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REPORT NO.: 214-MGA-96-017
SAFETY COMPLIANCE TESTING FOR
FMVSS 214 "SIDE IMPACT PROTECTION -
PASSENGER CARS"

CHRYSLER CORPORATION
1996 CHRYSLER SEBRING JX CONVERTIBLE
NHTSA NO: CT0309

MGA PROVING GROUNDS
5000 WARREN ROAD
BURLINGTON, WI 53105



Test Date: March 20, 1996

Report Date: April 1, 1996

FINAL REPORT

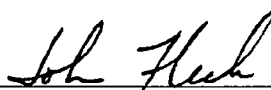
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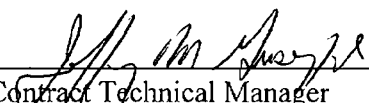
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16. Abstract A 48/24 kph 90° Impact (Moving Deformable Barrier) Compliance Test was conducted on the subject 1996 Chrysler Sebring JX Convertible in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-214D-04 for the determination of FMVSS No. 214 Side Impact Protection compliance. The test was conducted at MGA Research Corporation in Burlington, Wisconsin, on March 20, 1996. The impact velocity of the Moving Deformable Barrier (MDB) was 53.1 kph, and the ambient temperature at the struck side (driver's) of the target vehicle at the time of impact was 23°C. The target vehicle post test maximum crush was 225 mm at level 2. The test vehicle's performance follows: <table border="1"> <thead> <tr> <th></th> <th><u>DRIVER</u></th> <th><u>PASS.</u></th> </tr> </thead> <tbody> <tr> <td>Left Upper Rib (LUR) Accel., g</td> <td>37</td> <td>80</td> </tr> <tr> <td>Left Lower Rib (LLR) Accel., g</td> <td>36</td> <td>69</td> </tr> <tr> <td>Lower Spine (T₁₂) Accel., g</td> <td>52</td> <td>53</td> </tr> <tr> <td>Thoracic Trauma Index (TTI)</td> <td>45</td> <td>66</td> </tr> <tr> <td>Pelvis (PEV) Accel., g</td> <td>50</td> <td>44</td> </tr> </tbody> </table> The door on the struck side of the vehicle did not separate from the body at the hinges or latch and the opposite door did not open during the side impact event.							<u>DRIVER</u>	<u>PASS.</u>	Left Upper Rib (LUR) Accel., g	37	80	Left Lower Rib (LLR) Accel., g	36	69	Lower Spine (T ₁₂) Accel., g	52	53	Thoracic Trauma Index (TTI)	45	66	Pelvis (PEV) Accel., g	50	44
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17. Key Words Compliance Testing Side Impact Protection FMVSS 214 Side Impact Dummy (SID)		18. Distribution Statement Copies of this report are available from: National Highway Traffic Safety Adm. Technical Ref. Division, Room 5108 (NAD-52) 400 Seventh Street, S.W. Washington, D.C. 20590 Telephone No. 202-366-4946 Attn: Robert Hornickle																					
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SECTION 1
PURPOSE AND TEST PROCEDURE

This side impact test is part of the FY 96 FMVSS 214 Side Impact Protection Compliance Test Program, sponsored by the National Highway Traffic Safety Administration (NHTSA), under Contract No. DTNH22-93-C-02047. The purpose of this test was to evaluate side impact protection of a 1996 Chrysler Sebring JX Convertible.

This side impact test was conducted in accordance with the Vehicle Safety Compliance's FMVSS 214 test procedure (TP-214D-04, dated September 1, 1995).

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

SECTION 2

SUMMARY OF SIDE IMPACT TEST

A 1996 Chrysler Sebring JX Convertible 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 33.0 mph (53.1 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 March 20, 1996. 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 OVSC Side Impact Laboratory Test Procedure which is dated September 1, 1995. 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)

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)	45	66
Pelvis (g)	50	44

TEST NOTES

1. The following accelerometers were not used for this test:

Left Front Door on Centerline

Midrear of Left Front Door

Left Front Door Upper Centerline

Midrear of Left Rear Door

Left Rear Door Upper Centerline

Left Mid B-Post

Rear Seat Track

2. The ATD umbilical cords interfered with the string potentiometer used to measure rear seating position intrusion.

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: 1996/Chrysler/Sebring/JX Convertible

Vehicle NHTSA No.: CT0309 VIN: 3C3-EL45X9TT-243523

Vehicle Body Color: Candy Apple Red Build Date: 1-96

Engine Data: 4 Cylinders; CID; 2.4 Liter; cc

Placement Longitudinal; X Lateral

Transmission: 4 speed; Manual; X Automatic; Overdrive

Final Drive: Rear Wheel Drive; X Frt. Wheel Drive; Four Wheel Drive

Odometer Reading 91 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: P205/65R15 or P215/55R16

Tires on Test Vehicle: P205/65R15 Manufacturer: Michelin

Vehicle Capacity Data:

Number of Occupants: 2 Front; 2 Rear; 3rd Seat 4 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 = 324.3 kg (A)

No. of Occupants x 68.04 kg. = 272.2 kg (B)

Cargo Capacity (A-B) = 52.1 kg

GENERAL VEHICLE TEST PARAMETER DATA (Cont'd)

WEIGHT OF TEST VEHICLE WITH MAXIMUM FLUIDS:

Right Front	=	<u>461.3</u> kg	Right Rear	=	<u>298.5</u> kg
Left Front	=	<u>477.2</u> kg	Left Rear	=	<u>302.1</u> kg
TOTAL FRONT	=	<u>938.5</u> kg	TOTAL REAR	=	<u>600.6</u> kg
% of Total Vehicle Weight		= <u>61.0</u> %;	% of Total Weight		= <u>39.0</u> %
TOTAL WEIGHT = <u>1539.1</u> kg					

GENERAL VEHICLE TEST PARAMETER DATA (Cont'd)

Year/Make/Model/Body Style: 1996/Chrysler/Sebring/JX Convertible

Vehicle NHTSA No.: CT0309 Test Date: March 20, 1996

CALCULATION OF VEHICLE'S TARGET TEST WEIGHT:

Total Test Vehicle Delivered Weight with Maximum Fluids	= <u>1539.1</u> kg
Cargo Carrying Capacity of Test Vehicle	= <u>52.1</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>1752.6</u> kg

ACTUAL WEIGHT OF TEST VEHICLE WITH 2 DUMMIES AND CARGO:

Right Front	= <u>482.2</u> kg	Right Rear	= <u>354.3</u> kg
Left Front	= <u>528.9</u> kg	Left Rear	= <u>381.5</u> kg
TOTAL FRONT	= <u>1011.1</u> kg	TOTAL REAR	= <u>735.8</u> kg
% of Total Weight	= <u>57.9</u> %	% of Total Weight	= <u>42.1</u> %
TOTAL TEST WEIGHT	= <u>1746.9</u> kg		

TEST VEHICLE ATTITUDE:

CURB WEIGHT ATTITUDE:

Right Front 719 mm Left Front 713 mm Right Rear 713 mm Left Rear 705 mm

FULLY LOADED WEIGHT ATTITUDE:

Right Front 715 mm Left Front 699 mm Right Rear 688 mm Left Rear 666 mm

TEST ATTITUDE:

Right Front 707 mm Left Front 701 mm Right Rear 694 mm Left Rear 670 mm

GENERAL VEHICLE TEST PARAMETER DATA (Cont'd)

Test Vehicle Wheelbase: 2690 mm

C.G. = 1133 mm rearward of front wheel centerline

TOTAL VEHICLE LENGTH:

Right Side = 4480 mm

Centerline = 4917 mm

Left Side = 4480 mm

GENERAL VEHICLE TEST PARAMETER DATA (Cont'd)

Year/Make/Model/Body Style: 1996/Chrysler/Sebring/JX Convertible

Vehicle NHTSA No.: CT0309 Test Date: March 20, 1996

FRONT SEAT CUSHION PLACEMENT:

Total Length of Adjustment Travel: 220 mm

Test Position: mid travel at 110 mm

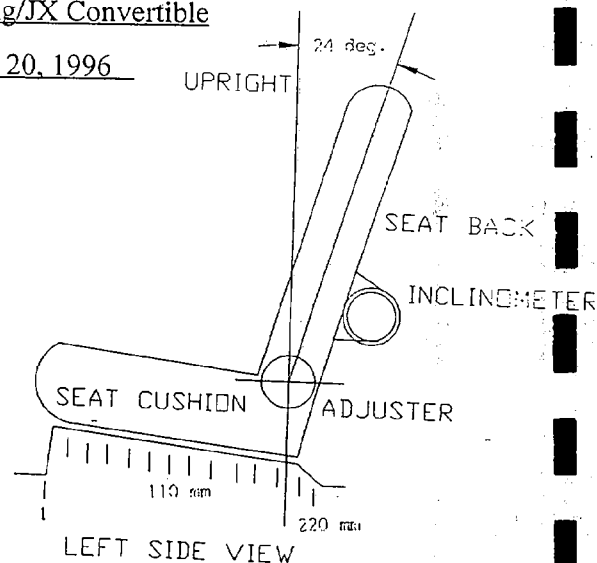
FRONT SEAT BACK ADJUSTMENT POSITION:

Seat Back Angle = 24° from the vertical position

SECOND POSITION SEAT:

Total Length of Fore/Aft Adjustment Travel: Non-Adjustable

Seat Back Adjustment Position: Non-Adjustable



ADJUSTABLE STEERING COLUMN POSITION: Center of range of motion at 22.9°

WINDOW POSITIONS: Left Front Closed Left Rear Closed
Right Front Open Right Rear Open

AMOUNT OF STODDARD SOLVENT IN FUEL TANK:

Fuel system usable capacity = 59.8 liters

Test Volume: 55.3 liters 92.5 % of capacity

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

Wheelbase: = 2690 mm

Impact Point is 405 mm rearward of front axle centerline

DATA SHEET NO. 2

TEST VEHICLE SUMMARY OF RESULTS

Year/Make/Model/Body Style: 1996/Chrysler/Sebring/JX Convertible

Vehicle NHTSA No.: CT0309 Test Date: March 20, 1996

Overall Length = 4917 mm; Overall Width = 1757 mm

TEST WEIGHT:

Right Front = 482.2 kg Right Rear = 354.3 kg

Left Front = 528.9 kg Left Rear = 381.5 kg

TOTAL FRONT = 1011.1 TOTAL REAR = 735.8 kg

% of Total Weight = 57.9 % % of Total Weight = 42.1 %

TOTAL VEHICLE WEIGHT = 1746.9 kg

Wheelbase = 2690 mm

Longitudinal C.G. from Center of Front Axle = 1133 mm

Impact Angle with Respect to Impactor = 90° degrees

MAXIMUM EXTERIOR STATIC CRUSH:

1. LEVEL 1 (246 mm above ground) = 77 mm

2. LEVEL 2 (446 mm above ground) = 225 mm

3. LEVEL 3 (570 mm above ground) = 221 mm

4. LEVEL 4 (868 mm above ground) = 184 mm

5. LEVEL 5 (1280 mm above ground) = 36 mm

Maximum Post-Test Intrusion = 225 mm

OCCUPANTS:

Left Front Passenger Left Rear Passenger

Type of Dummy SID SID

Restraints Used type II belt type II belt

TEST VEHICLE SUMMARY OF RESULTS (Cont'd)

INSTRUMENTATION:

Number of Vehicle Data Channels:	=	<u>21</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 RESULTS

Year/Make/Model/Body Style: 1996/Chrysler/Sebring/JX Convertible

Vehicle NHTSA No.: CT0309 Test Date: March 20, 1996

POSITION OF IMPACT (MDB) ON MONORAIL:

Crabbed 26.8° to left

MDB 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>1102 mm</u>
C.G. Location From Center Line	= <u>-8 mm</u>
C.G. Location Above Ground Level	= <u>488 mm</u>

MDB WEIGHT:

Left Front	= <u>496.7 kg</u>	Left Rear	= <u>187.3 kg</u>
Right Front	= <u>283.0 kg</u>	Right Rear	= <u>389.2 kg</u>
TOTAL FRONT	= <u>779.7 kg</u>	TOTAL REAR	= <u>576.5 kg</u>
TOTAL MDB WEIGHT = <u>1356.2 kg</u>			

Impact Angle (MDB C/L to Target Vehicle C/L) = 90° degrees

Impact Speed = Primary: 33.0 mph (53.3 kph) Secondary: 33.1 mph (53.3 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>130</u> | mm |
| 2. | Row B Mid Stack (686 mm) | = | <u>95</u> | mm |
| 3. | Row C Top of Bumper (533 mm) | = | <u>96</u> | mm |
| 4. | Row D Center of Bumper (432 mm) | = | <u>137</u> | mm |

INSTRUMENTATION:

Number of MDB Data Channels = 7

DATA SHEET NO. 4

POST-TEST OBSERVATIONS

Year/Make/Model/Body Style: 1996/Chrysler/Sebring/JX Convertible

Vehicle NHTSA No.: CT0309 Test Date: March 20, 1996

VISIBLE DUMMY CONTACT POINTS:

	<u>LEFT FRONT SID</u>	<u>LEFT REAR SID</u>
Head	<u>to head rest, window, window sill</u>	<u>to C pillar</u>
Arm	<u>to mid door panel</u>	<u>to side panel</u>
Pelvis	<u>no visible contact</u>	<u>to arm rest</u>
Left Knee	<u>to lower arm rest</u>	<u>to side panel</u>
Right Knee	<u>to left knee</u>	<u>to left knee</u>

DOOR OPENING:

	<u>LEFT SIDE</u>	<u>RIGHT SIDE</u>
Front	<u>no</u>	<u>opened</u>
Rear	<u>N/A</u>	<u>N/A</u>

MDB DISTANCE FROM TARGET IMPACT POINT:

Horizontal: 9 mm forward Vertical: 4 mm high

ARM REST LOCATIONS:

Front: 600 mm from bottom of window
Rear: 803 mm from bottom of window

POST-TEST OBSERVATIONS (Cont'd)

SEAT CRUSH:

Front Seat Back: 10 mm Front Seat Cushion: 9 mm

Left Rear Seat Back: 6 mm Rear Seat Cushion: 18 mm

GLAZING DAMAGE:

Windshield cracked, both driver's side windows broke

PILLAR PERFORMANCE:

No failure noted

SILL SEPARATION:

No failure noted

OTHER NOTABLE IMPACT EFFECTS:

Fuel filler door opened upon impact

SECTION 4
OCCUPANT AND VEHICLE INFORMATION

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

Year/Make/Model/Body Style: 1996/Chrysler/Sebring/JX Convertible

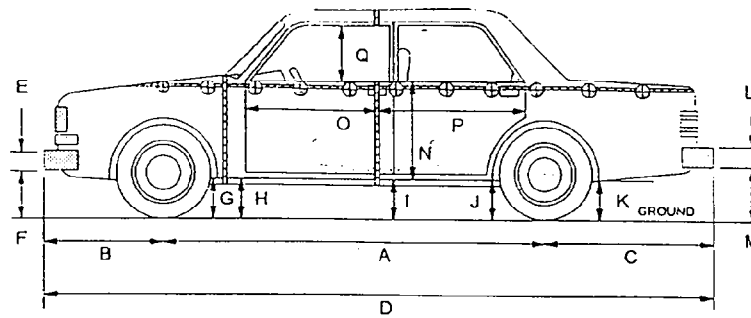
Vehicle NHTSA No.: CT0309 Test Date: March 20, 1996

	Front Dummy ID #271			Rear Dummy ID #272		
	Pos. Direct.		Neg. Direct	Pos. Direct.		Neg. Direct
	Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)
RIB ACCELERATIONS						
Left Upper Rib (LUR) Y	37.3	41	-9.8	73	79.7	-8.3 85
Left Lower Rib (LLR) Y	35.8	41	-6.7	115	69.2	-7.0 85
SPINE ACCELERATIONS						
Lower Lateral Y	52.2	54	-8.1	122	52.8	-11.0 90
PELVIS ACCELERATIONS						
Lateral Y	50.1	51	-11.7	129	44.5	-3.8 135

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

Negative Direction - Longitudinal (X) = rearward
Lateral (Y) = to left
Vertical (Z) = up

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



LEFT SIDE VIEW

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)

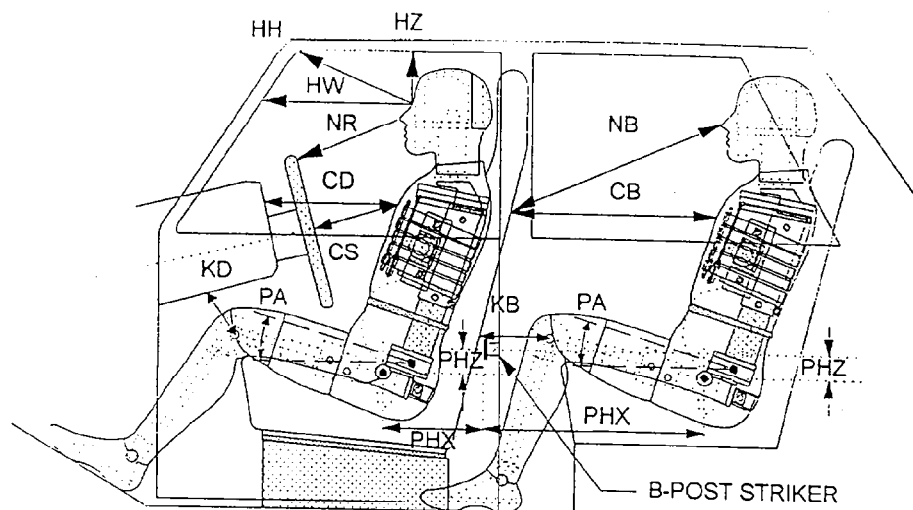
	PRE-TEST	POST-TEST	Δ CHANGE
A	2690	2665	25
B	1017	1034	17
C	1210	1218	8
D	4917	4917	0
E	145	145	0
F	396	384	12
G	207	206	1
H	154	177	23
I	133	178	45
J1/J2	154/145	193/186	39/41
K	237	281	44
L	293	293	0
M	322	357	35
N	630	604	26
O	840	808	32
P	566	566	0
Q	400	364	36
R	4480	4462	18
S	4480	4424	56
T	1757	1683	74

DATA SHEET NO. 7

SIDE IMPACT DUMMY (SID) LONGITUDINAL CLEARANCE DIMENSIONS

Year/Make/Model/Body Style: 1996/Chrysler/Sebring/JX Convertible

NHTSA NO.: CT0309 Test Date: March 20, 1996



NOTE: All dimensions are in mm with tolerance of ± 3 mm

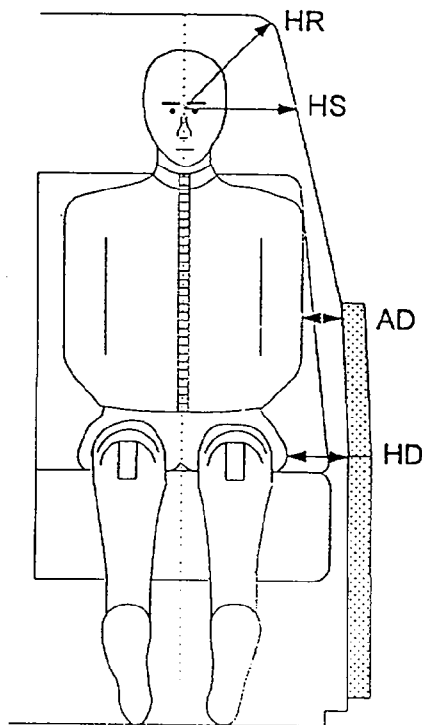
	FRONT SID ID #271		REAR PASSENGER SID ID #272
HH	453	HZ	155
HW	688	NB	586
HZ	183	CB	508
NR	443	KBL (KBA)	193 (5.7°)
CD	524	KBR (KBA)	184 (11.6°)
CS	329	PA°	23.1°
KDL(KDA°)	147 (37.7°)	PHX	432
KDR(KDA°)	155 (43.5°)	PHZ	100
PA°	24.4°		
PHX	469		
PHZ	113		

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 DIMENSIONS

Year/Make/Model/Body Style: 1996/Chrysler/Sebring/JX Convertible

NHTSA NO.: CT0309 Test Date: March 20, 1996



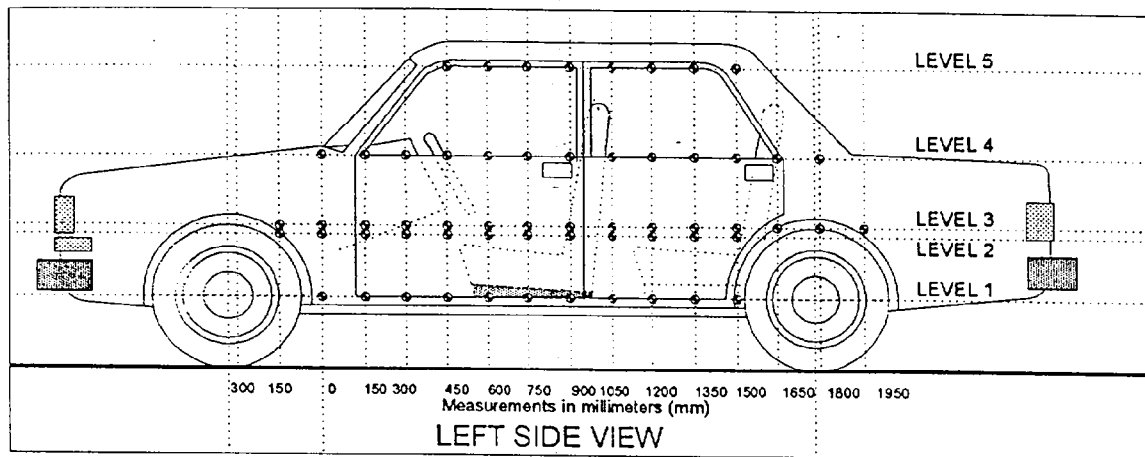
NOTE: All dimensions are in mm

	DRIVER ID #271	LEFT REAR PASSENGER ID #272
HR	198	223
HS	324	232
AD	132	60
HD	123	116

DATA SHEET NO. 9
VEHICLE SIDE MEASUREMENTS

Year/Make/Model/Body Style: 1996/Chrysler/Sebring/JX Convertible

NHTSA NO.: CT0309 Test Date: March 20, 1996



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

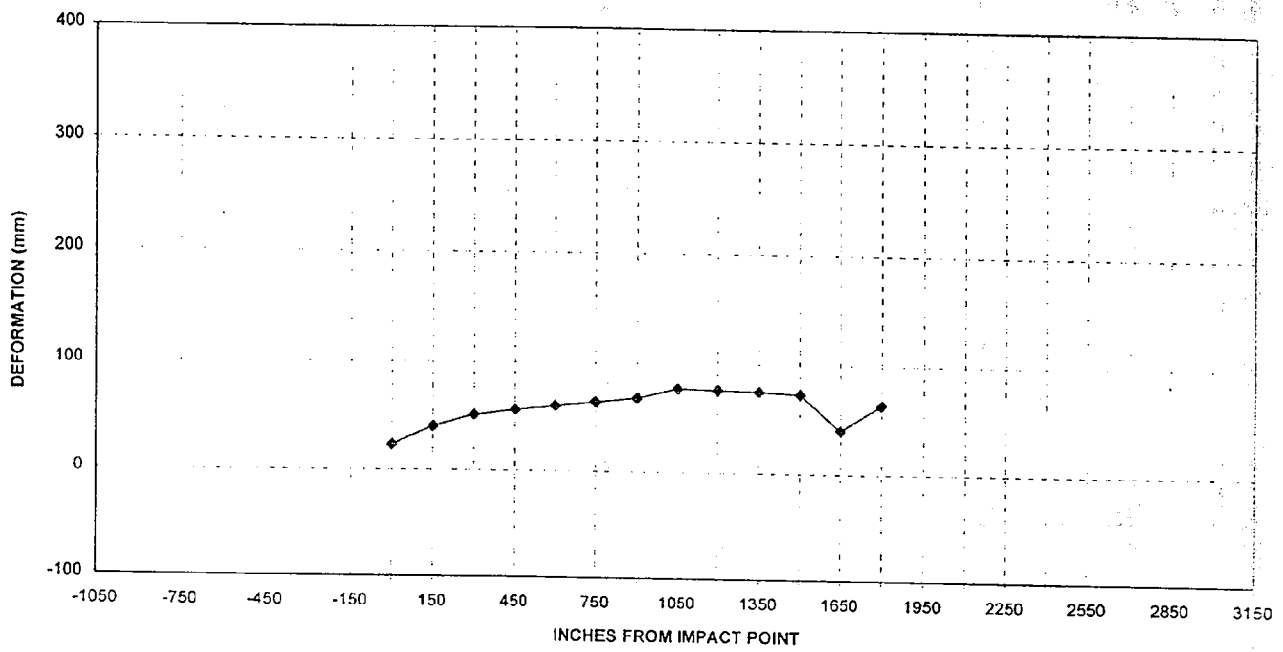
Level 5 @ Window Top	=	<u>1280</u> mm
Level 4 @ Window Sill	=	<u>868</u> mm
Level 3 @ Mid Door	=	<u>570</u> mm
Level 2 @ Occupant H-Point	=	<u>446</u> mm
Level 1 @ Axle Centerline Height (or Sill Top Height)	=	<u>246</u> mm

DATA SHEET NO. 10
VEHICLE EXTERIOR CRUSH PROFILES - ALL LEVELS

	Level 1 - Axle Centerline		
Longitudinal Distance (mm)	Pre-Test (mm)	Post-Test (mm)	Static Crush (mm)
-1050			
-900			
-750			
-600			
-450			
-300			
-150			
0 (impact point)	744	767	23
150	746	786	40
300	746	797	51
450	748	804	56
600	748	808	60
750	748	812	64
900	749	817	68
1050	747	824	77
1200	744	820	76
1350	743	818	75
1500	740	813	73
1650	736	806	70
1800	732	796	64
1950			
2100			
2250			
2400			
2550			
2700			
2850			
3000			
3150			

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

VEHICLE EXTERIOR STATIC CRUSH (Cont'd)



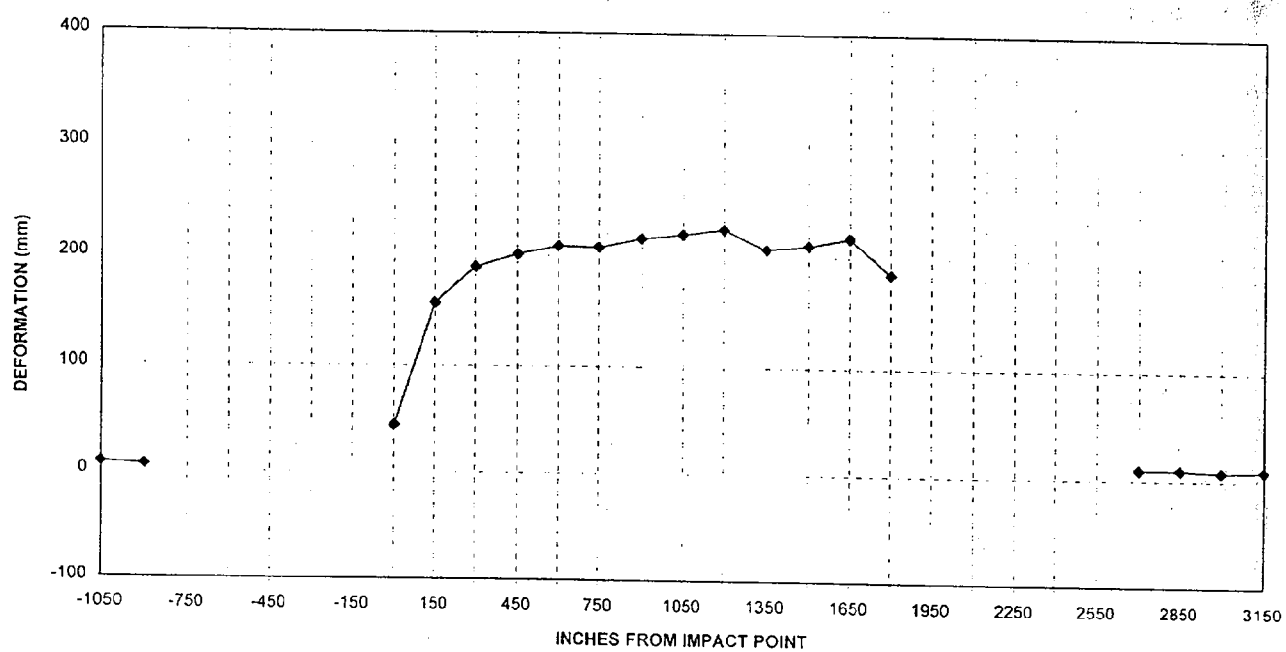
LEVEL 1 - AXLE CENTERLINE

DATA SHEET NO. 10 (Cont'd)
VEHICLE EXTERIOR CRUSH PROFILES - ALL LEVELS

Longitudinal Distance (mm)	Level 2 - Occupant H Point		
	Pre-Test (mm)	Post-Test (mm)	Static Crush (mm)
-1050	770	778	8
-900	734	740	6
-750			
-600			
-450			
-300			
-150			
0 (impact point)	683	727	44
150	685	842	157
300	687	876	189
450	688	889	201
600	690	899	209
750	691	899	208
900	691	907	216
1050	692	912	220
1200	690	915	225
1350	689	896	207
1500	690	901	211
1650	689	907	218
1800	686	871	185
1950			
2100			
2250			
2400			
2550			
2700	702	712	10
2850	719	729	10
3000	738	746	8
3150	768	777	9

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

VEHICLE EXTERIOR STATIC CRUSH (Cont'd)



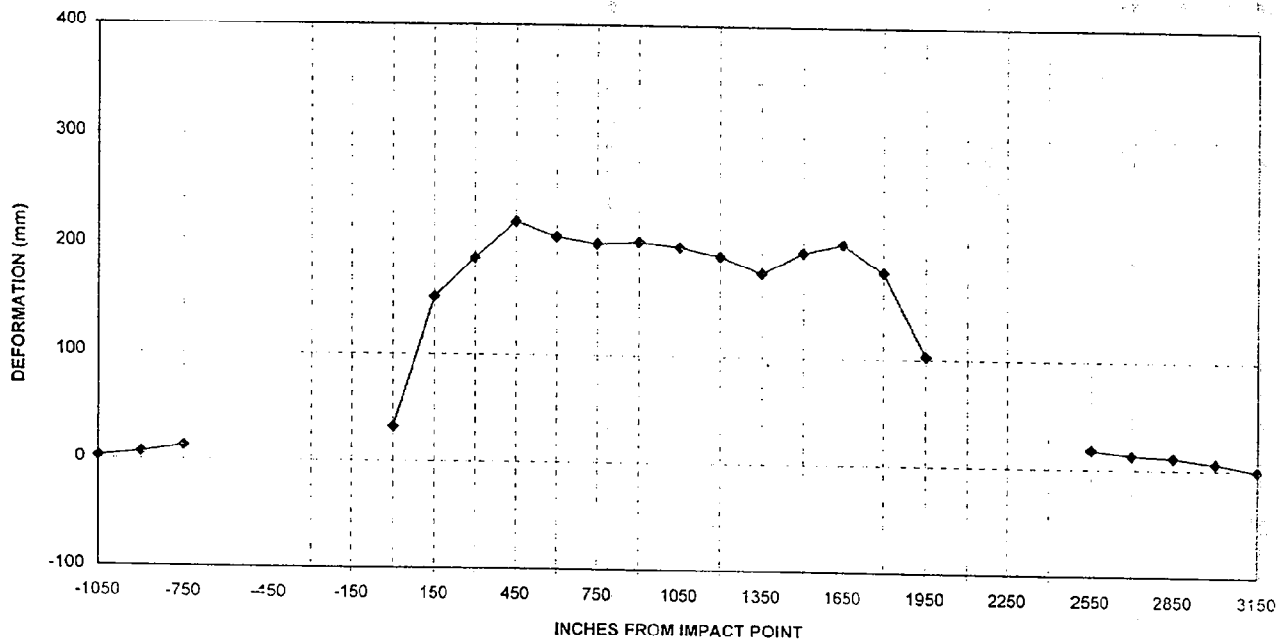
LEVEL 2 - OCCUPANT H-POINT

DATA SHEET NO. 10 (Cont'd)
VEHICLE EXTERIOR CRUSH PROFILES - ALL LEVELS

	Level 3 - Mid Door		
Longitudinal Distance (mm)	Pre-Test (mm)	Post-Test (mm)	Static Crush (mm)
-1050	777	780	3
-900	738	745	7
-750	709	722	13
-600			
-450			
-300			
-150			
0 (impact point)	682	714	32
150	683	836	153
300	685	874	189
450	688	909	221
600	688	896	208
750	690	892	202
900	690	894	204
1050	690	890	200
1200	690	882	192
1350	688	865	177
1500	687	883	196
1650	685	889	204
1800	682	861	179
1950	678	781	103
2100			
2250			
2400			
2550	693	711	18
2700	709	722	13
2850	732	743	11
3000	764	770	6
3150	814	813	-1

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

VEHICLE EXTERIOR STATIC CRUSH (Cont'd)



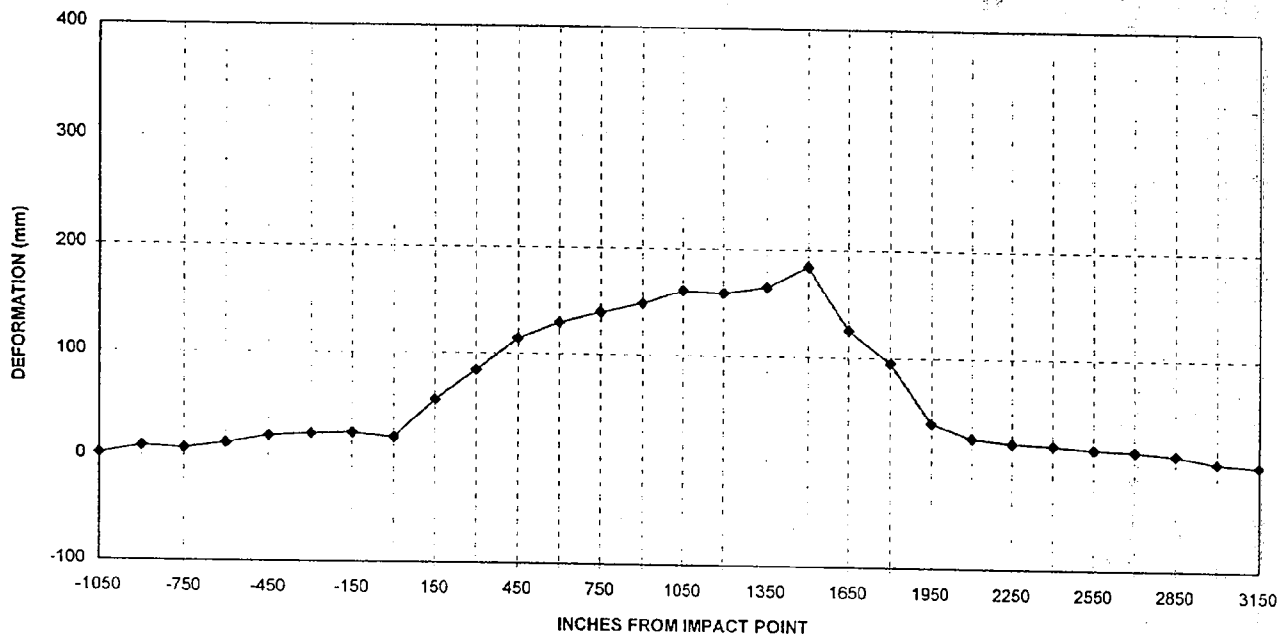
LEVEL 3 - MID DOOR

DATA SHEET NO. 10 (Cont'd)
VEHICLE EXTERIOR CRUSH PROFILES - ALL LEVELS

Longitudinal Distance (mm)	Level 4 - Window Sill		
	Pre-Test (mm)	Post-Test (mm)	Static Crush (mm)
-1050	844	846	2
-900	810	819	9
-750	792	799	7
-600	769	781	12
-450	757	776	19
-300	745	766	21
-150	740	762	22
0 (impact point)	738	756	18
150	733	788	55
300	735	819	84
450	736	850	114
600	736	865	129
750	736	875	139
900	738	886	148
1050	738	899	161
1200	736	895	159
1350	737	902	165
1500	738	922	184
1650	736	861	125
1800	738	833	95
1950	736	773	37
2100	737	760	23
2250	740	759	19
2400	747	764	17
2550	756	770	14
2700	770	782	12
2850	787	796	9
3000	810	812	2
3150	840	839	-1

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

VEHICLE EXTERIOR STATIC CRUSH (Cont'd)



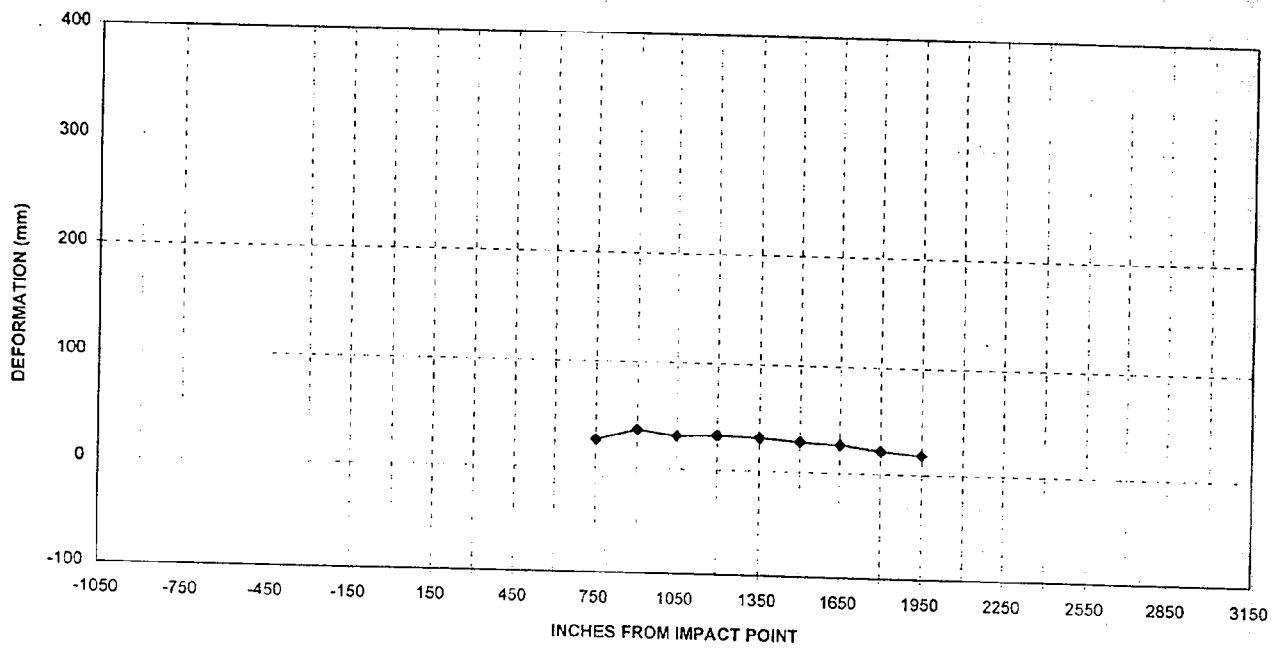
LEVEL 4 - WINDOW SILL

DATA SHEET NO. 10 (Cont'd)
VEHICLE EXTERIOR CRUSH PROFILES - ALL LEVELS

	Level 5 - Window Top		
Longitudinal Distance (mm)	Pre-Test (mm)	Post-Test (mm)	Static Crush (mm)
-1050			
-900			
-750			
-600			
-450			
-300			
-150			
0 (impact point)			
150			
300			
450			
600			
750	980	1006	26
900	980	1016	36
1050	981	1012	31
1200	985	1017	32
1350	988	1019	31
1500	993	1021	28
1650	1006	1032	26
1800	1015	1036	21
1950	1020	1038	18
2100			
2250			
2400			
2550			
2700			
2850			
3000			
3150			

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

VEHICLE EXTERIOR STATIC CRUSH (Cont'd)

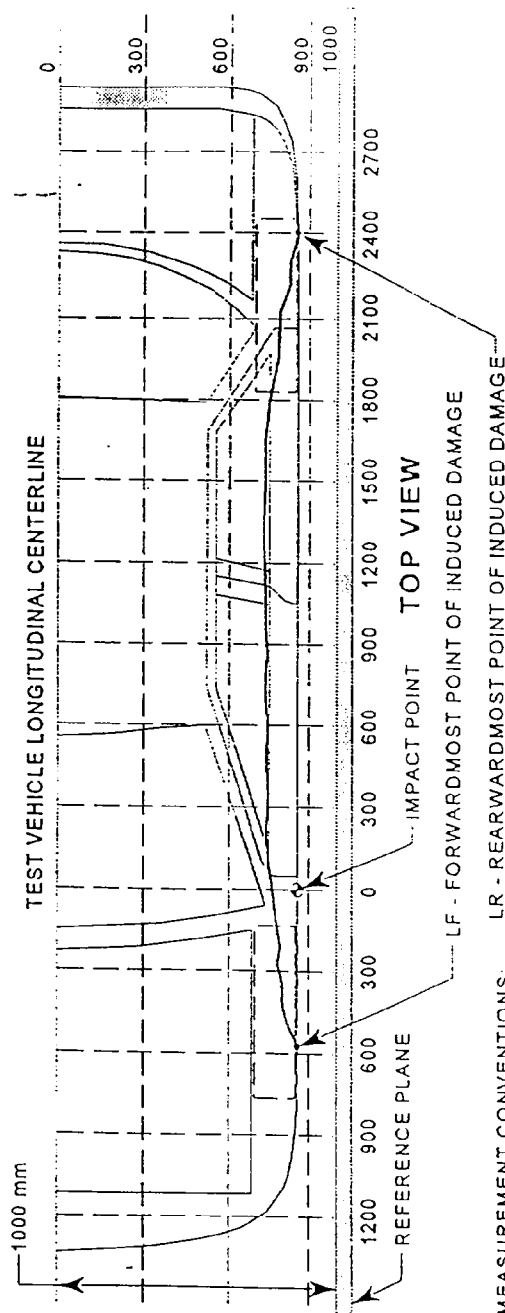


LEVEL 5 - WINDOW TOP

DATA SHEET NO. 11
VEHICLE DAMAGE PROFILE DISTANCES

Year/Make/Model/Body Style: 1996/Chrysler/Sebring/JX Convertible

NHTSA NO.: CT0309 Test Date: March 20, 1996



MEASUREMENT CONVENTIONS:
Forward of the impact point (towards front of vehicle) is considered negative (-).
Rearward of the impact point (toward rear of vehicle) is considered positive (+).

