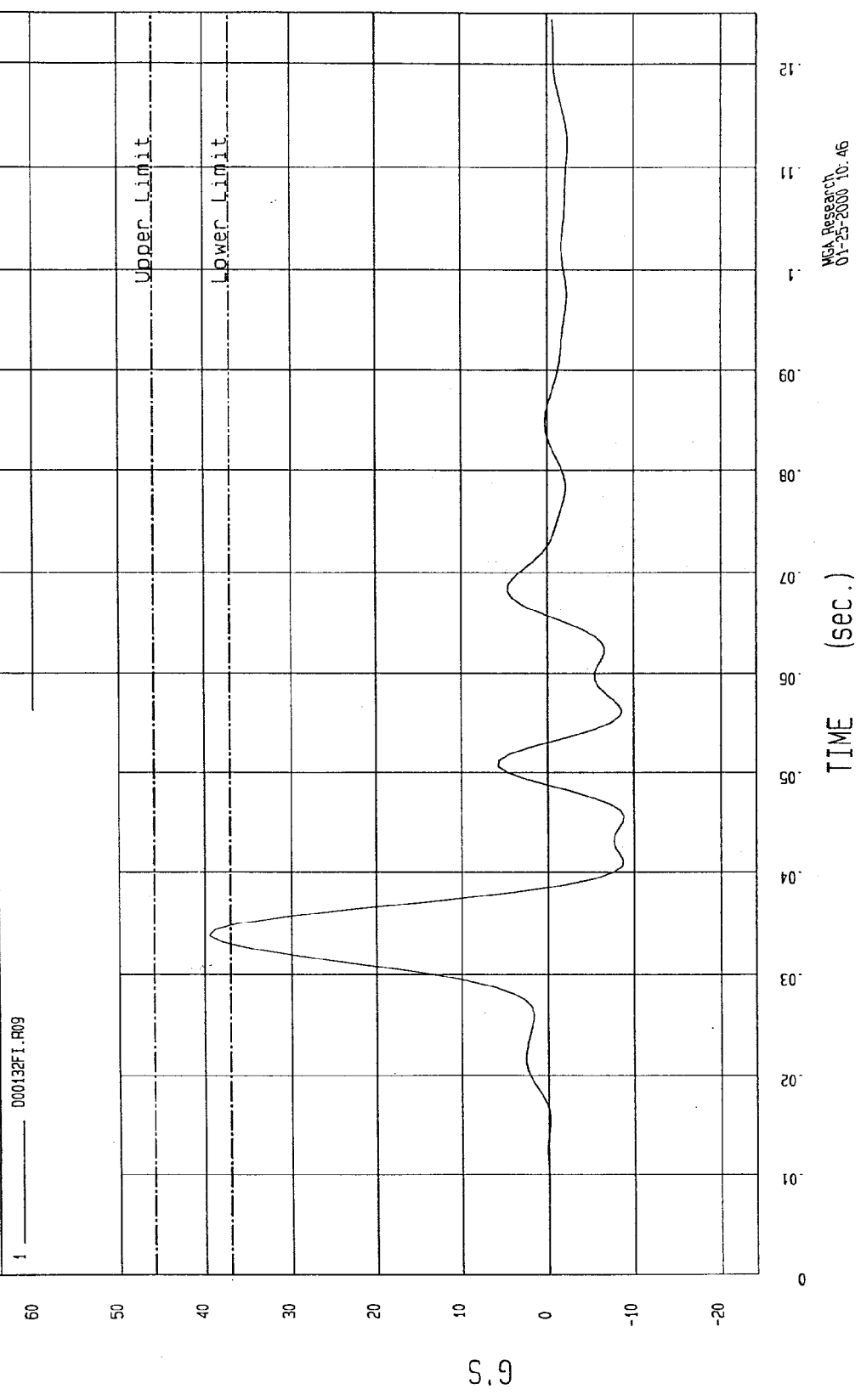
Minimum = -9.81 G'S at 56.8 msec Maximum = 40.37 G'S at 33.7 msec

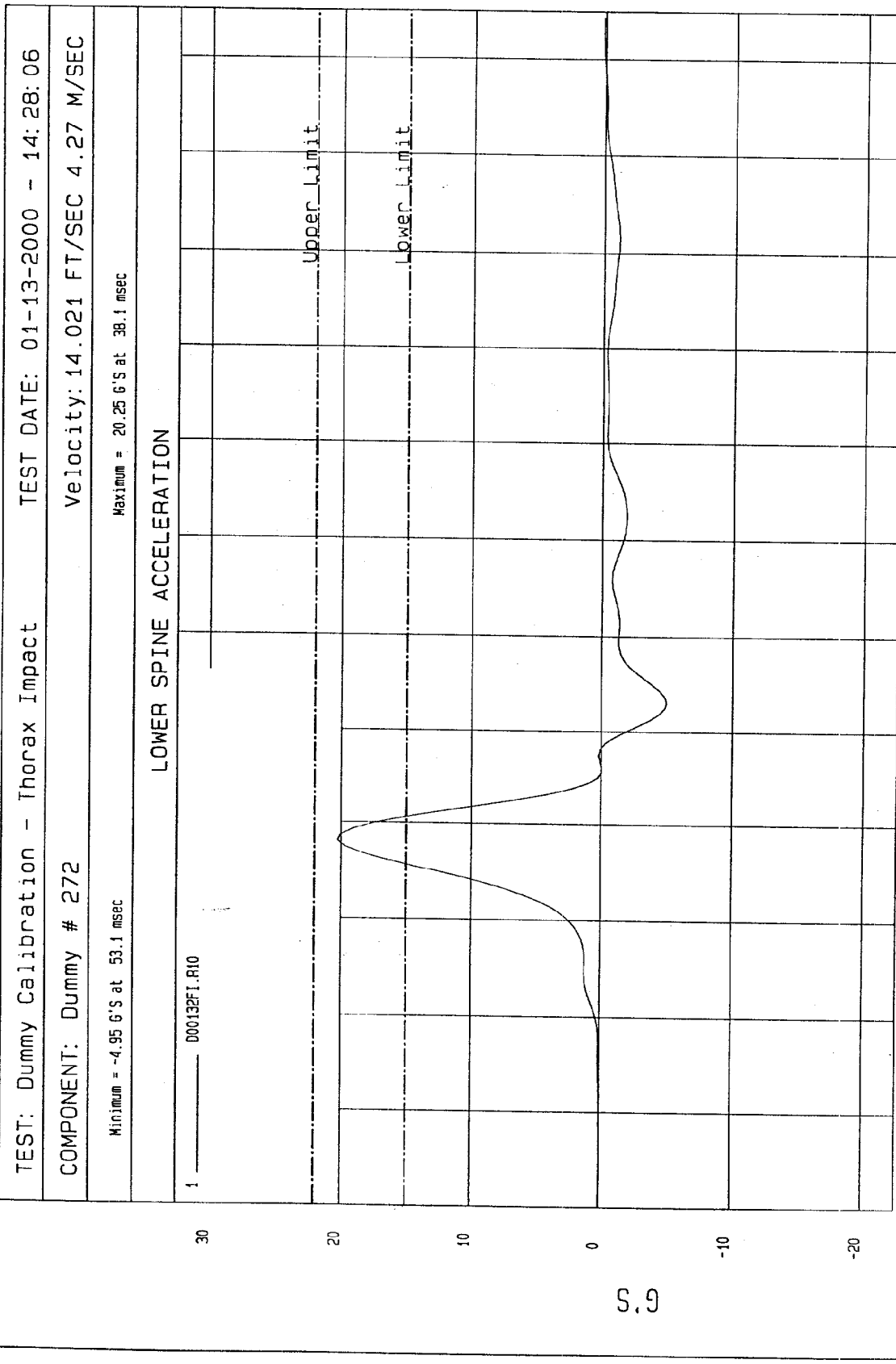
UPPER RIB ACCELERATION



TEST: Dummy Calibration - Thorax Impact TEST DATE: 01-13-2000 - 14:27:14
COMPONENT: Dummy # 272 Velocity: 14.021 FT/SEC 4.27 M/SEC
Minimum = -8.84 G'S at 45.6 msec Maximum = 39.47 G'S at 33.7 msec

LOWER RIB ACCELERATION





MGA Research
01-25-2000 10:45

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PELVIS IMPACT TEST

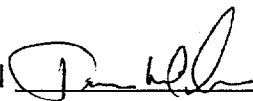
SIDE IMPACT DUMMY (SID)