DPD MEASUREMENTS	POST-TEST (mm)	PRE-TEST (mm)	STATIC CRUSH (mm)
1. (LF = <u>300</u> mm)	694	694	0
2. 210 mm	800	734	66
3. 720 mm	916	691	225
4. 1230 mm	909	690	219
5. 1740 mm	850	737	113
6. (LR = <u>2250</u> mm)	708	708	0

DATA SHEET NO. 12

EXTERIOR STATIC CRUSH FOR SIDE IMPACTOR

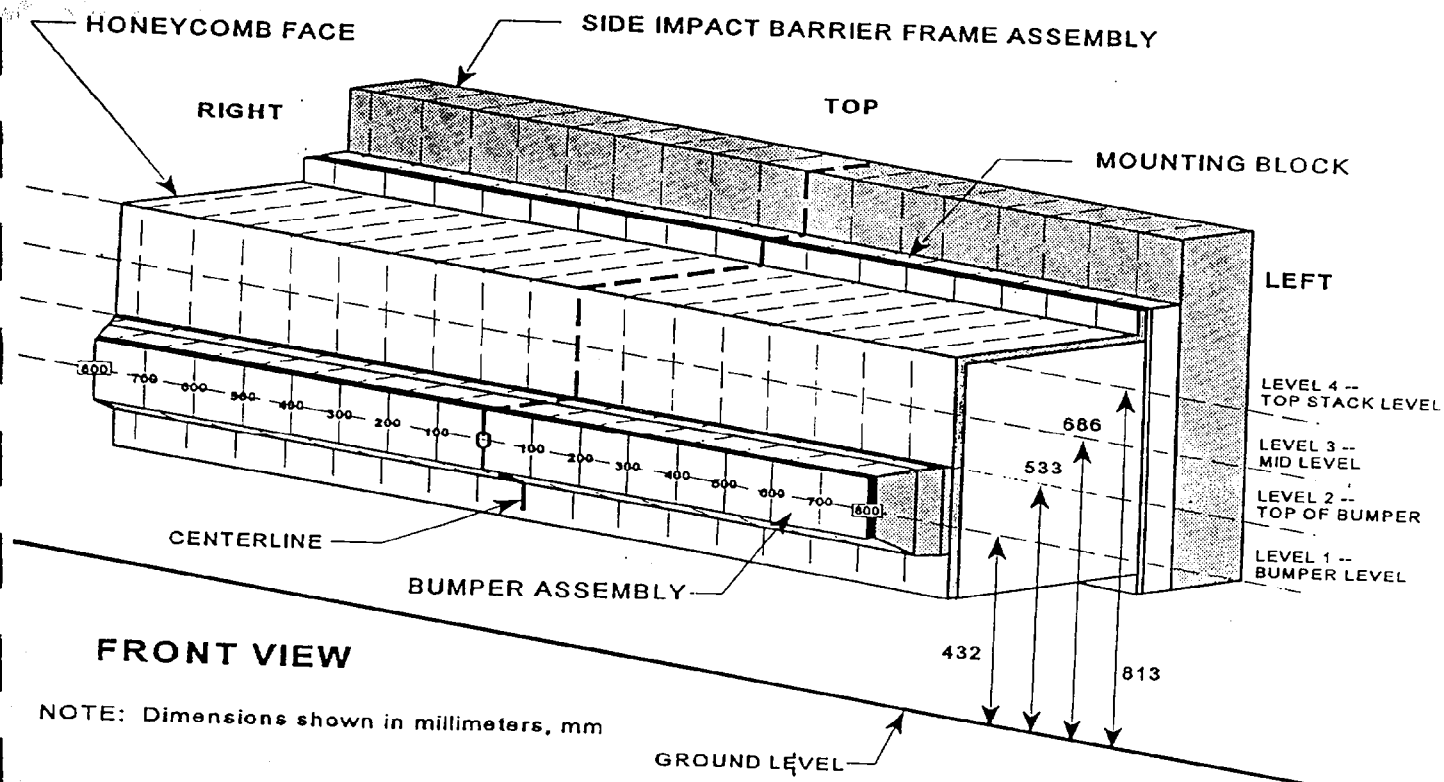
Year/Make/Model/Body Style: 1996/Chrysler/Sebring/IX Convertible

Vehicle NHTSA No.: CT0309 Test Date: March 20, 1996

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	89	41	15	1	1	2	4	6	8	9	11	13	14	30	57	92	130
Mid Level Level 3	686 mm	53	5	5	8	15	2	3	3	5	7	9	10	12	14	23	48	95
Top Bumper Level 2	533 mm	75	72	68	68	61	48	32	25	21	21	25	27	29	39	53	72	96
Mid Bumper Level 1	432 mm	113	110	110	113	111	93	75	69	59	57	60	63	66	77	94	118	137

See next page for Barrier Face Graphic

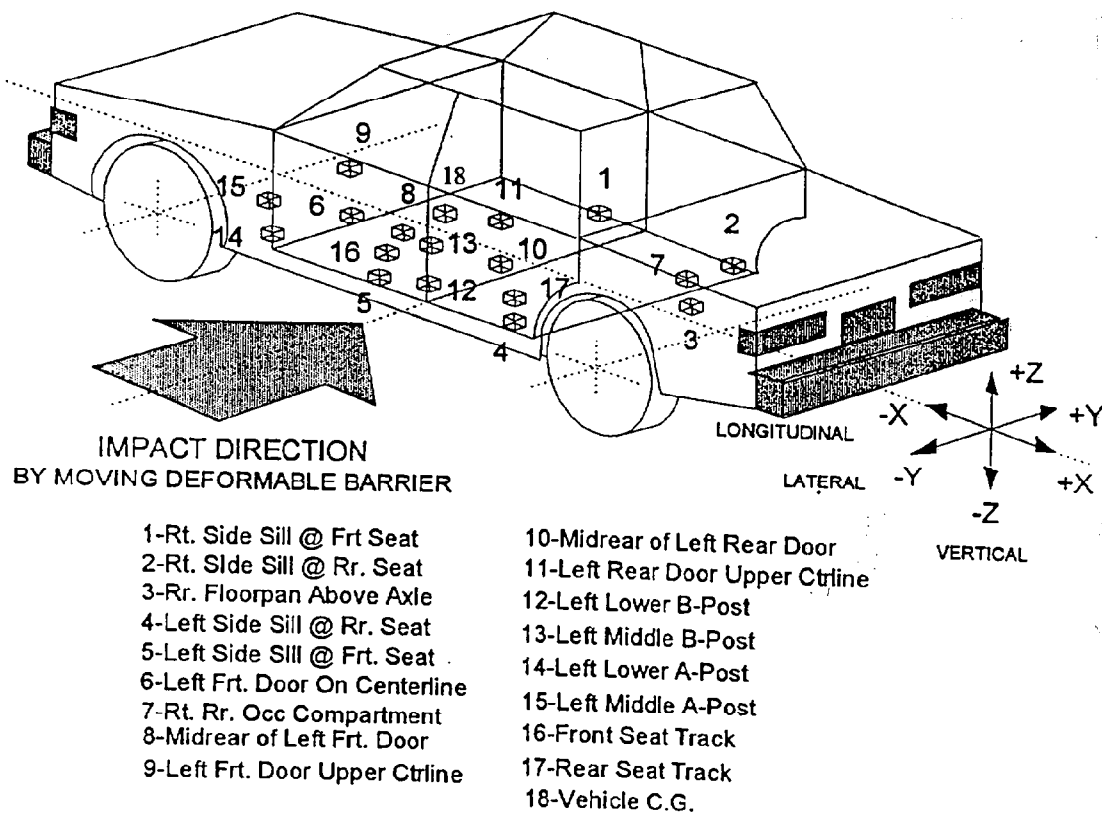
DATA SHEET NO. 12 (Cont'd)



DATA SHEET 13
TEST VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Year/Make/Model/Body Style: 1996/Chrysler/Sebring/JX Convertible

Vehicle NHTSA No.: CT0309 Test Date: March 20, 1996



DATA SHEET NO. 13

TEST VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Year/Make/Model/Body Style: 1996/Chrysler/Sebring/JX Convertible

Vehicle NHTSA No.: CT0302 Test Date: March 20, 1996

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	2584	692	188	4.2	-2.6	29.4	-2.1	7.7	-5.3	29.4
2	Rt. Side Sill @ Rear Seat	1705	684	205	4.5	-3.2	30.7	-1.9	5.4	-6.3	31.1
3	Rr. Floorpan Above Axle	1059	-25	490	5.1	-11.4	20.7	-2.1	10.4	-5.9	22.2
4	Left Side Sill @ Rr. Seat	1638	-685	203	---	---	42.9	-5.3	---	---	---
5	Left Side Sill @ Frt. Seat	2561	-693	178	---	---	35.7	-2.3	---	---	---
7	Right Rear Occupant Compartment	2051	310	370	---	---	25.3	-1.7	---	---	---
12	Left Lower B-Post	2167	-695	215	---	---	39.7	-2.8	---	---	---
14	Left Lower A-Post	3400	-905	357	---	---	92.1	-18.3	---	---	---
15	Left Mid A-Post	3471	-862	680	---	---	51.3	-9.3	---	---	---
16	Driver Left Seat Track	2377	-595	277	---	---	34.2	-2.9	---	---	---
18	Vehicle CG	2786	-23	353	4.2	-10.0	25.9	-1.7	17.8	-14.4	30.3

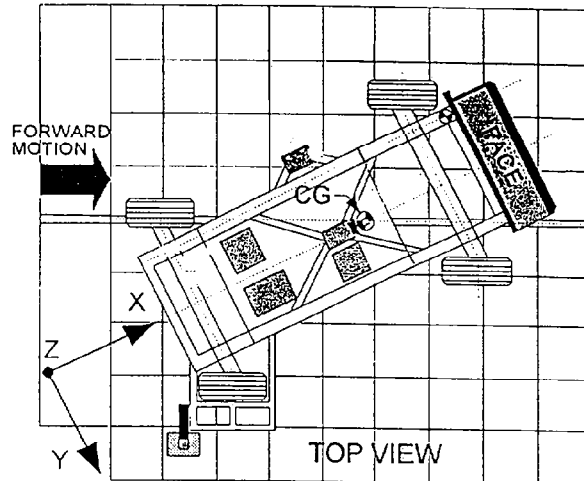
*Reference: X - Rear Bumper (+ Forward)
Y - Vehicle Centerline (+ To right)
Z - Ground Level (+ Up)

DATA SHEET NO. 14

MOVING DEFORMABLE BARRIER (MDB) ACCELEROMETER LOCATIONS AND DATA SUMMARY

Year/Make/Model/Body Style: 1996/Chrysler/Sebring/JX Convertible

Vehicle NHTSA No.: CT0309 Test Date: March 20, 1996



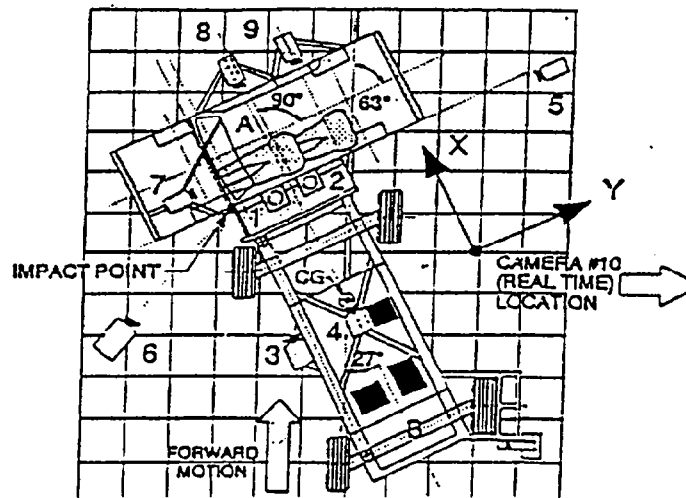
Accel. No.	Description	Coordinates (mm)*			(+) Positive		(-) Negative	
		X	Y	Z	Max. (g)	Time (msec)	Max. (g)	Time (msec)
1	MDB Center of Gravity	-1092	0	483				
	Longitudinal (X)	---	---	---	1.4	117	-16.3	29
	Lateral (Y)	---	---	---	1.9	71	-6.8	53
	Vertical (Z)	---	---	---	12.1	69	-9.7	117
	Resultant (R)	---	---	---	19.9	52	---	---
2	Rear Frame Member	-2591	-625	622				
	Longitudinal (X)	---	---	---	1.7	188	-20.4	44
	Lateral (Y)	---	---	---	3.6	52	-1.9	71

*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: 1996/Chrysler/Sebring/JX Convertible

Vehicle NHTSA No.: CT0309 Test Date: March 20, 1996



Camera No.	View	Coordinates (mm)*			Angle	Lens (mm)	Film Speed (fps)
		X	Y	Z			
	Real Time					13	24
1	Top Impact	-30	-103	5400	90°	13	N/T
2	Top Wide	320	747	5130	90°	8	1099
3	Cart Pointer					35	1020
4	Cart					13	1042
5	Right Impact	3130	8817	1920	90°	25	1020
6	Left Overall	-3180	-1693	1655	90°	13	1099
7	Onboard Driver					8	1031
8	Onboard Hood					13	990
9	Onboard Passenger					8	943

* Reference: (from impact point)

+X = Forward

+Y = To Right

+Z = Upward from floor level

NT = No Timing Available

DATA SHEET 16
FUEL SYSTEM INTEGRITY POST IMPACT TEST DATA

Vehicle Year/Make/Model/Body Style: 1996/Chrysler/Sebring/JX Convertible

Vehicle NHTSA No.: CT0309 Test Date: March 20, 1996

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 33.0 mph (53.1 kph)

FUEL SPILLAGE MEASUREMENT:

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

FUEL SPILLAGE LOCATION(S): None

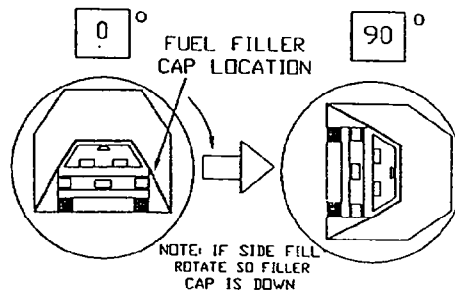
DATA SHEET 16

FMVSS 301 STATIC ROLLOVER TEST DATA

Vehicle Year/Make/Model/Body Style: 1996/Chrysler/Sebring/JX Convertible

Vehicle NHTSA No.: CT0309 Test Date: March 20, 1996

TEST PHASE: 0° - 90°



DETERMINATION OF SOLVENT COLLECTION TIME PERIOD:

Rollover Fixture 90° Rotation Time = 2 minutes 50 seconds
(Spec. Range = 1 to 3 minutes)

FMVSS 301 Position Hold Time = 5 minutes 0 seconds

TOTAL TIME = 7 minutes 50 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

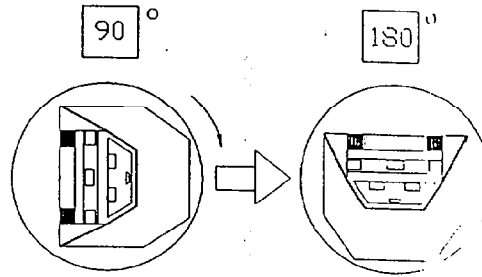
DATA SHEET 16

FMVSS 301 STATIC ROLLOVER TEST DATA (Cont'd)

Vehicle Year/Make/Model/Body Style: 1996/Chrysler/Sebring/JX Convertible

Vehicle NHTSA No.: CT0309 Test Date: March 20, 1996

TEST PHASE: 90° - 180°



DETERMINATION OF SOLVENT COLLECTION TIME PERIOD:

Rollover Fixture 90° Rotation Time = 2 minutes 30 seconds

(Spec. Range = 1 to 3 minutes)

FMVSS 301 Position Hold Time = 5 minutes 0 seconds

TOTAL TIME = 7 minutes 30 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

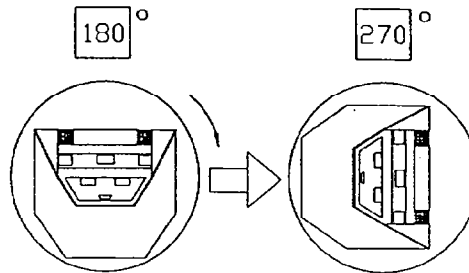
DATA SHEET 16

FMVSS 301 STATIC ROLLOVER TEST DATA (Cont'd)

Vehicle Year/Make/Model/Body Style: 1996/Chrysler/Sebring/JX Convertible

Vehicle NHTSA No.: CT0309 Test Date: March 20, 1996

TEST PHASE: 180° - 270°



DETERMINATION OF SOLVENT COLLECTION TIME PERIOD:

Rollover Fixture 90° Rotation Time = 2 minutes 15 seconds

(Spec. Range = 1 to 3 minutes)

FMVSS 301 Position Hold Time = 5 minutes 0 seconds

TOTAL TIME = 7 minutes 15 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

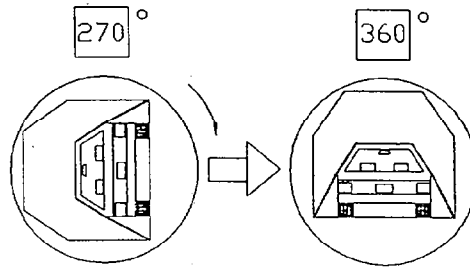
DATA SHEET 16

FMVSS 301 STATIC ROLLOVER TEST DATA

Vehicle Year/Make/Model/Body Style: 1996/Chrysler/Sebring/JX Convertible

Vehicle NHTSA No.: CT0309 Test Date: March 20, 1996

TEST PHASE: 270° - 360°



DETERMINATION OF SOLVENT COLLECTION TIME PERIOD:

Rollover Fixture 90° Rotation Time = 2 minutes 40 seconds

(Spec. Range = 1 to 3 minutes)

FMVSS 301 Position Hold Time = 5 minutes 0 seconds

TOTAL TIME = 7 minutes 40 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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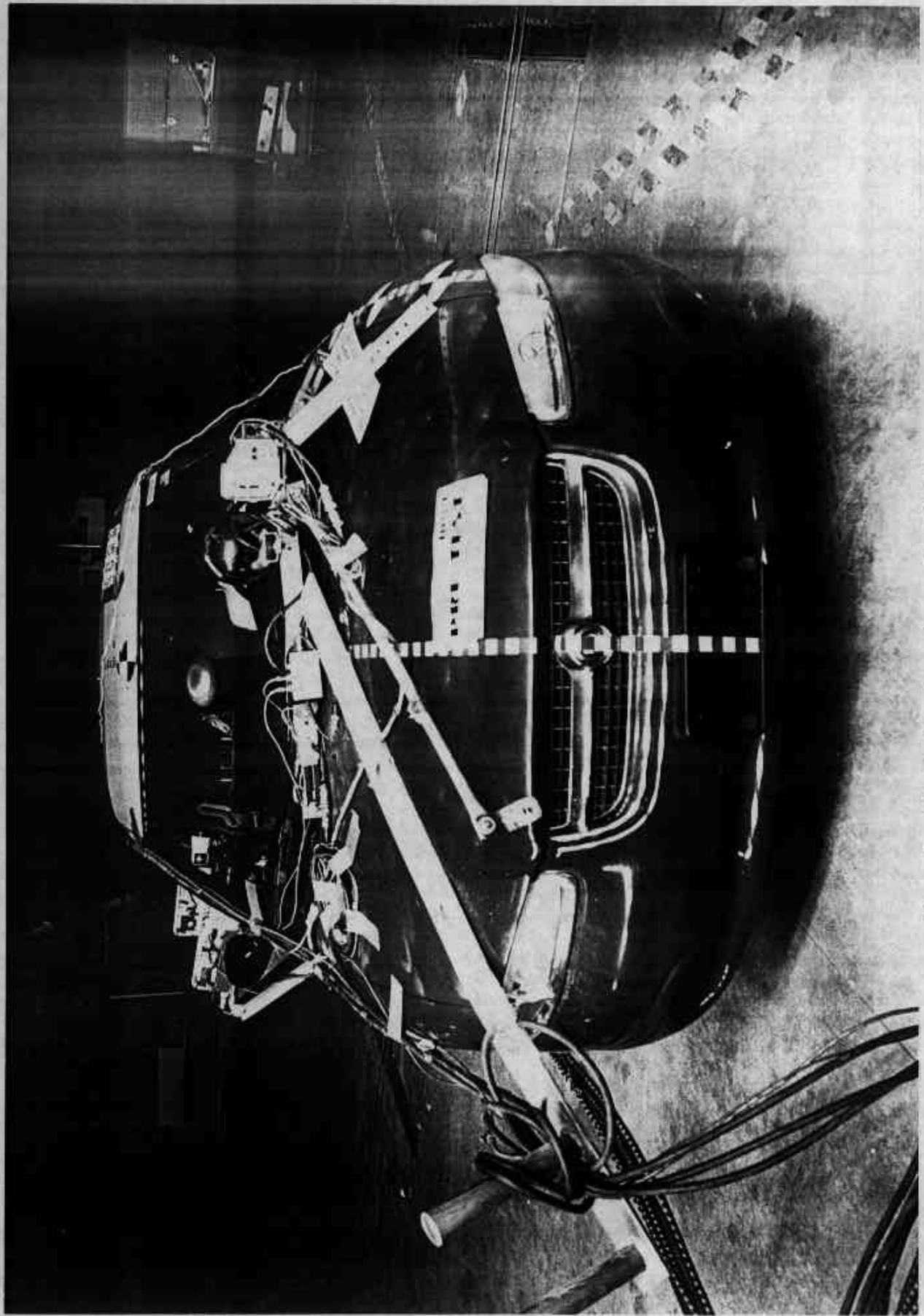


Photo No. A-1 - Pre-Test Front View of Test Vehicle

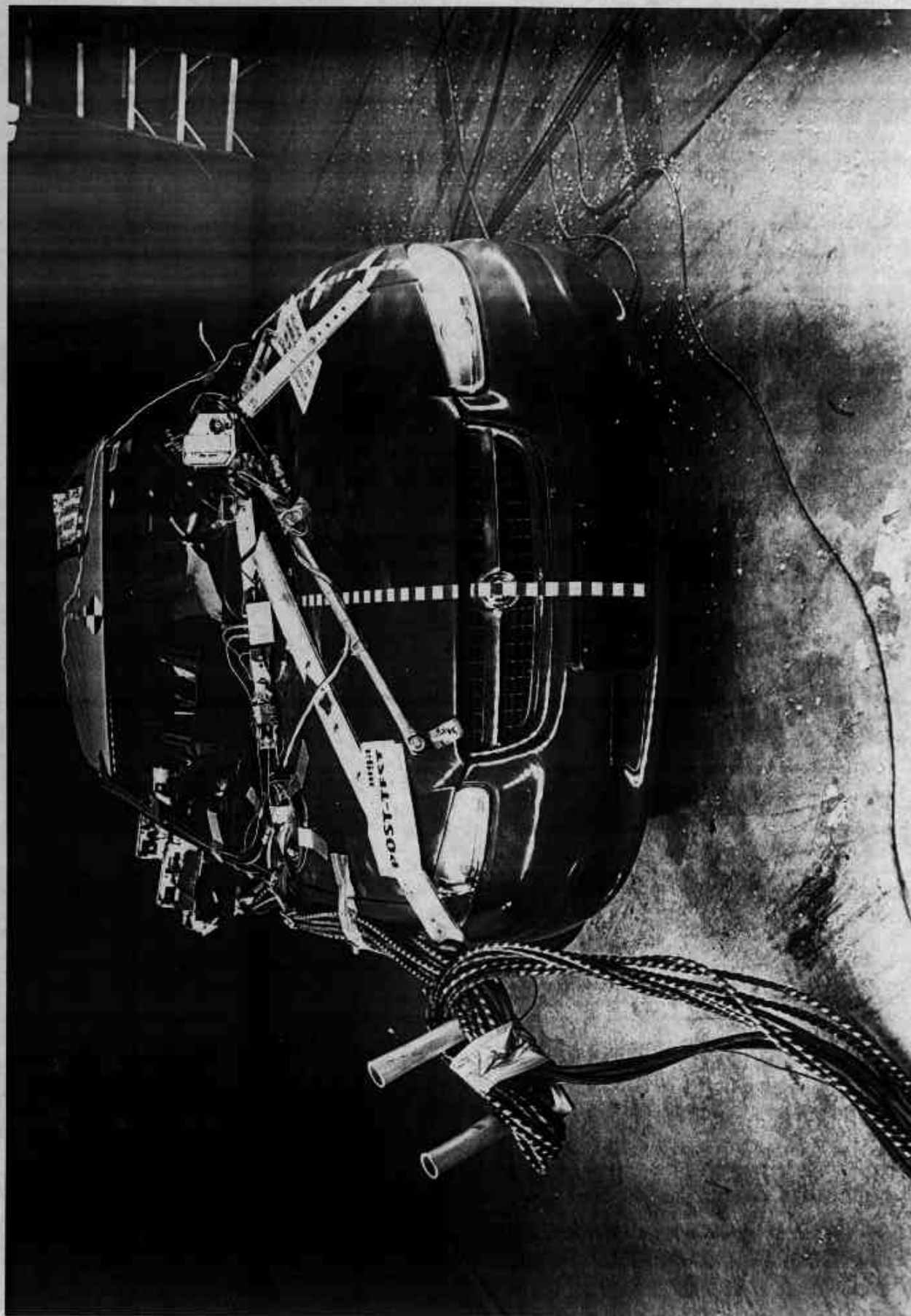


Photo No. A-2 - Post-Test Front View of Test Vehicle

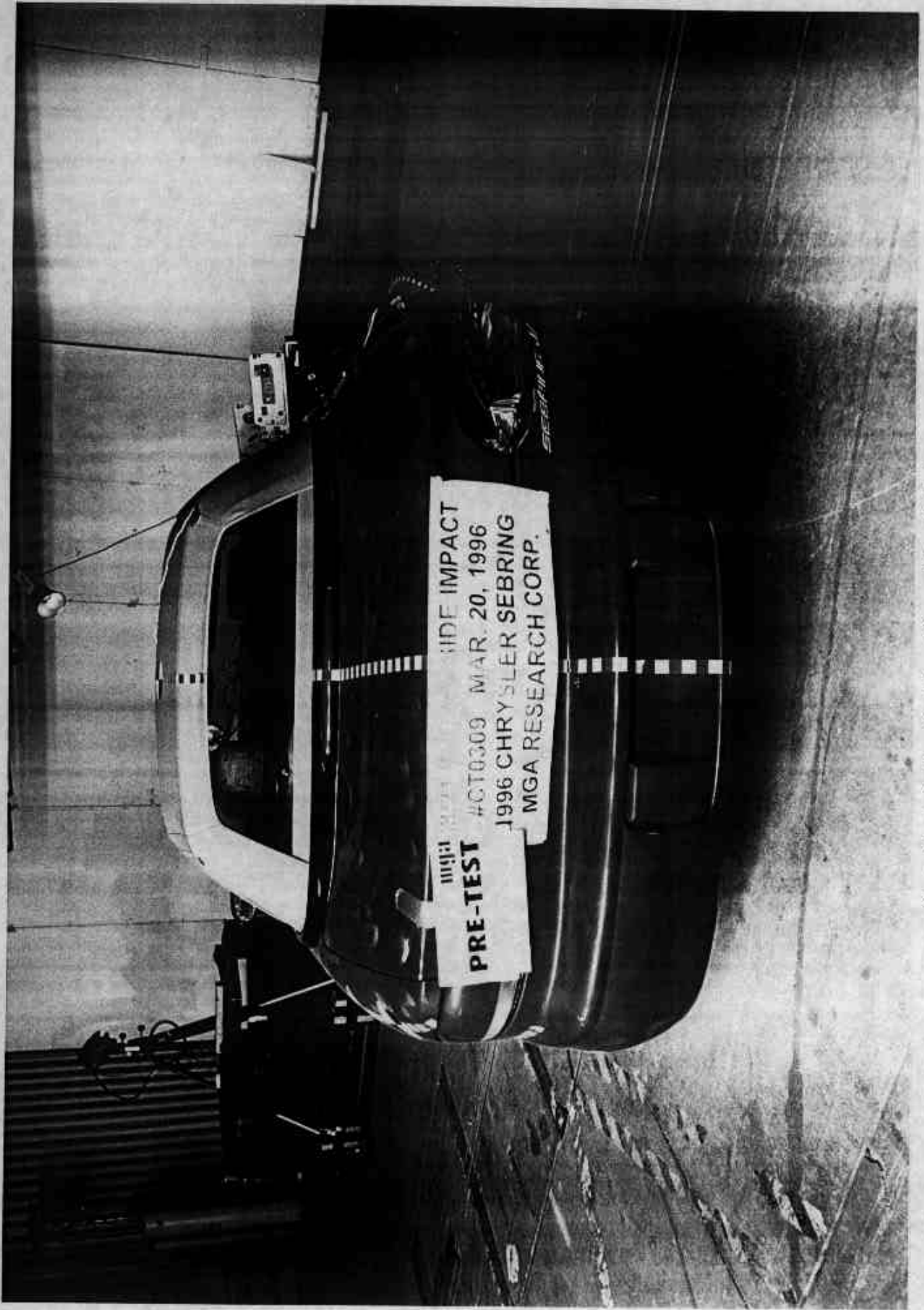


Photo No. A-3 - Pre-Test Rear View of Test Vehicle

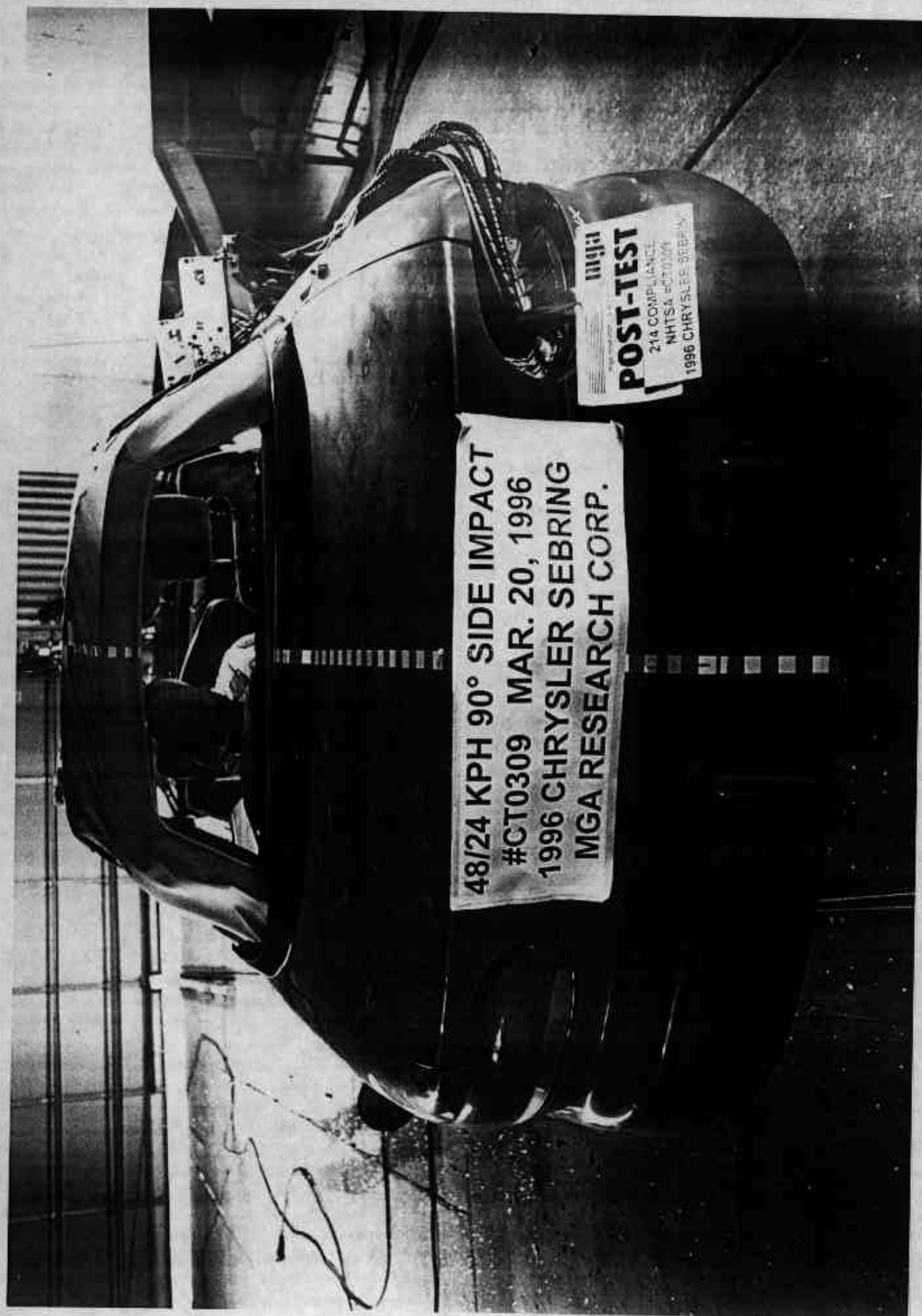


Photo No. A-4 - Post-Test Rear View of Test Vehicle

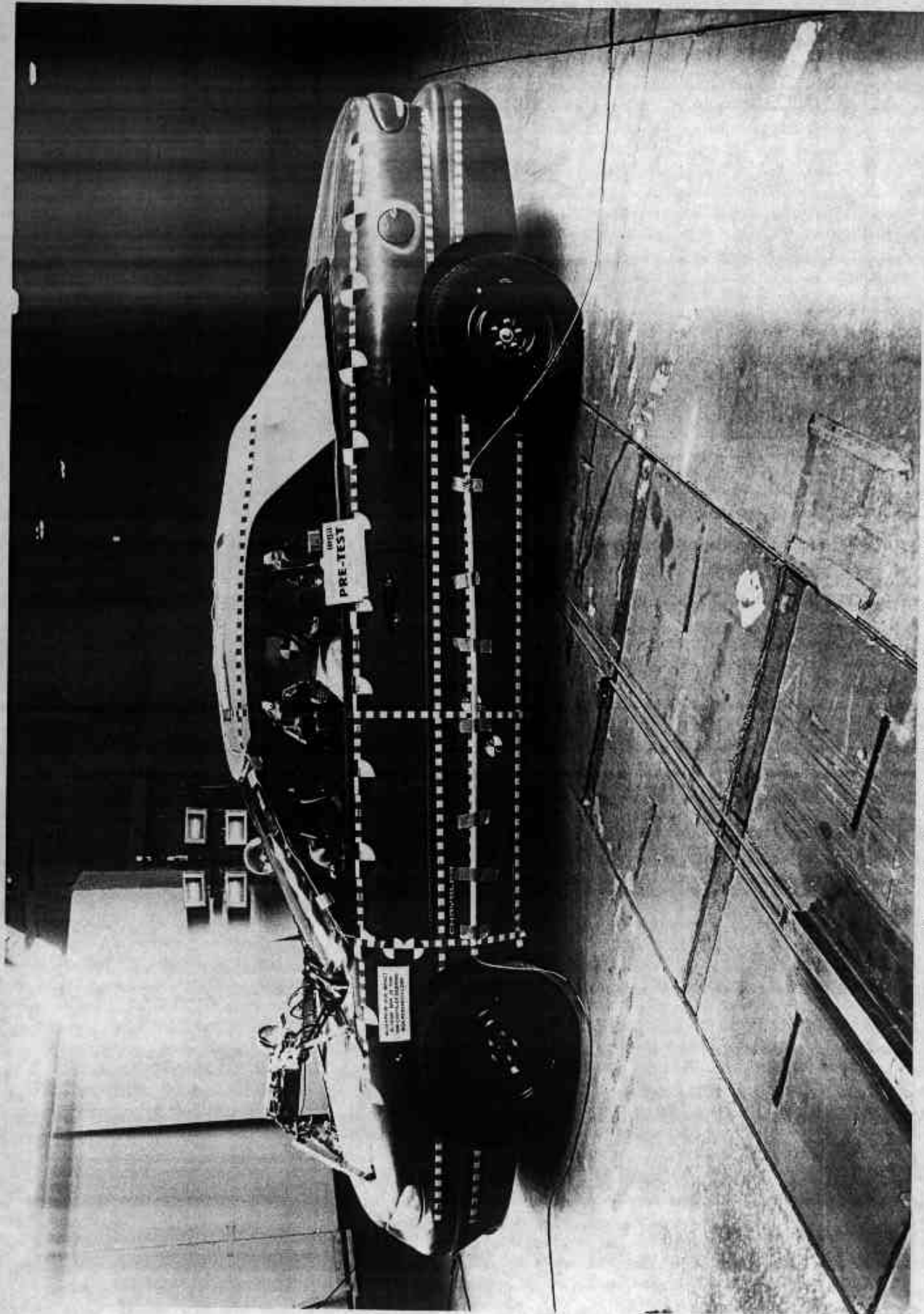


Photo No. A-5 - Pre-Test Left Side View of Test Vehicle

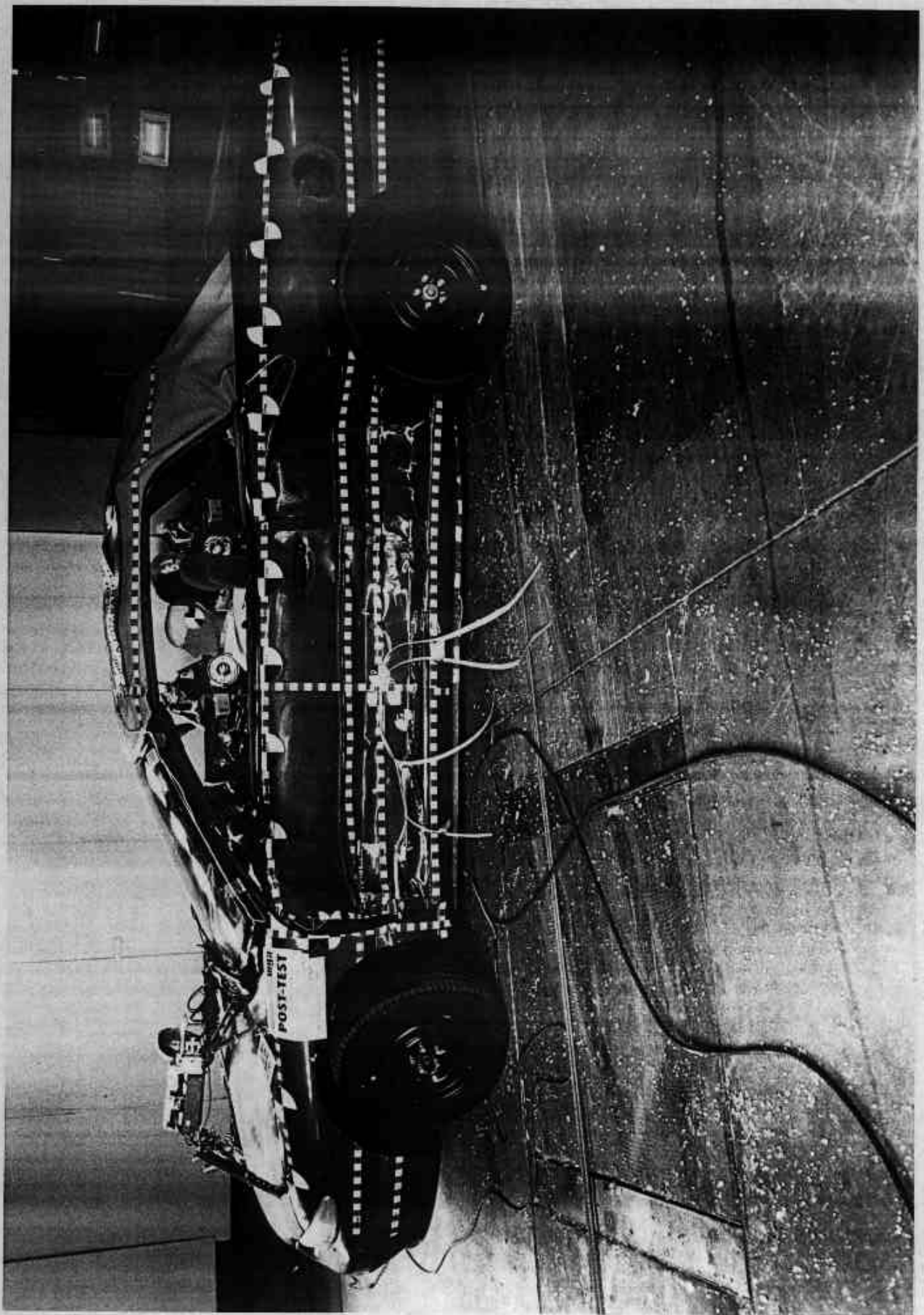


Photo No. A-6 - Post-Test Left Side View of Test Vehicle

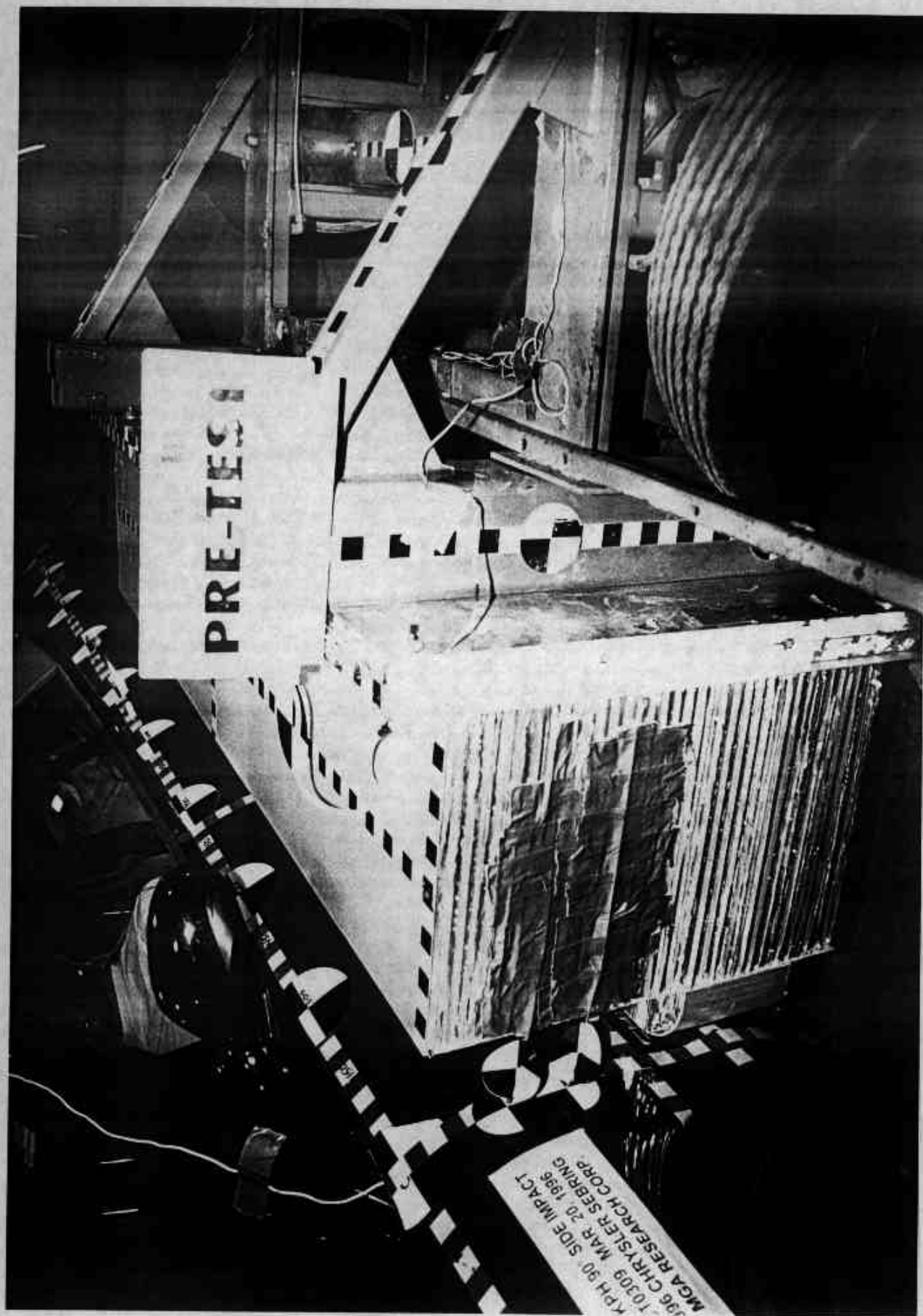


Photo No. A-7 - Pre-Test MDB Positioned Against Vehicle (left side)

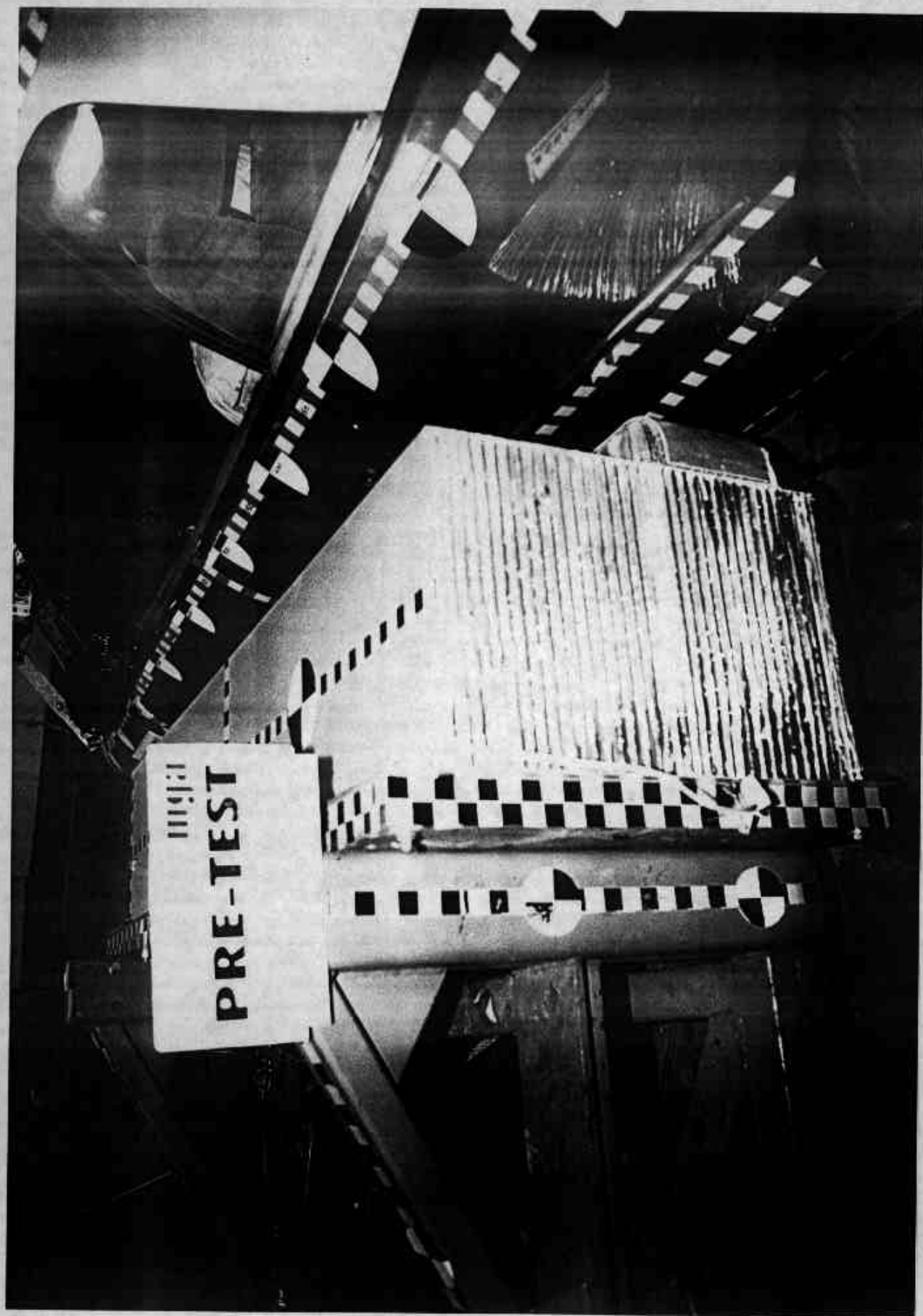


Photo No. A-8 - Pre-Test MDB Positioned Against Vehicle (right side)

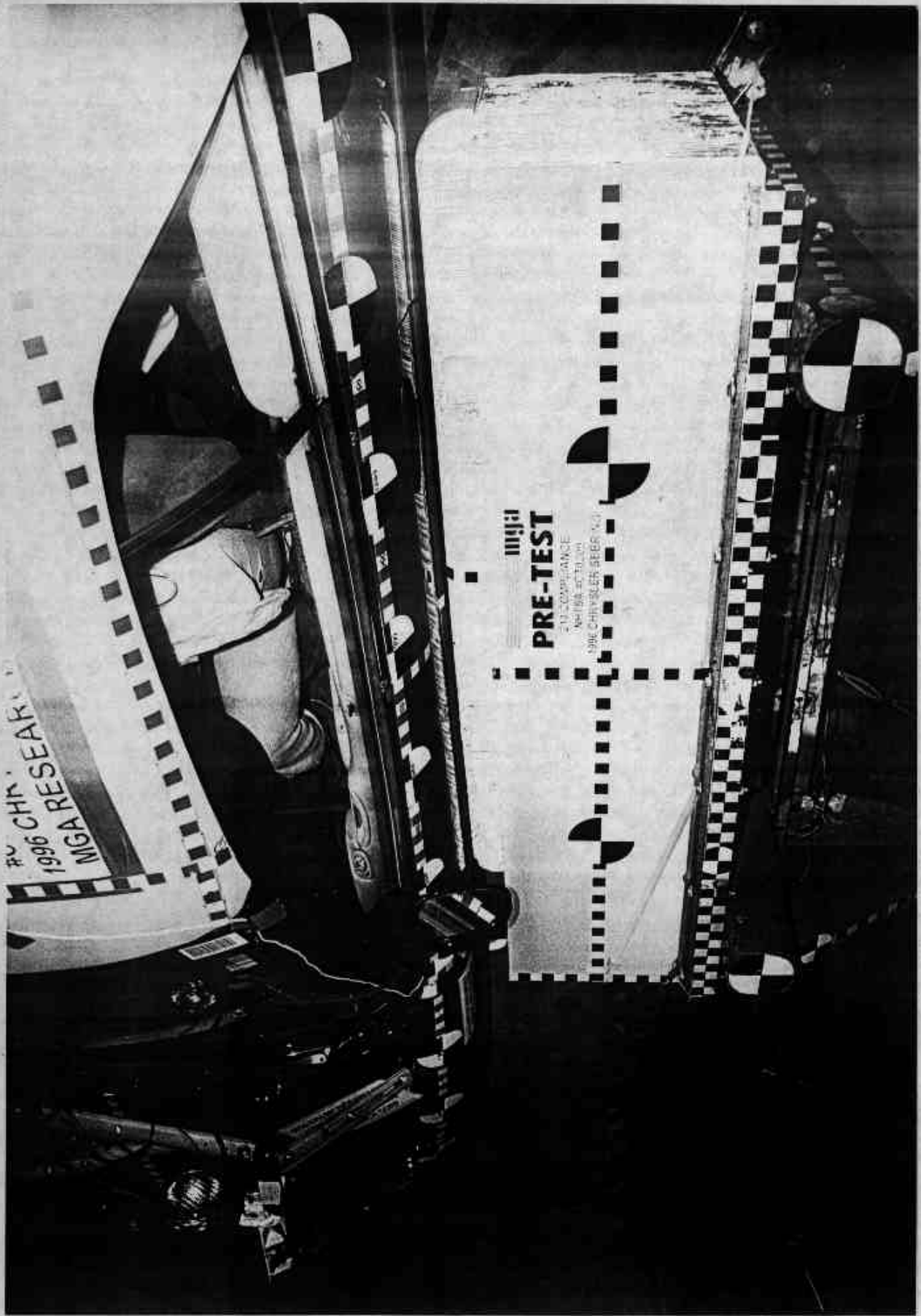


Photo No. A-9 - Pre-Test MDB Positioned Against Vehicle Overhead View

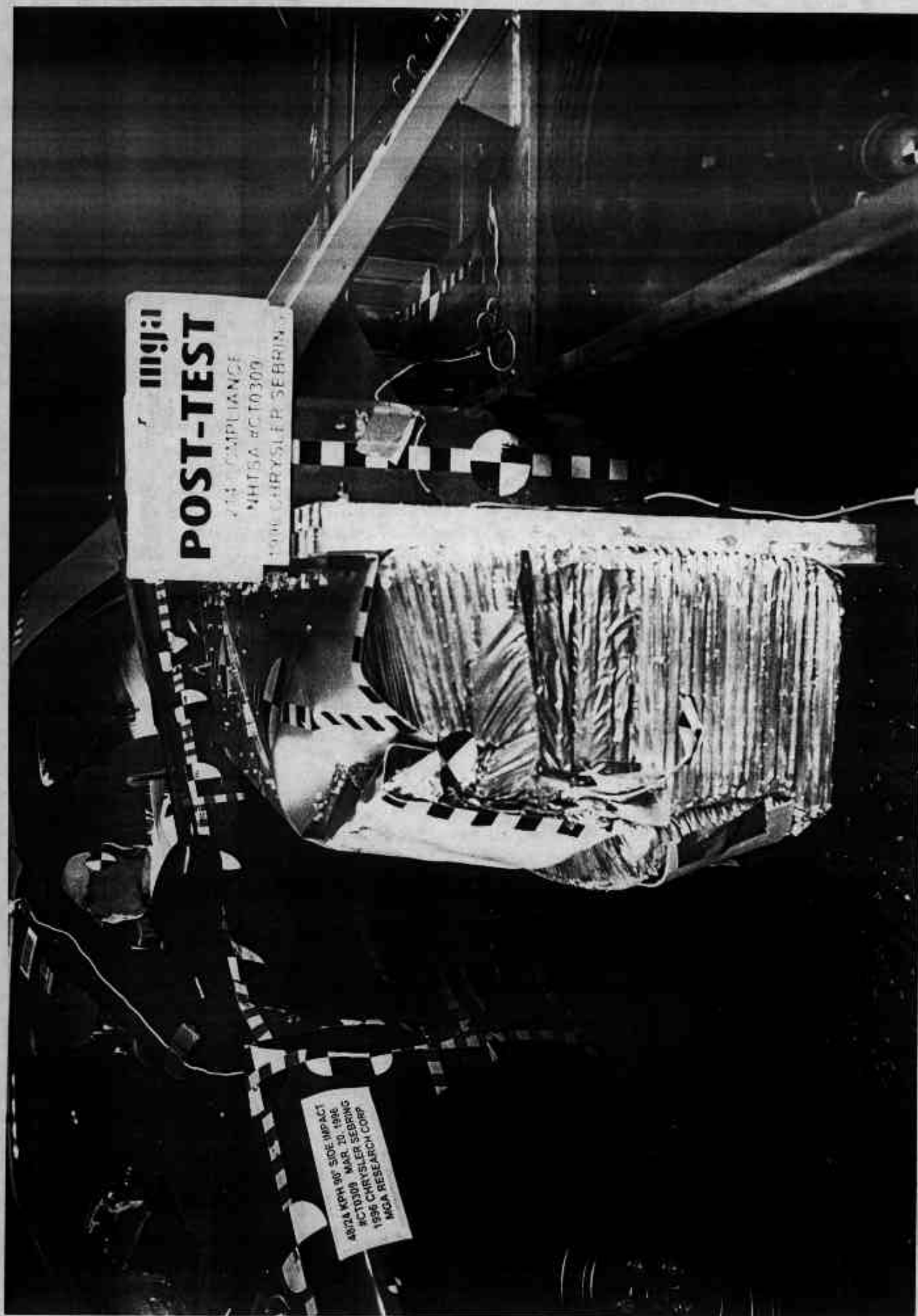


Photo No. A-10 - Post-Test MDB Positioned Against Vehicle (left side)