DATE: January 13, 2000DUMMY SERIAL NUMBER: 272TEST NUMBER: D00133

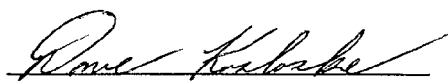
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.0°
RELATIVE HUMIDITY (%)	10 - 70	32%
PROBE SPEED (m/s)	4.27 - 4.33	4.28
PELVIS ACCELERATION (g's)	40 - 60	56

TEST MEETS SPECIFICATIONS

TECHNICIAN



APPROVED BY

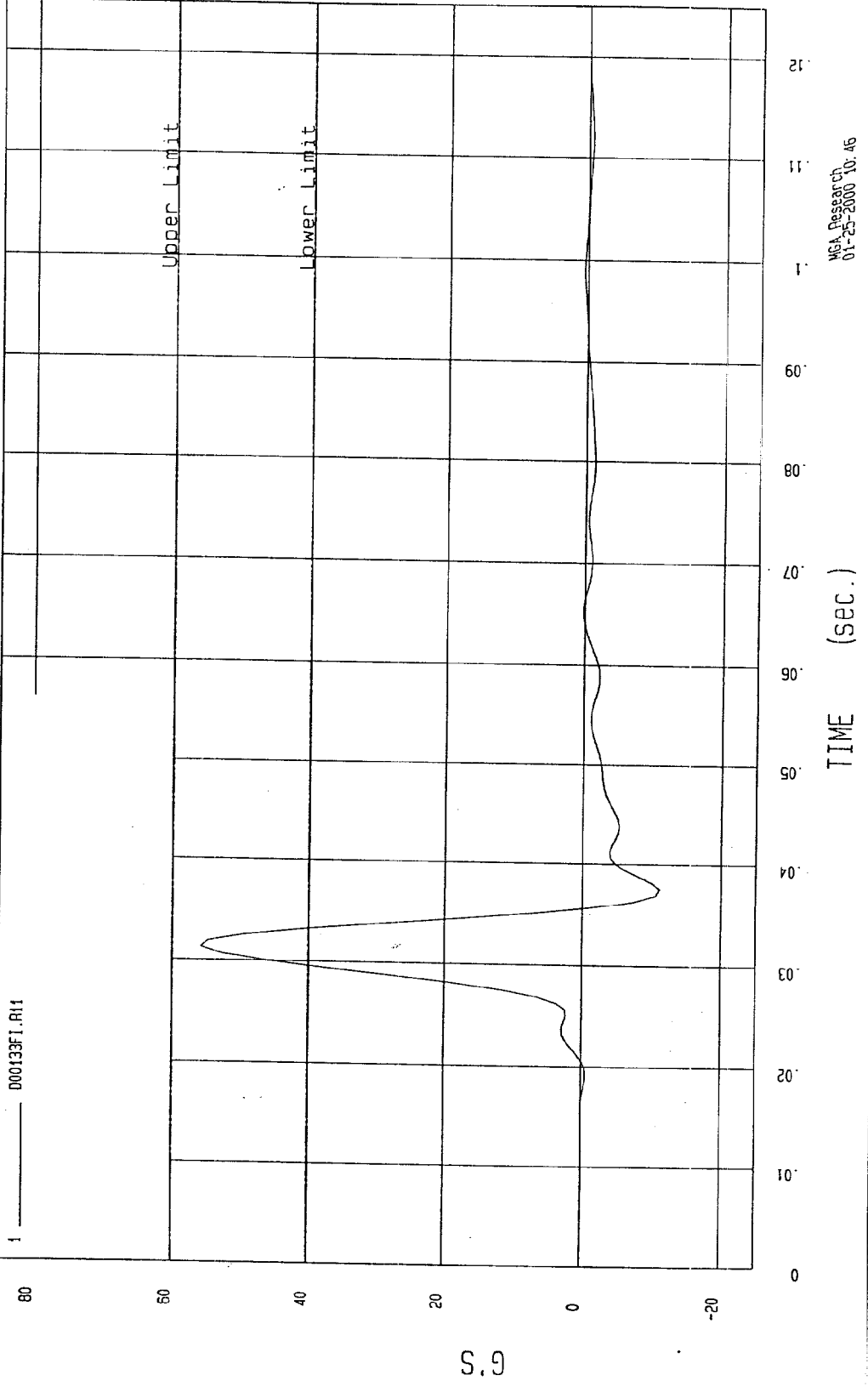


TEST: Dummy Calibration - Pelvis Impact TEST DATE: 01-13-2000 - 14:33:39

COMPONENT: Dummy # 272 Velocity: 14.047 FT/SEC 4.28 M/SEC

Minimum = -11.12 G'S at 37.5 msec Maximum = 55.84 G'S at 31.2 msec

PELVIS ACCELERATION



WGA Research
01-25-2000 10:46

ABDOMINAL COMPRESSION TEST
(PRELOAD = 10 LBS)

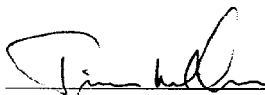
SIDE IMPACT DUMMY (SID)

DATE: January 13, 2000DUMMY SERIAL NUMBER: 272 TEST NUMBER: D00144

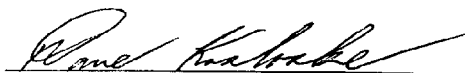
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.0°
RELATIVE HUMIDITY (%)	10 - 70	23%
FORCE @ 12.7 mm	104 - 162	140
FORCE @ 19.0 mm	163 - 222	191
FORCE @ 25.4 mm	222 - 280	252
FORCE @ 33 mm	325 - 391	342