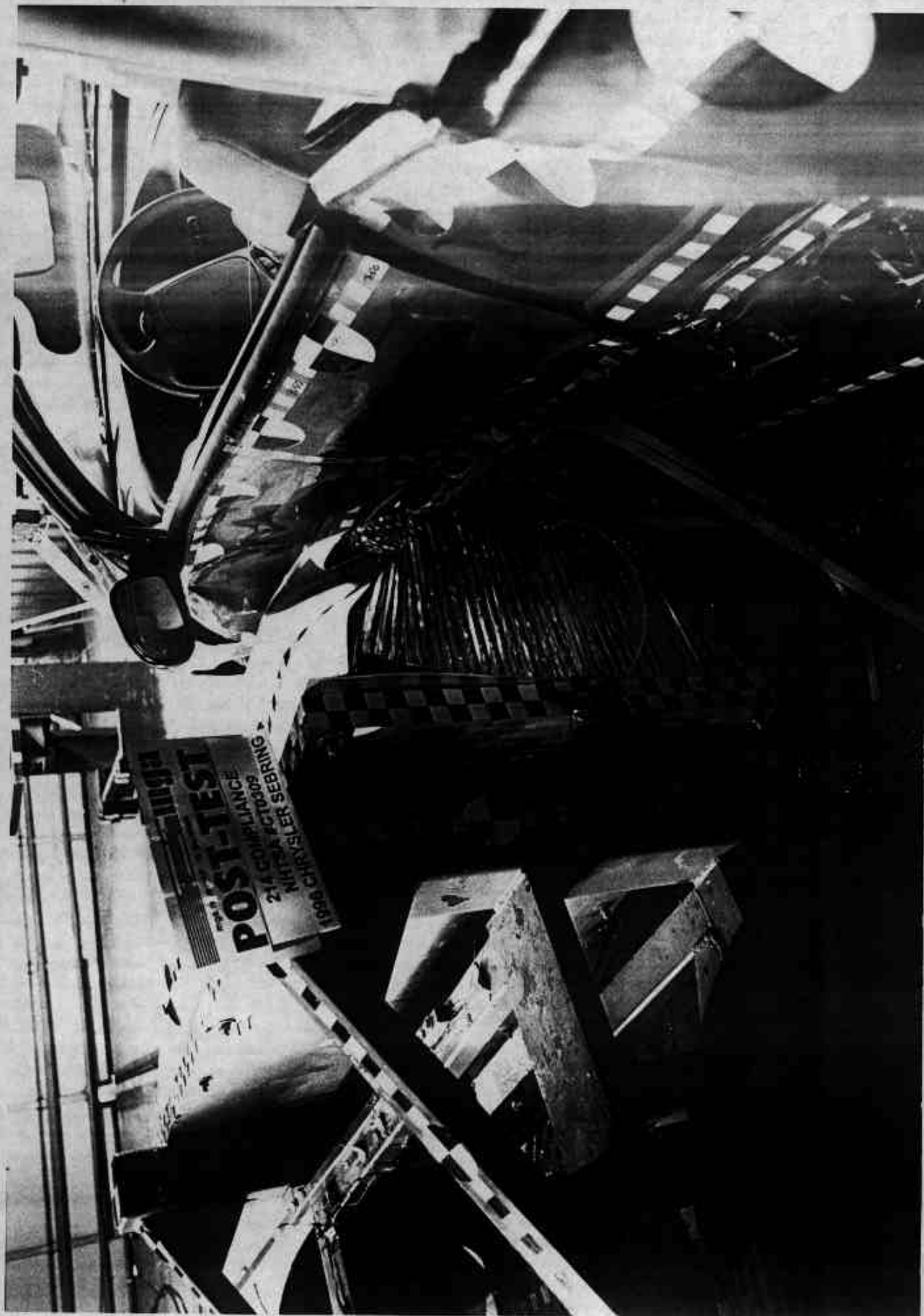


Photo No. A-11 - Post-Test MDB Positioned Against Vehicle (right side)

A-11

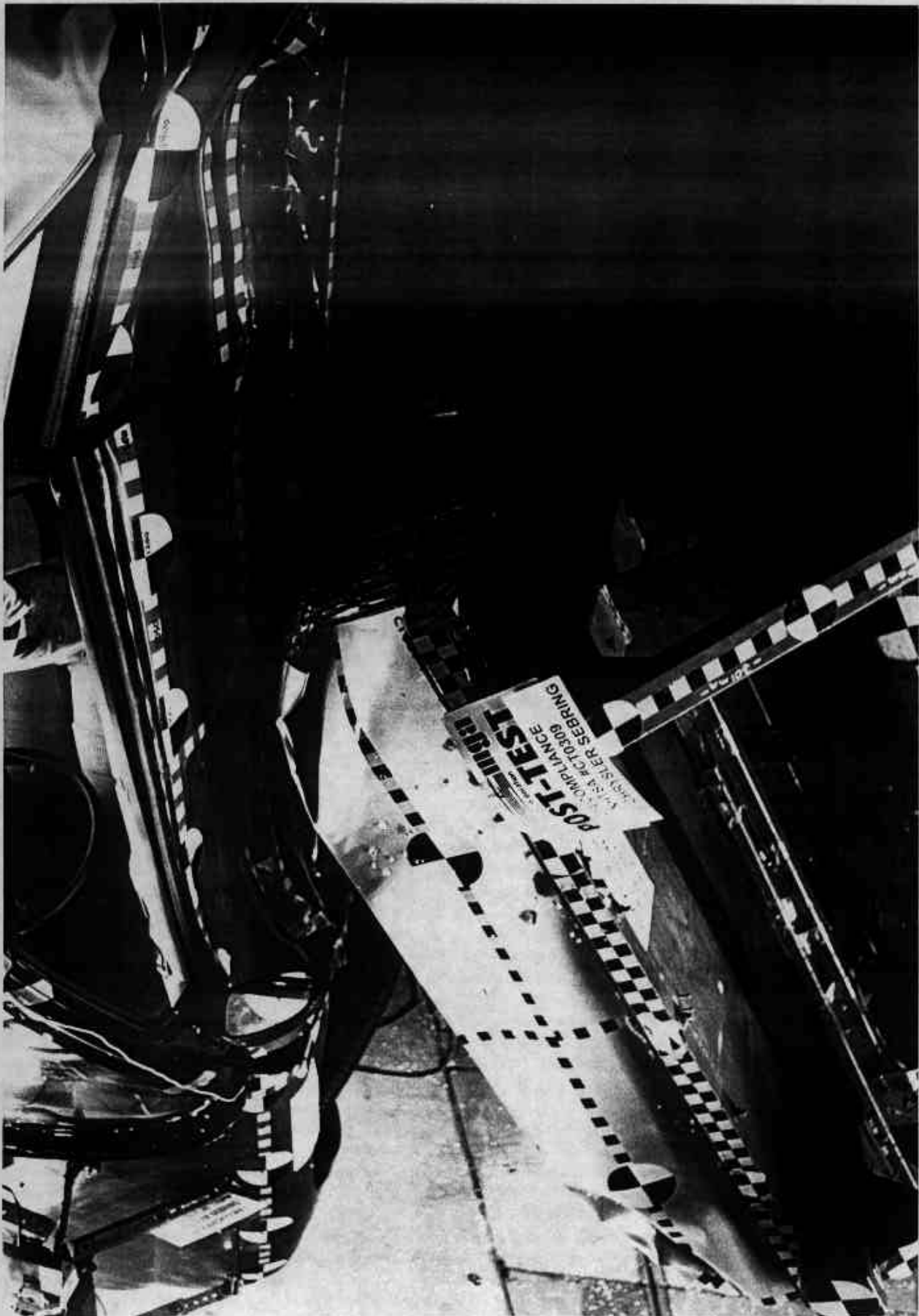


Photo No. A-12 - Post-Test MDB Positioned Against Vehicle Overhead View

A-12

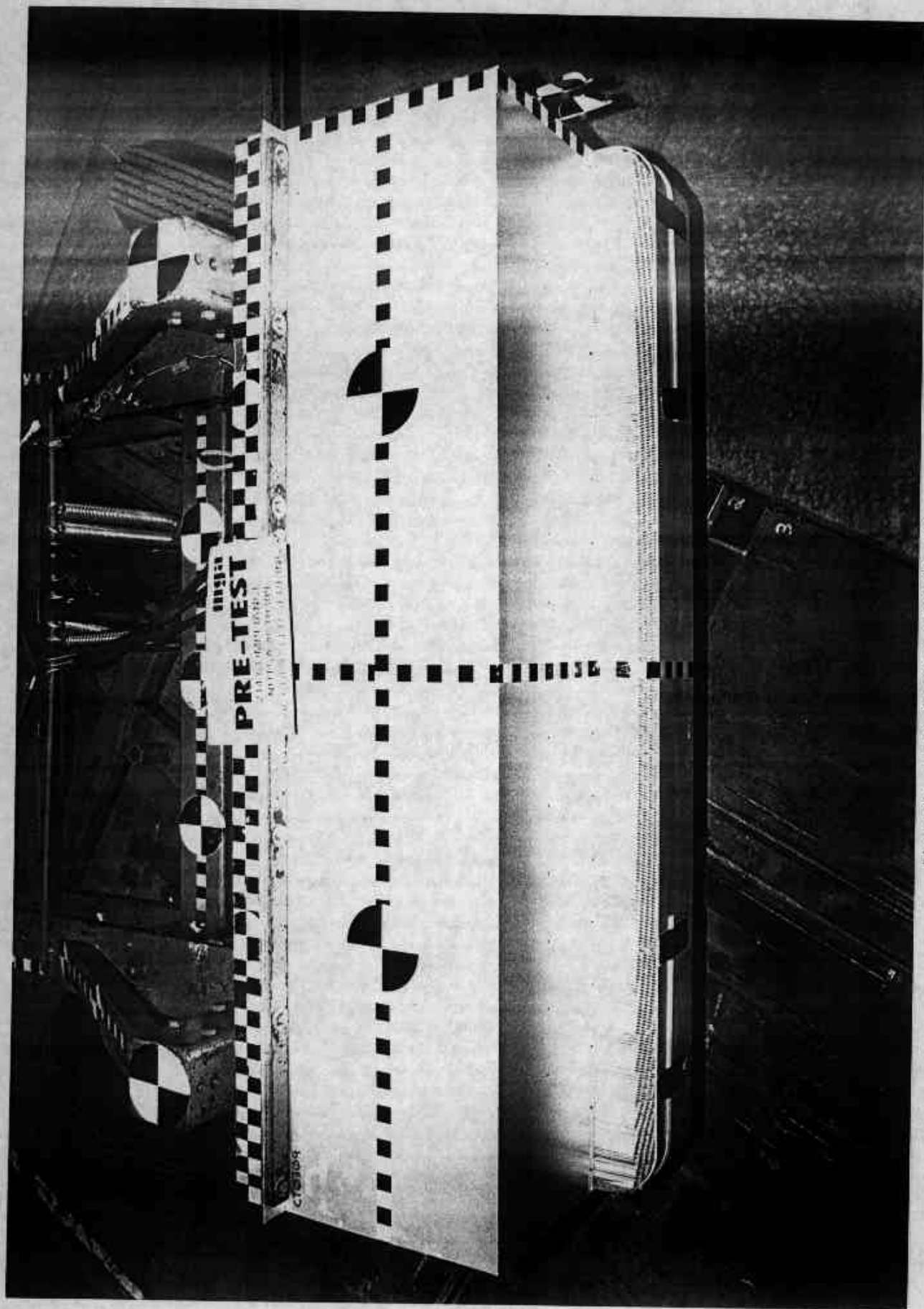


Photo No. A-13 - Pre-Test MDB Top View

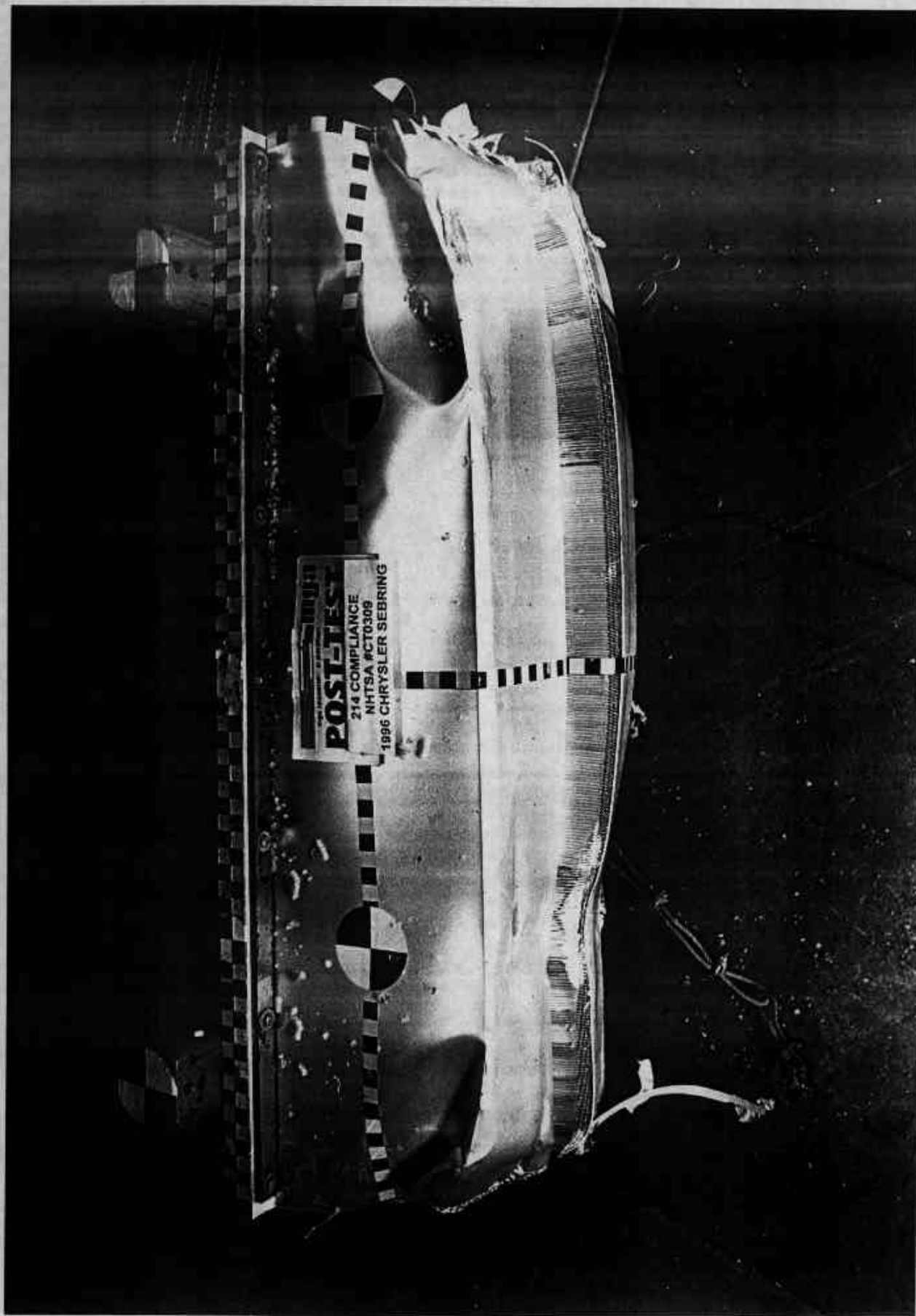


Photo No. A-14 - Post-Test MDB Top View

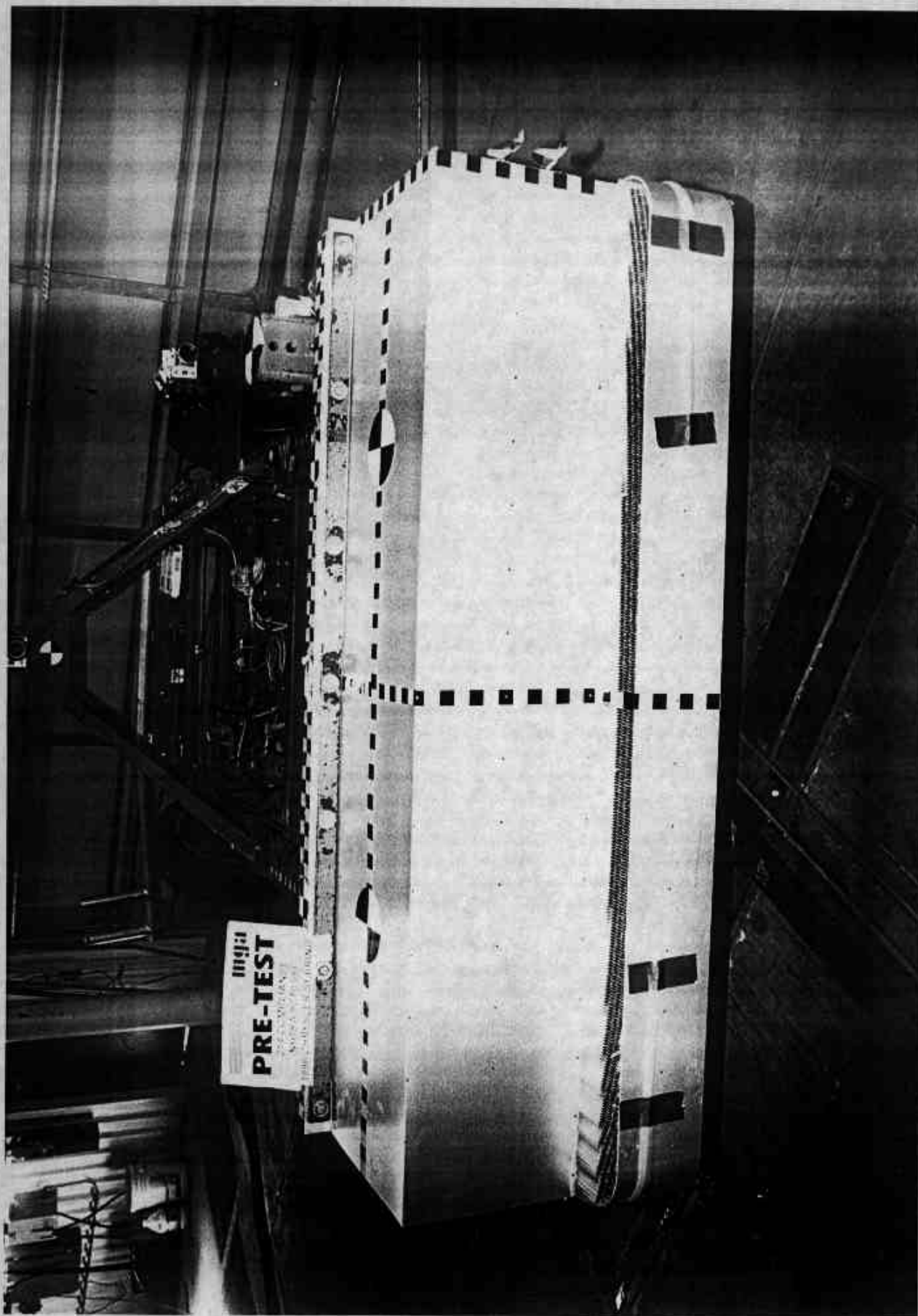


Photo No. A-15 - Pre-Test MDB Front View

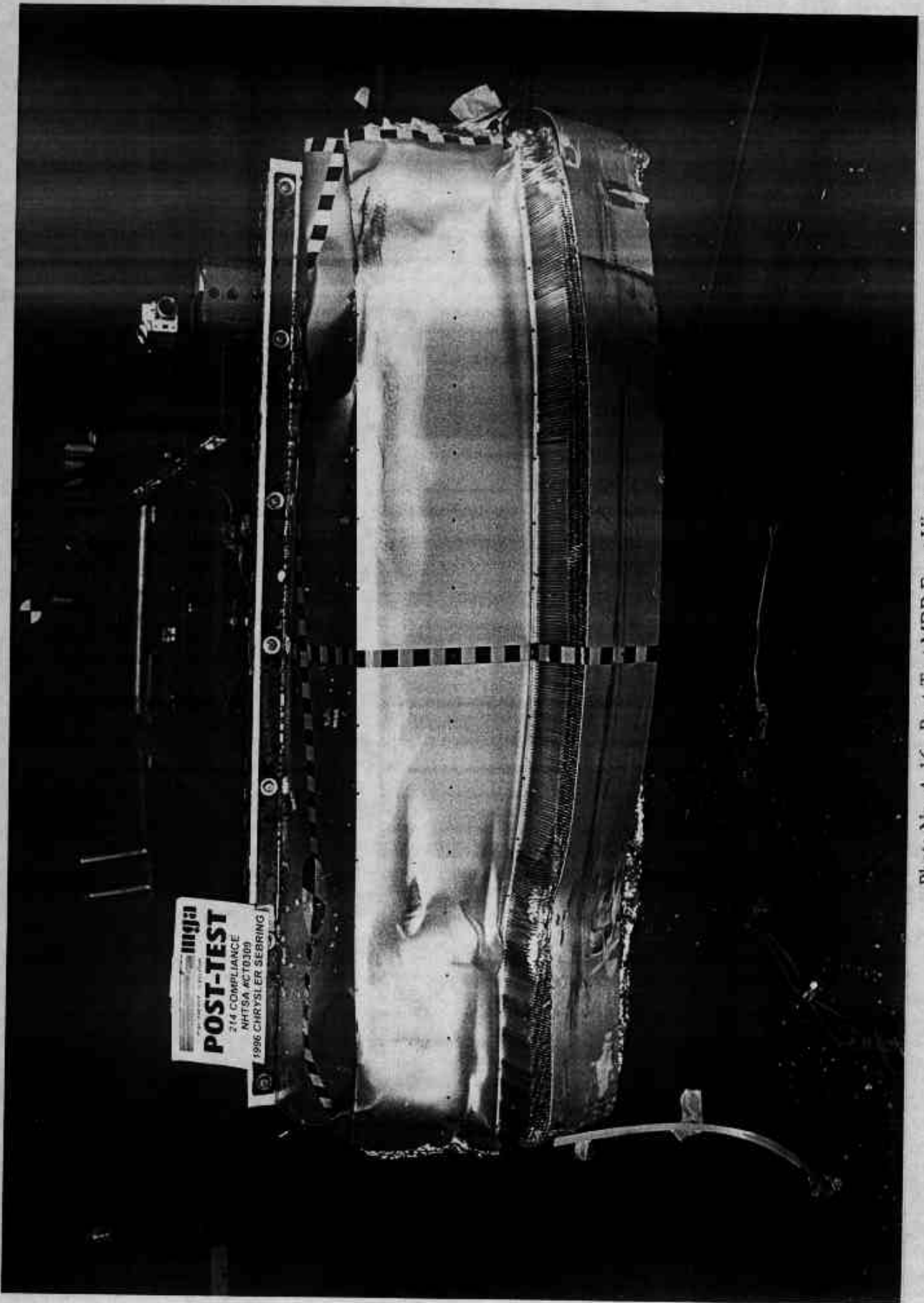


Photo No. A-16 - Post-Test MDB Front View

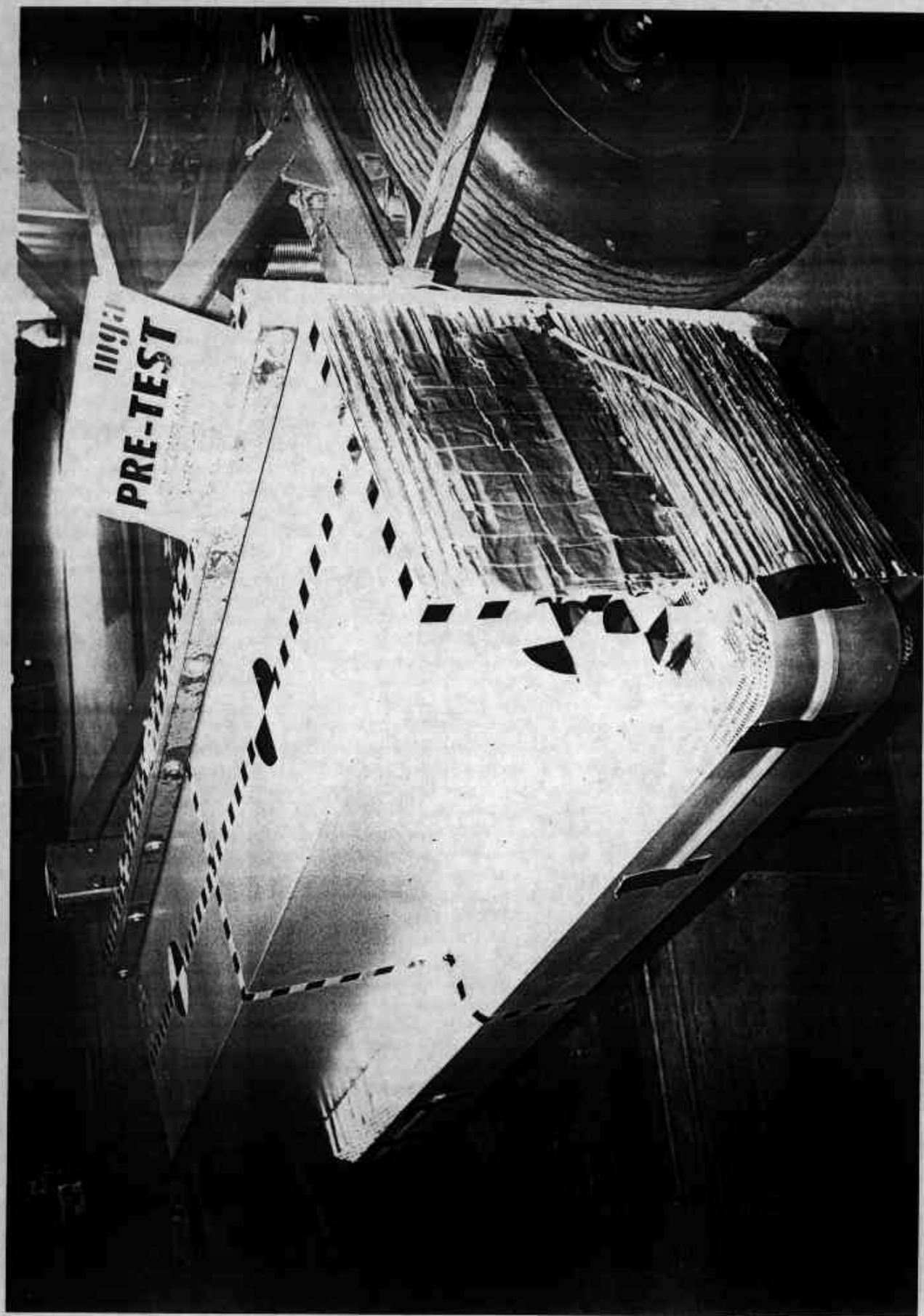


Photo No. A-17 - Pre-Test MDB Left Side View

A-17



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

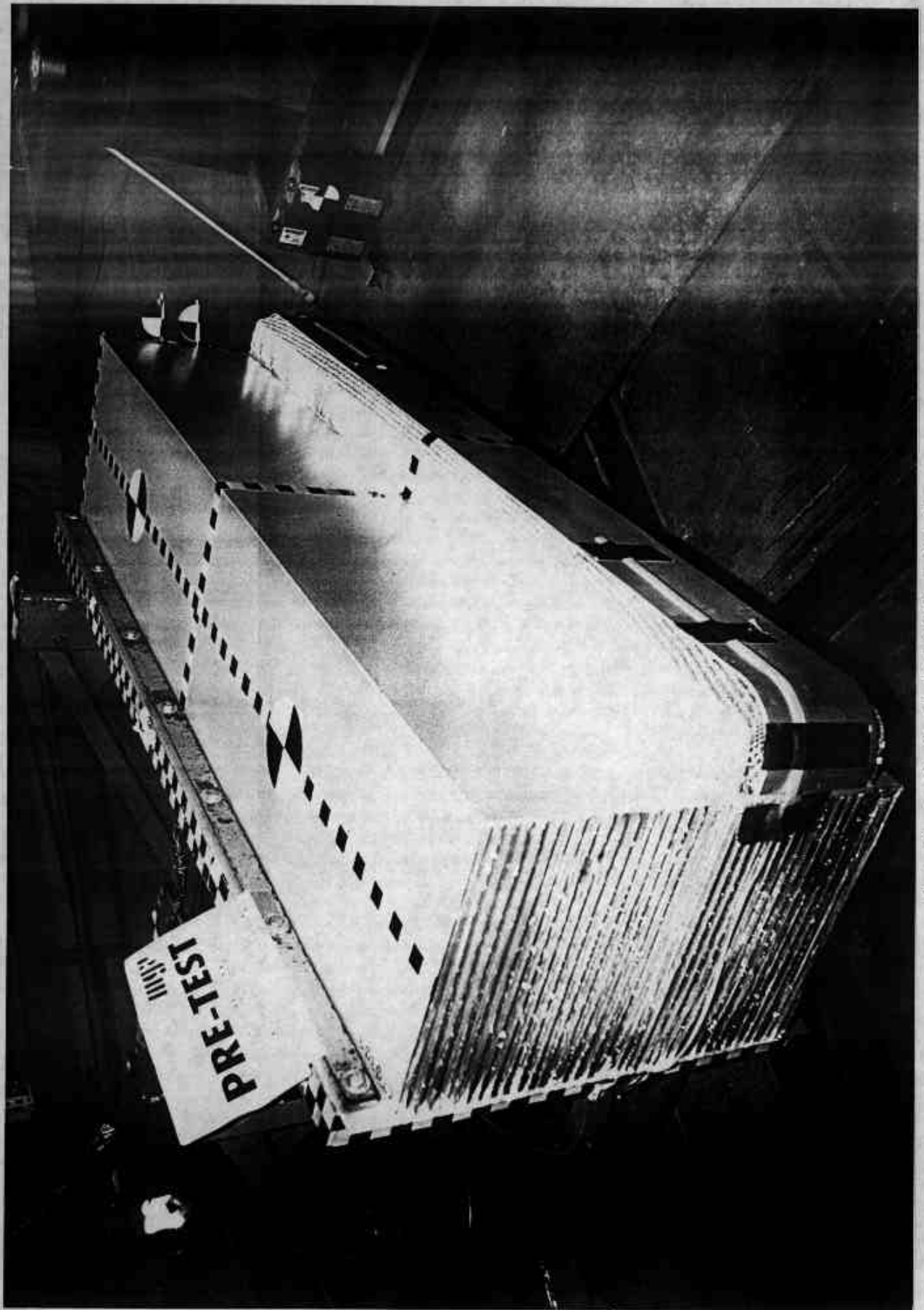


Photo No. A-19 - Pre-Test MDB Right Side View

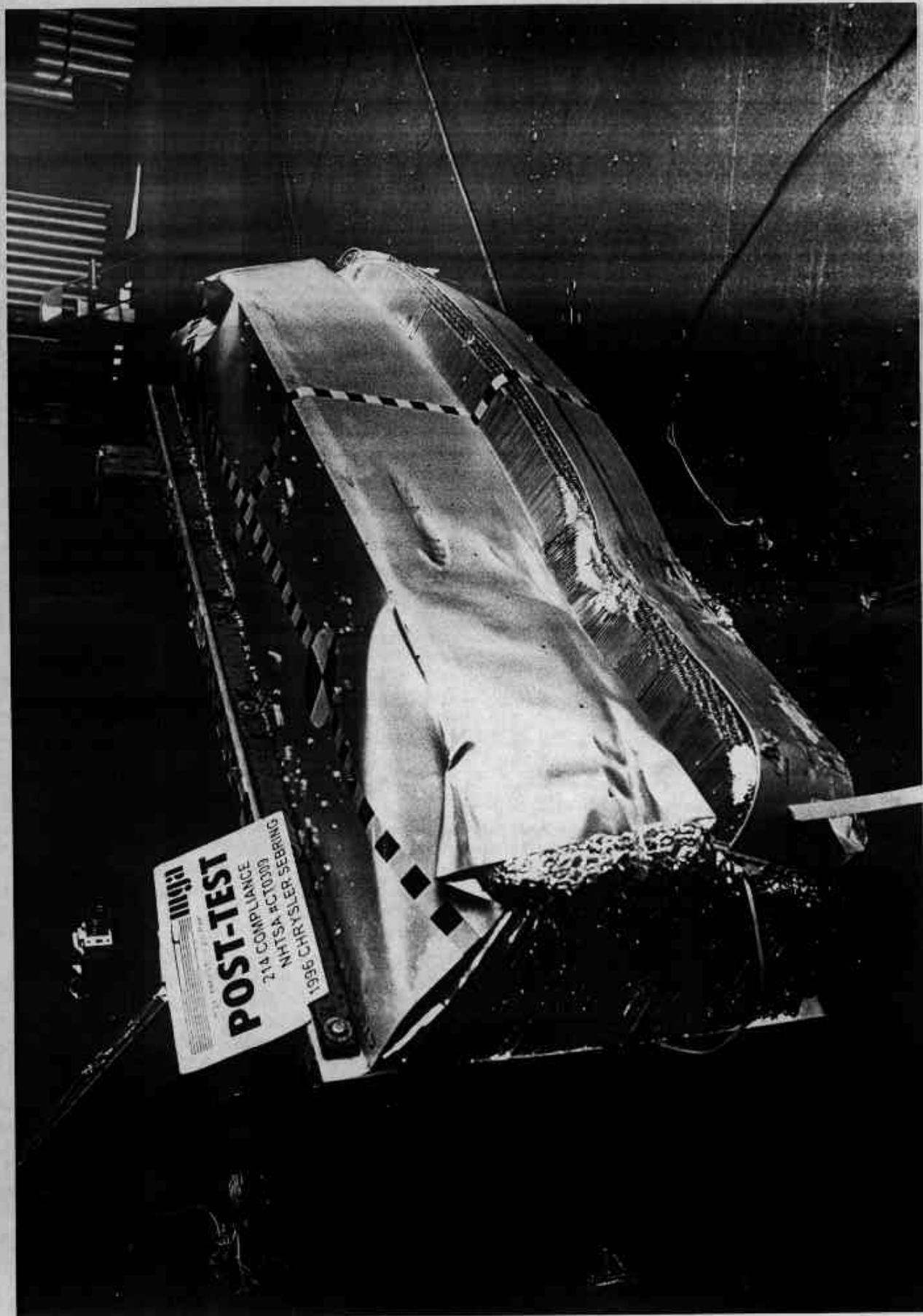


Photo No. A-20 - Post-Test MDB Right Side View



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

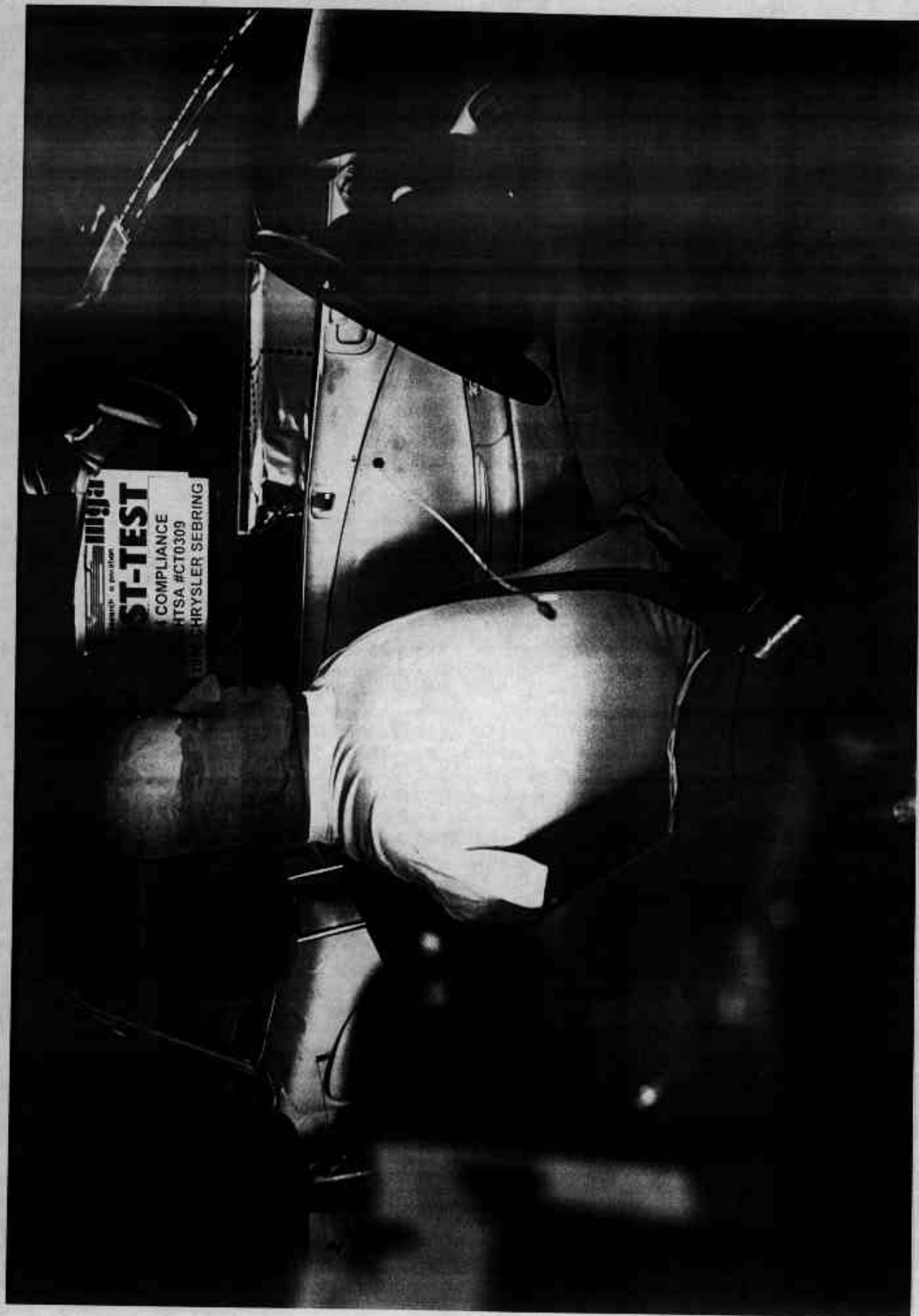


Photo No. A-22 - Post-Test Driver Dummy Right Side View

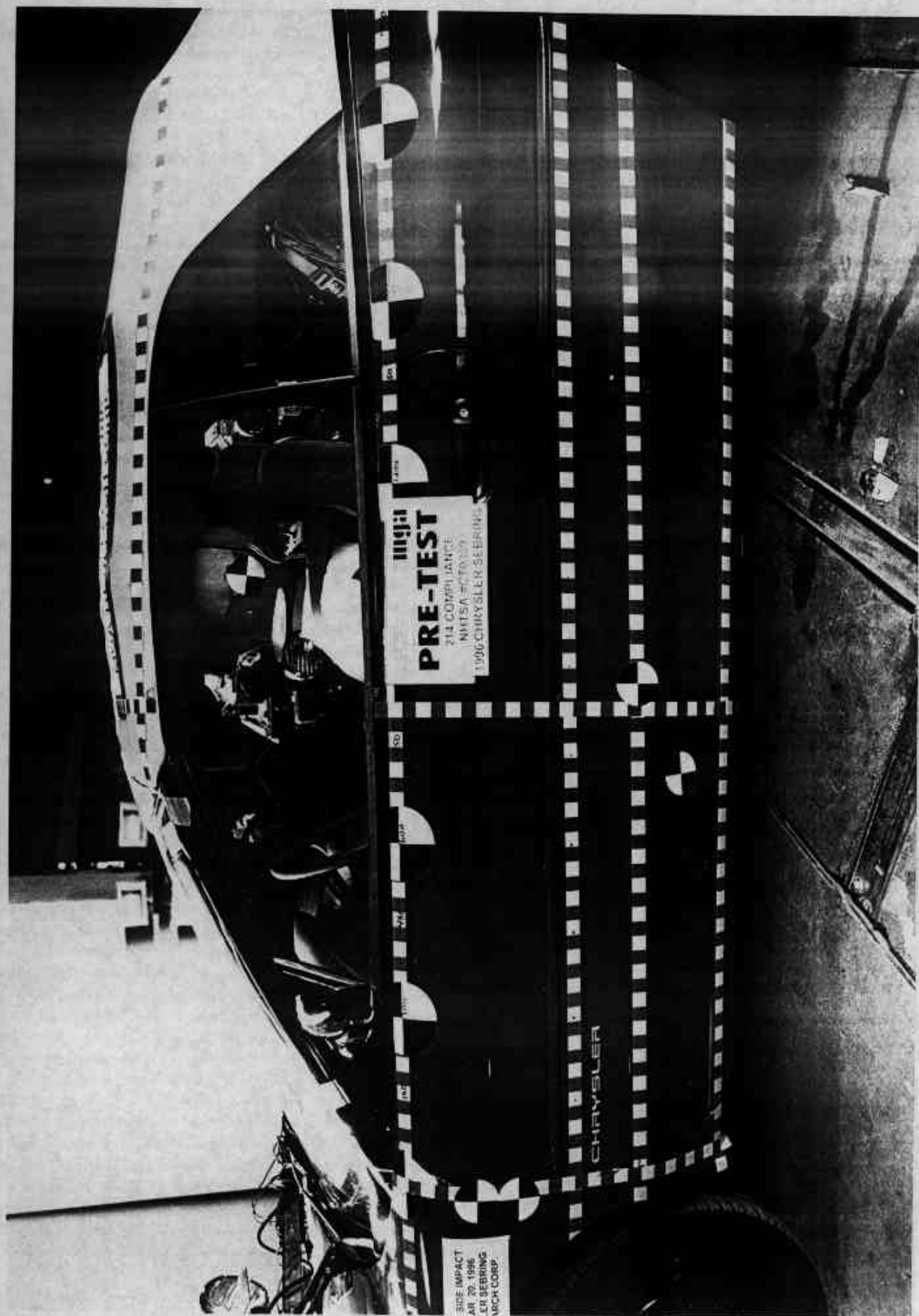
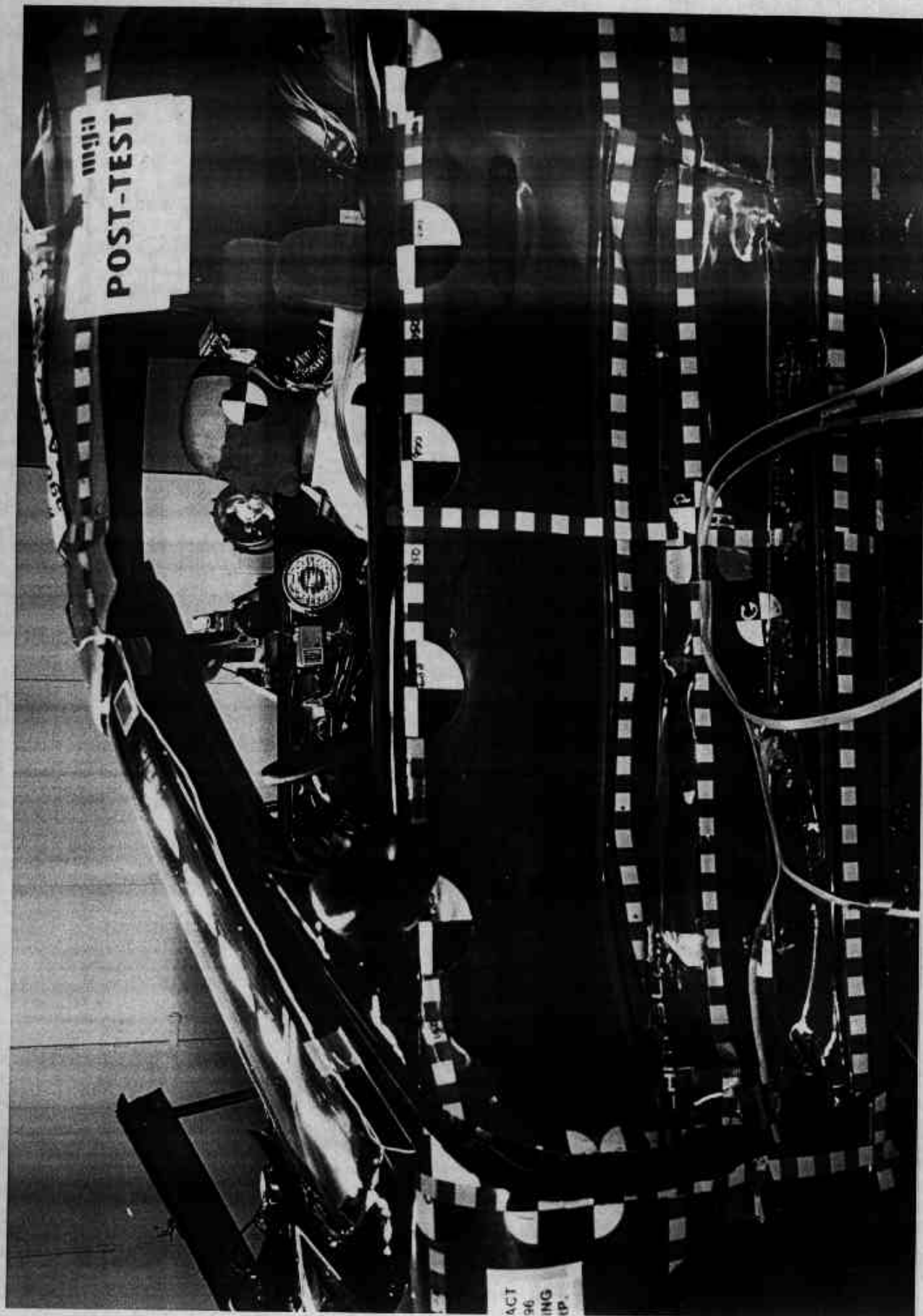


Photo No. A-23 - Pre-Test Driver Dummy Left Side View

A-23



A-24

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

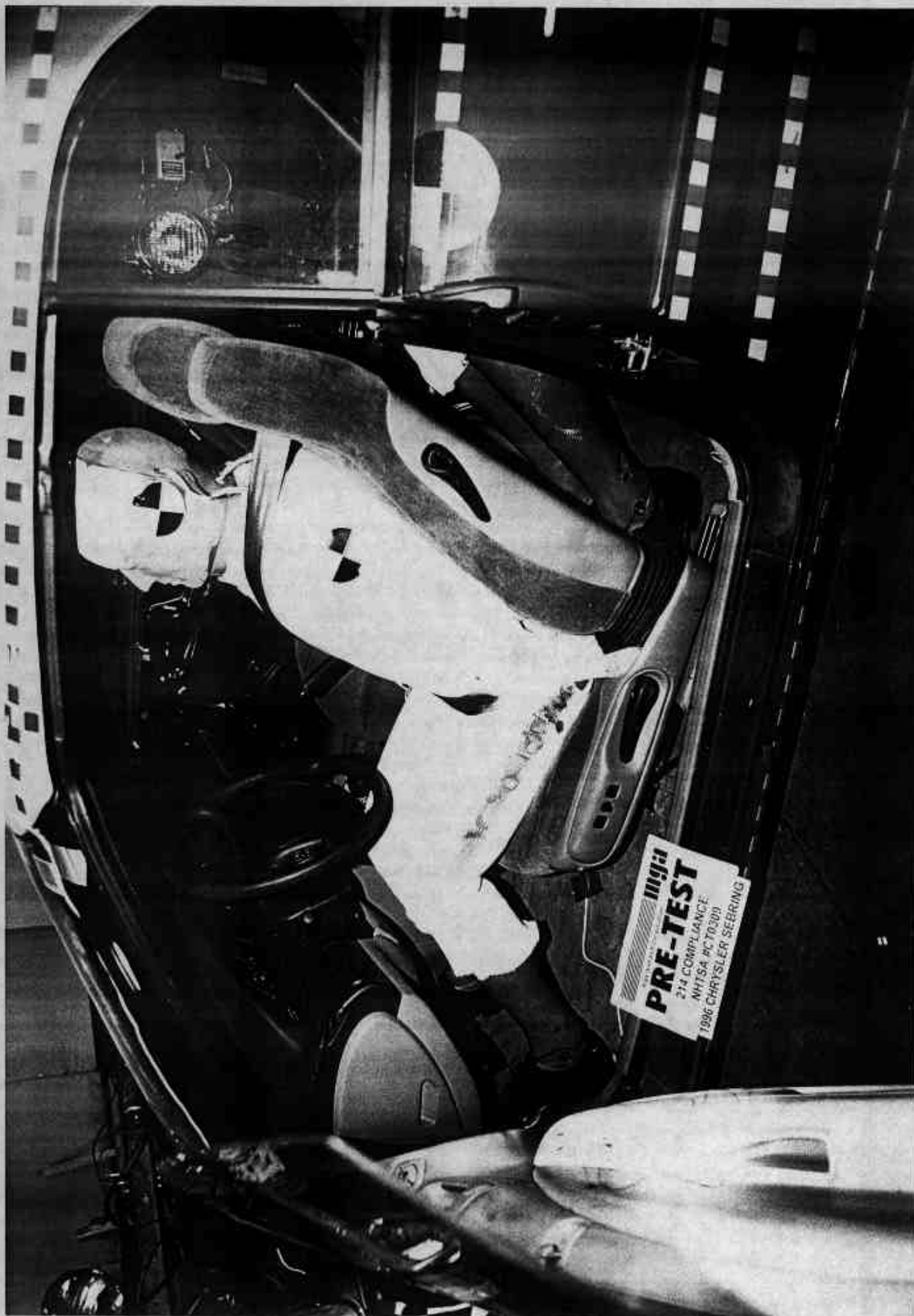


Photo No. A-25 - Pre-Test Driver Dummy Left Side View (Door Open)

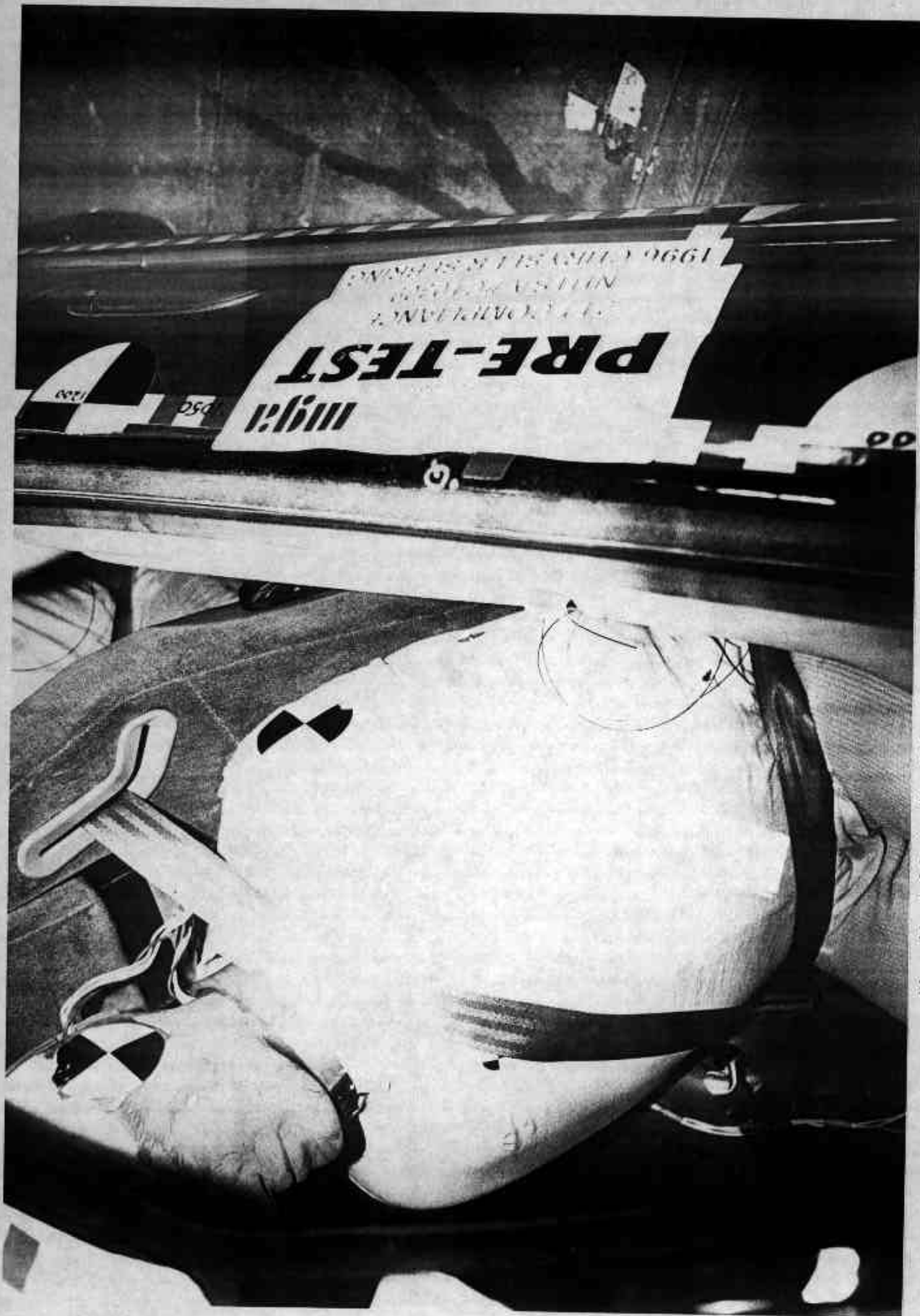


Photo No. A-26 - Pre-Test Driver Dummy Shoulder and Door Top View

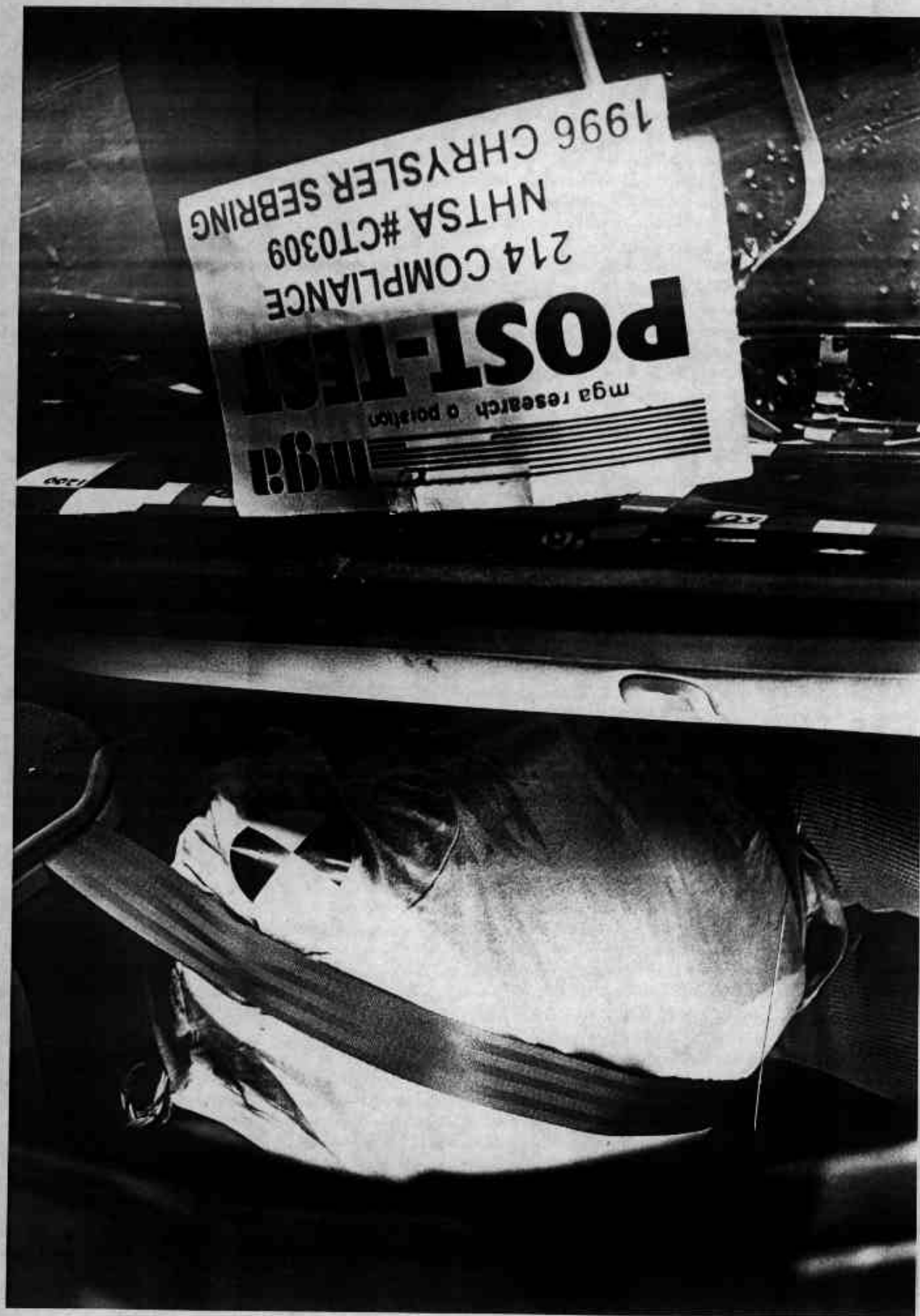


Photo No. A-27 - Post-Test Driver Dummy Shoulder and Door Top View



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



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

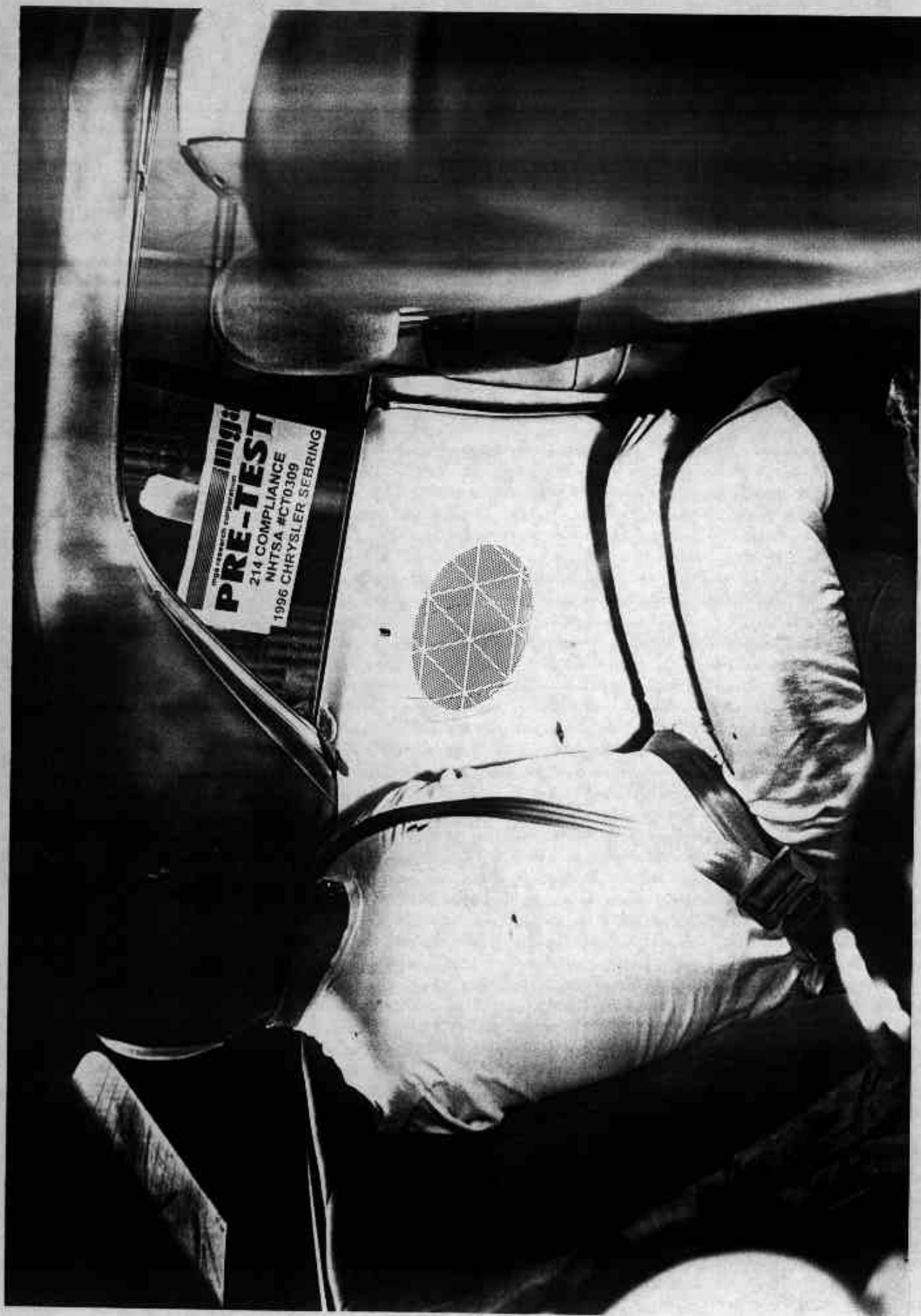


Photo No. A-30 - Pre-Test Passenger Dummy Right Side View

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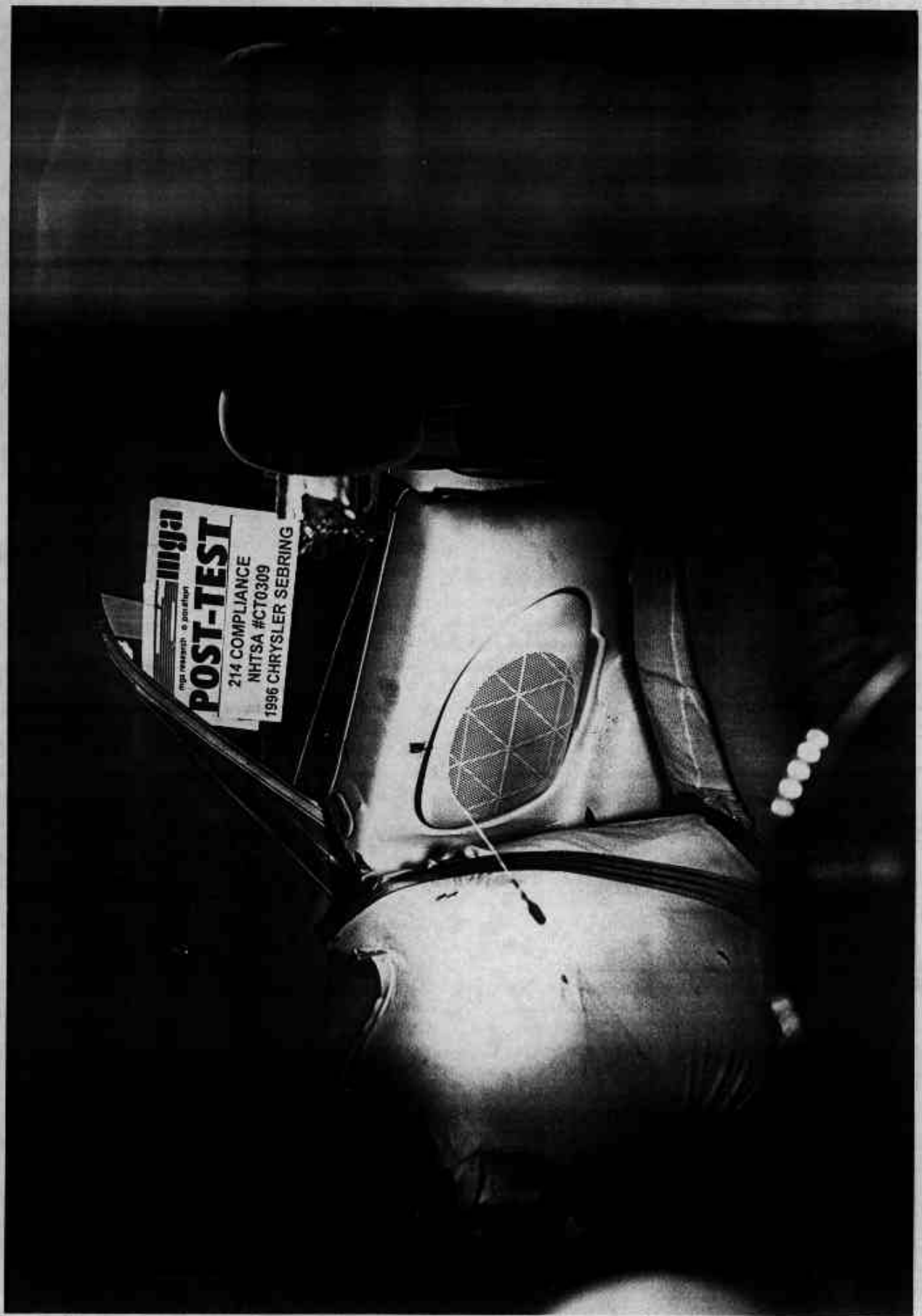


Photo No. A-31 - Post-Test Passenger Dummy Right Side View

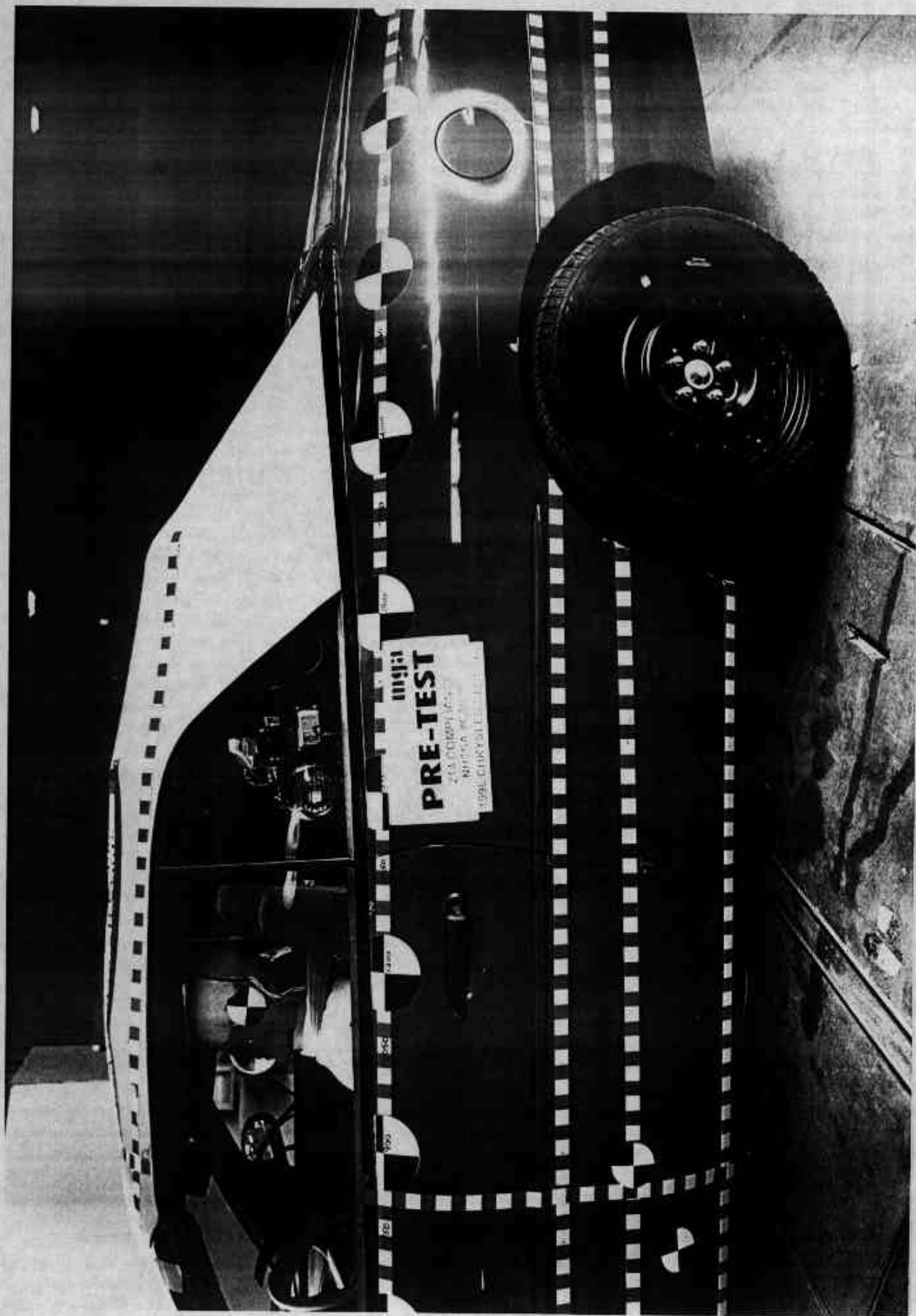


Photo No. A-32 - Pre-Test Passenger Dummy Left Side View



A-33

Photo No. A-33 - Pre-Test Passenger Dummy Shoulder and Door Top View



Photo No. A-34 - Post-Test Passenger Dummy Shoulder and Door Top View



Photo No. A-35 - Post-Test Passenger Dummy Contact



Photo No. A-36 - Post-Test Passenger Dummy Head Contact



Photo No. A-37 - Pre-Test Left Front Impact Point on Vehicle

A-37



A-38

Photo No. A-38 - Post-Test Left Front Impact Point on Vehicle



Photo No. A-39 - Ballast Added to Vehicle Trunk

A-39

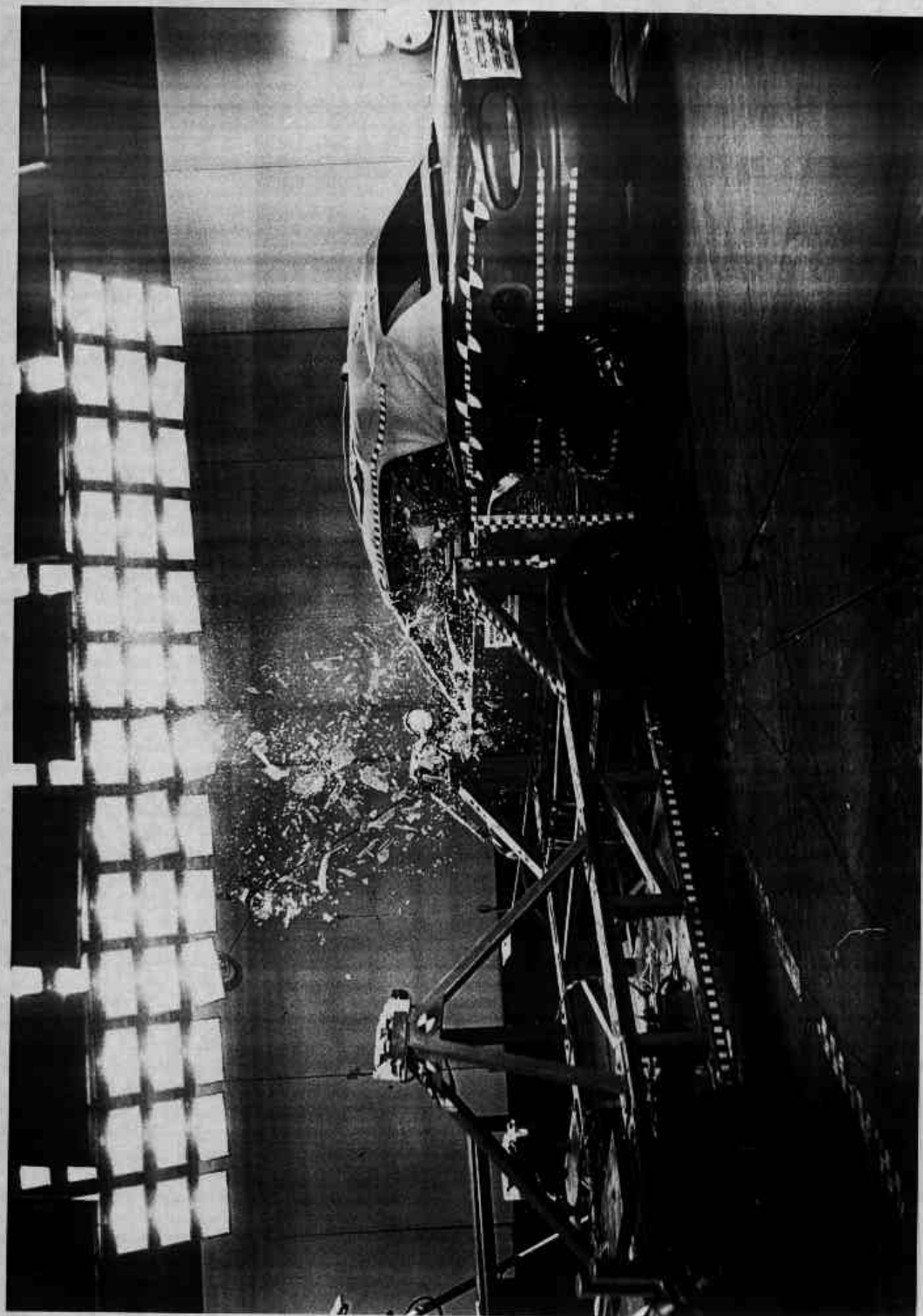


Photo No. A-40 - Impact

A-40

MFD BY CHRYSLER CORPORATION

DATE OF MFR: 1-86

GWR 04188 LB
1900 KG

GWR 2351 LB
FRONT 1067 KG

GWR 1812 LB
REAR 839 KG

THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY, AND
THEFT PREVENTION STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE. THESE STANDARDS

VIN: 3C3EL45N1T243523

TWA: PMS35421 COT



MM: 010513 324

PLANT: MS VEHICLE MADE IN MEXICO

	VEHICLE CAPACITY OR LESS
1ST SEAT	2 PASS
2ND SEAT	2 PASS
LUGGAGE	115 LBS-52kg
TOTAL	4 PASS
TOTAL WEIGHT	715 LBS-324 kg
TIRE PRESSURE COLD	30 PSI 210 kPa
RECOMMENDED TIRE SIZES	
P205/65R15 STANDARD LOAD	
P215/55R16 STANDARD LOAD	
SEE OWNER'S MANUAL FOR ADDITIONAL DATA	
PRINTED IN USA 4625 794	

Photo No. A-42 - Tire Placard

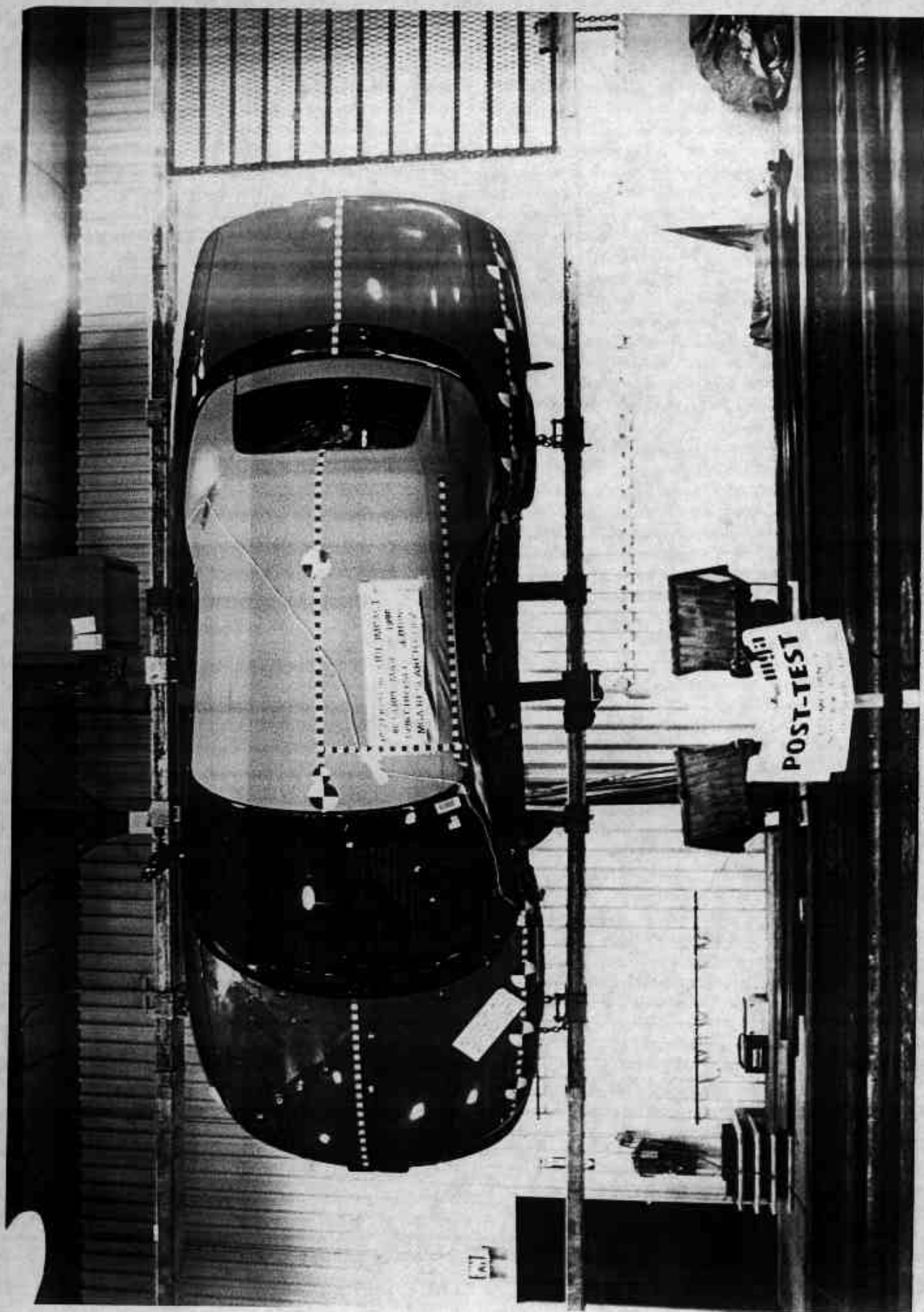


Photo No. A-43 - Rollover 90°

A-43

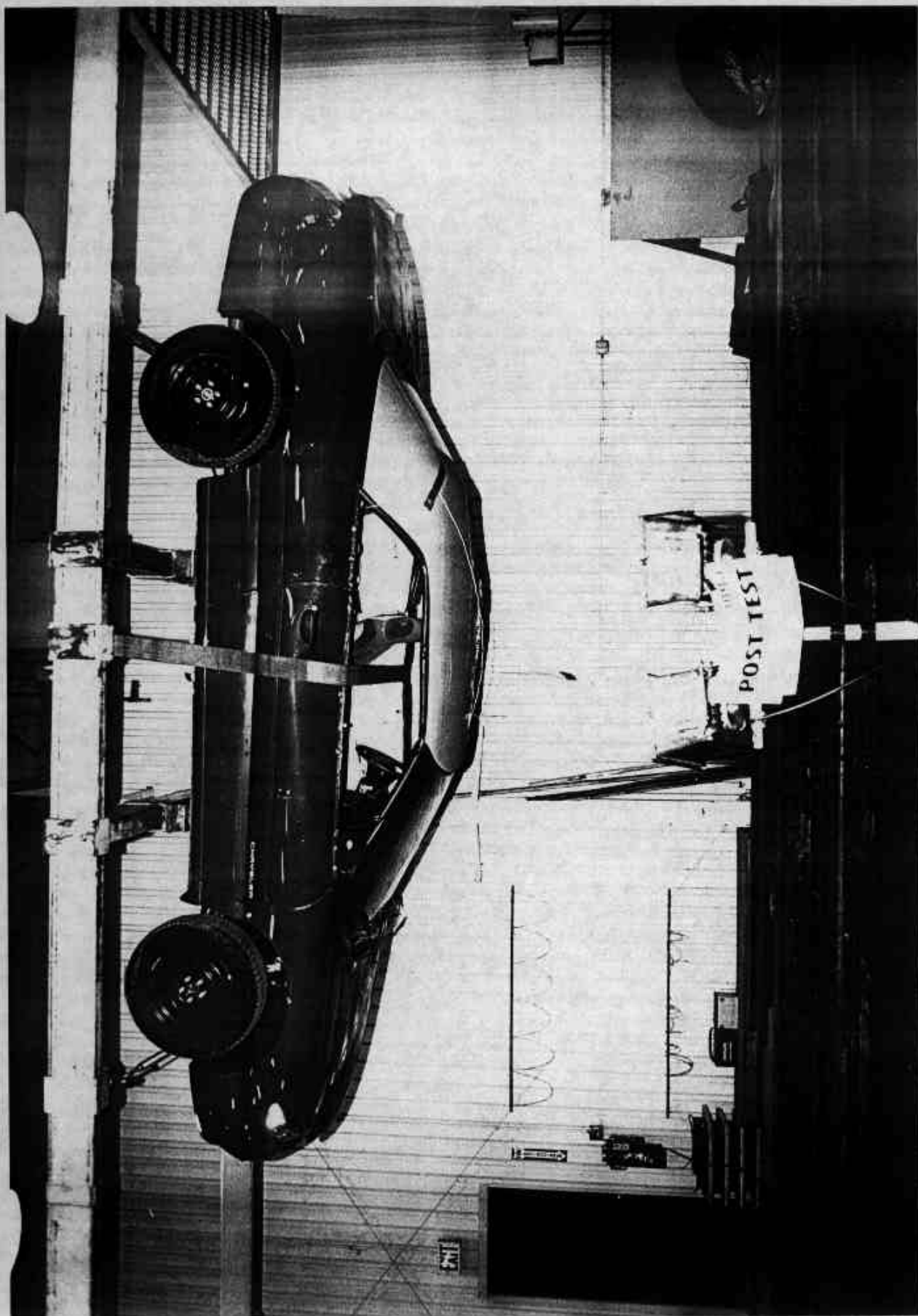
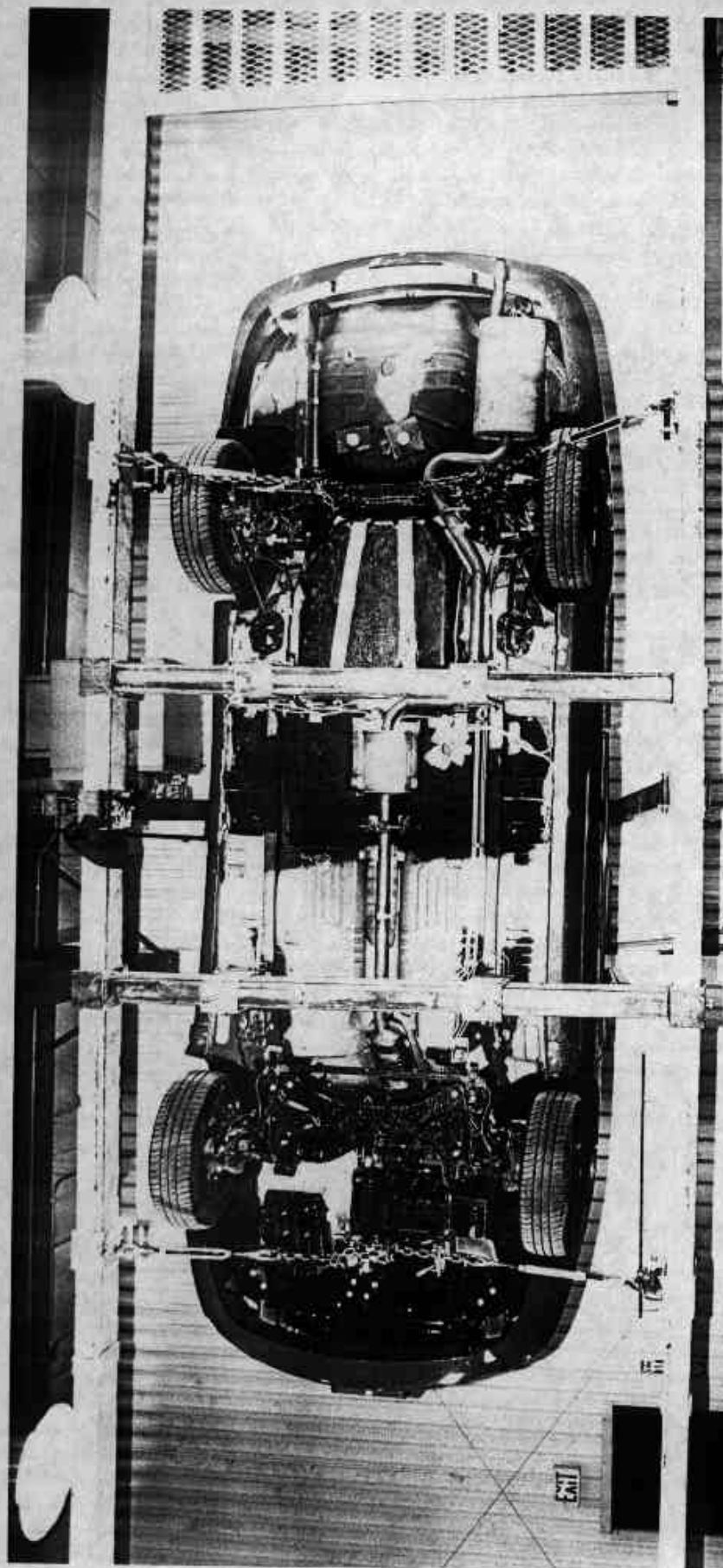


Photo No. A-44 - Rollover 180°

A-44



A-45

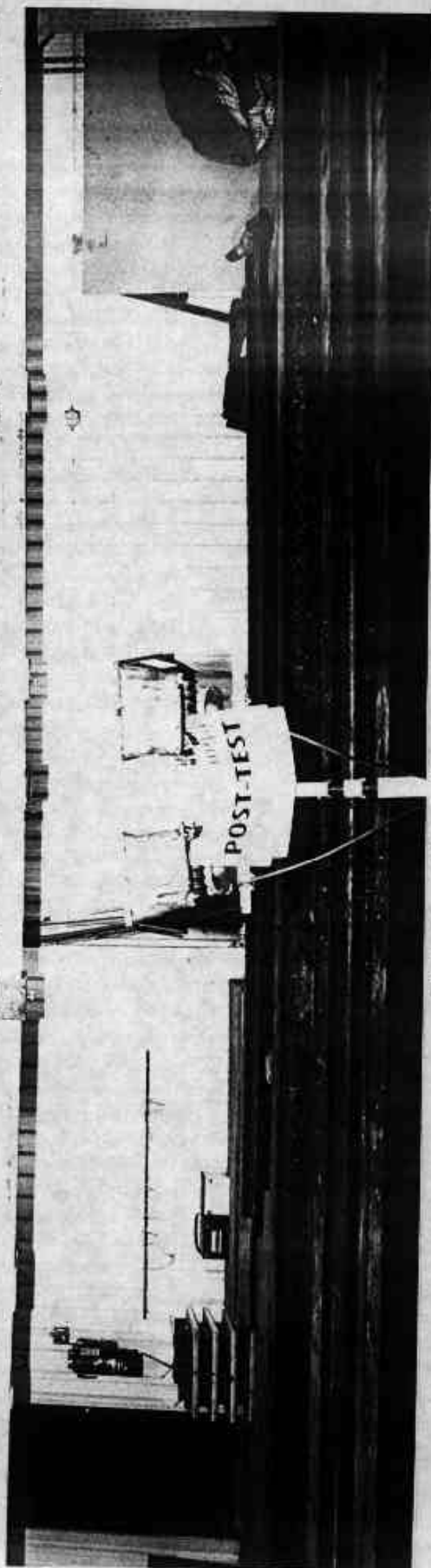
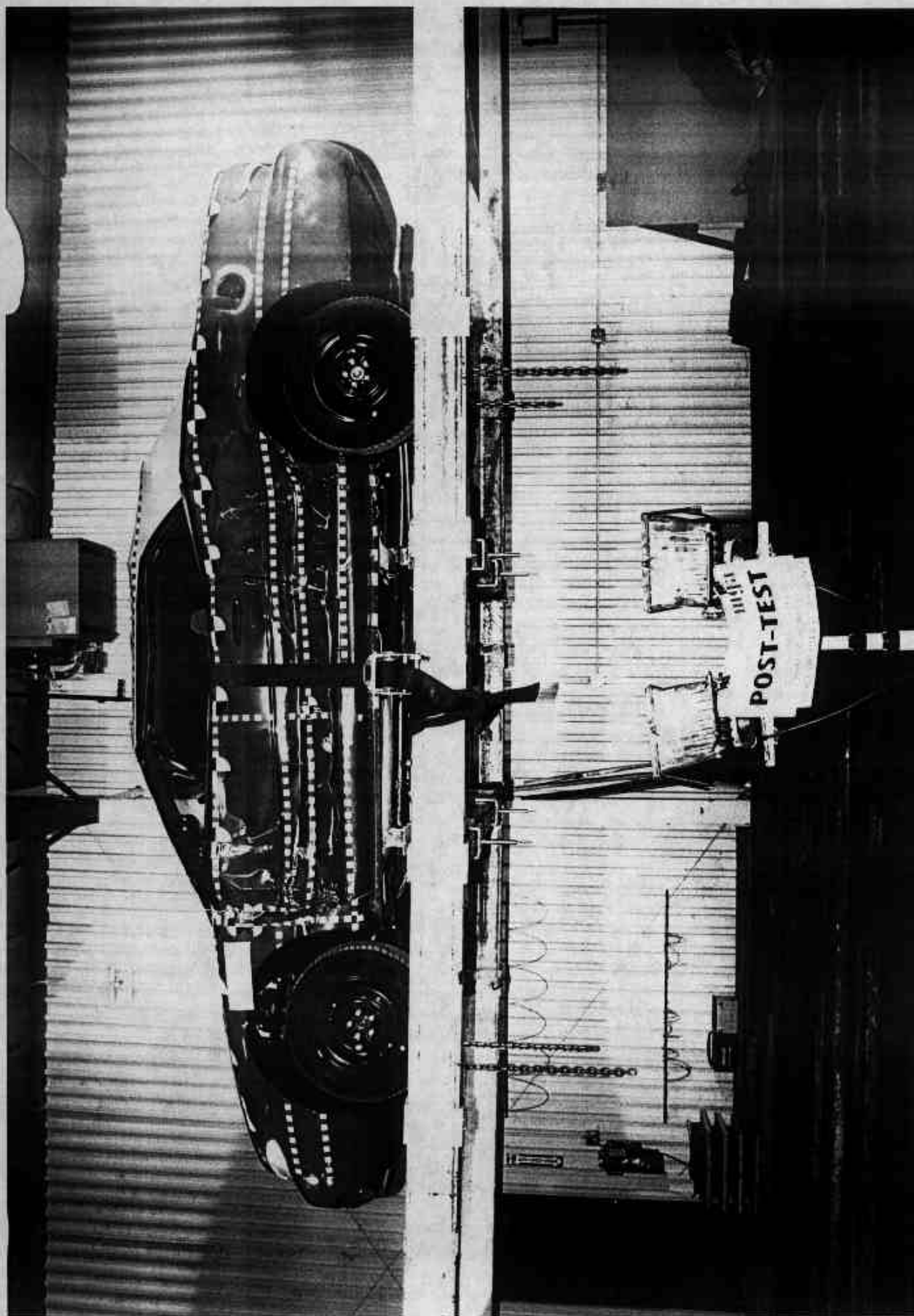


Photo No. A-45 - Rollover 270°



A-46

Photo No. A-46 - Rollover 360°

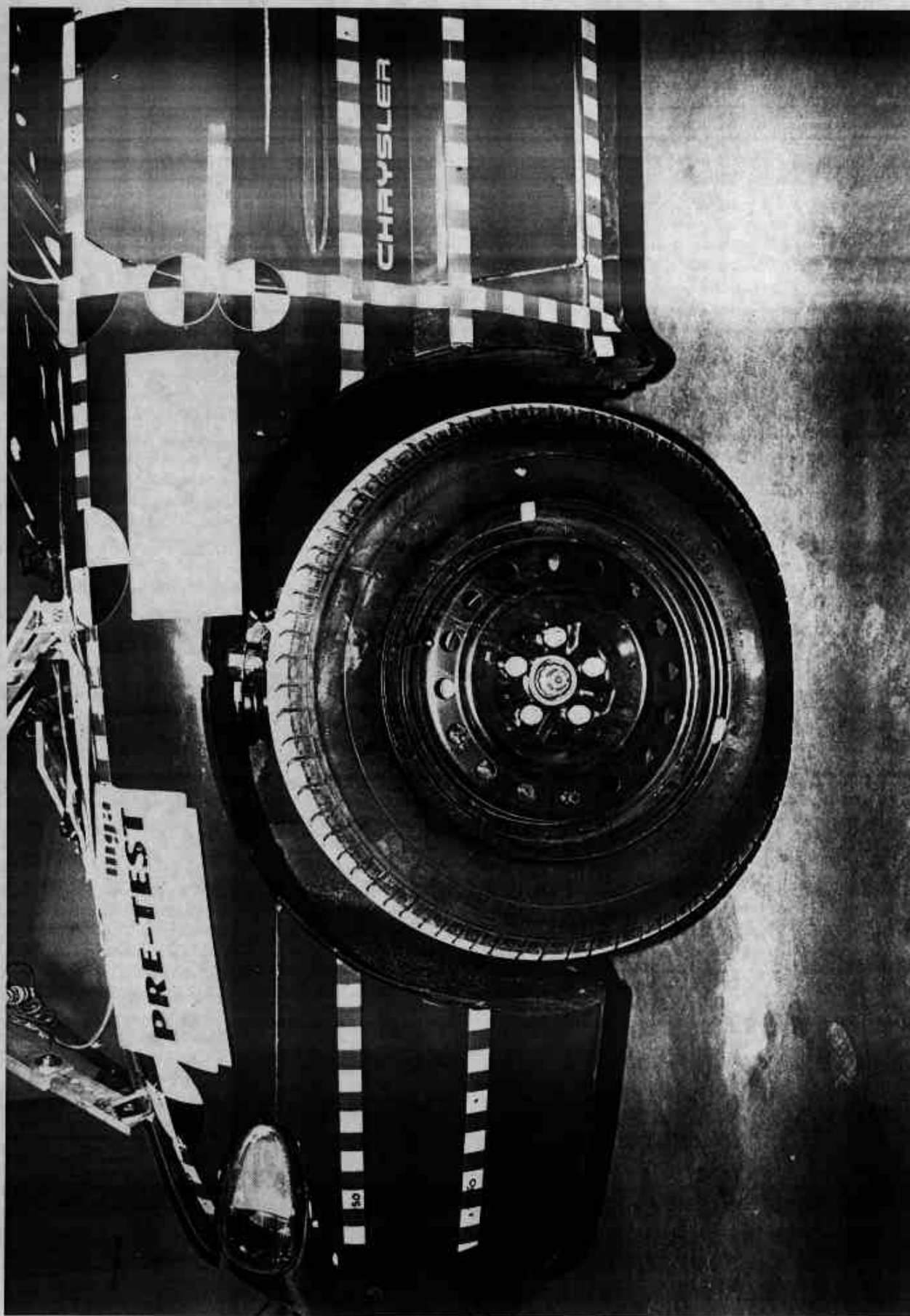
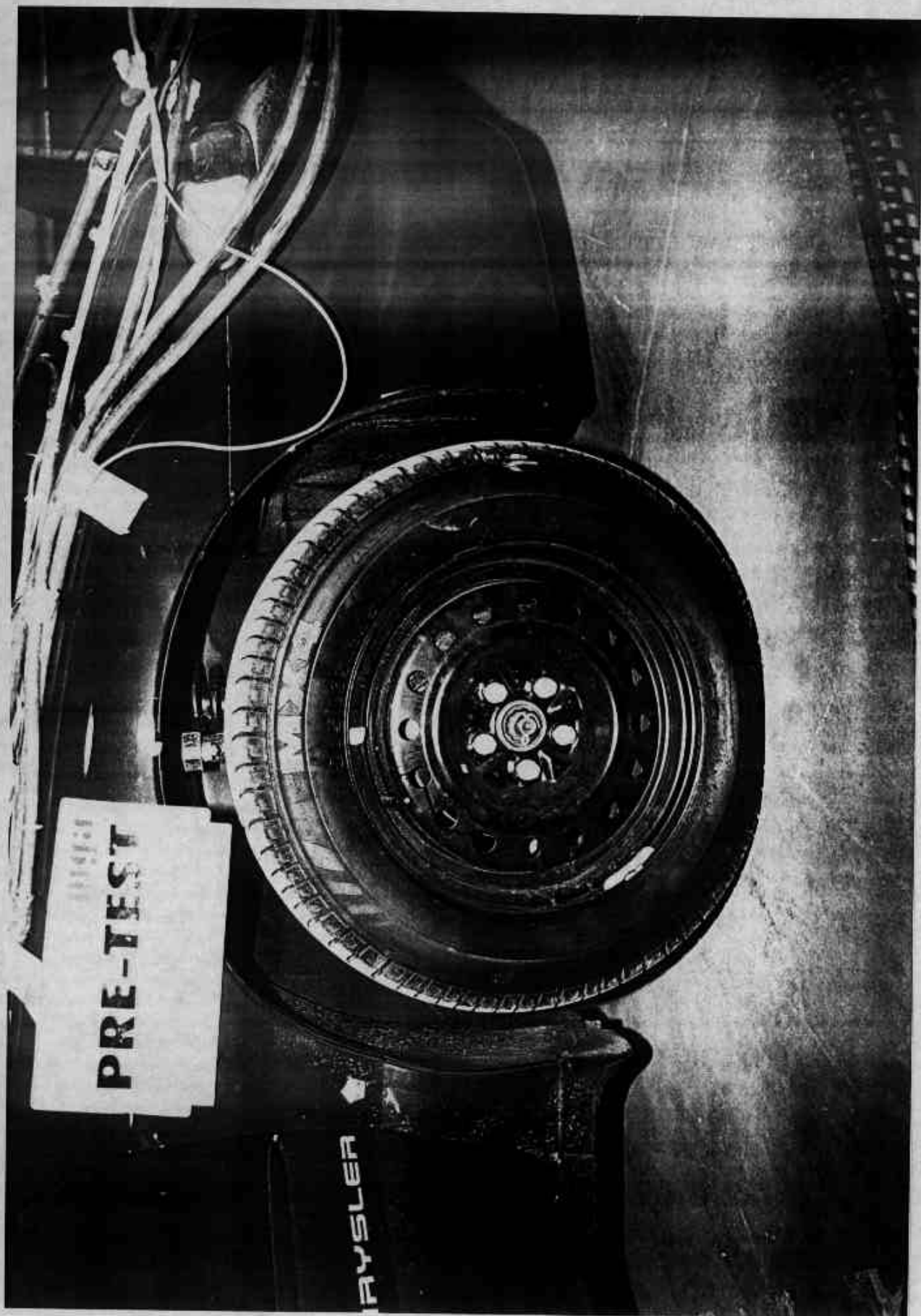