TEST MEETS SPECIFICATIONS

TECHNICIAN



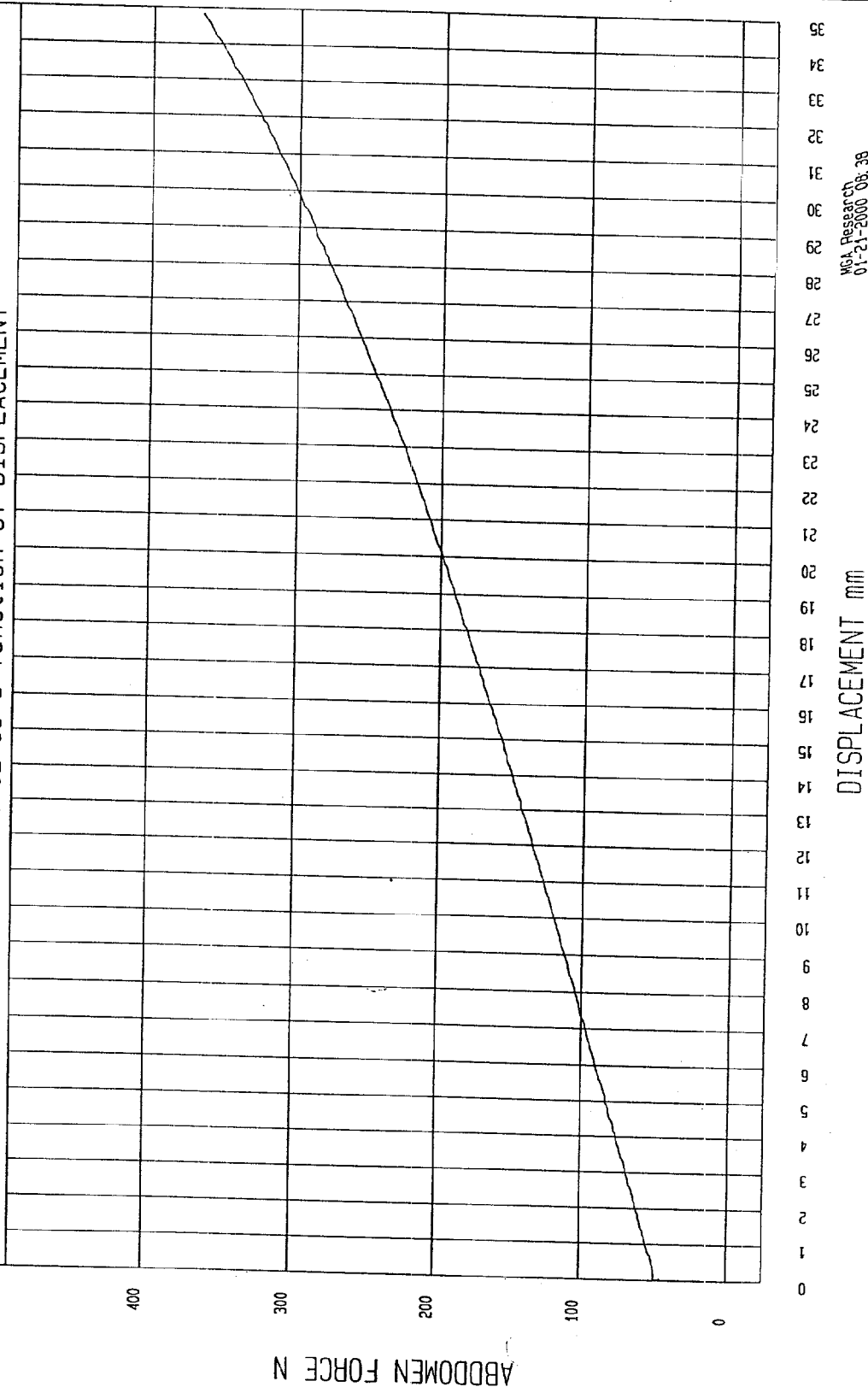
APPROVED BY



TEST: DUMMY CALIBRATION - ABDOMEN COMPRESSION TEST DATE: 01-13-2000 - 08:49:36

COMPONENT: DUMMY # 272

ABDDOMEN FORCE as a function of DISPLACEMENT



MCA Research
01-21-2000 08:36

MGA RESEARCH CORPORATION

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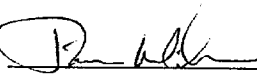
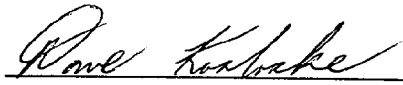
LUMBAR FLEXION TEST

SIDE IMPACT DUMMY (SID)

DATE: January 14, 2000DUMMY SERIAL NUMBER: 272TEST NUMBER: D00135

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.0°
RELATIVE HUMIDITY (%)	10 - 70	28%
FORCE @ 0°	0 - 26.7	0
FORCE @ 20°	97.9 - 151.2	104.7
FORCE @ 30°	151.2 - 204.6	157.4
FORCE @ 40°	204.6 - 258.0	206.0
RETURN ANGLE	12° maximum	3°