Photo No. A-47 - Left Front Attitude Point

A-47



A-48

Photo No. A-48 - Right Front Attitude Point

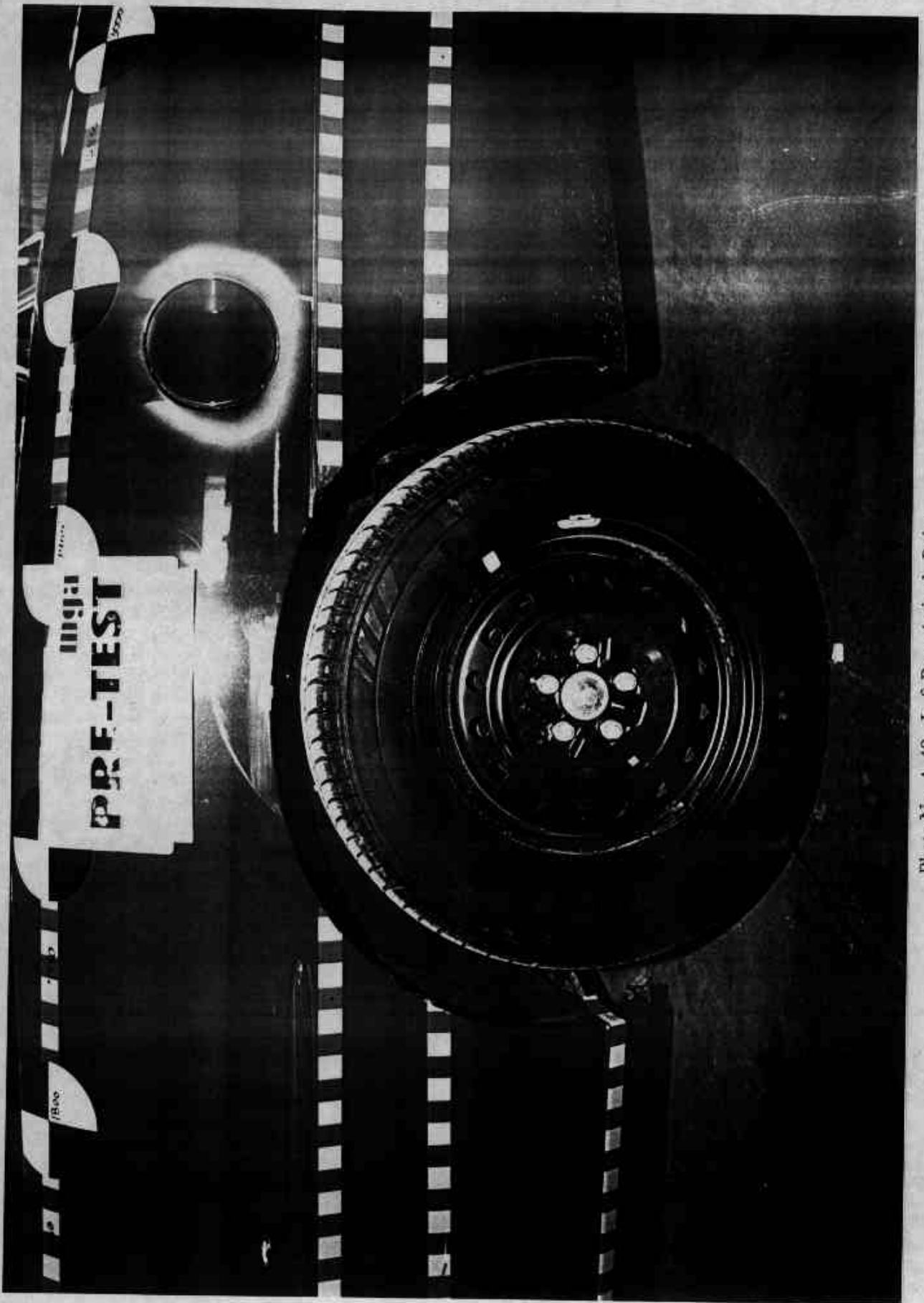


Photo No. A-49 - Left Rear Attitude Point

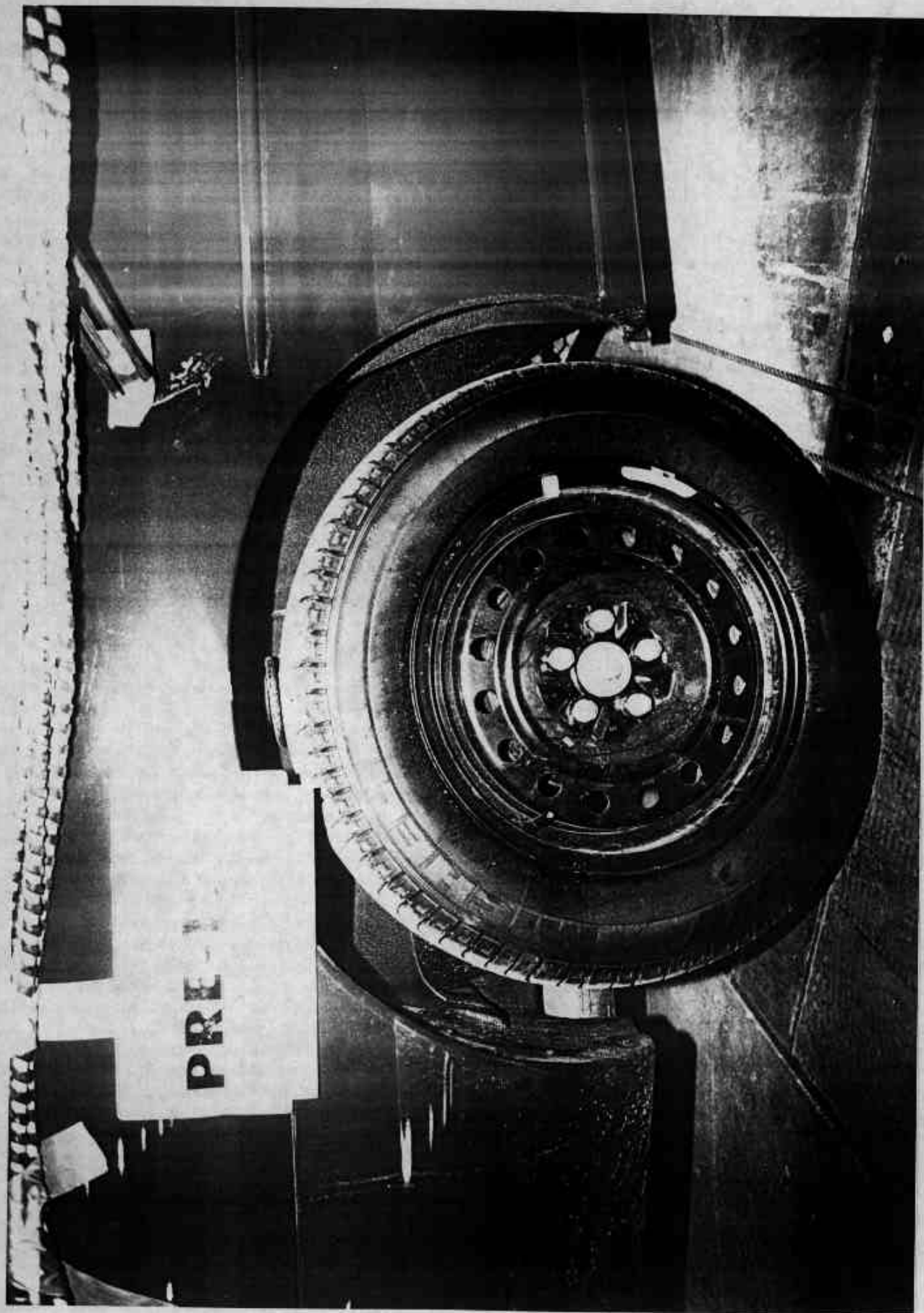


Photo No. A-50 - Right Rear Attitude Point

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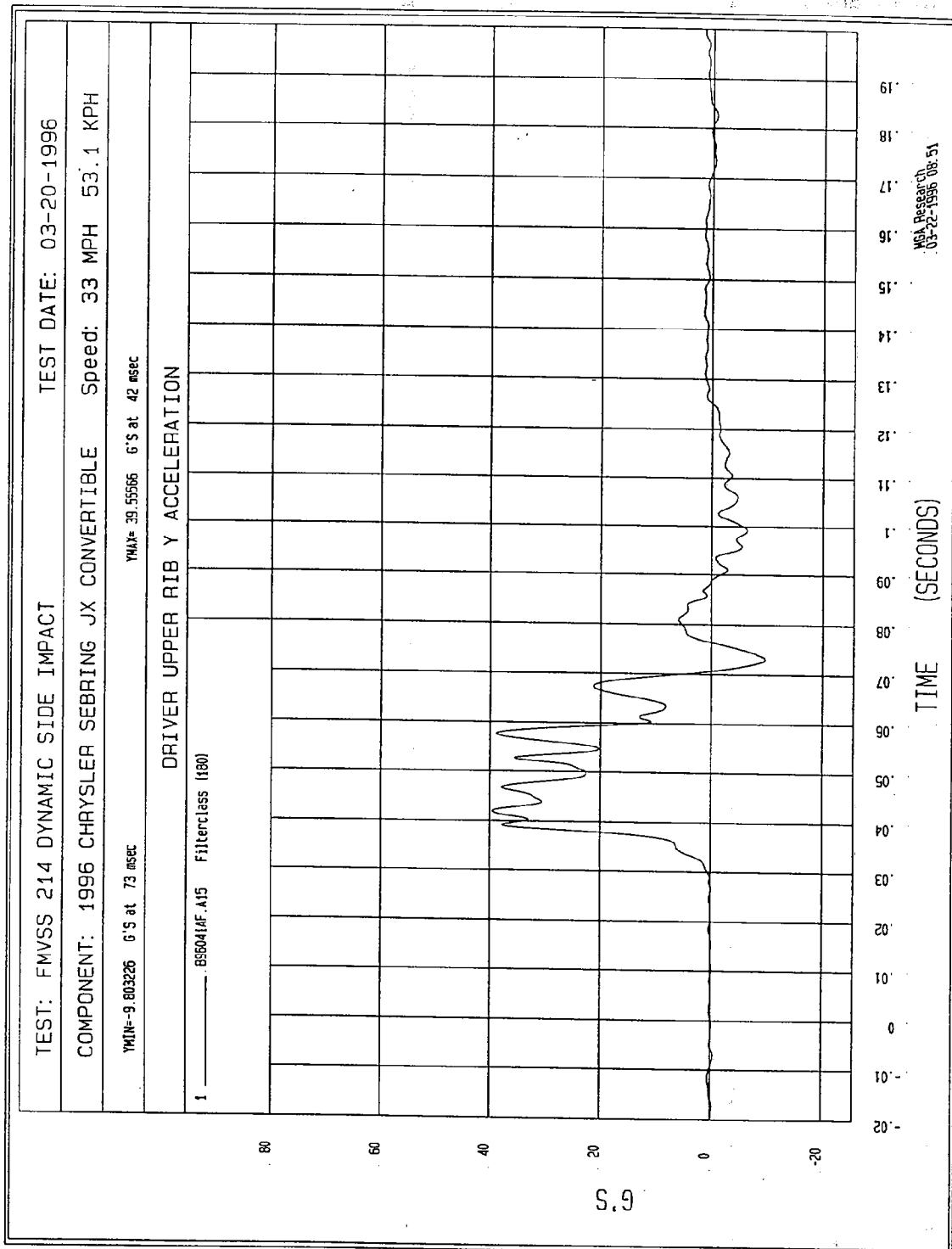
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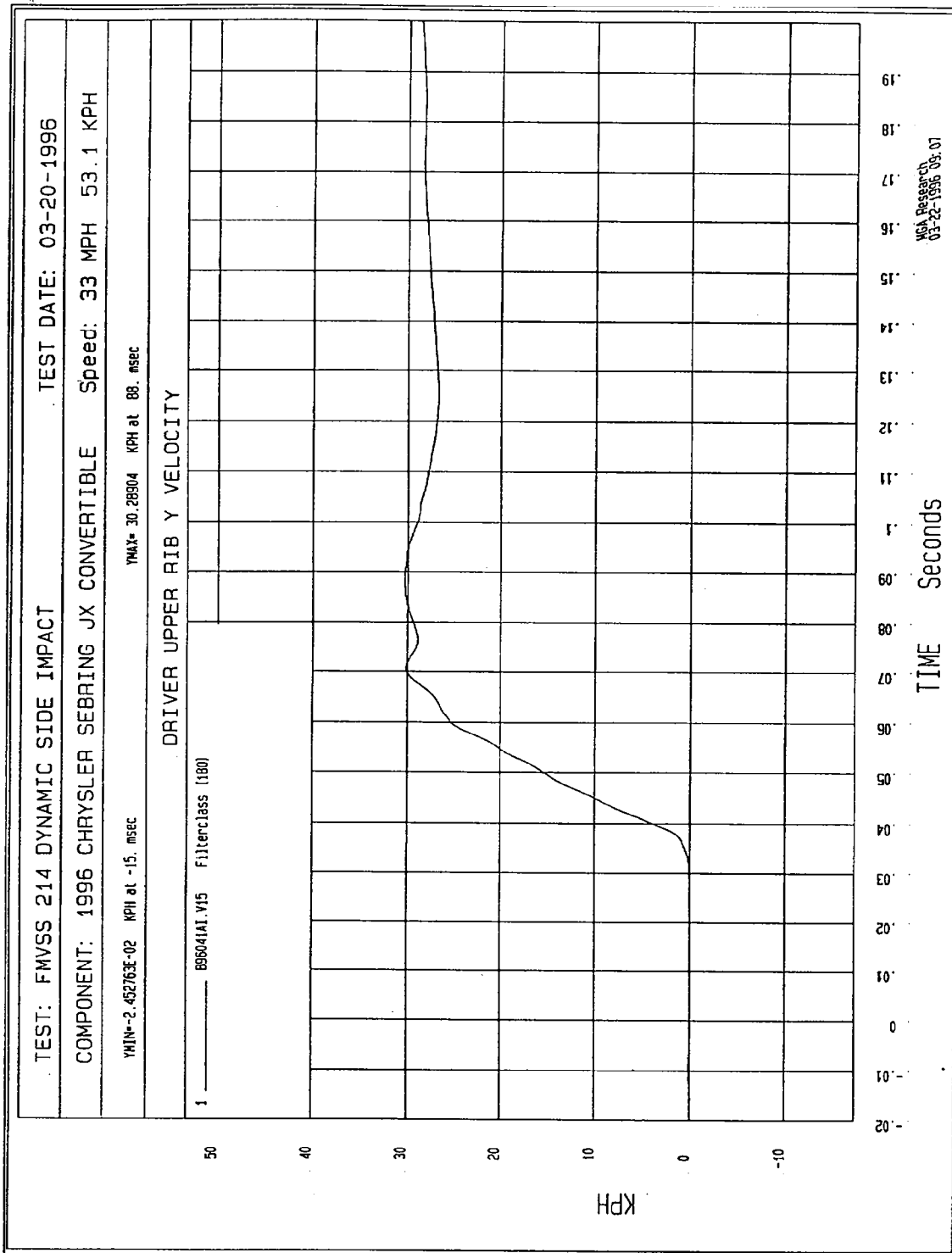
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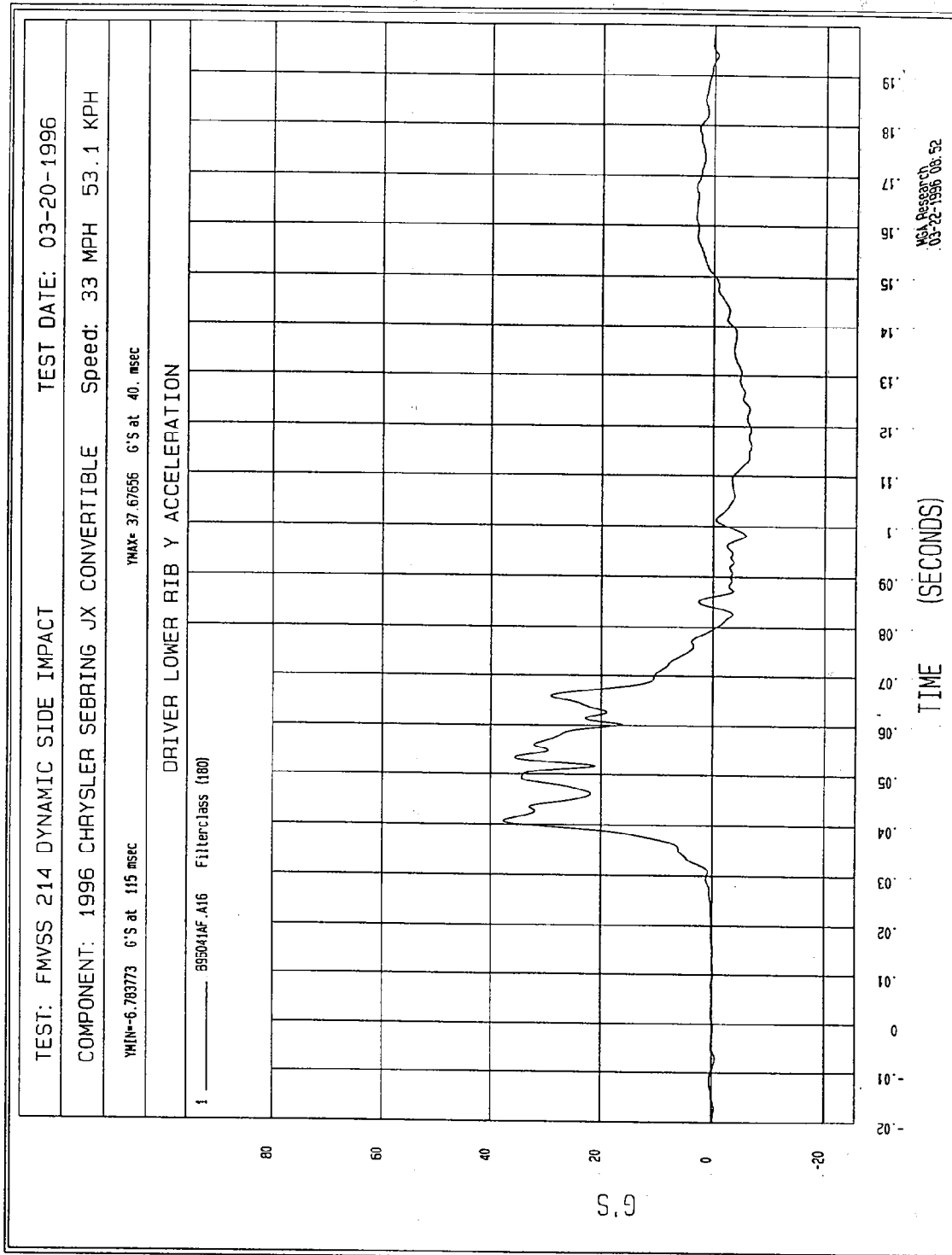
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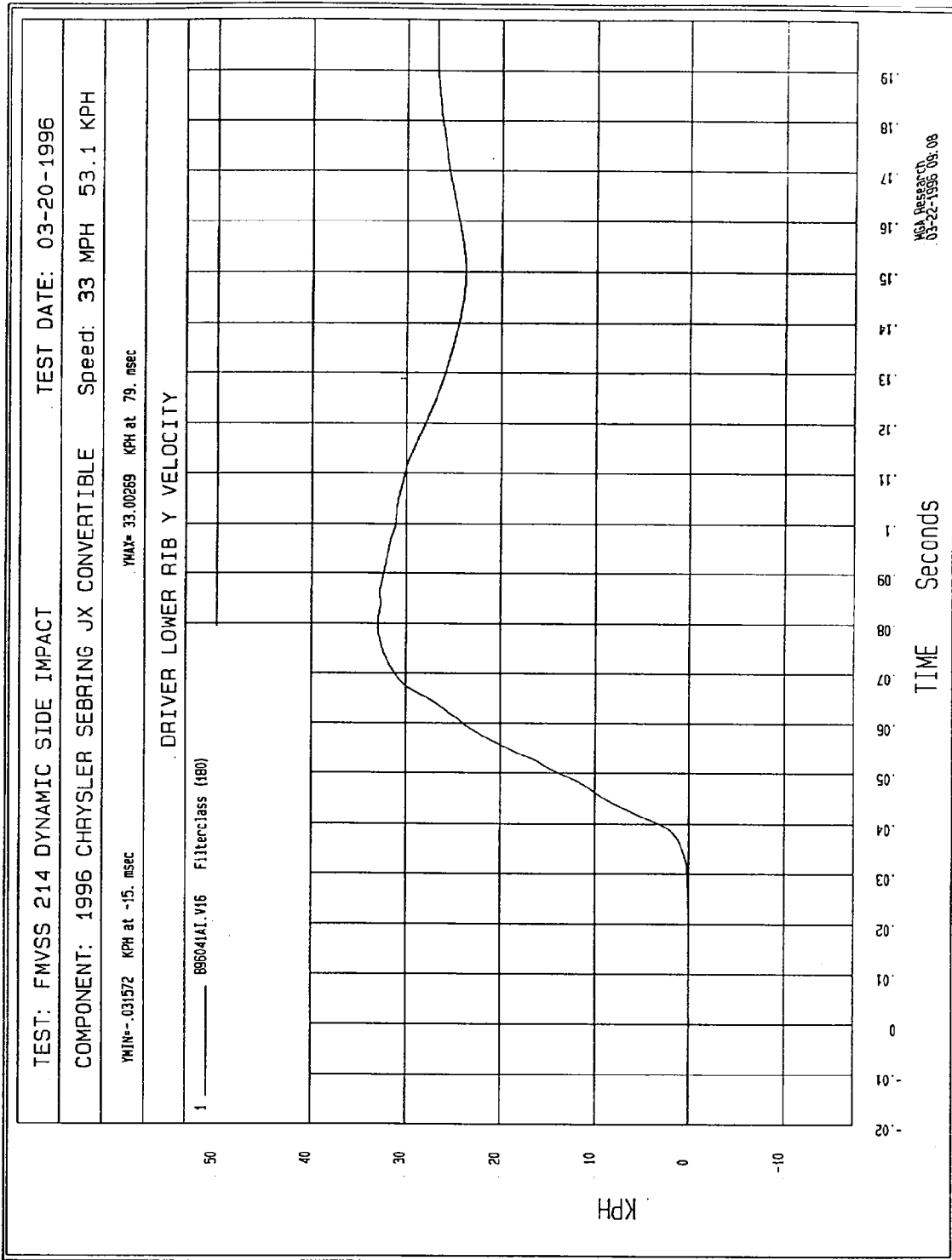
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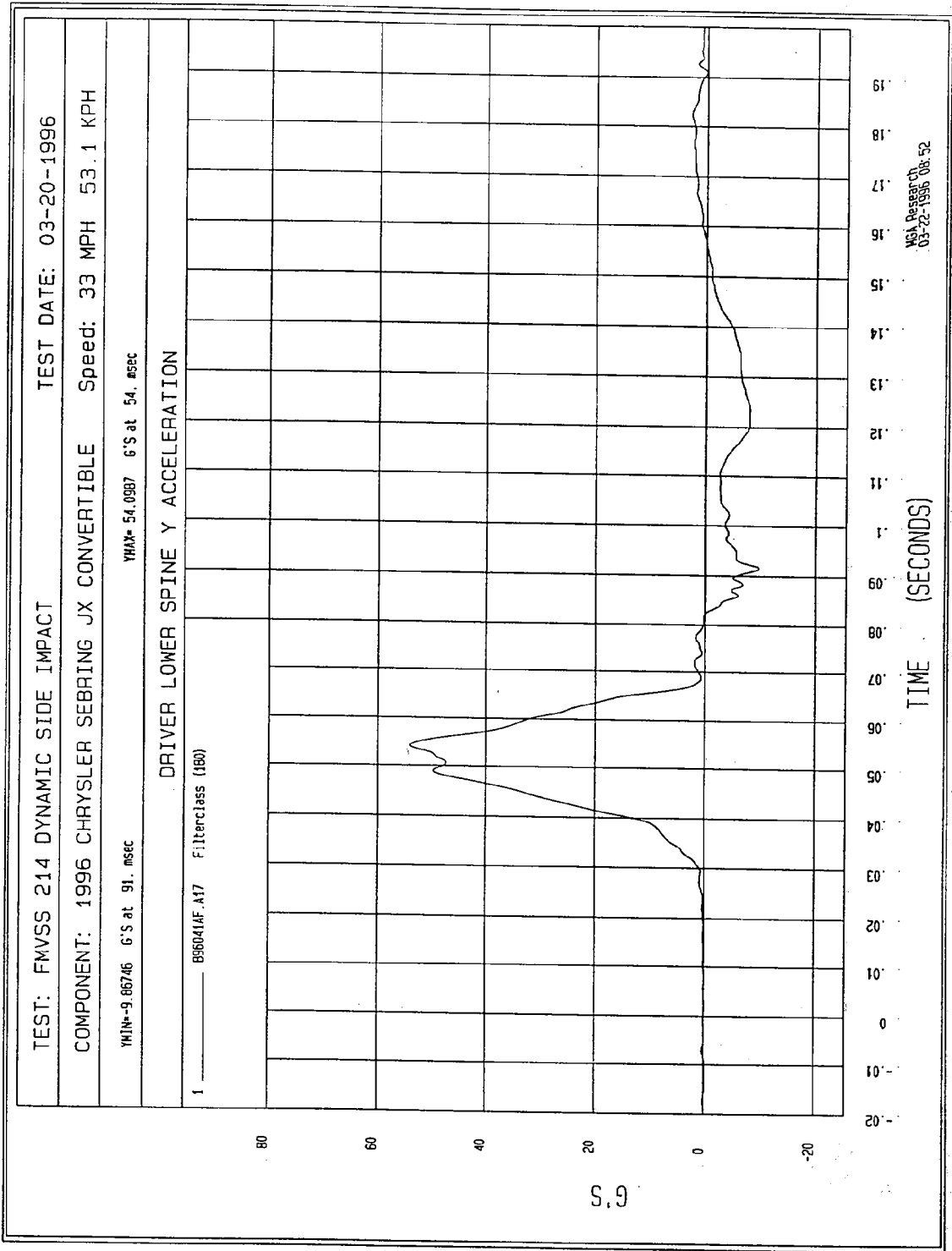
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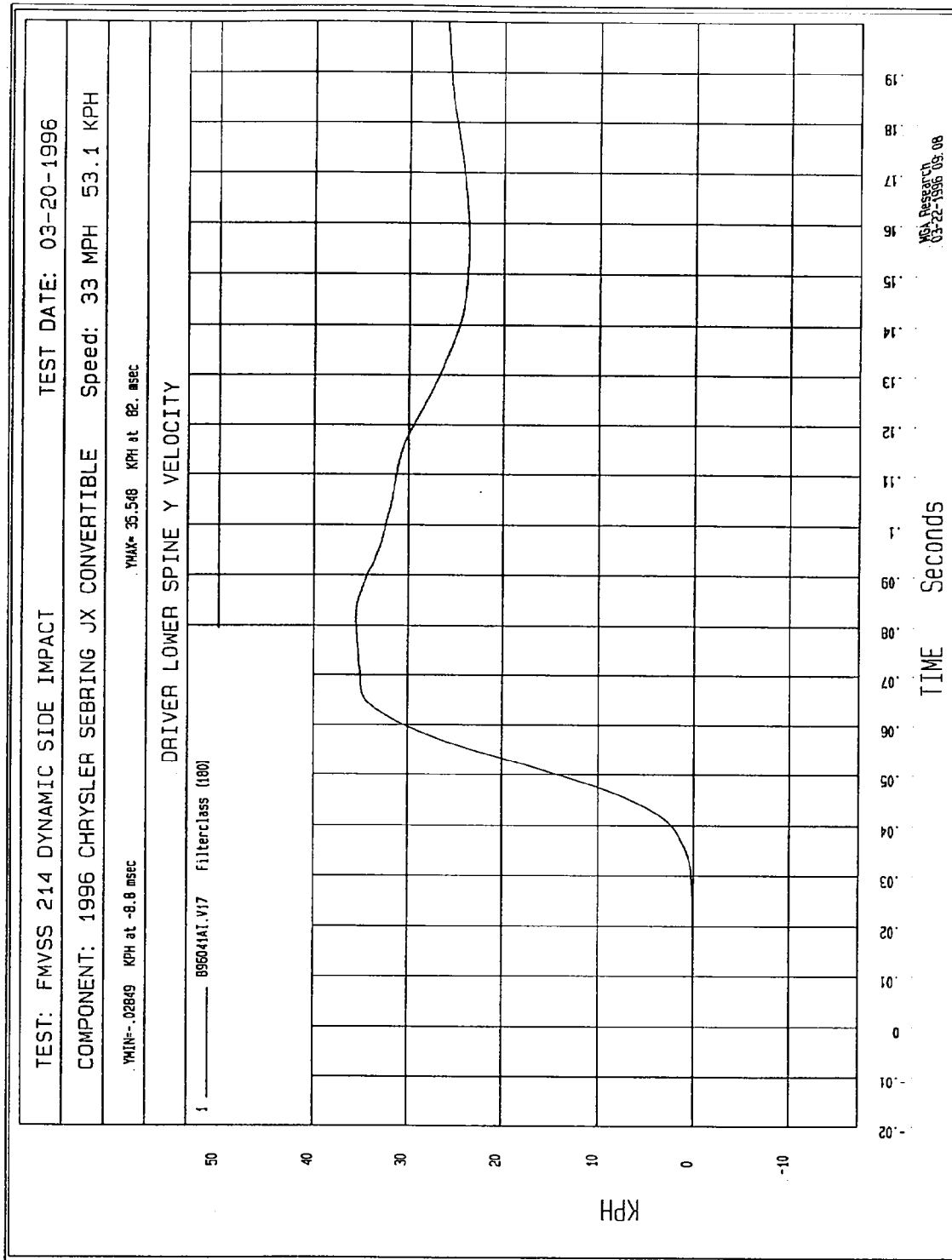


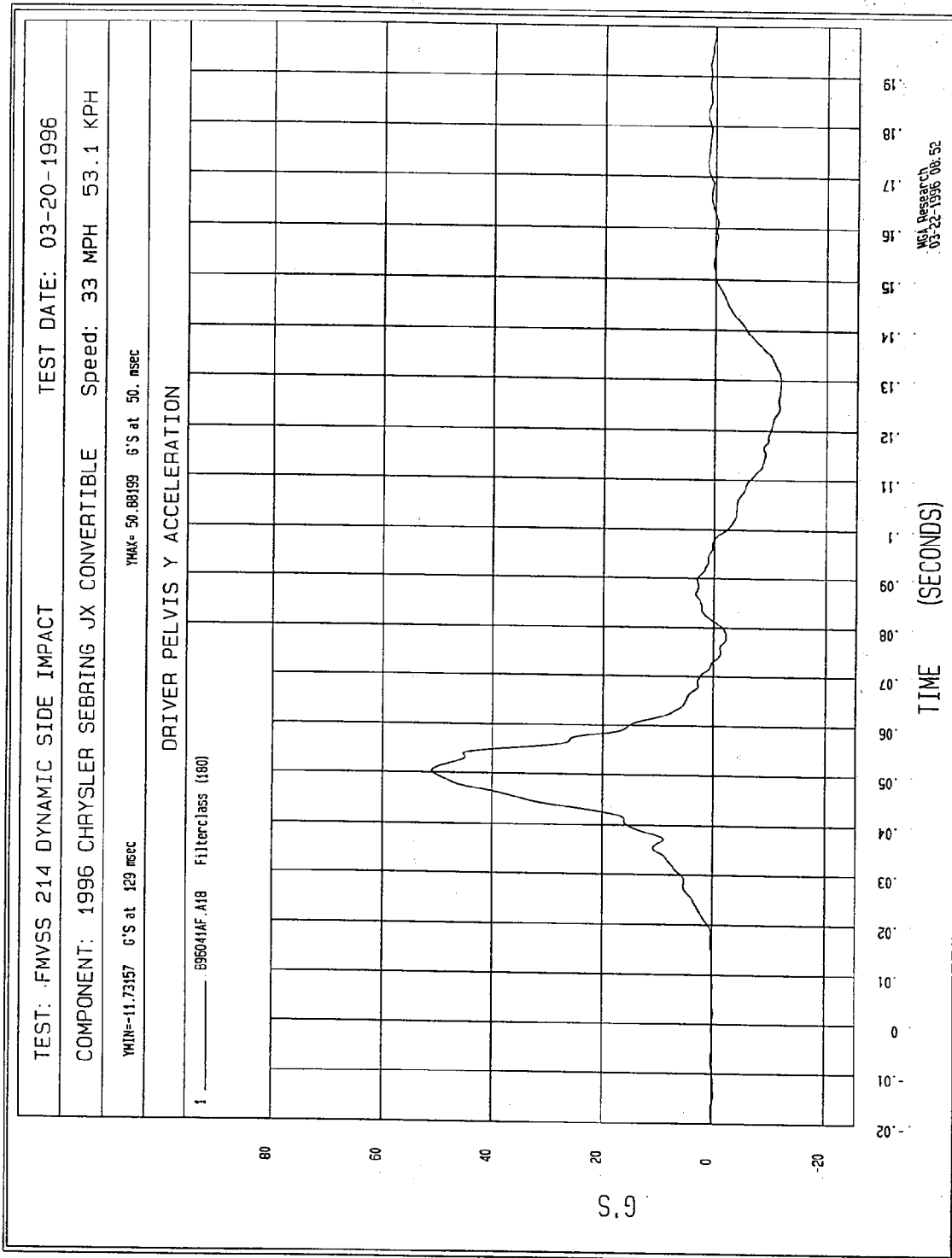


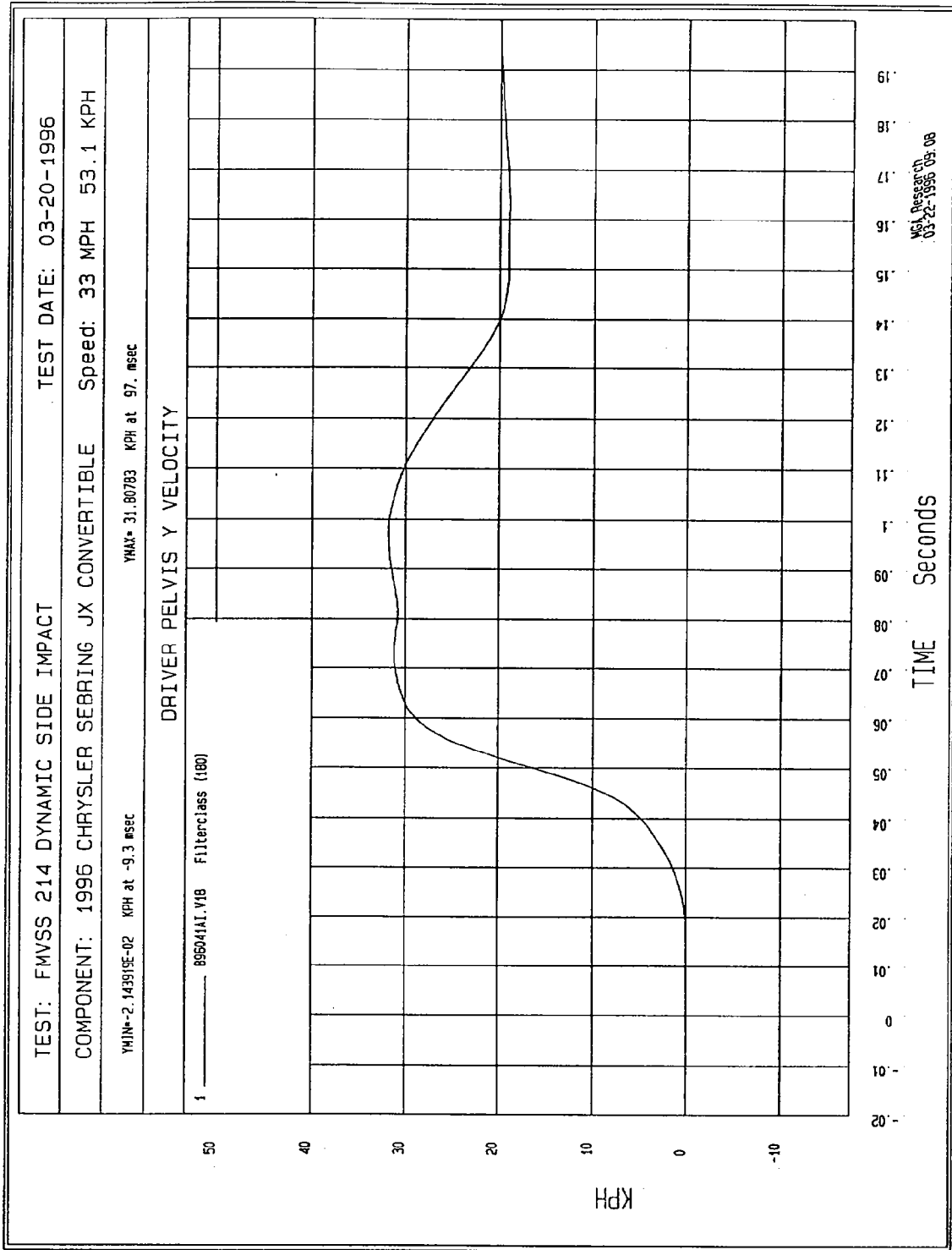


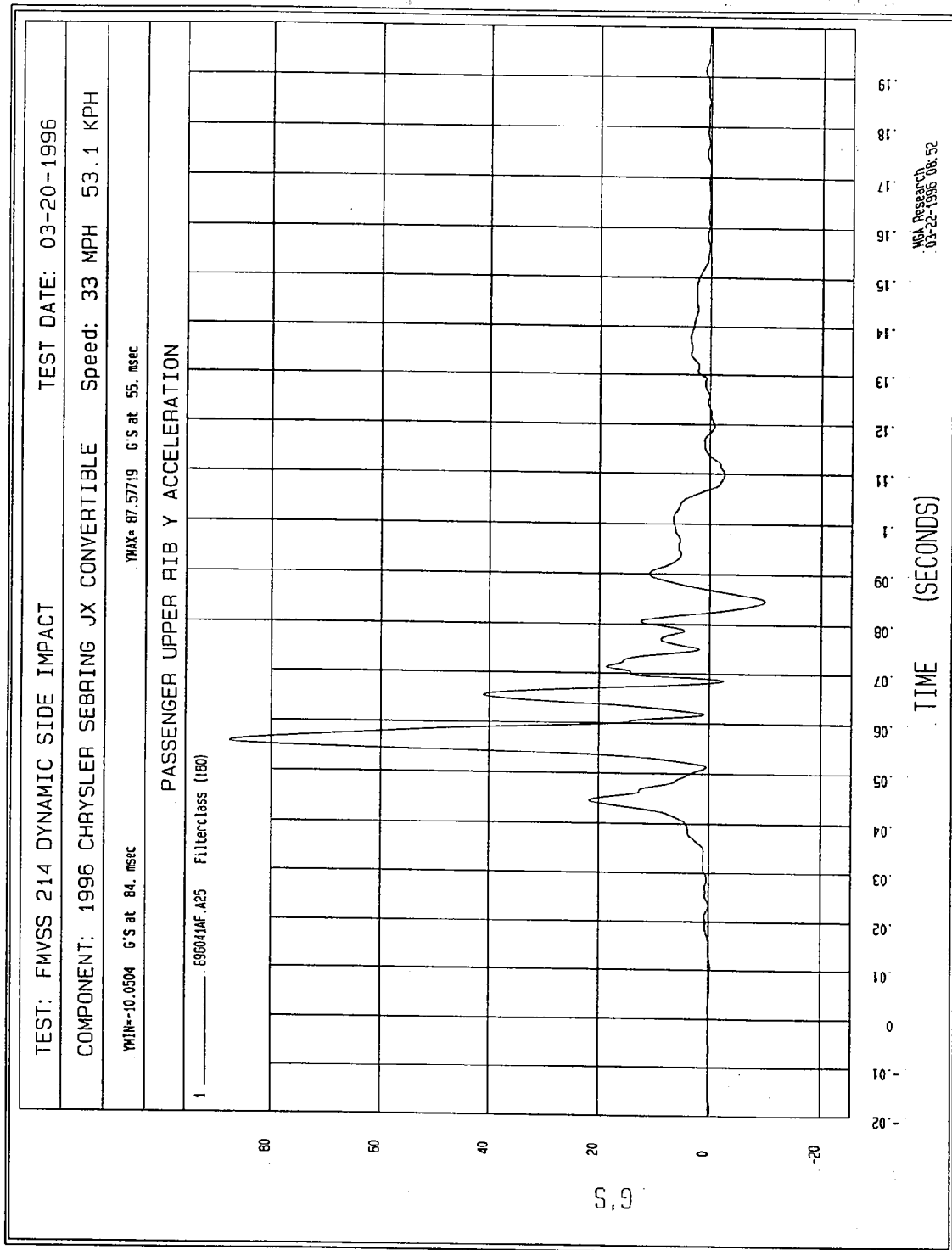


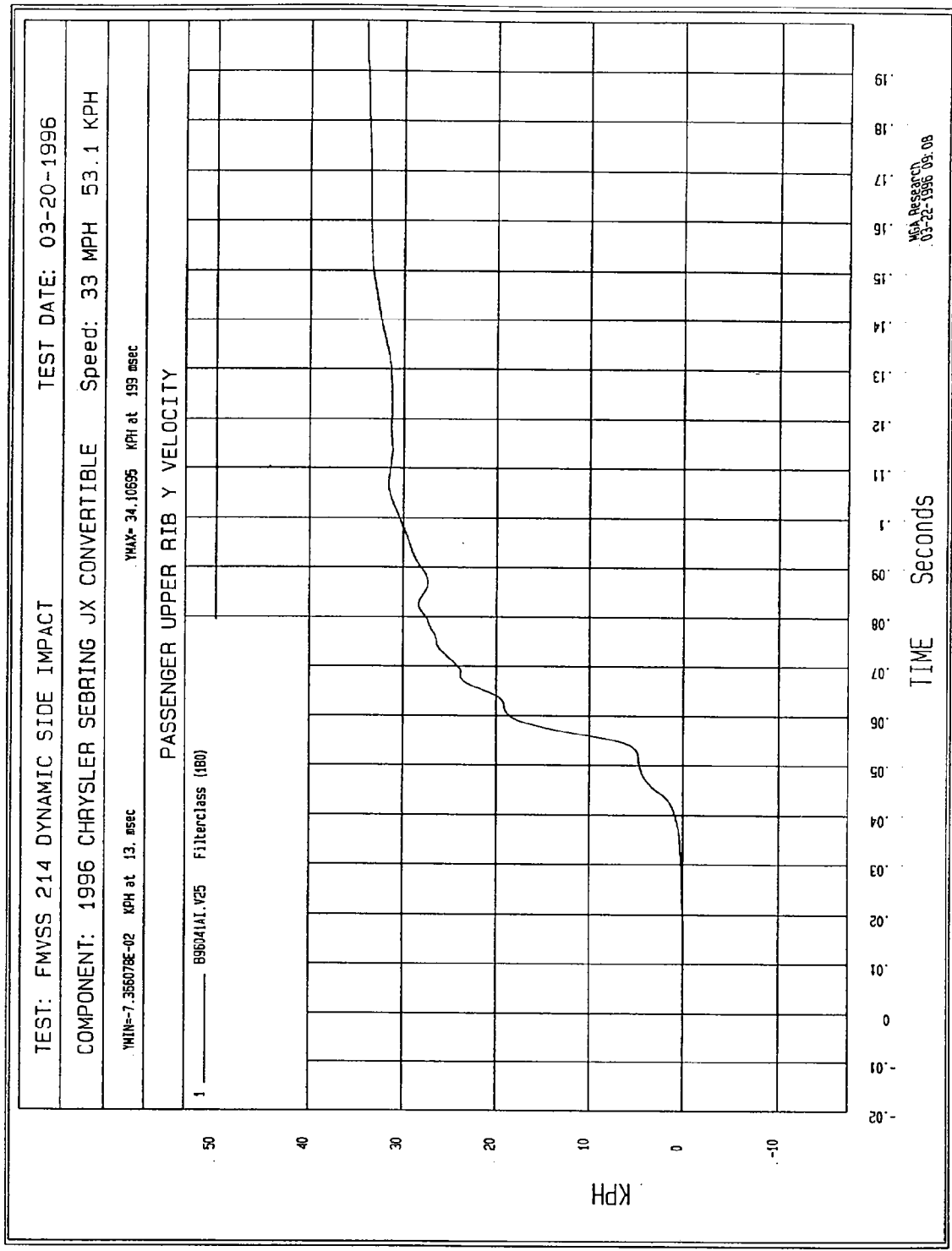


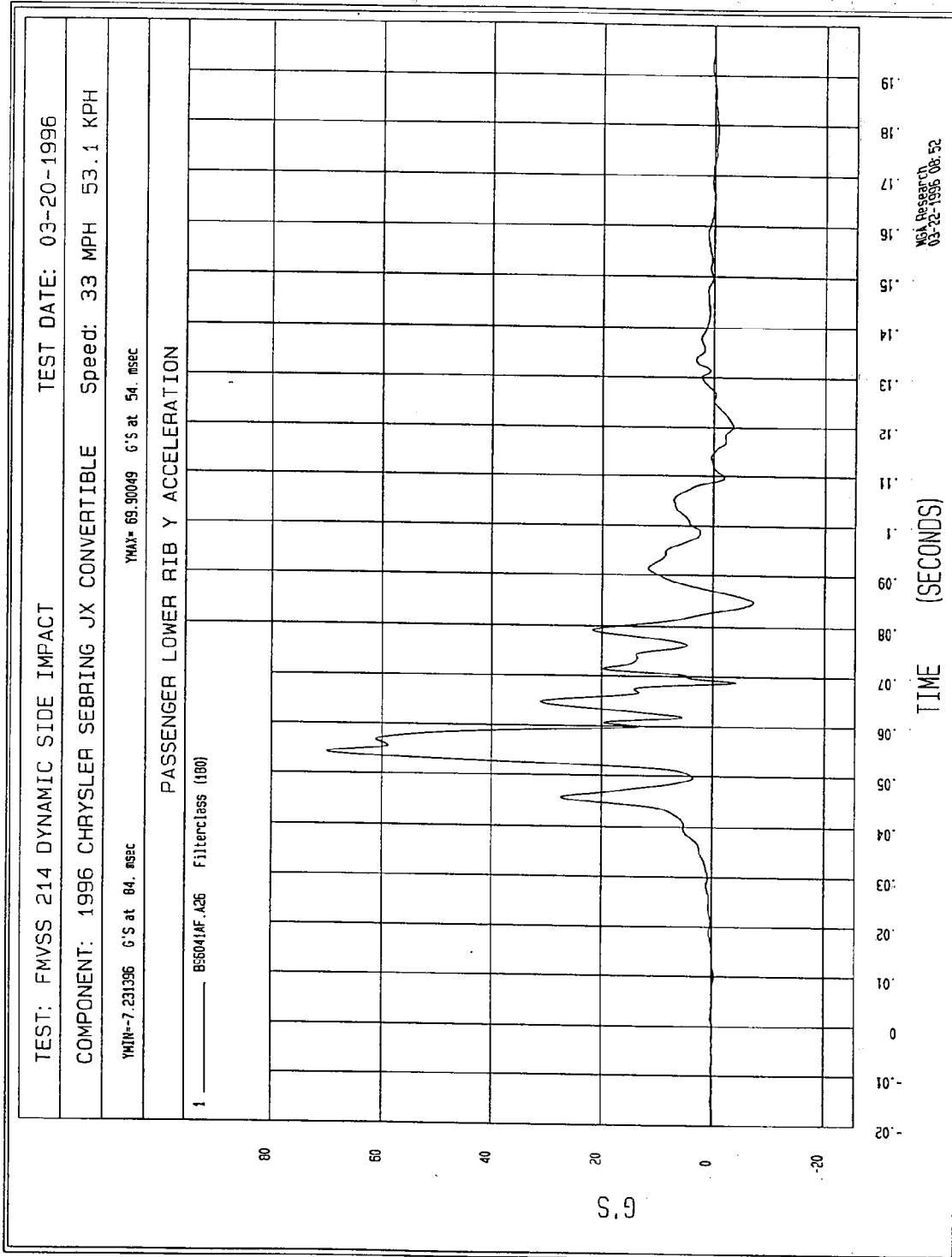


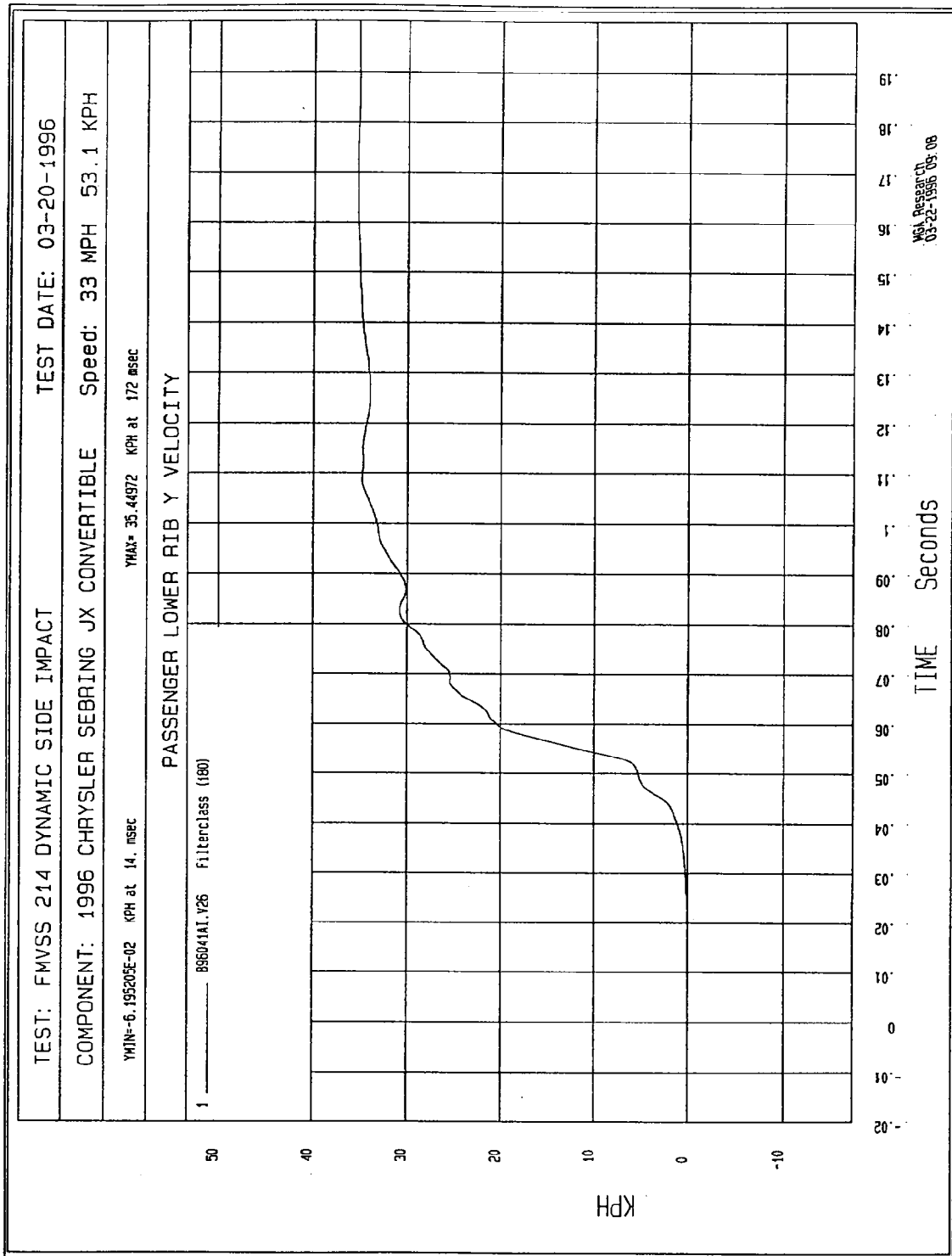


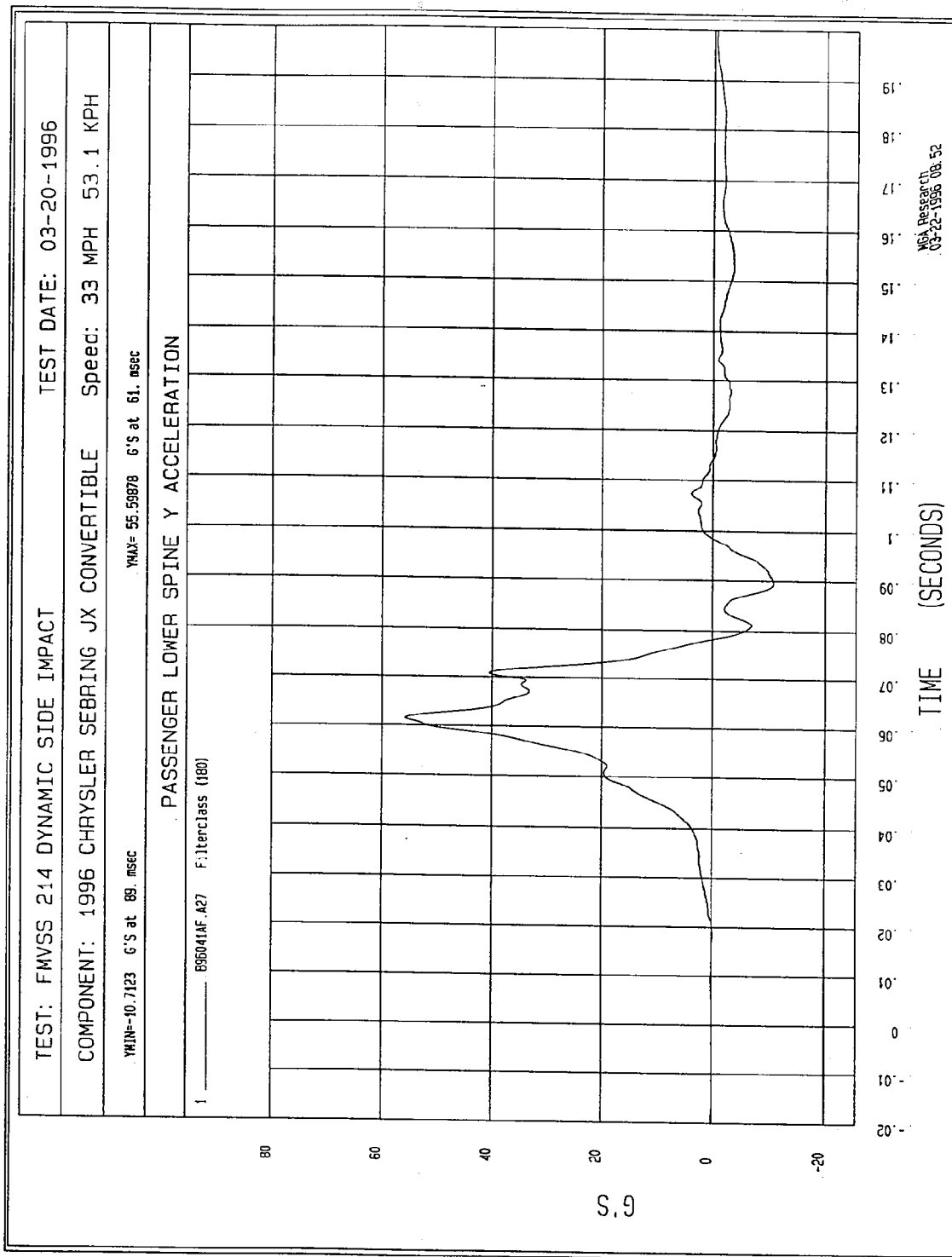


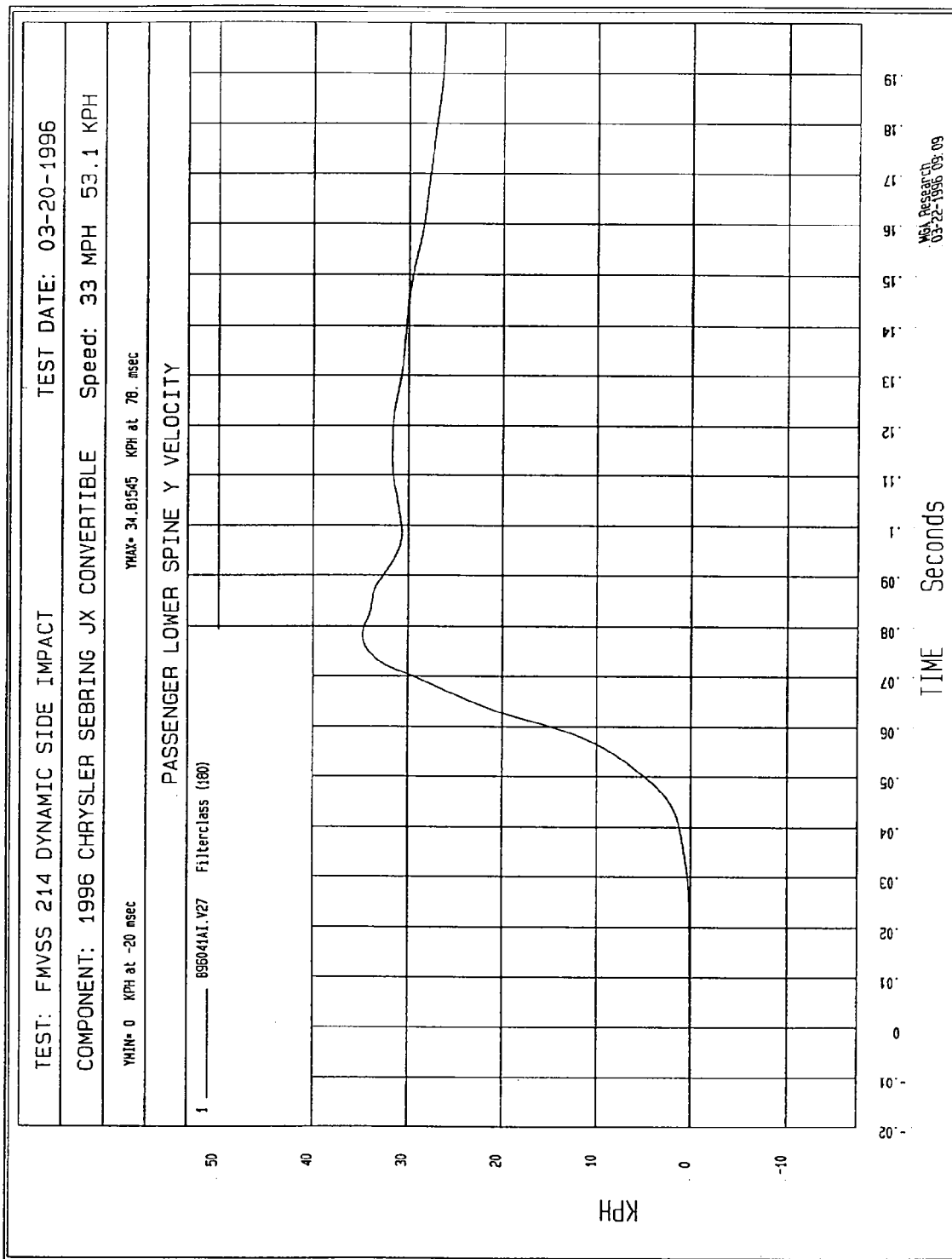


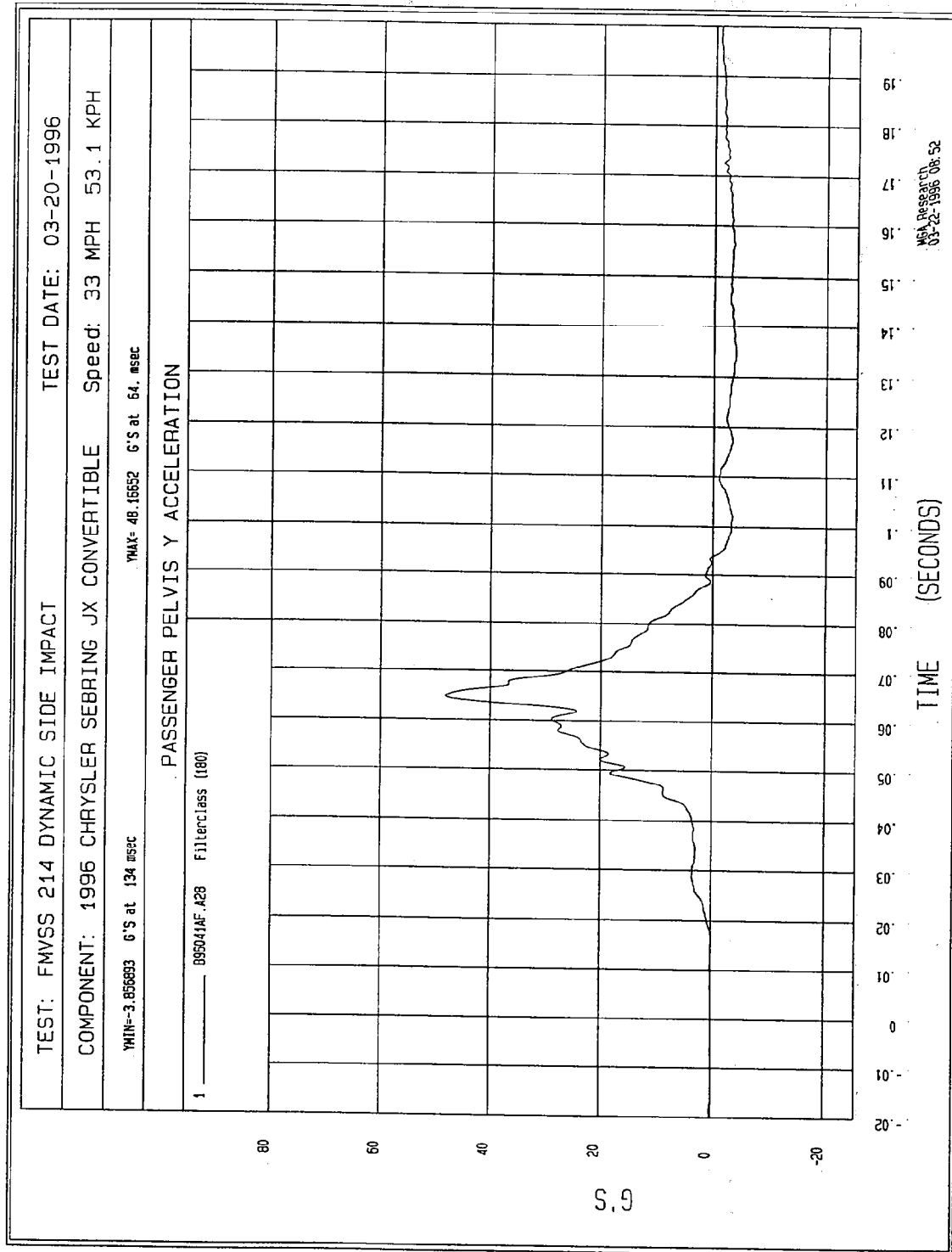


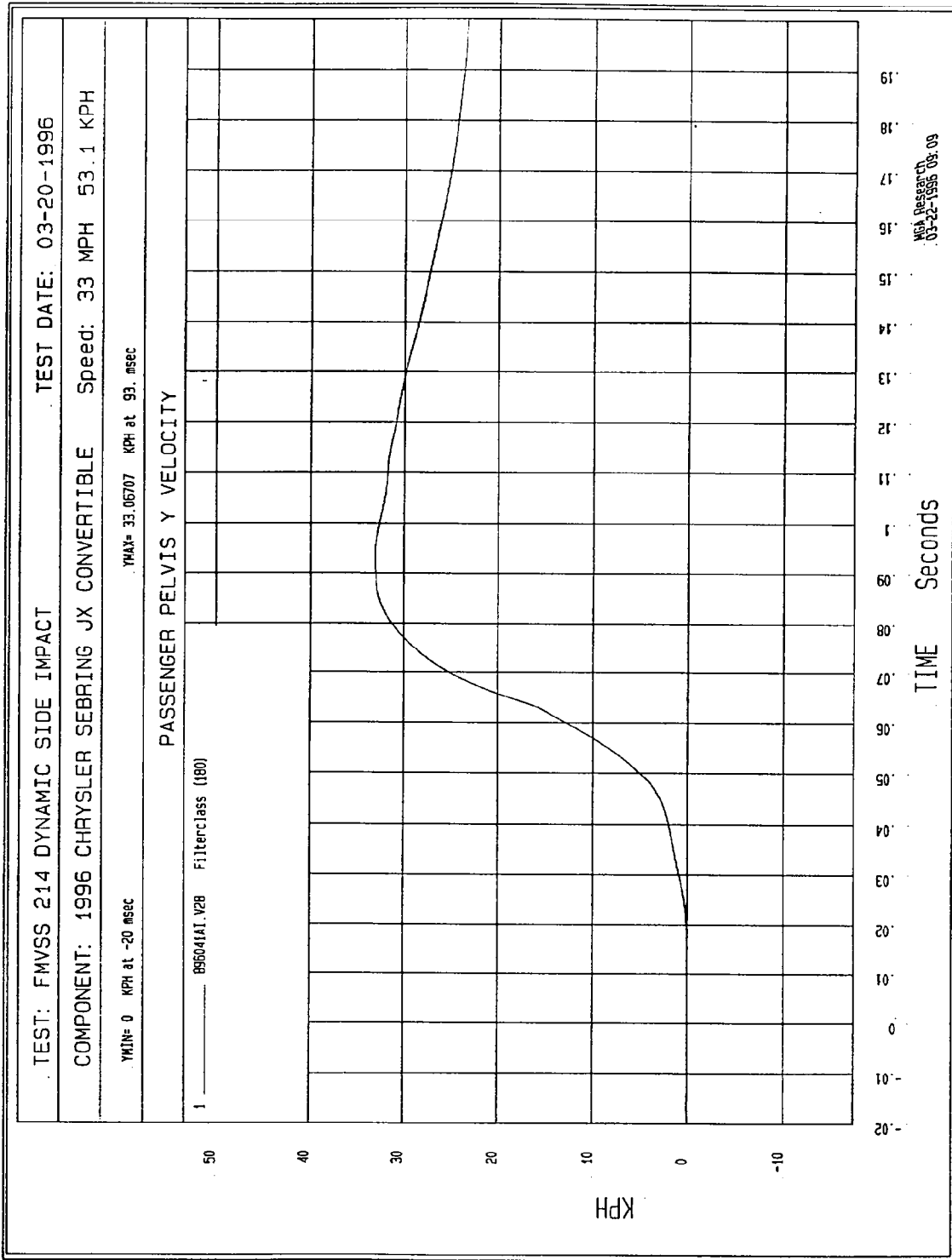


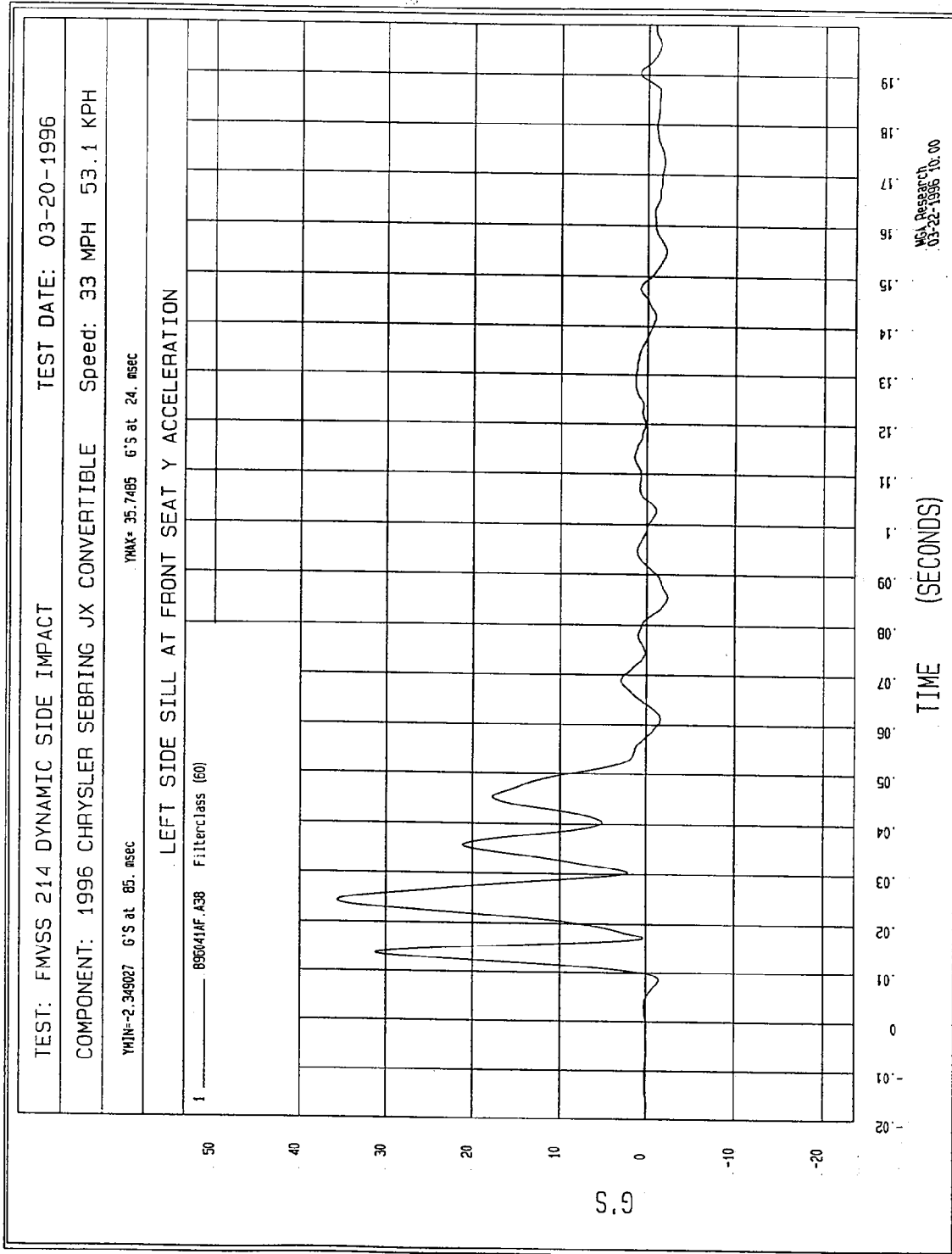


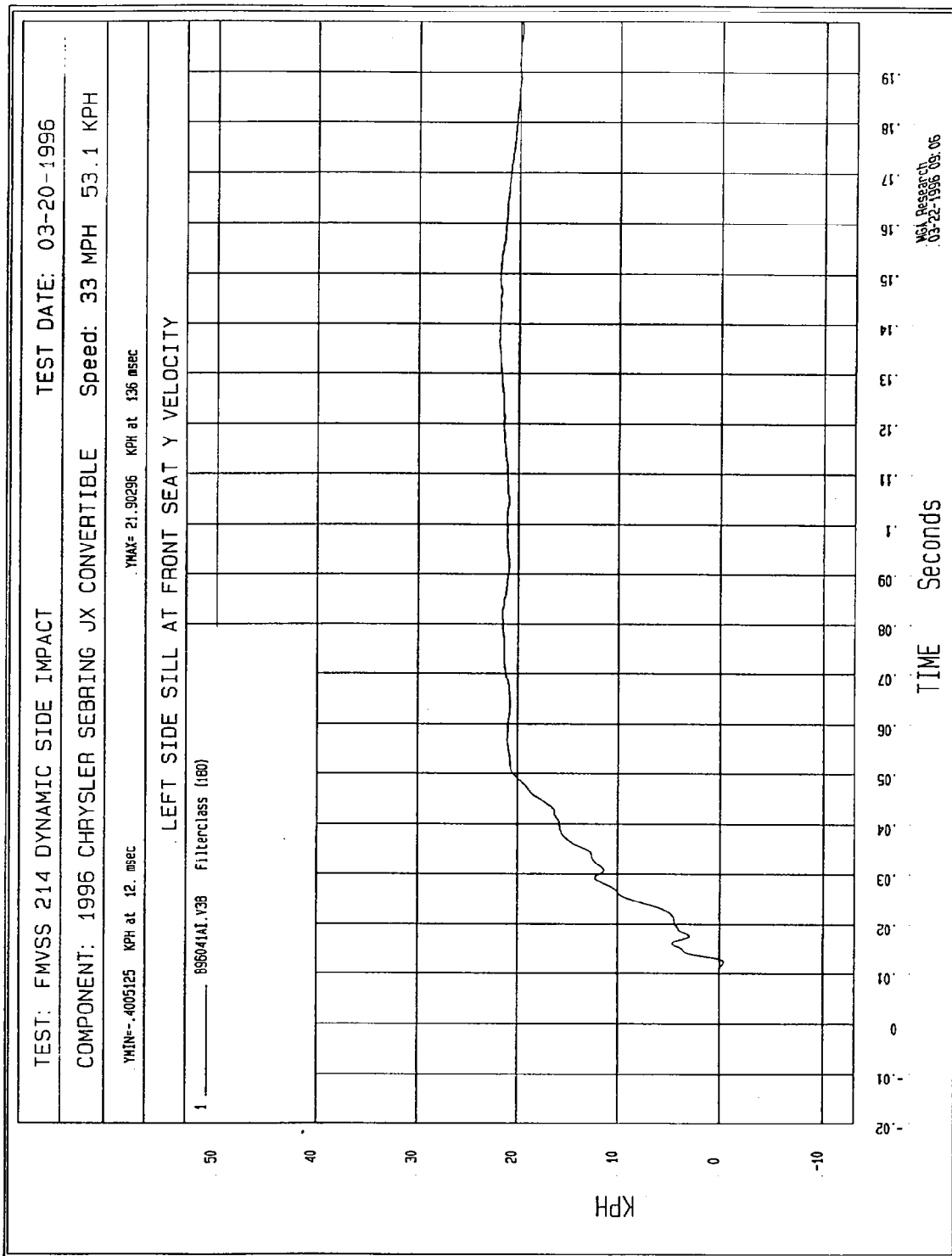


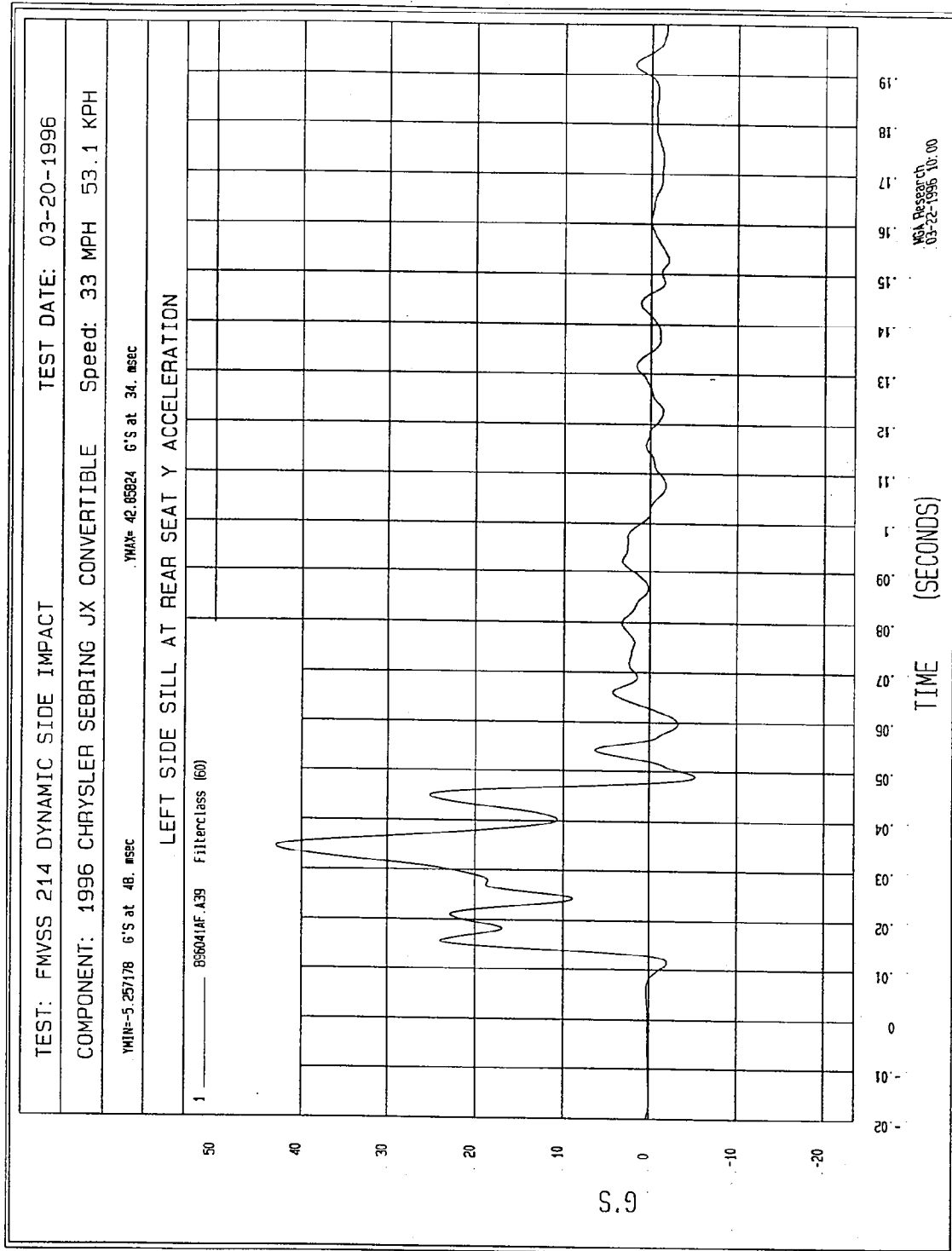


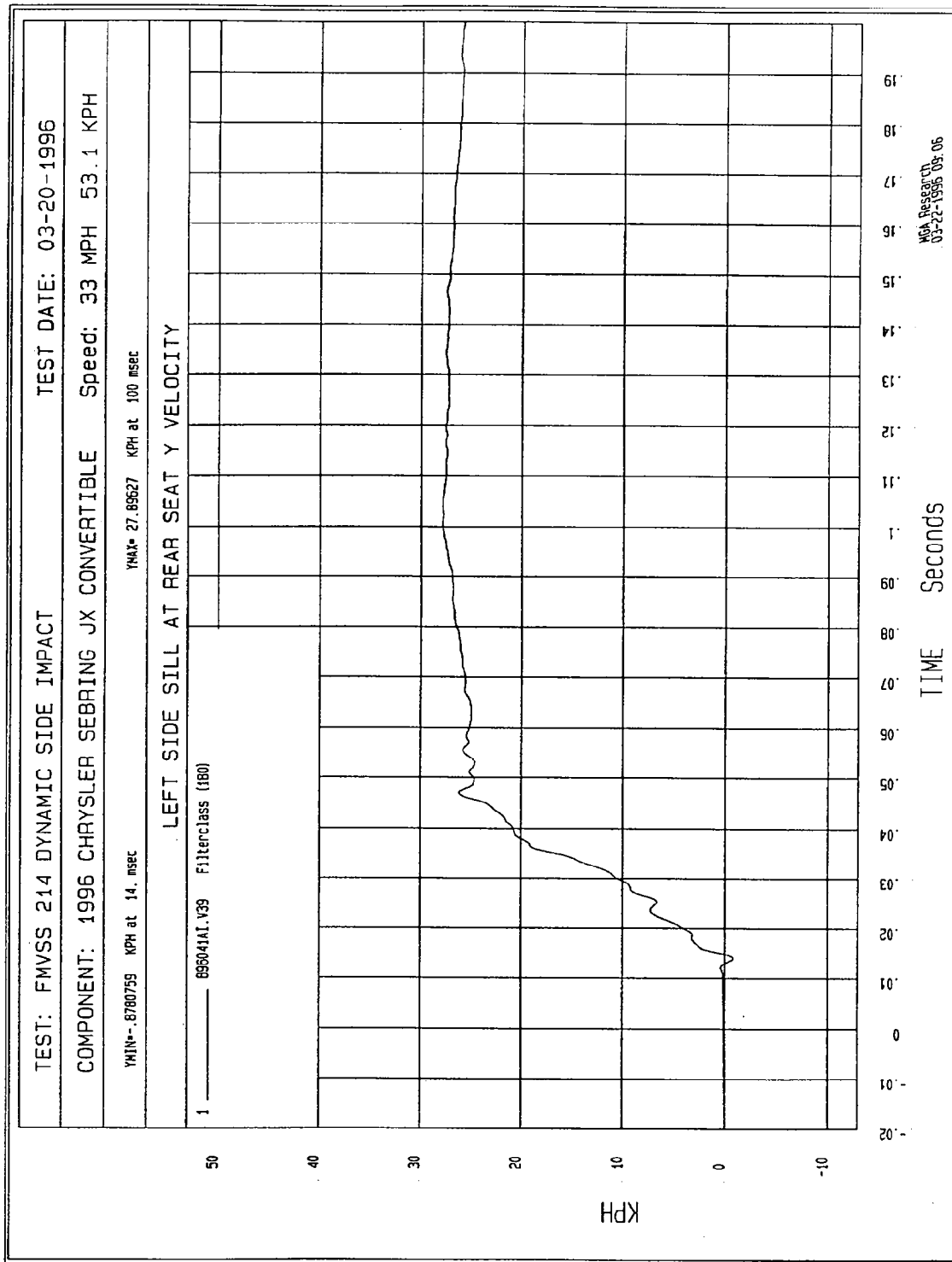


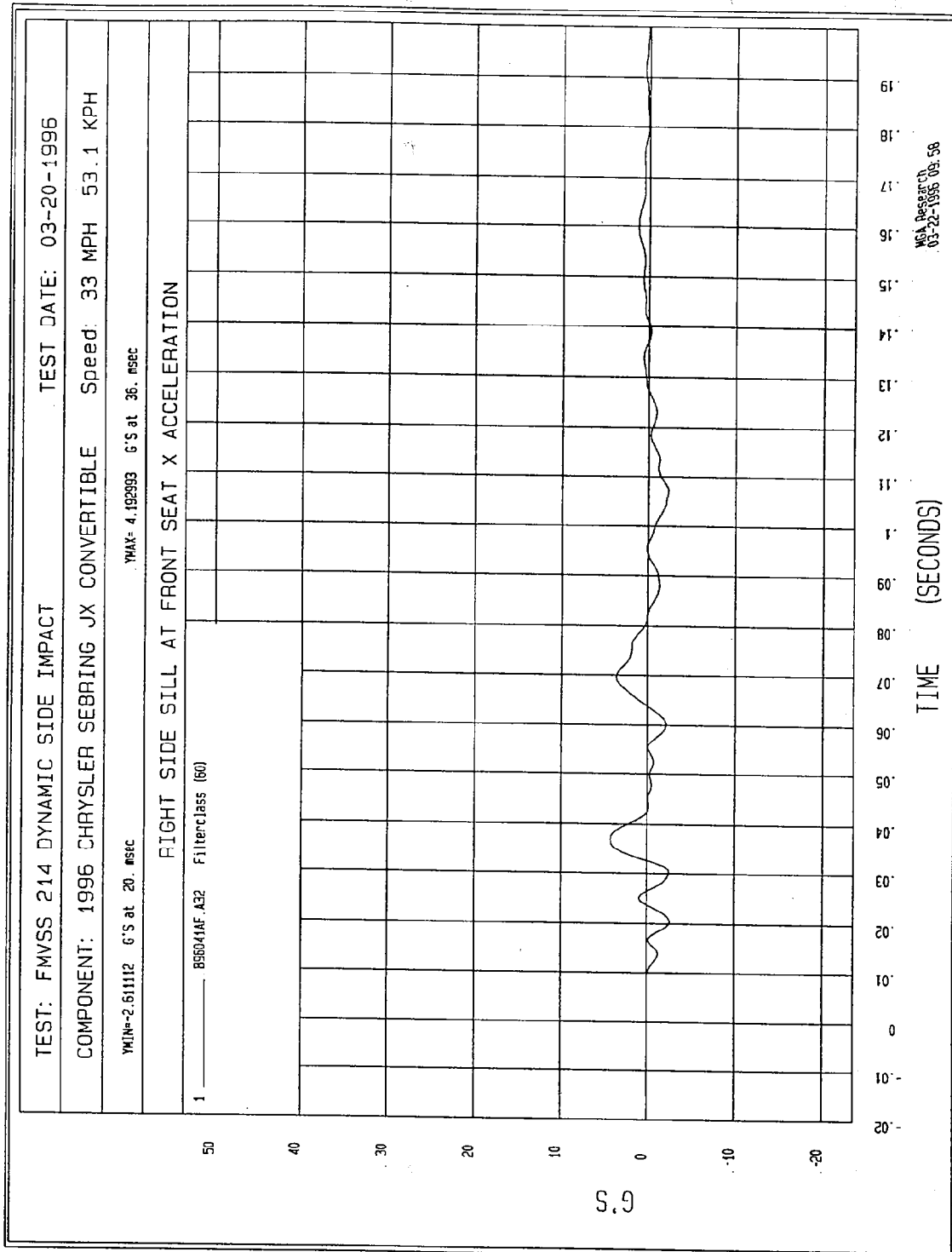