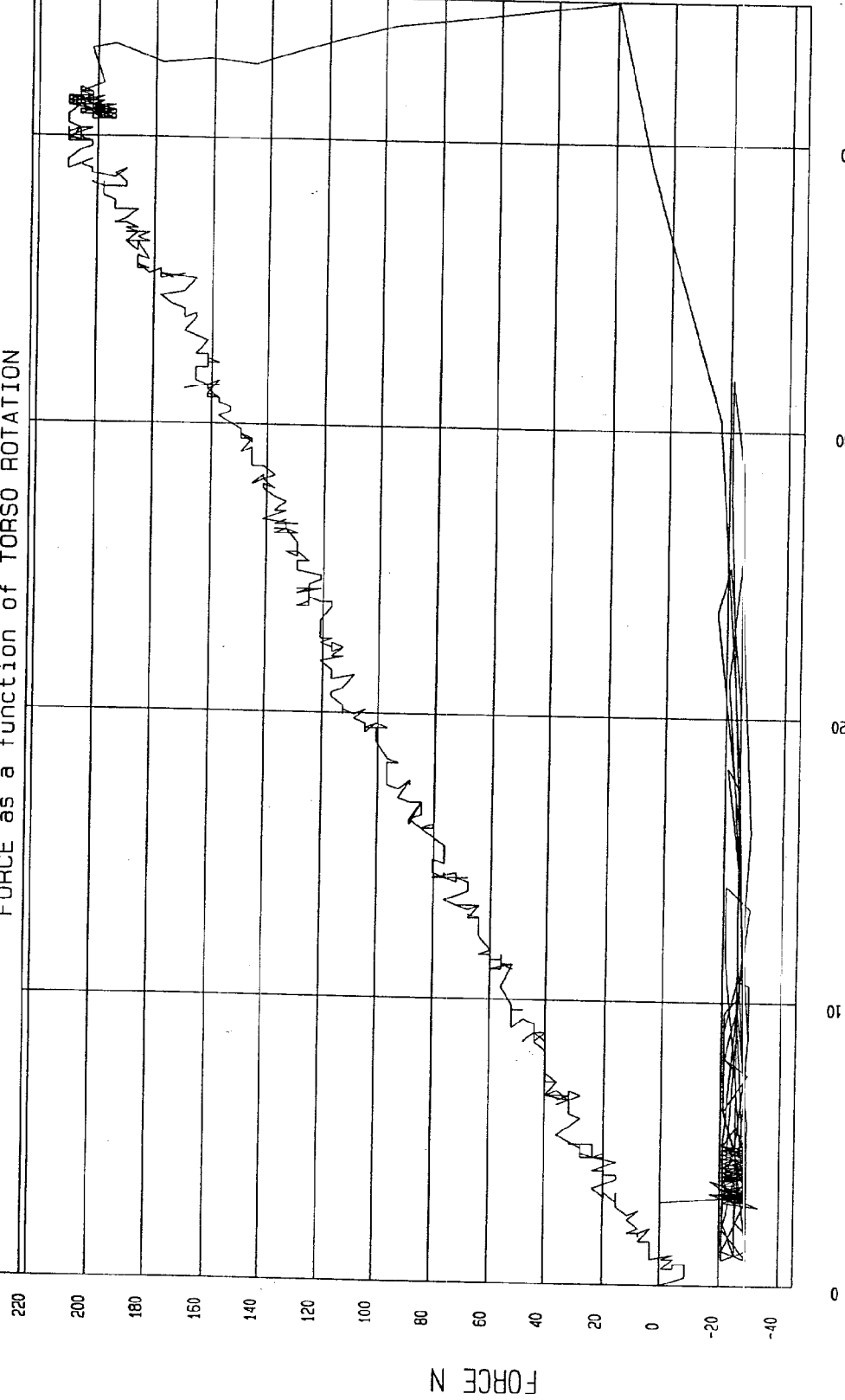
TEST MEETS SPECIFICATIONS

TECHNICIAN APPROVED BY 

TEST: DUMMY CALIBRATION - LUMBAR FLEXION TEST DATE: 01-14-2000 - 14:17:26

COMPONENT: DUMMY # 272

FORCE as a function of TORSO ROTATION



NCA Research
01-25-2000 14:50

POST-TEST DRIVER DUMMY INSPECTION CHECKLIST

C-73

Type: Side Impact Dummy (Part 572 M)

Serial Number: 271

Inspected By: Tim Michnay

Date: January 13, 2000

<u>Part</u>	<u>Items Checked</u>	<u>Comments</u>
Skin	visual inspection	OK
Head	visual, ballast, accelerometer mount	OK
Neck	visual	OK
Spine box	visual, ballast, weldment, accelerometer mount	OK
Rib cage	visual, measure	OK
Sternum	visual	OK
Lumbar spine	visual	OK
Abdomen	visual	OK
Pelvis	visual, palpate, accelerometer mount	OK
Upper legs	visual	OK
Knees	visual	OK
Lower legs	visual, range of motion	OK
Ankles	visual, range of motion	OK
Feet	visual, range of motion	OK
Joints	1 to 2 g range	OK
Other		

NOTES: (include component/problem/action/reason):