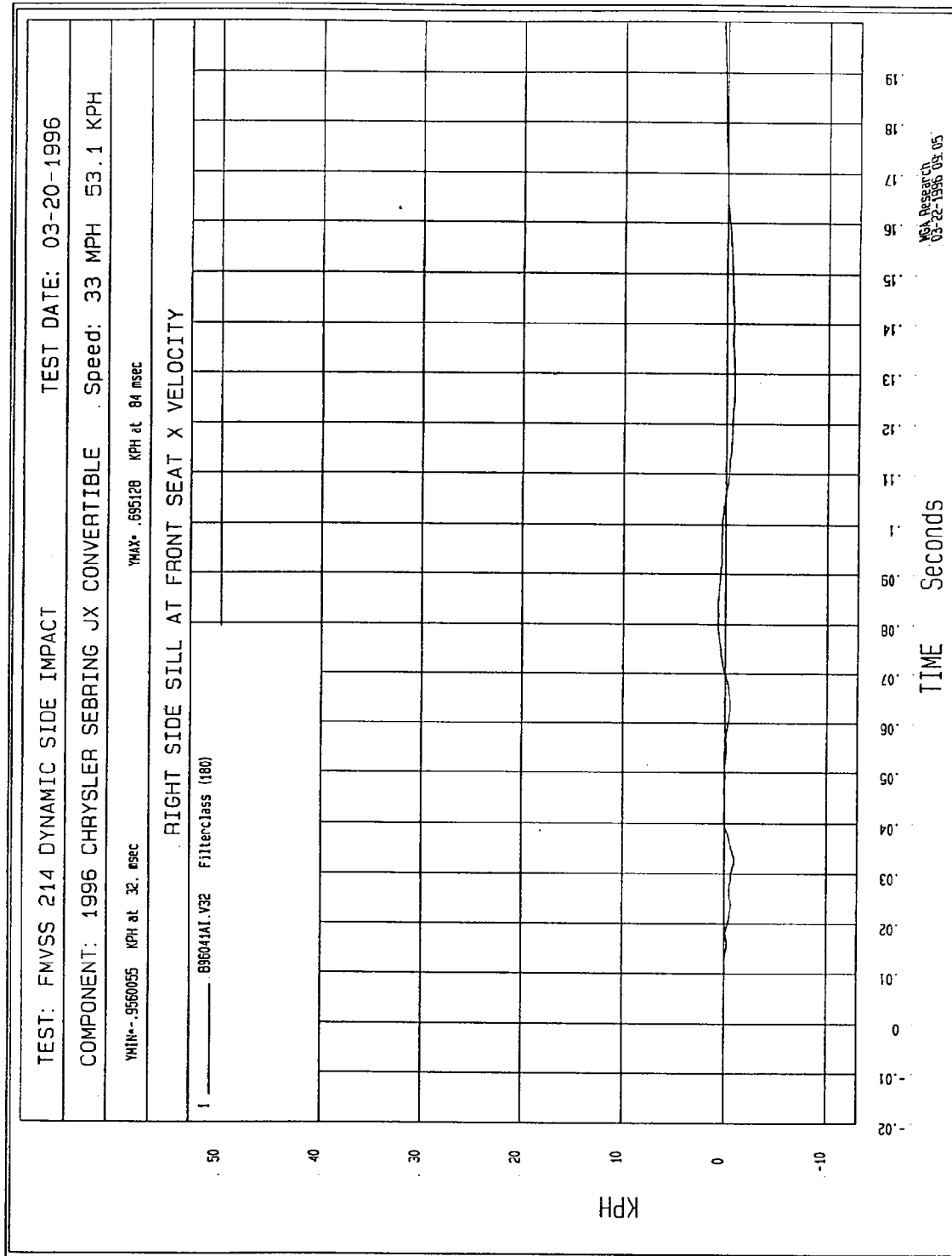


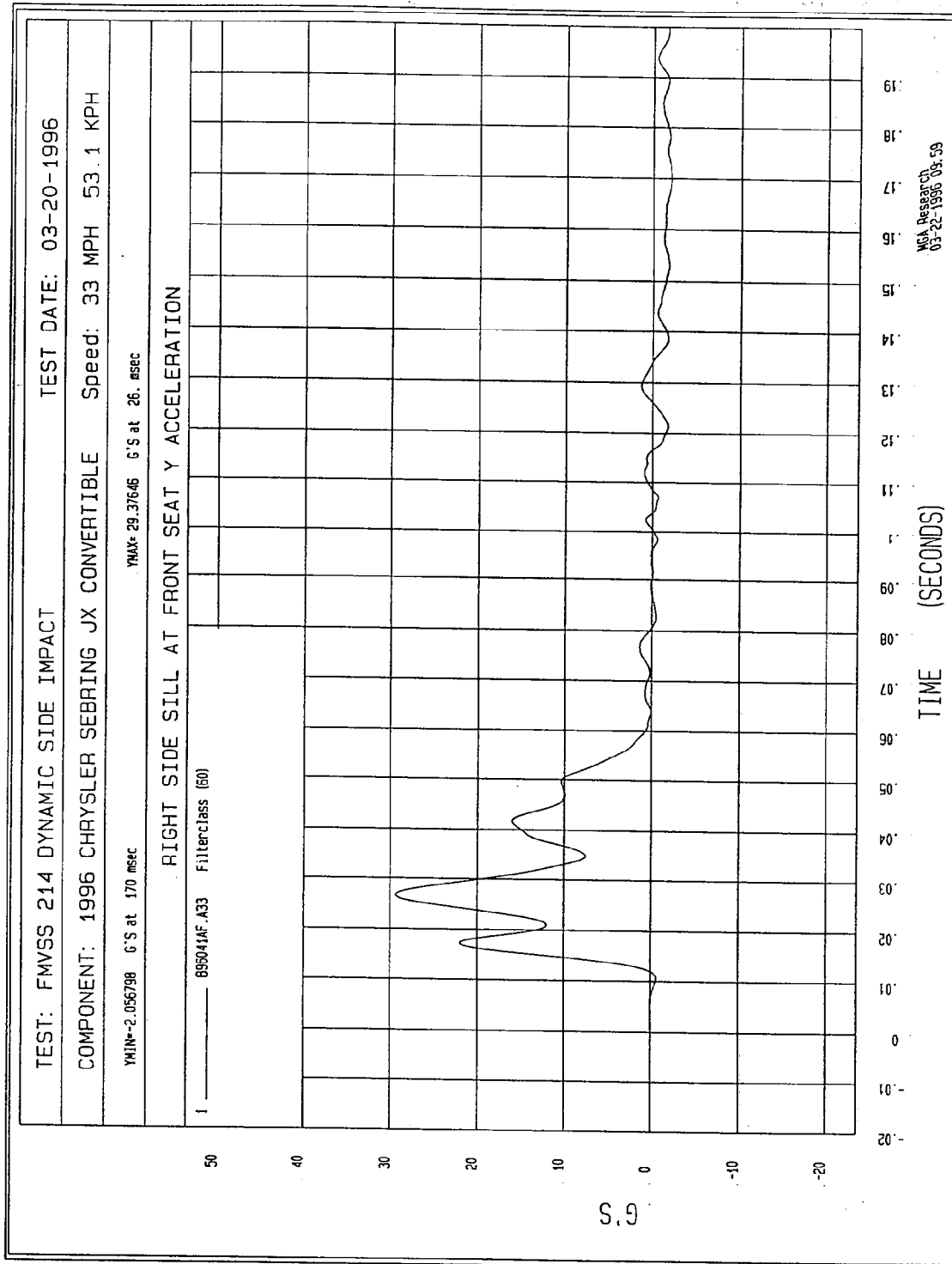


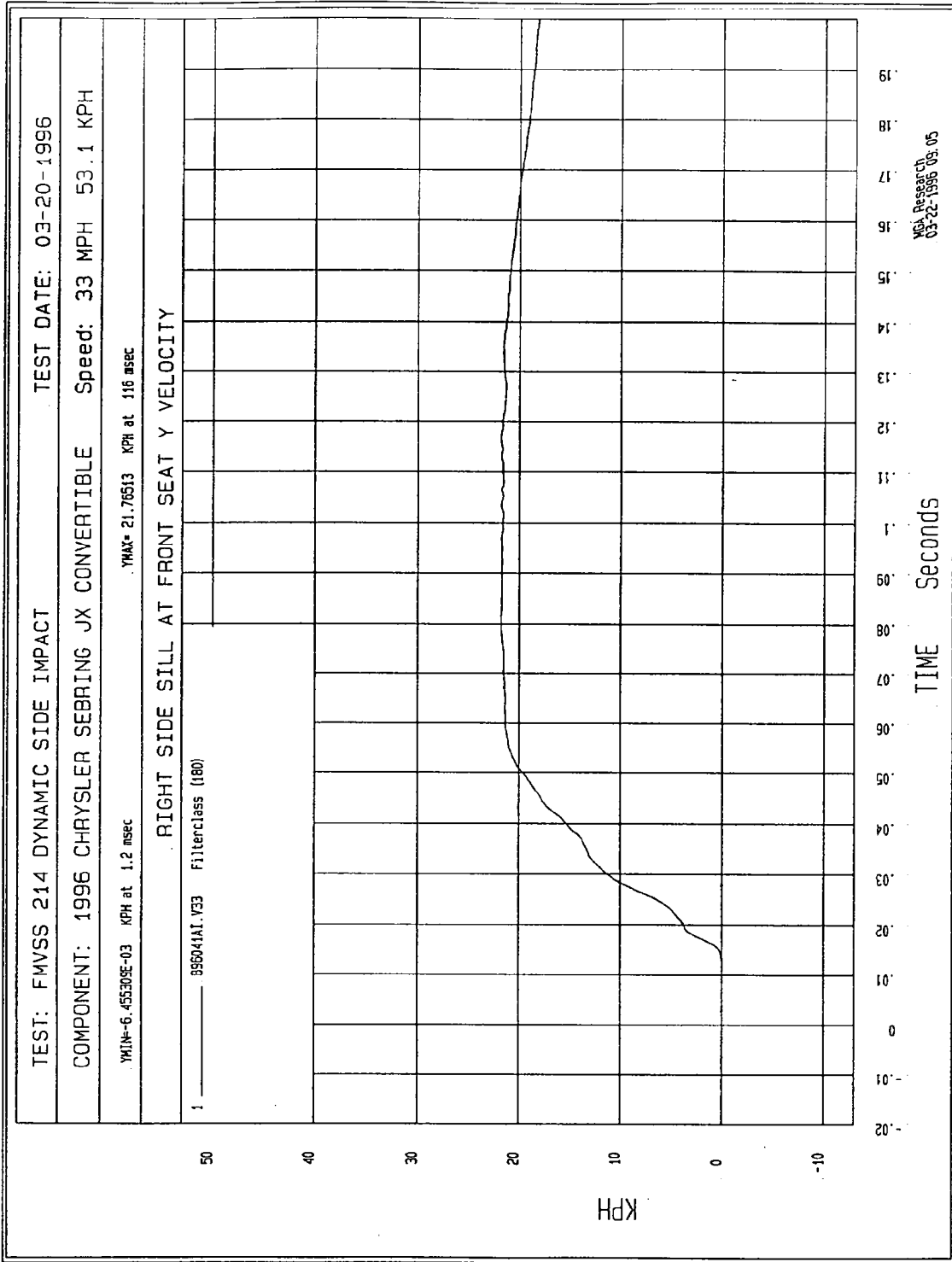


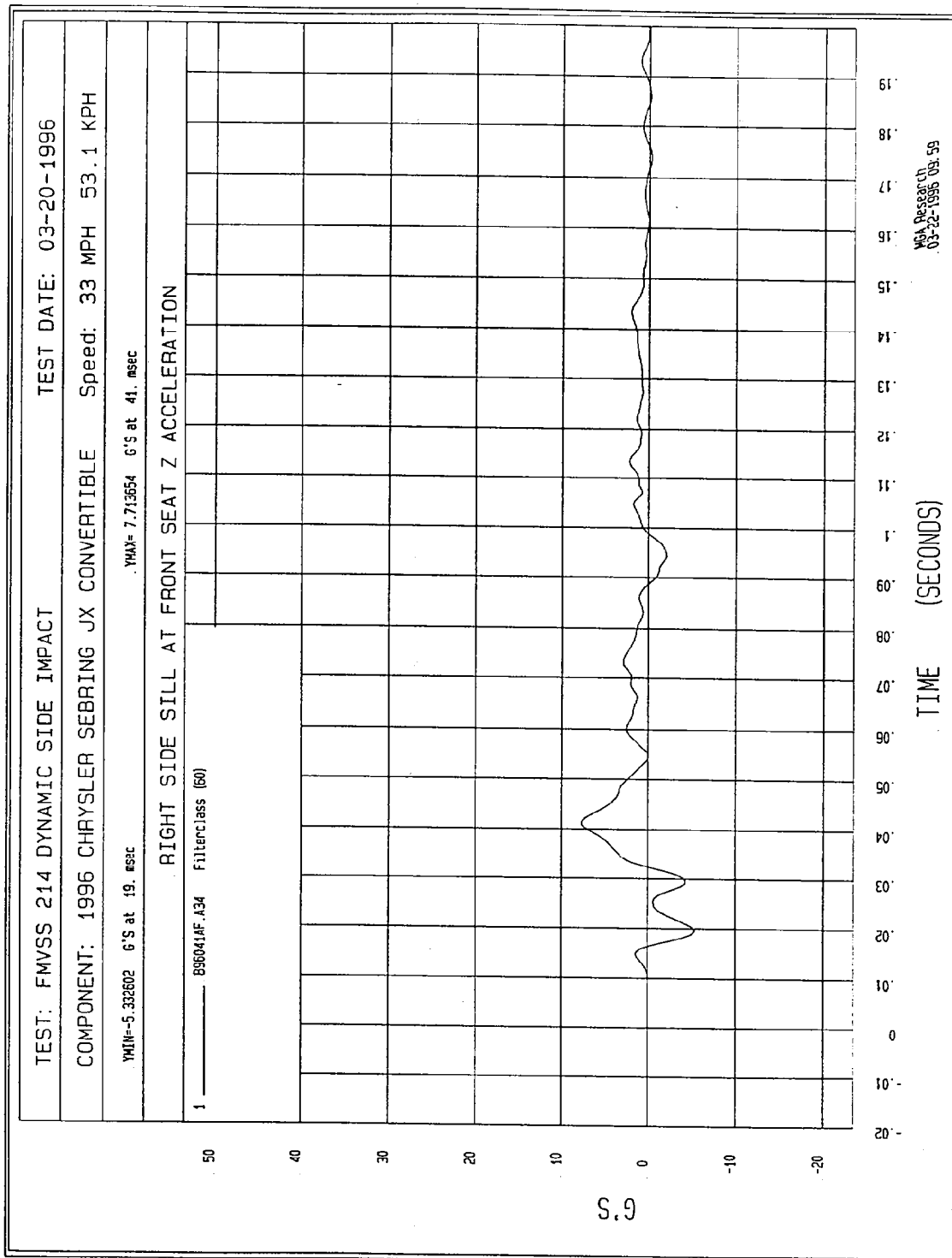










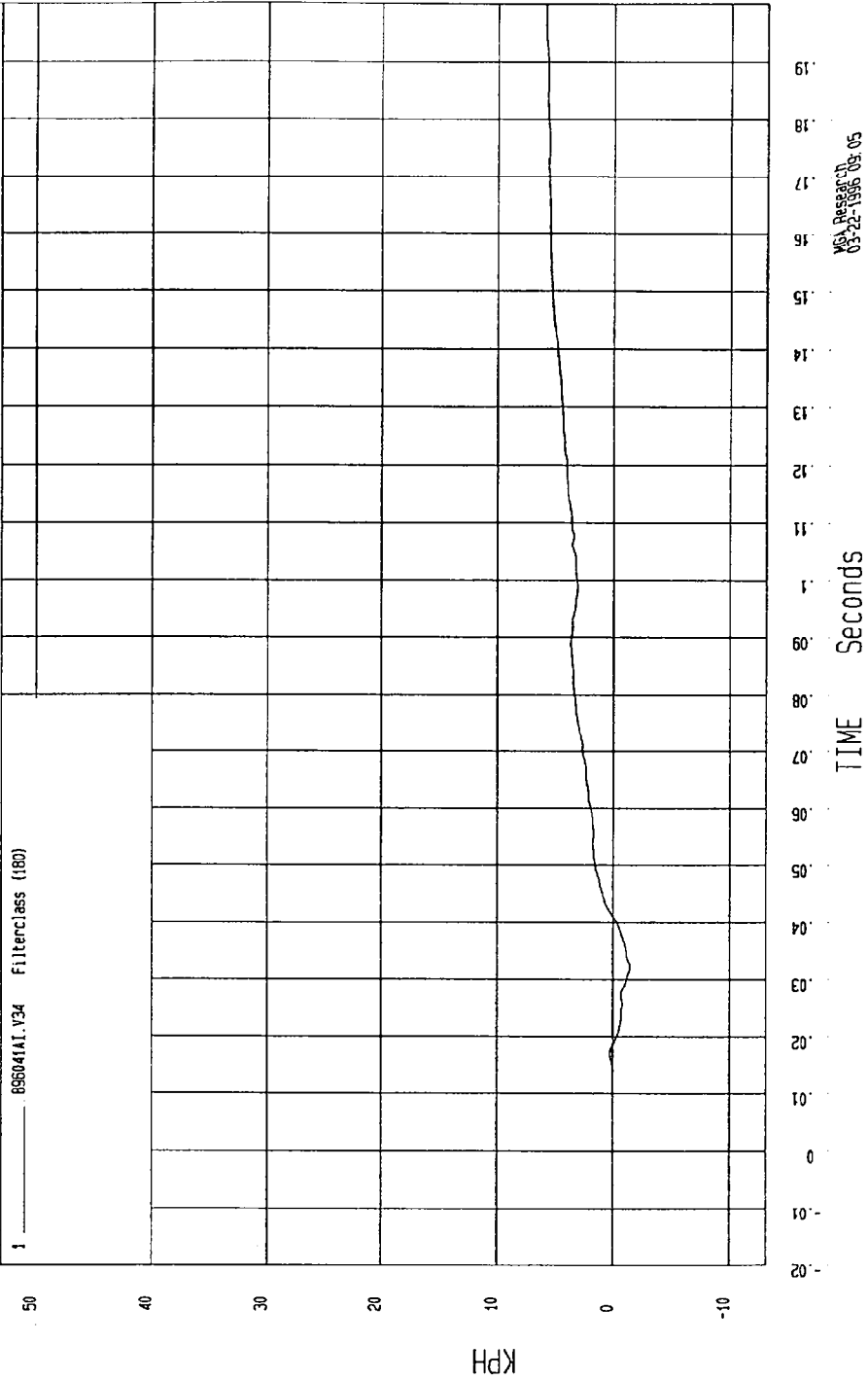


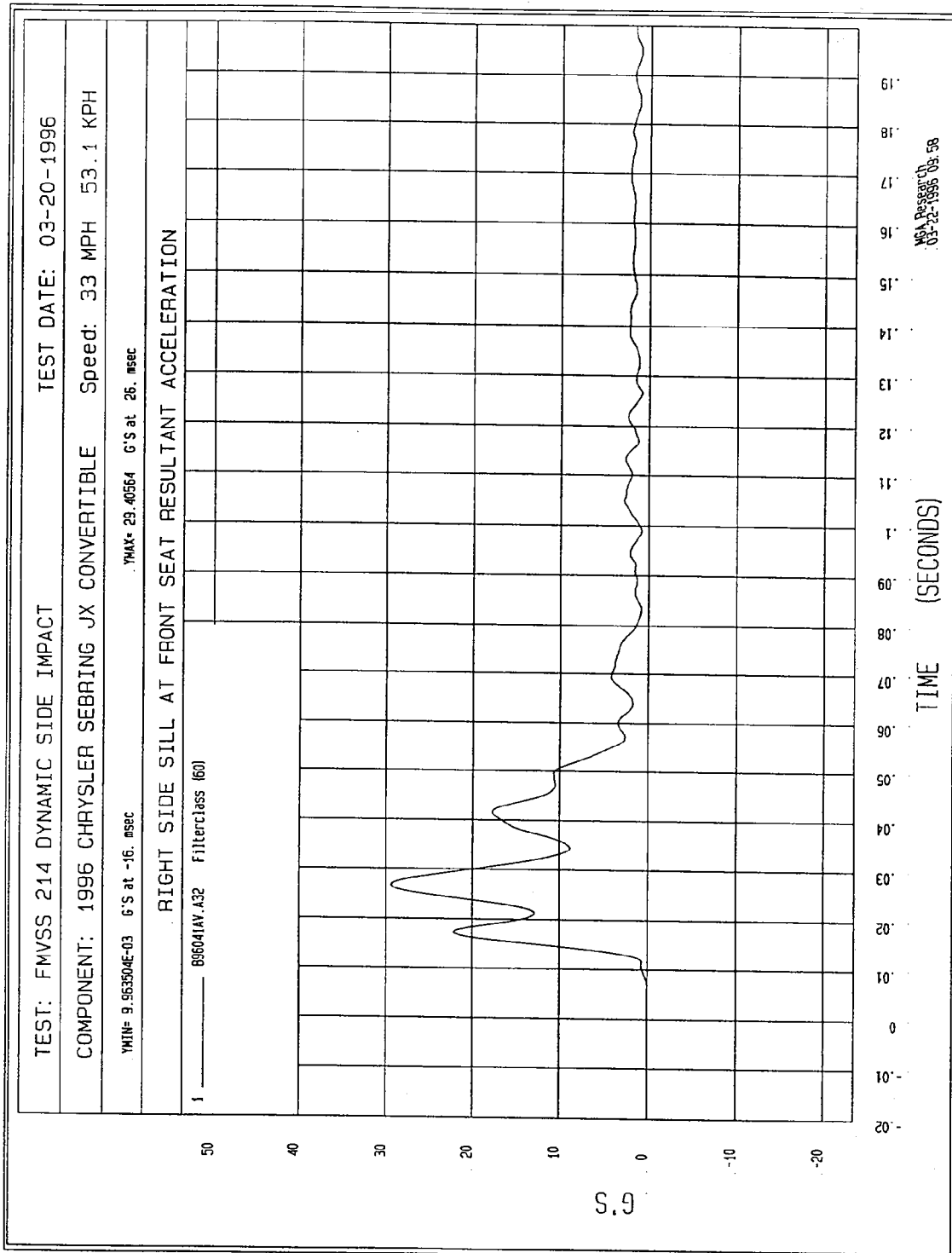
TEST: FMVSS 214 DYNAMIC SIDE IMPACT TEST DATE: 03-20-1996

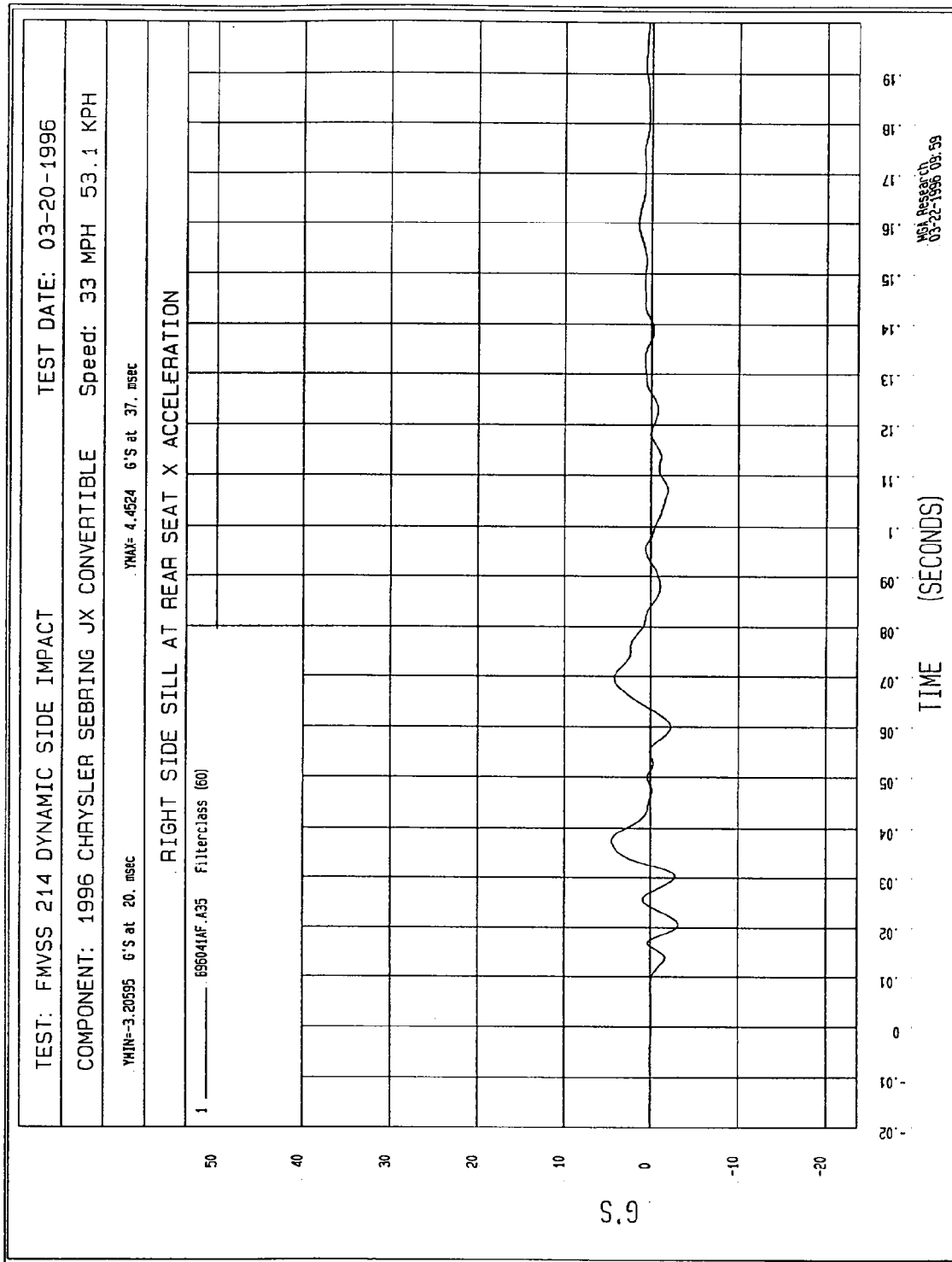
COMPONENT: 1996 CHRYSLER SEBRING JX CONVERTIBLE Speed: 33 MPH 53.1 KPH

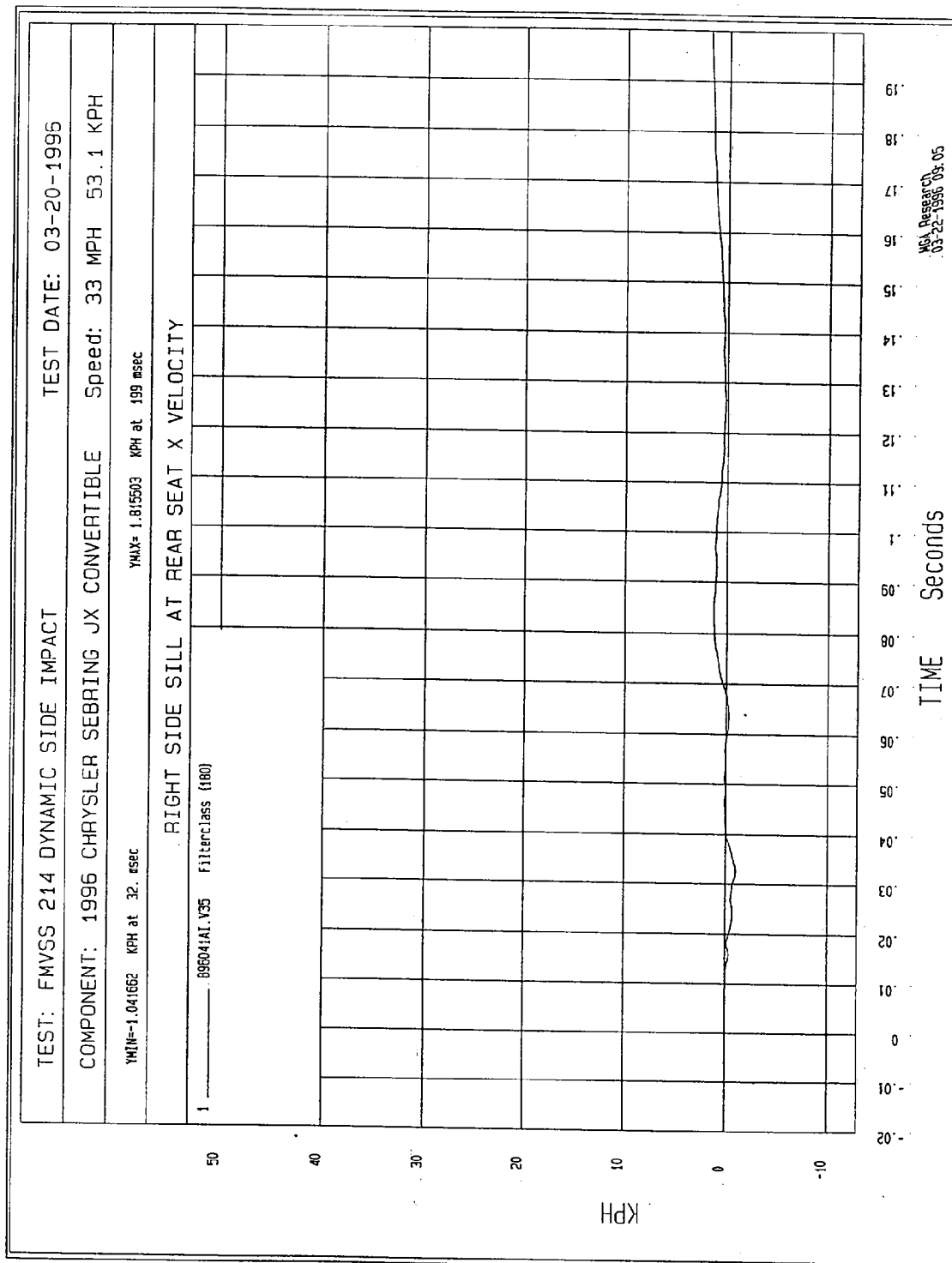
YMIN=-1.485348 KPH at 32. msec YMAX= 5.832369 KPH at 199 msec

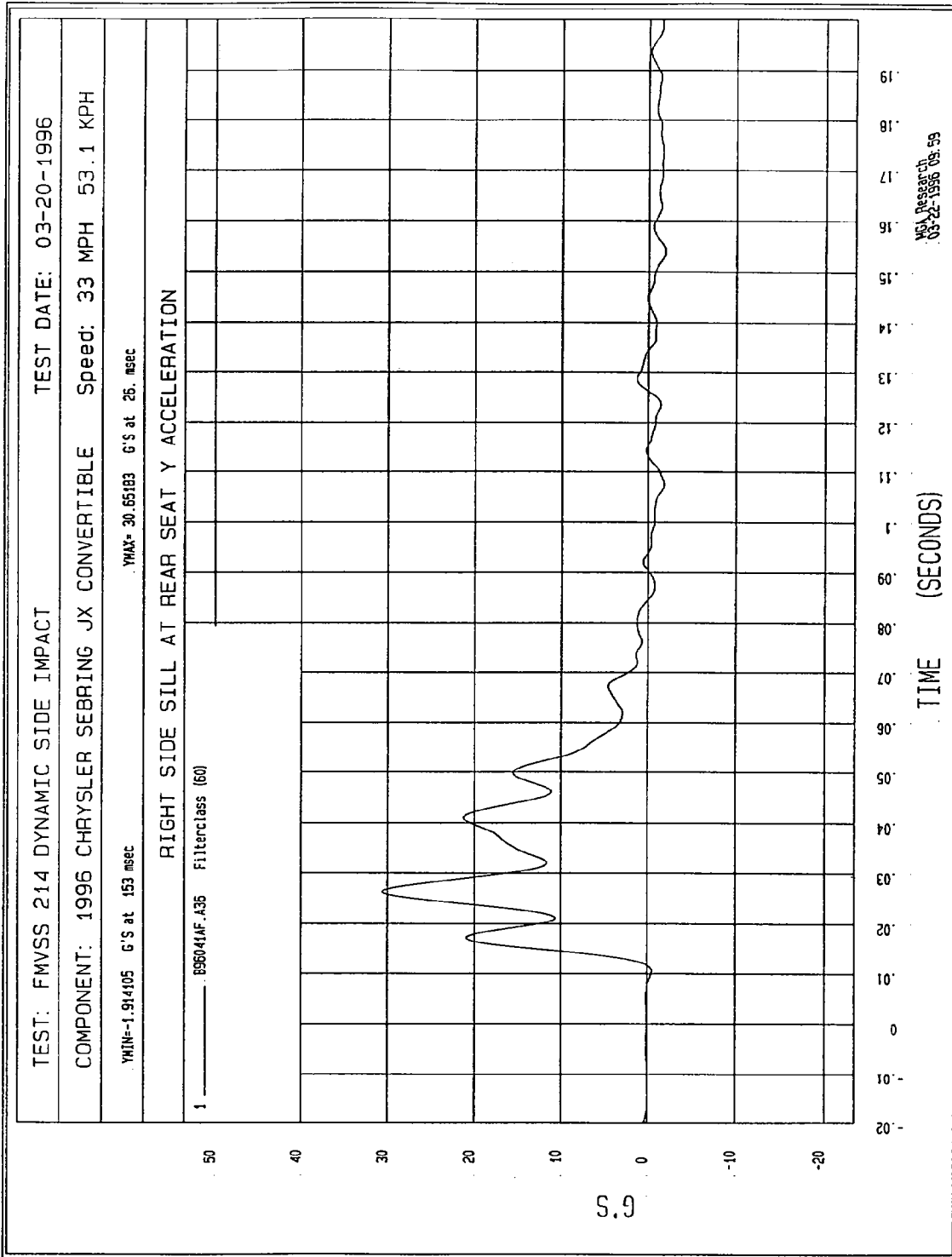
RIGHT SIDE SILL AT FRONT SEAT Z VELOCITY