POST-TEST PASSENGER DUMMY INSPECTION CHECKLIST

C-74

Type: Side Impact Dummy

Serial Number: 272

Inspected By: Tim Michnay

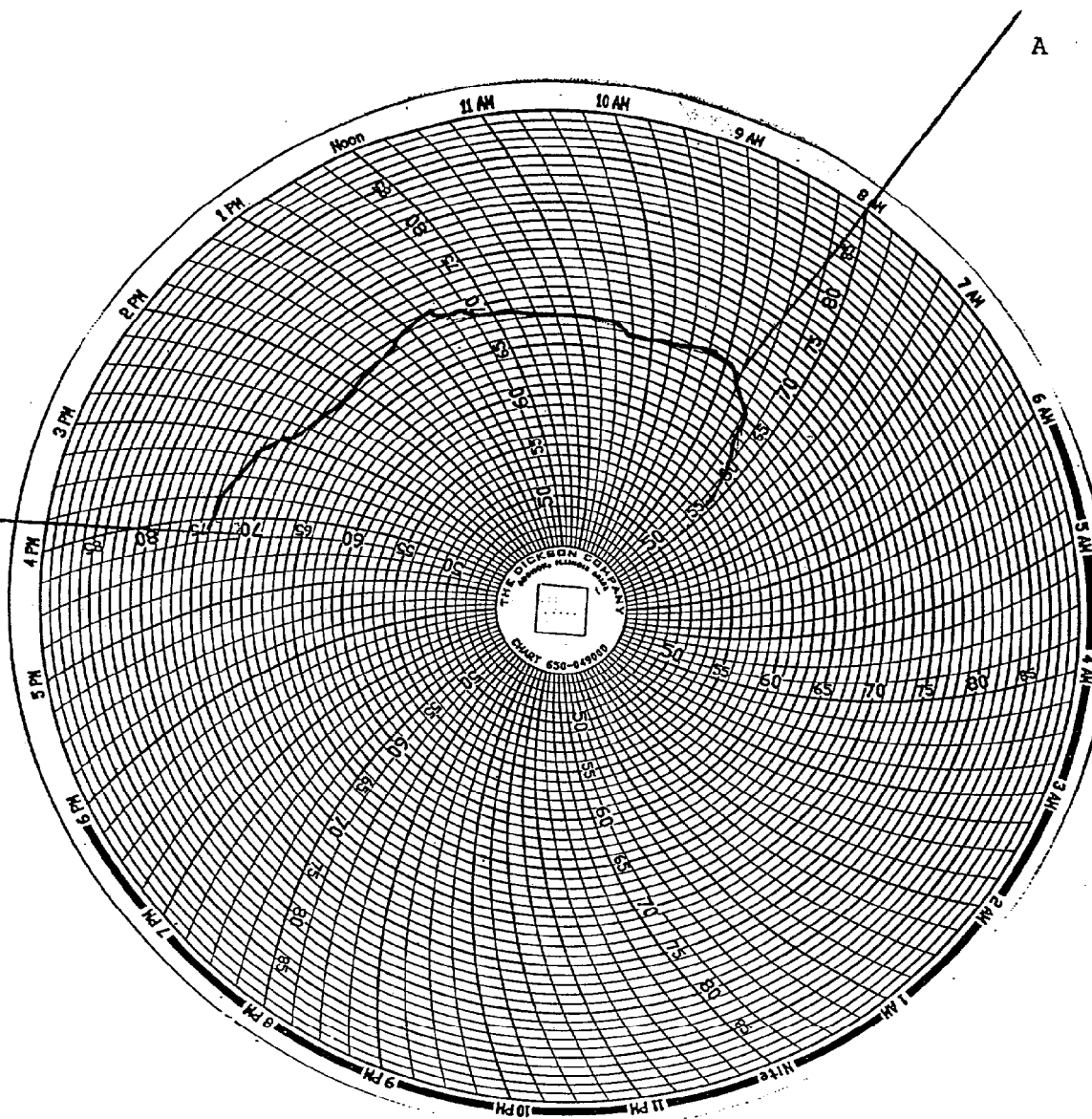
Date: January 13, 2000

<u>Part</u>	<u>Items Checked</u>	<u>Comments</u>
Skin	visual inspection	OK
Head	visual, ballast, accelerometer mount	OK
Neck	visual	OK
Spine box	visual, ballast, weldment, accelerometer mount	OK
Rib cage	visual, measure	OK
Sternum	visual	OK
Lumbar spine	visual	OK
Abdomen	visual	OK
Pelvis	visual, palpate, accelerometer mount	OK
Upper legs	visual	OK
Knees	visual	OK
Lower legs	visual, range of motion	OK
Ankles	visual, range of motion	OK
Feet	visual, range of motion	OK
Joints	1 to 2 g range	OK
Other		

NOTES: (include component/problem/action/reason):

VEHICLE AND DUMMY TEMPERATURE

C-75



A = dummies installed in vehicle
B = test conducted

APPENDIX D
TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

DUMMY AND VEHICLE CALIBRATION DATA
INSTRUMENTS FOR DRIVER DUMMY NO. 271

	DRIVER		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Upper Rib Y	AJ9C2	Endevco	November 8, 1999
Lower Rib Y	AJ816	Endevco	November 8, 1999
Lower Spine Y	AM748	Endevco	November 8, 1999
Pelvis Y	J11166	Endevco	November 2, 1999
Upper Rib Redundant Y	AHTT2	Endevco	November 8, 1999
Lower Rib Redundant Y	AM749	Endevco	November 8, 1999
Lower Spine Redundant Y	AALH1	Endevco	November 8, 1999
Pelvis Redundant Y	J11630	Endevco	November 2, 1999
Head Center of Gravity X	AH0D1	Endevco	November 2, 1999
Head Center of Gravity Y	AHWK8	Endevco	November 2, 1999
Head Center of Gravity Z	AH0M0	Endevco	November 2, 1999

DUMMY AND VEHICLE CALIBRATION DATA
INSTRUMENTS FOR PASSENGER DUMMY NO. 272

	LEFT REAR PASSENGER		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Upper Rib Y	AHR15	Endevco	November 2, 1999
Lower Rib Y	AGTB5	Endevco	August 2, 1999
Lower Spine Y	AP2C4	Endevco	August 2, 1999
Pelvis Y	J13884	Endevco	November 2, 1999
Upper Rib Redundant Y	AHW95	Endevco	November 2, 1999
Lower Rib Redundant Y	AGTM2	Endevco	August 2, 1999
Lower Spine Redundant Y	AKAA6	Endevco	August 2, 1999
Pelvis Redundant Y	J14027	Endevco	November 2, 1999
Head Center of Gravity X	J19173	Endevco	November 2, 1999
Head Center of Gravity Y	AP0F6	Endevco	November 2, 1999
Head Center of Gravity Z	J13656	Endevco	November 2, 1999

VEHICLE INSTRUMENT CALIBRATION

VEHICLE ACCELEROMETERS		
	SERIAL NO.	CALIBRATION DATE
Moving Barrier CG X	J10-E05	August 17, 1999
Moving Barrier CG Y	J04-F10	August 16, 1999
Moving Barrier CG Z	I18-E18	August 17, 1999
Moving Barrier Rear Axle X	C25-A17	August 6, 1999
Moving Barrier Rear Axle Y	I25-J12	August 6, 1999
Left Mid A-Post Y	H02-J01	November 22, 1999
Left Lower A-Post Y	G01-J18	November 22, 1999
Left Mid B-Post Y	I26-D04	September 24, 1999
Left Lower B-Post Y	K11-J11	November 22, 1999
Rear Floorpan Above Axle X	G01-J14	August 17, 1999
Rear Floorpan Above Axle Y	I25-J18	August 17, 1999
Rear Floorpan Above Axle Z	I26-D17	August 17, 1999
Driver Seat Track Y	E10-F20	August 17, 1999
Right Side Sill at Front Seat X	J10-E03	August 16, 1999
Right Side Sill at Front Seat Y	D05-R08	December 8, 1999
Right Side Sill at Front Seat Z	B13-Z02	December 8, 1999
Right Side Sill at Rear Seat X	K11-J08	November 22, 1999
Right Side Sill at Rear Seat Y	G01-J11	August 17, 1999
Right Side Sill at Rear Seat Z	D05-R20	August 17, 1999

VEHICLE INSTRUMENT CALIBRATION

VEHICLE ACCELEROMETERS			
	SERIAL NO	MANUFACTURER	CALIBRATION DATE
Left Side Sill at Front Seat Y	J10-E04	Entran	August 6, 1999
Left Side Sill at Rear Seat Y	H02-J04	Entran	November 22, 1999
Right Rear Occupant Compartment Y	F18-G07	Entran	November 5, 1999
Vehicle CG X	G01-J04	Entran	December 8, 1999
Vehicle CG Y	F18-G03	Entran	August 16, 1999
Vehicle CG Z	K16-X04	Entran	October 22, 1999
Left Front Door on Centerline	E23-R06	Entran	August 17, 1999
Left Front Door Upper Centerline	E10-F03	Entran	August 6, 1999
Midrear of Left Rear Door	K11-J12	Entran	November 22, 1999
Left Rear Door Upper Centerline	K16-X08	Entran	December 8, 1999

Note: All Endevco accelerometers are Model No. 7264-2000

All Entran accelerometers are Model No. EGE-72



Photo No. A-26 - Pre-Test Driver Dummy Shoulder and Door Top View



Photo No. A-33 - Pre-Test Passenger Dummy Left Side View