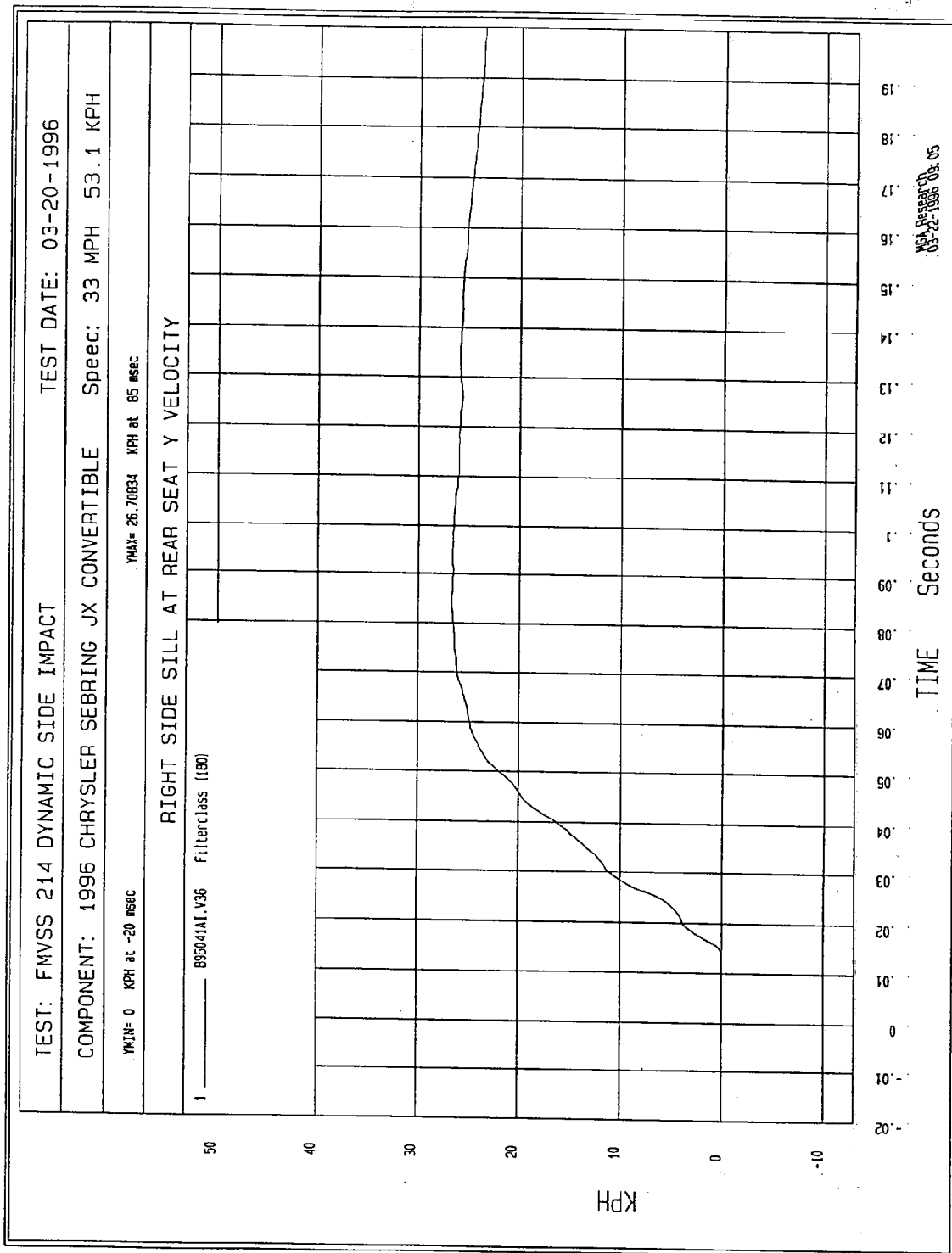


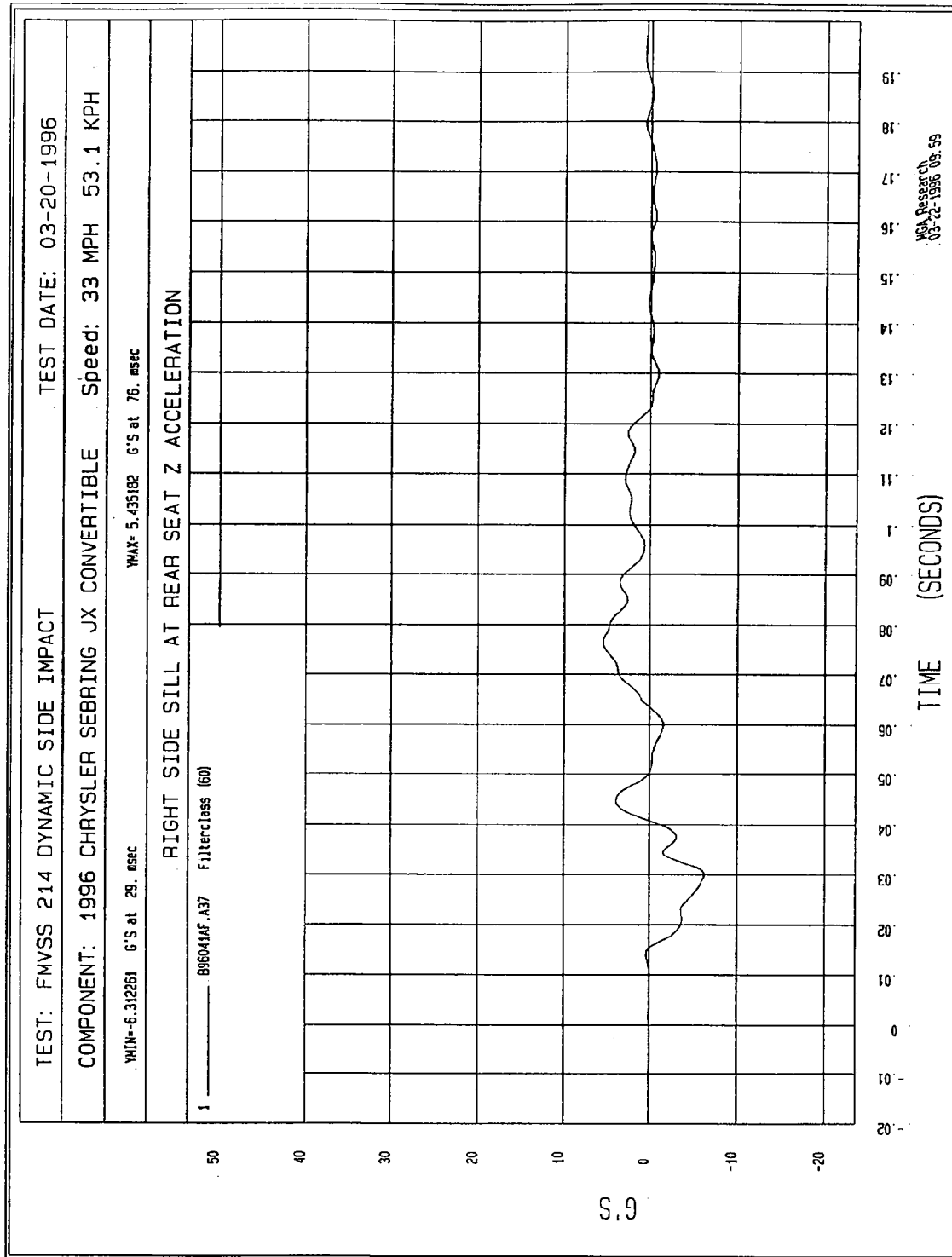


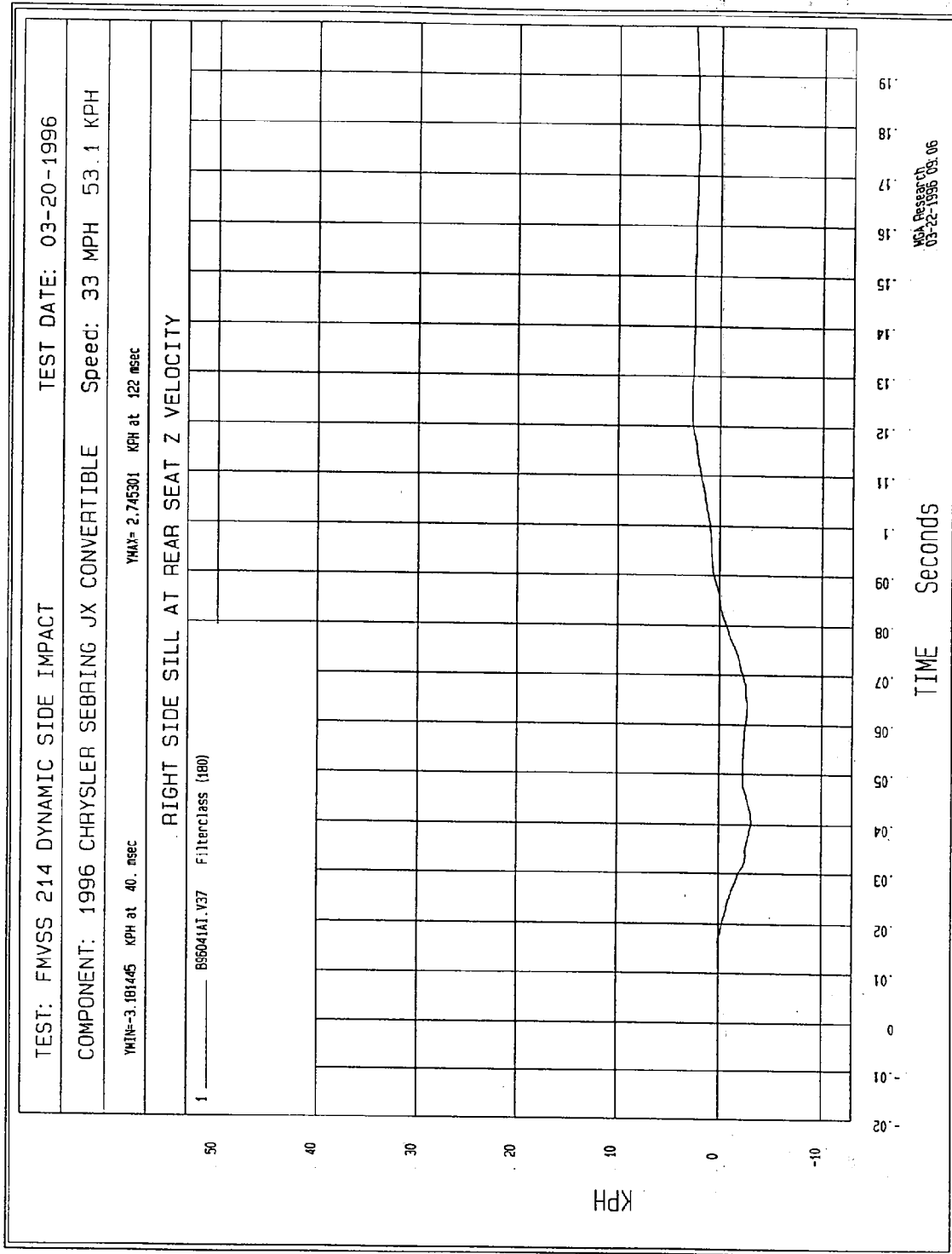


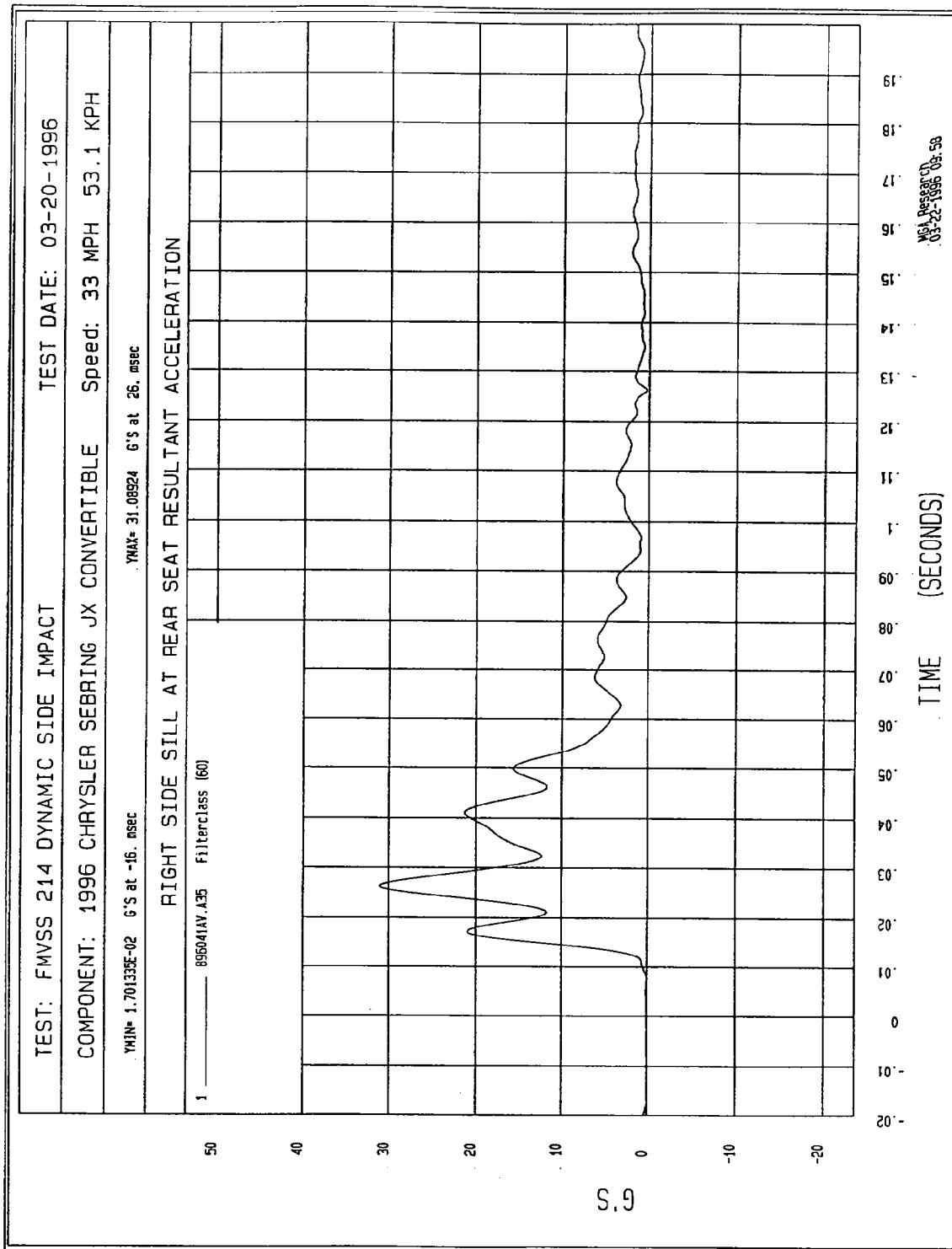


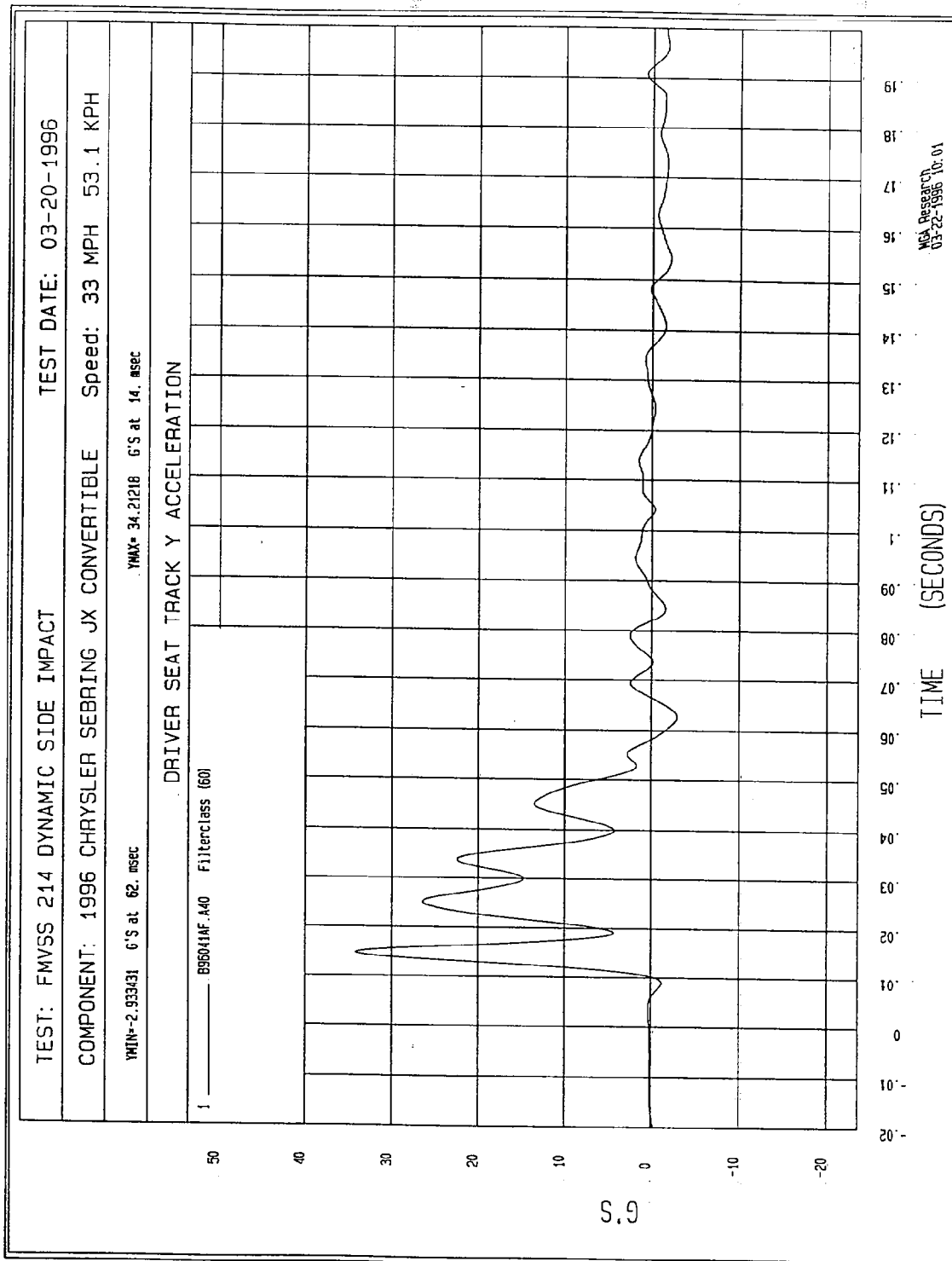


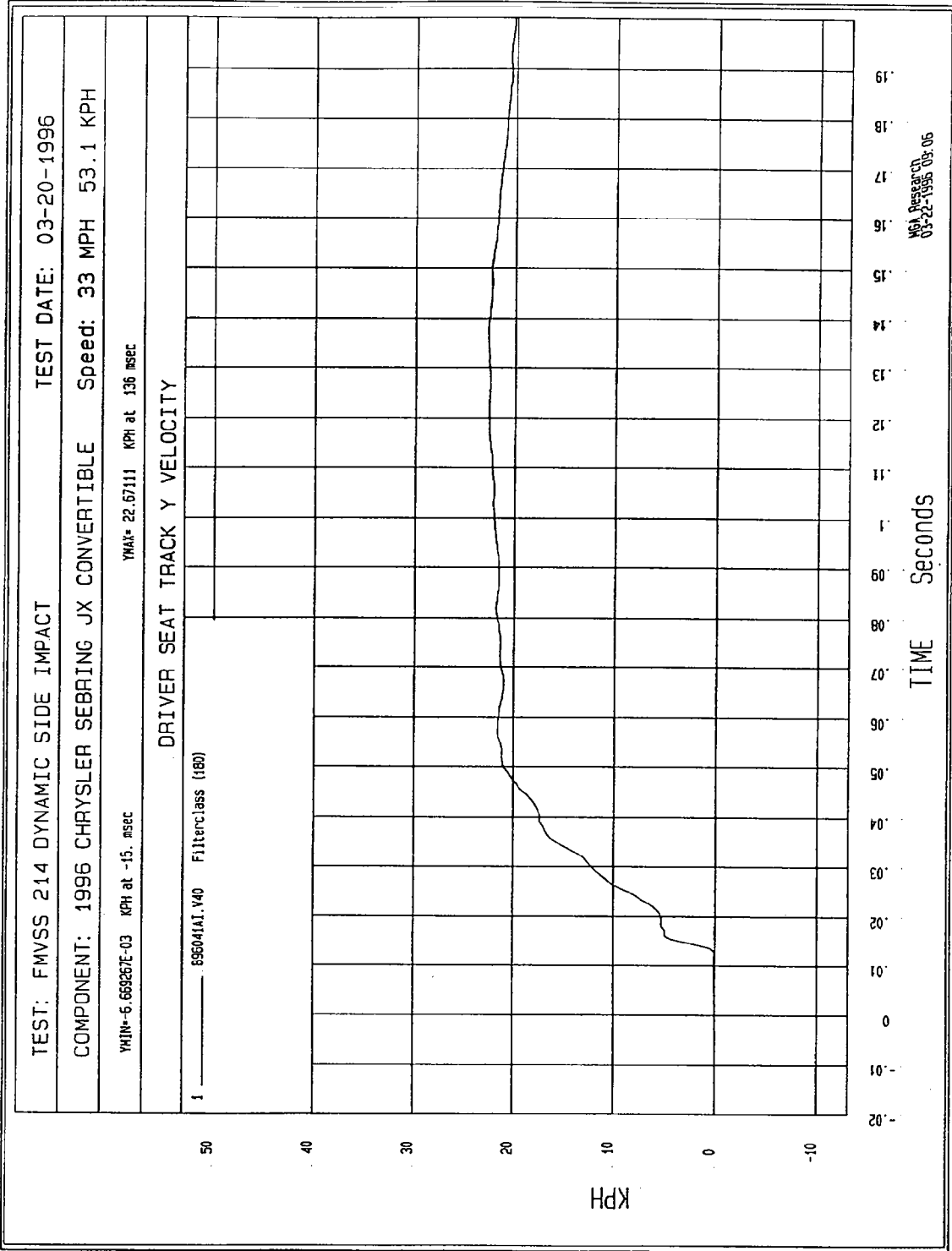


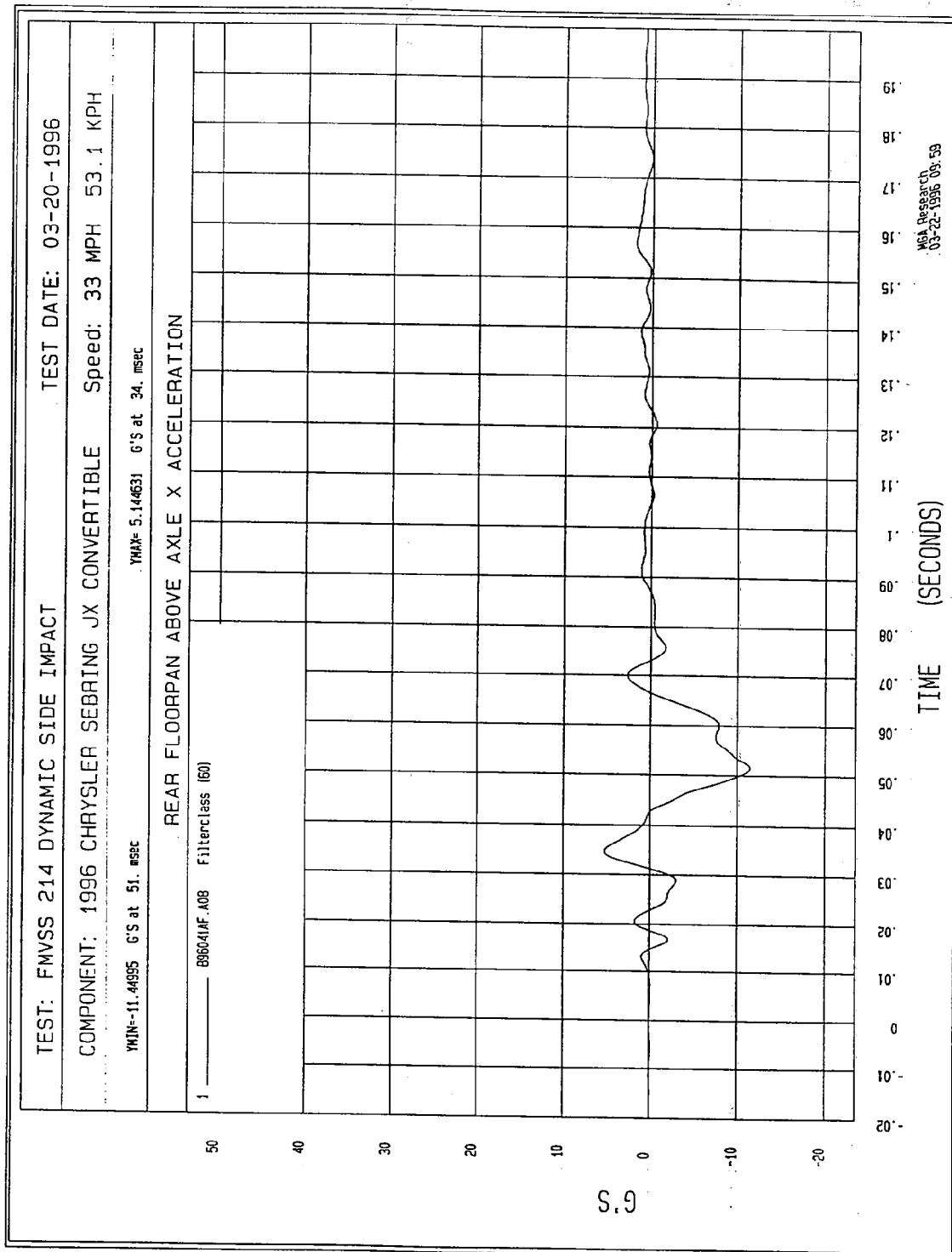


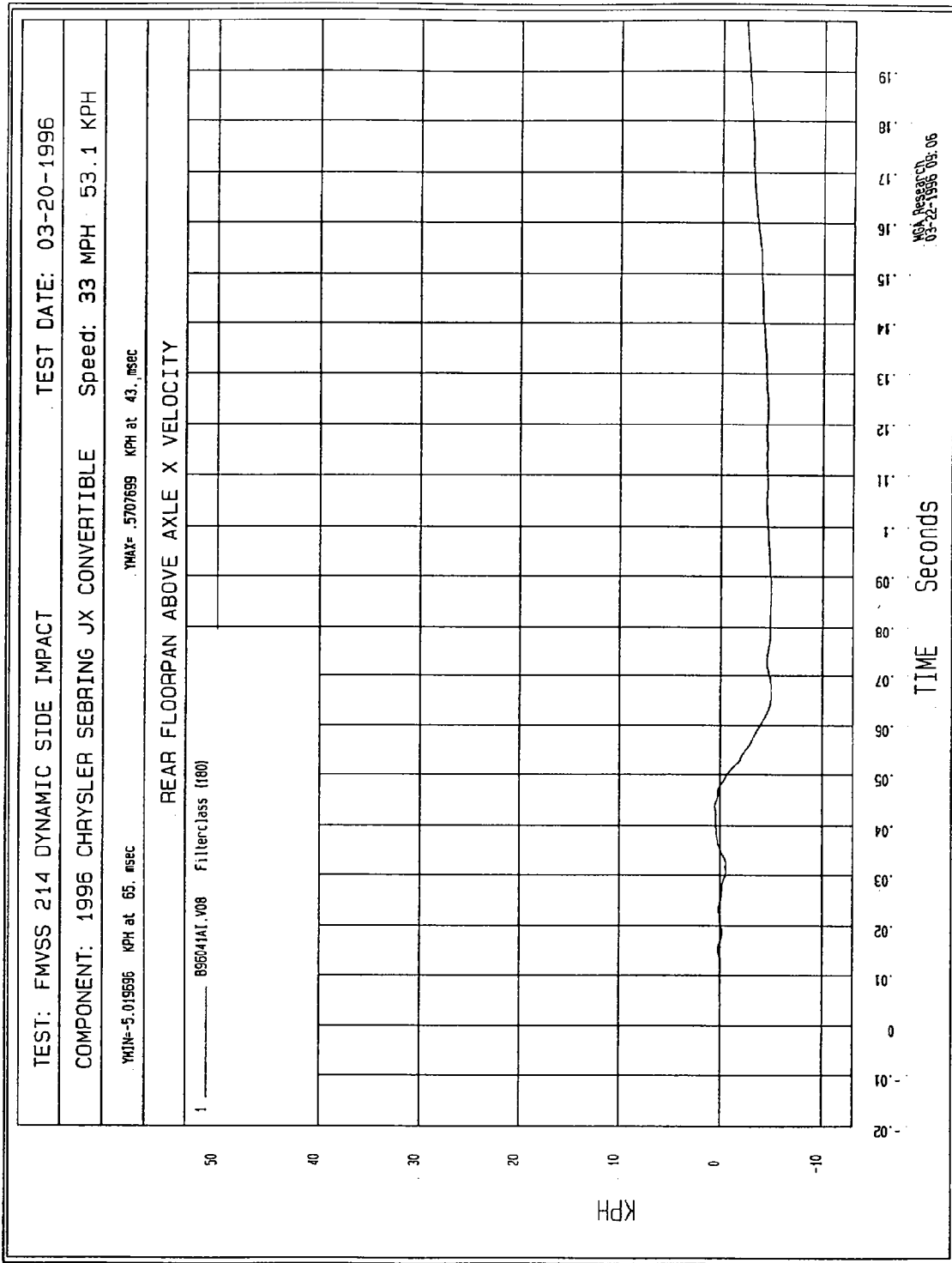


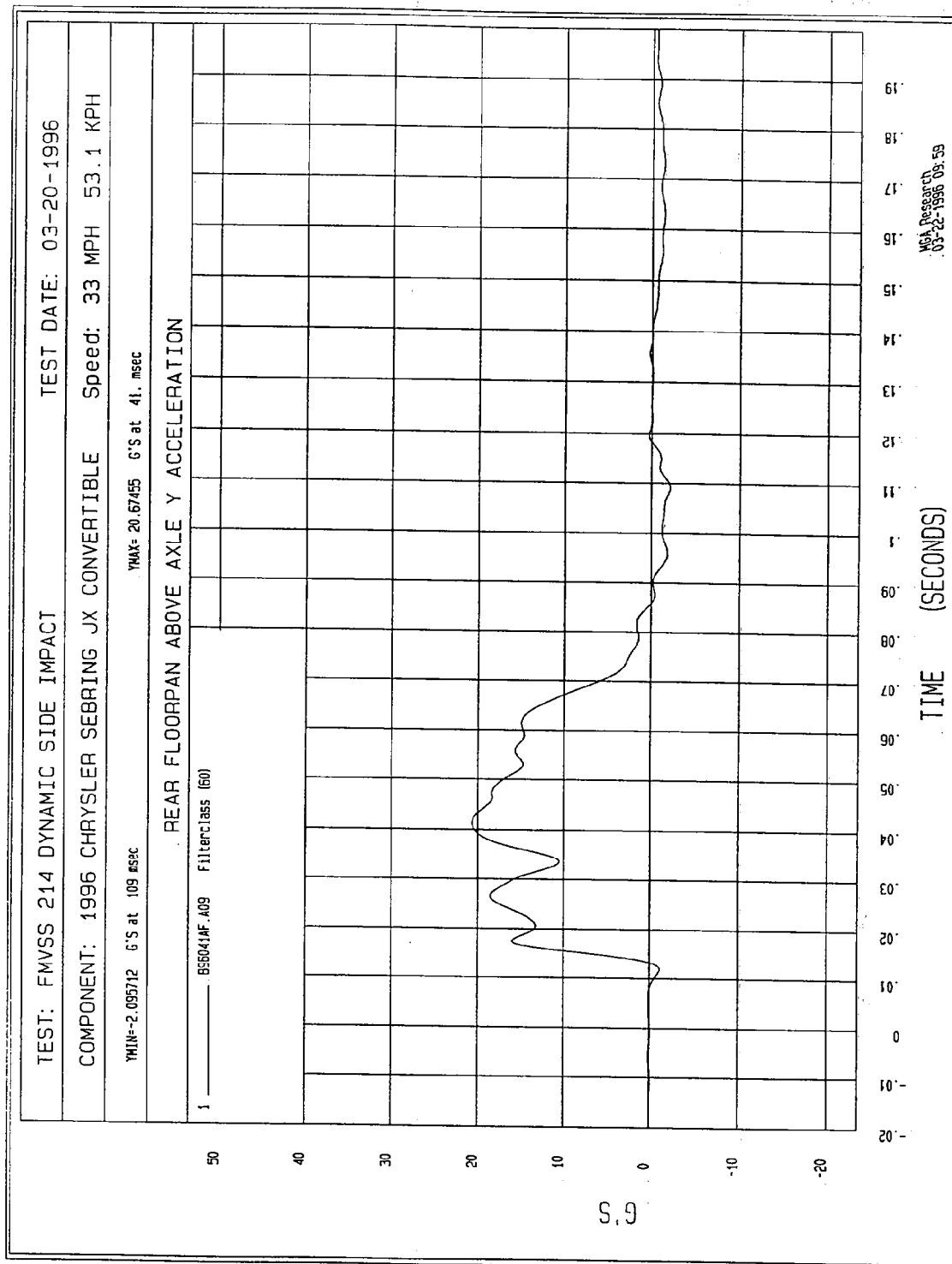


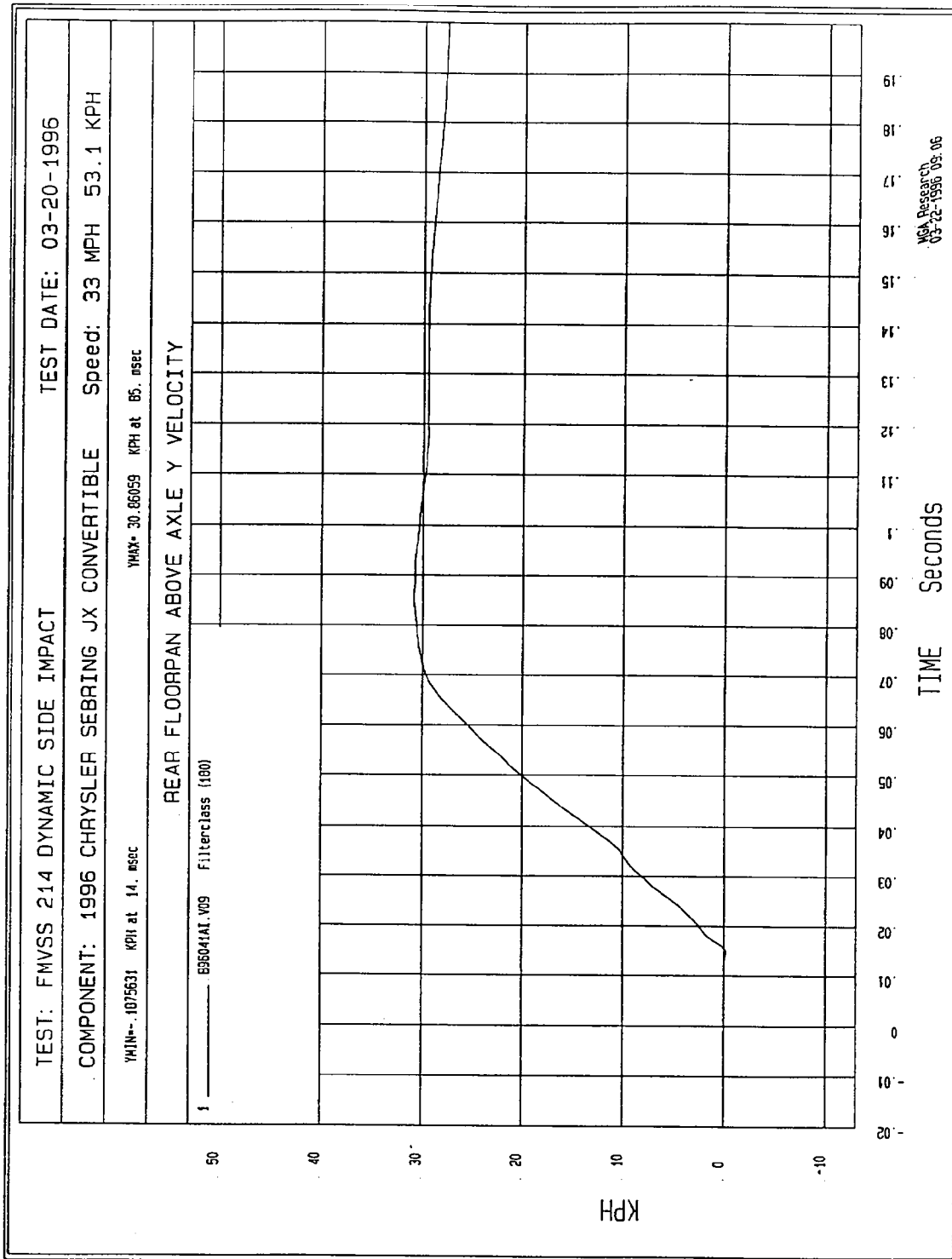


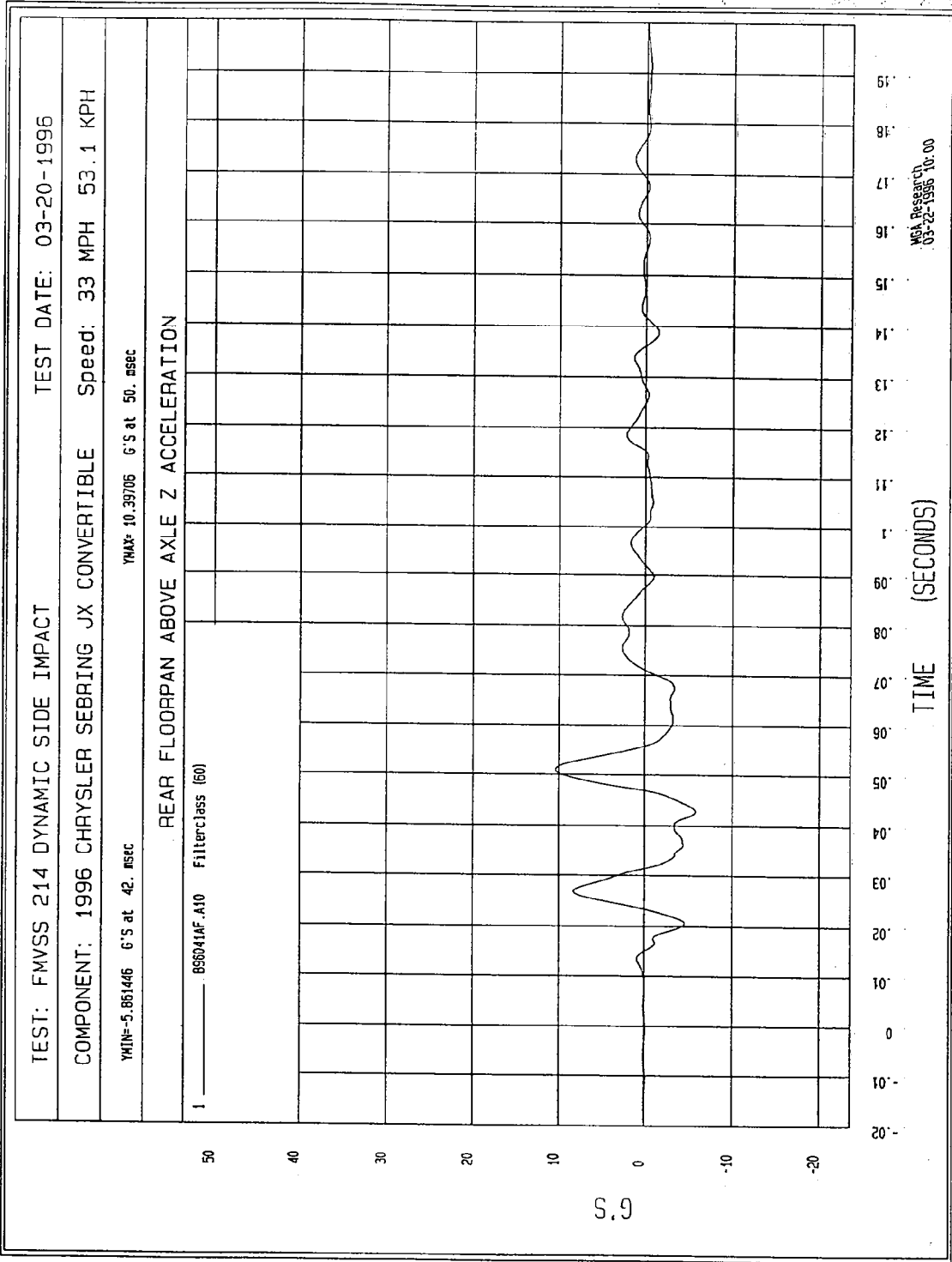


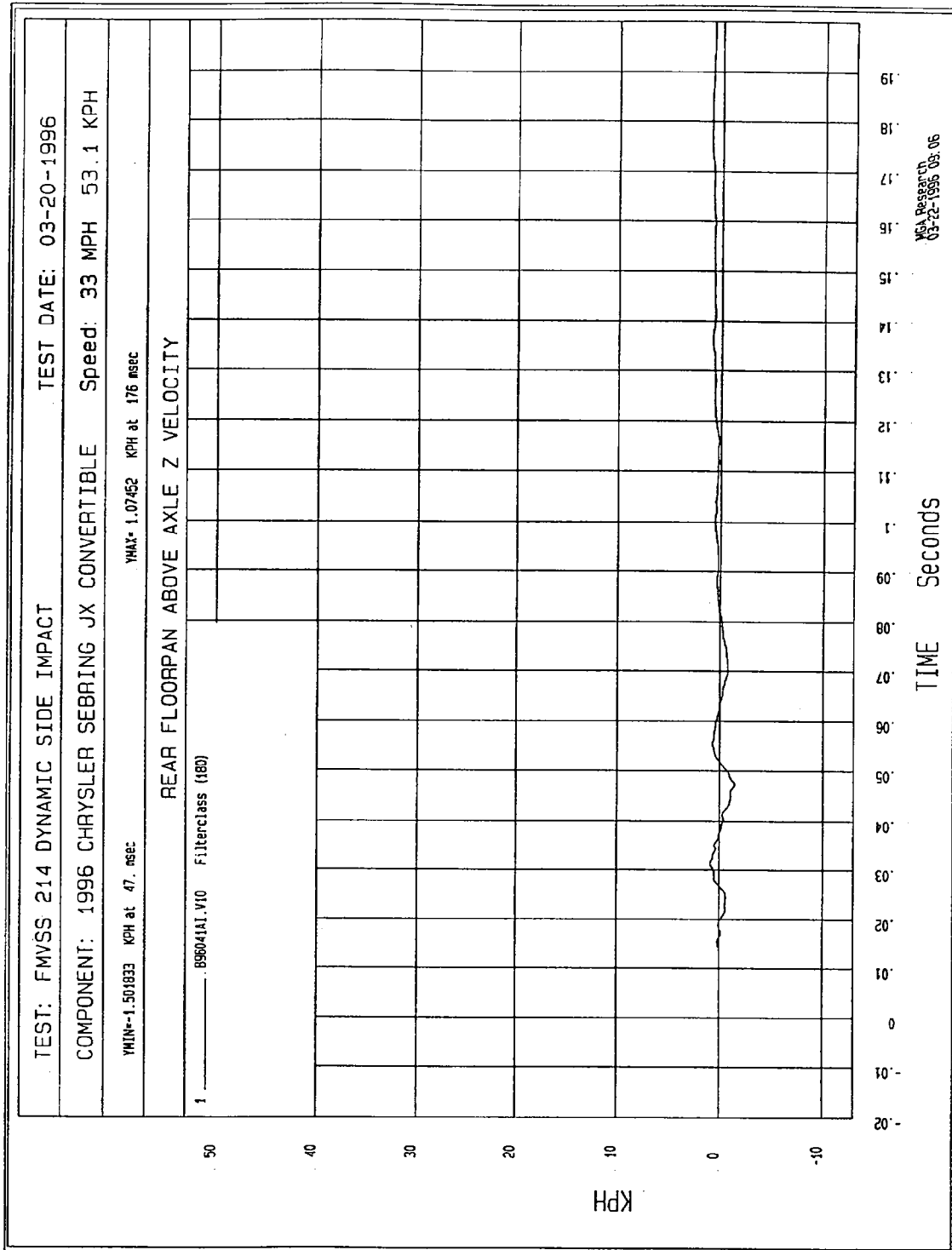


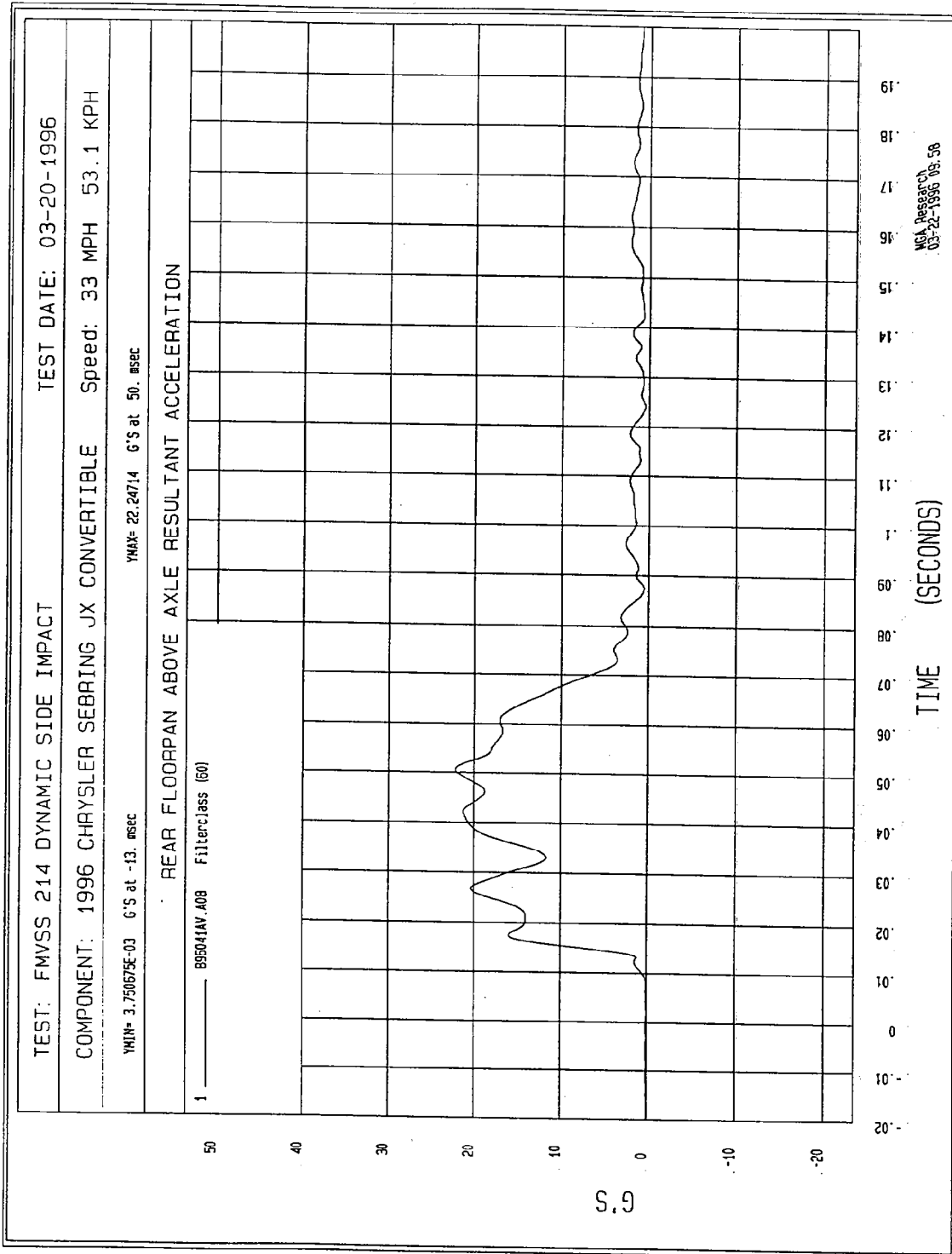


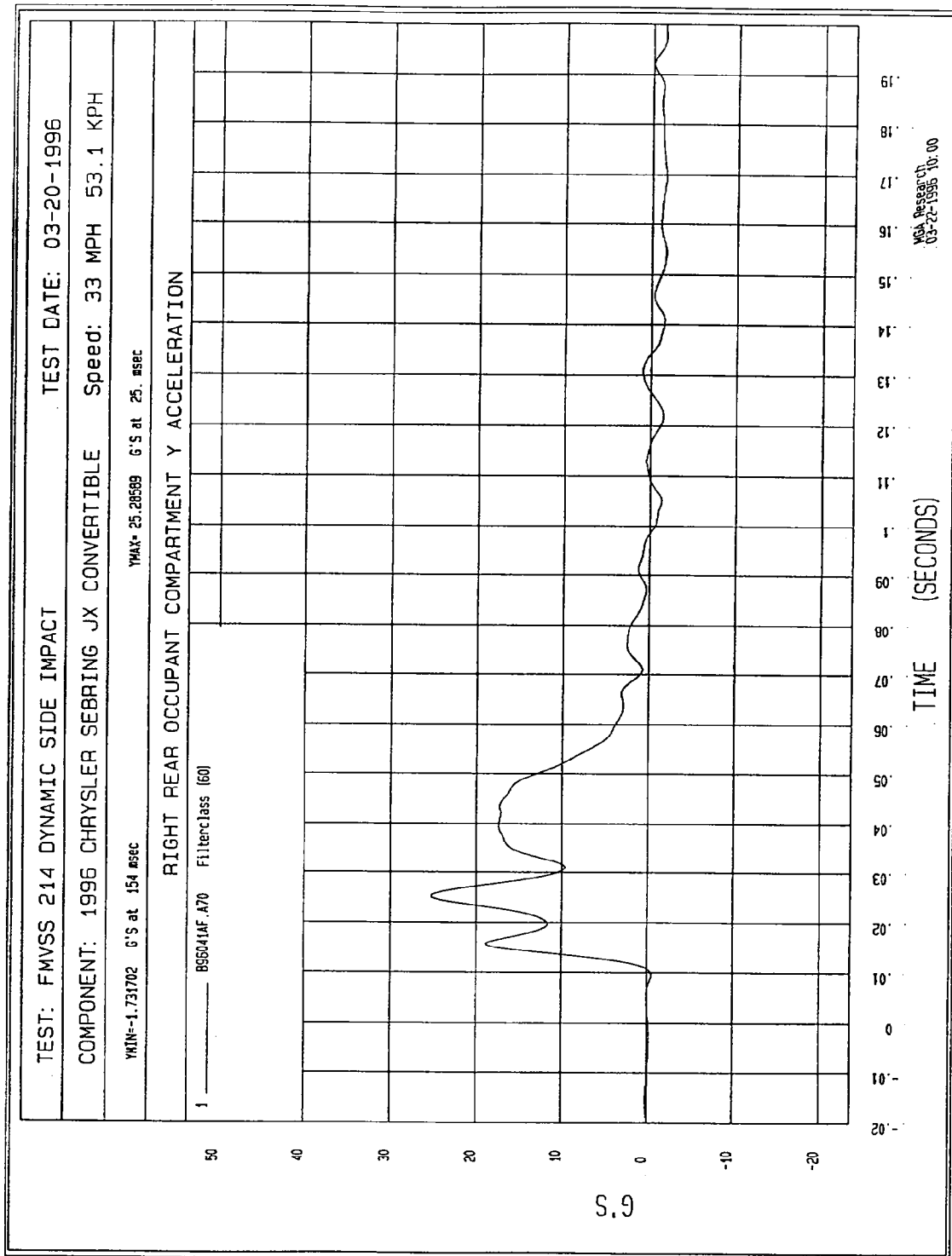


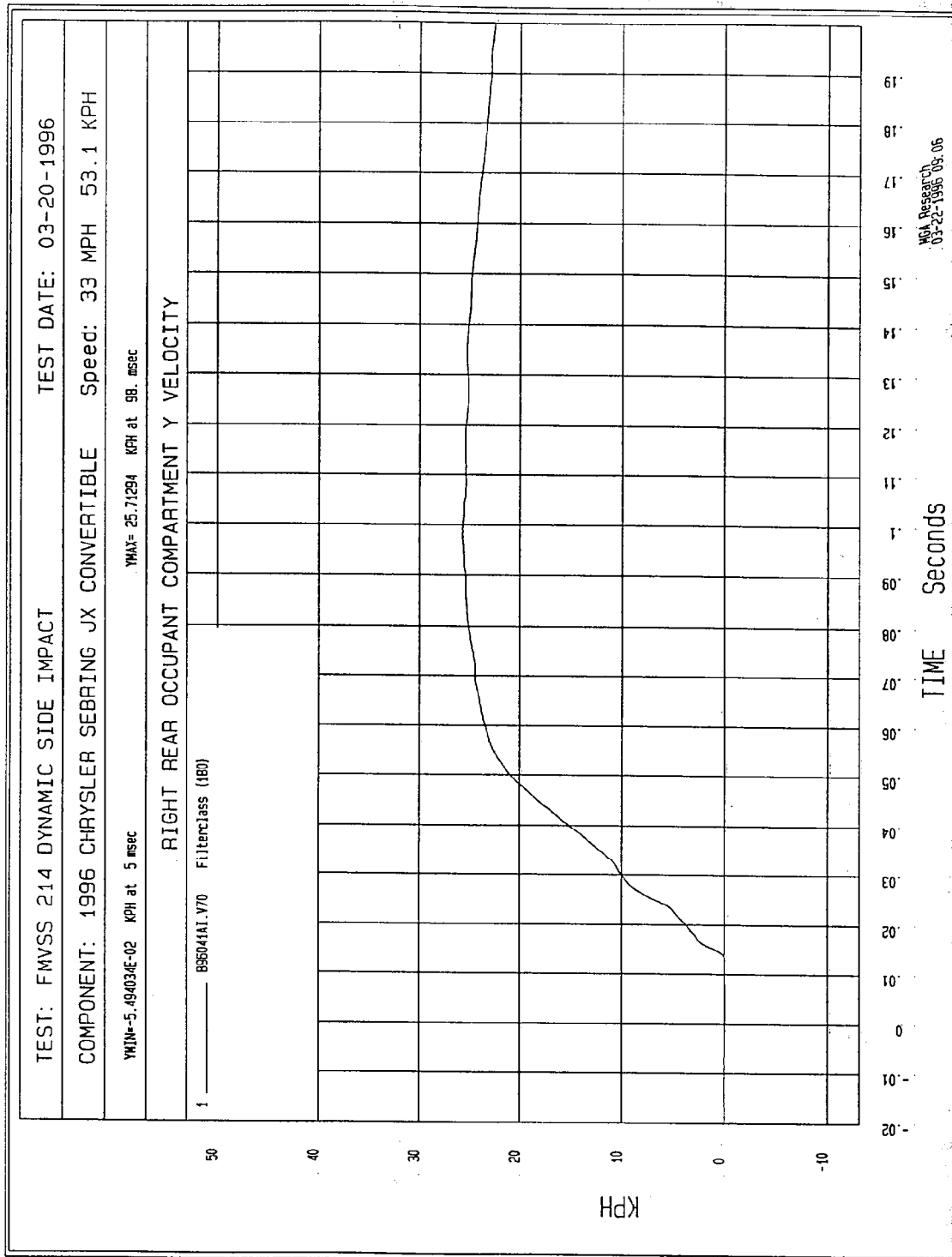










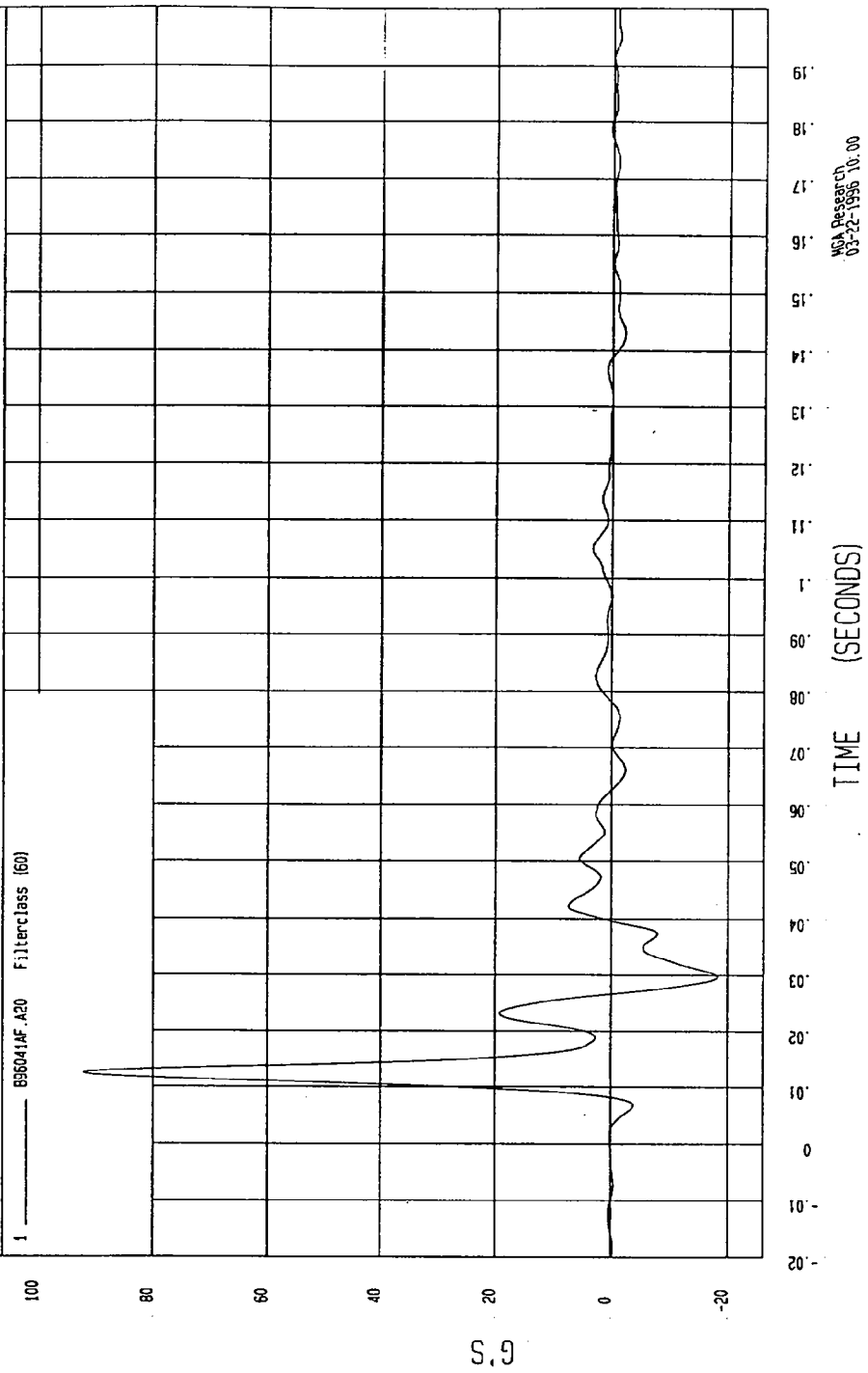


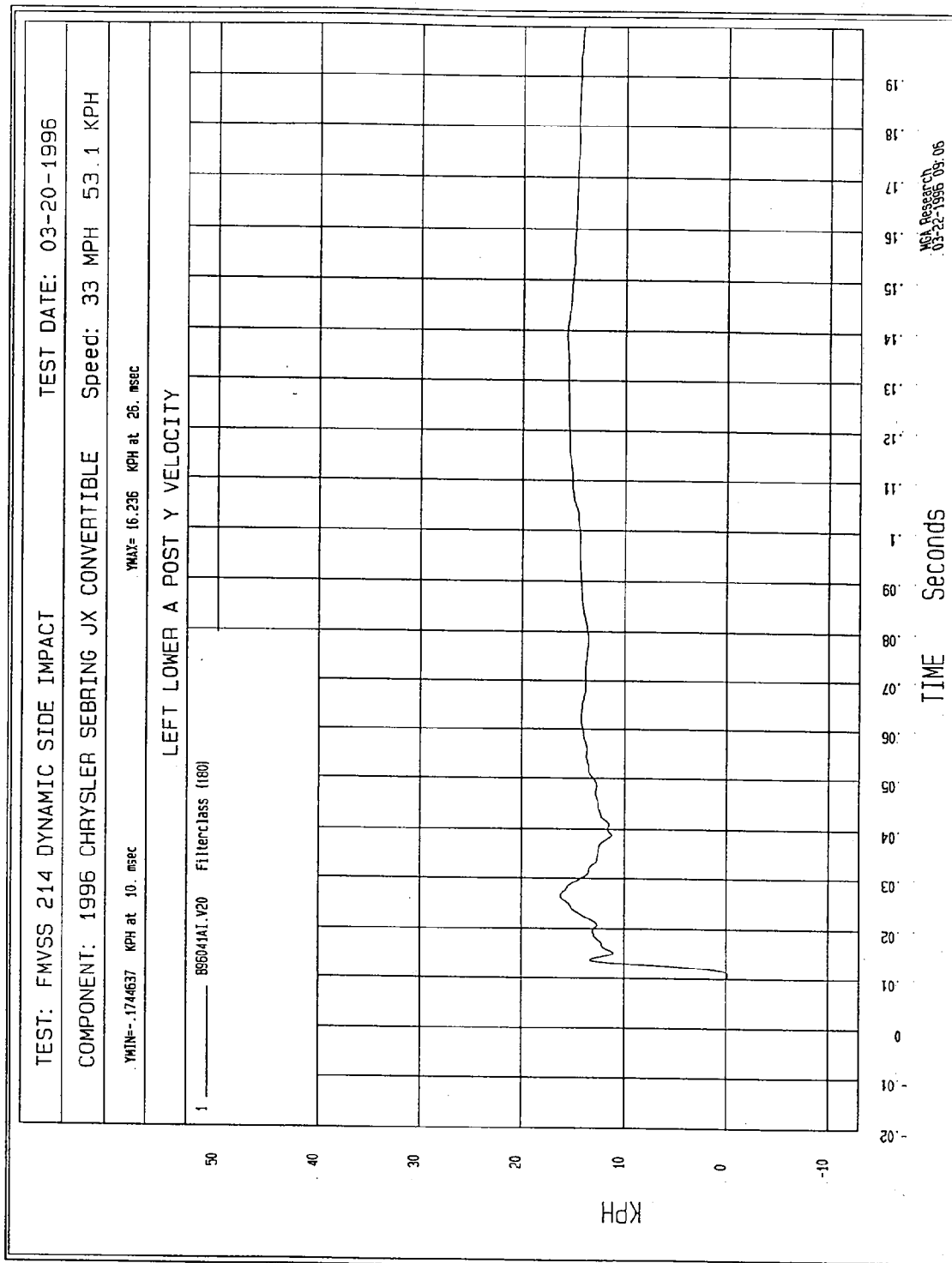
TEST: FMVSS 214 DYNAMIC SIDE IMPACT

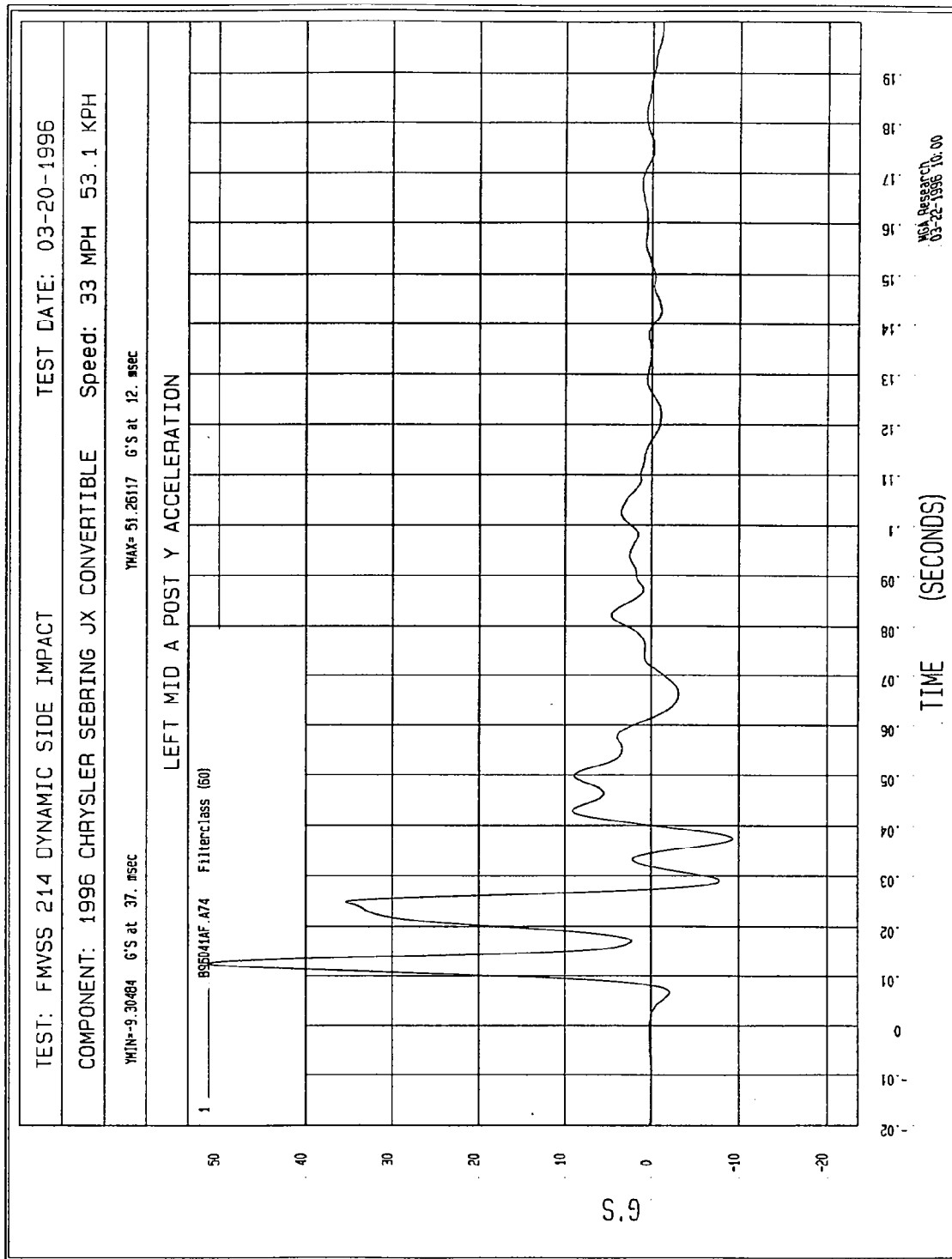
COMPONENT: 1996 CHRYSLER SEBRING JX CONVERTIBLE Speed: 33 MPH 53.1 KPH

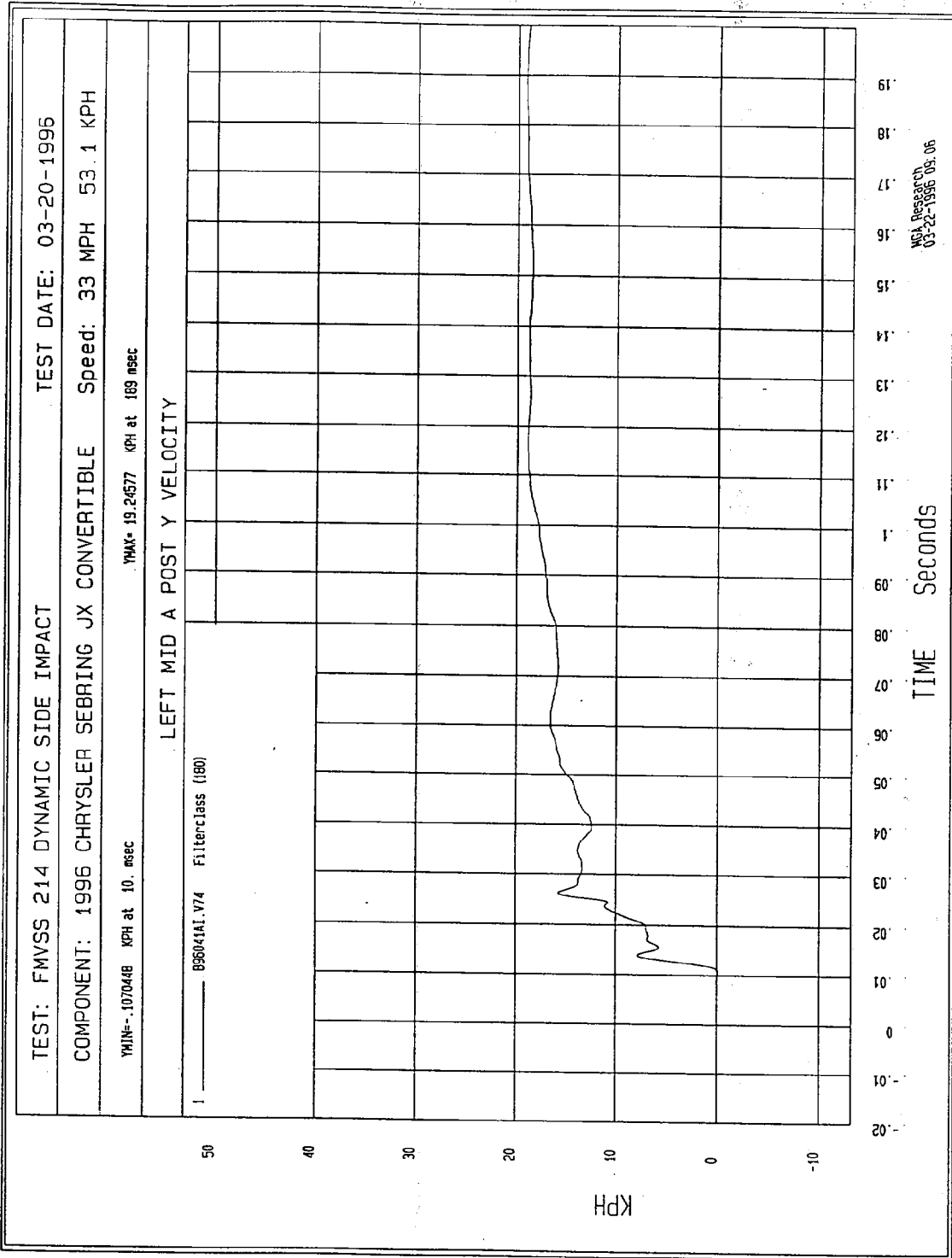
YMIN=-18.28548 G'S at 29. msec
YMAX= 92.0778 G'S at 12. msec

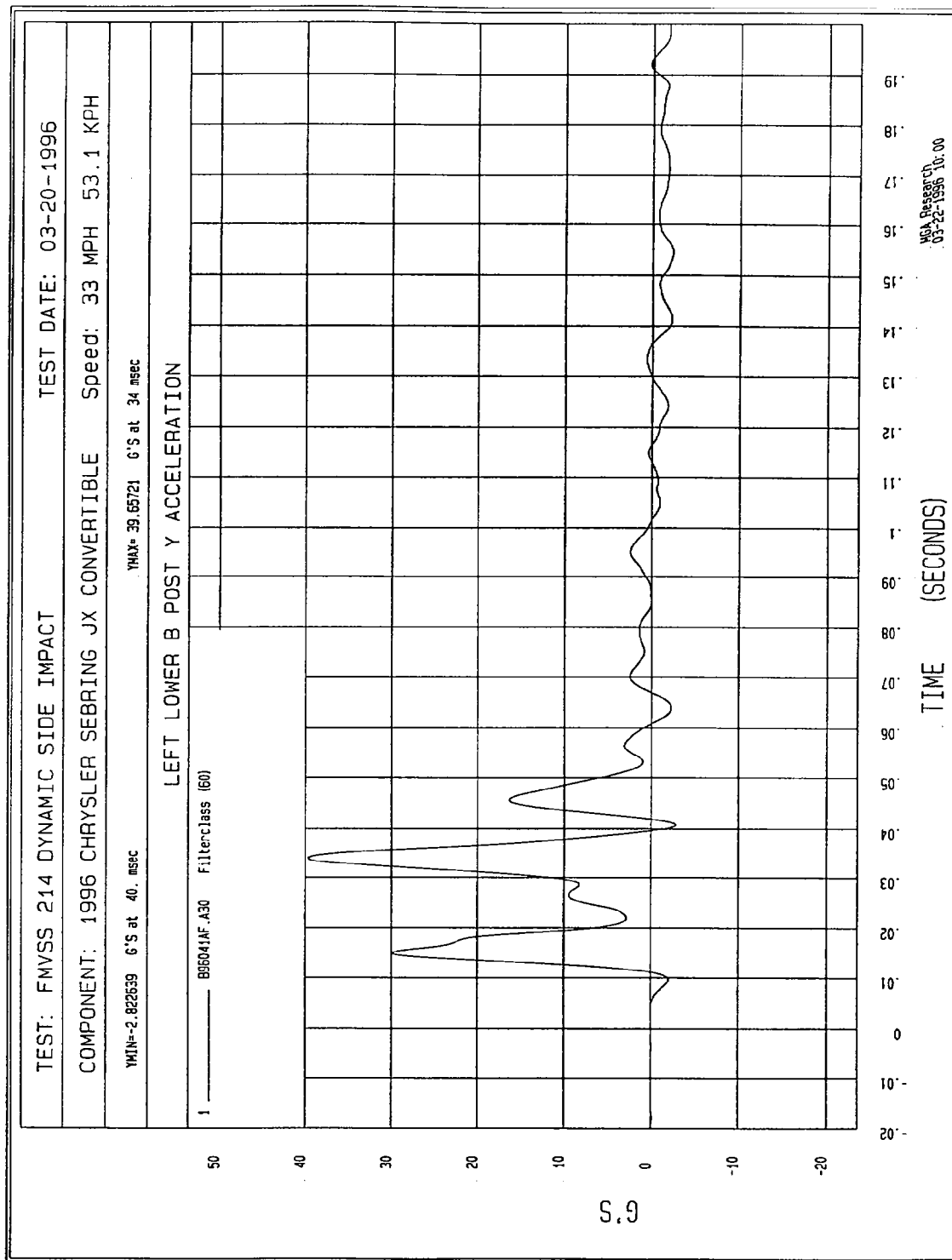
LEFT LOWER A POST Y ACCELERATION

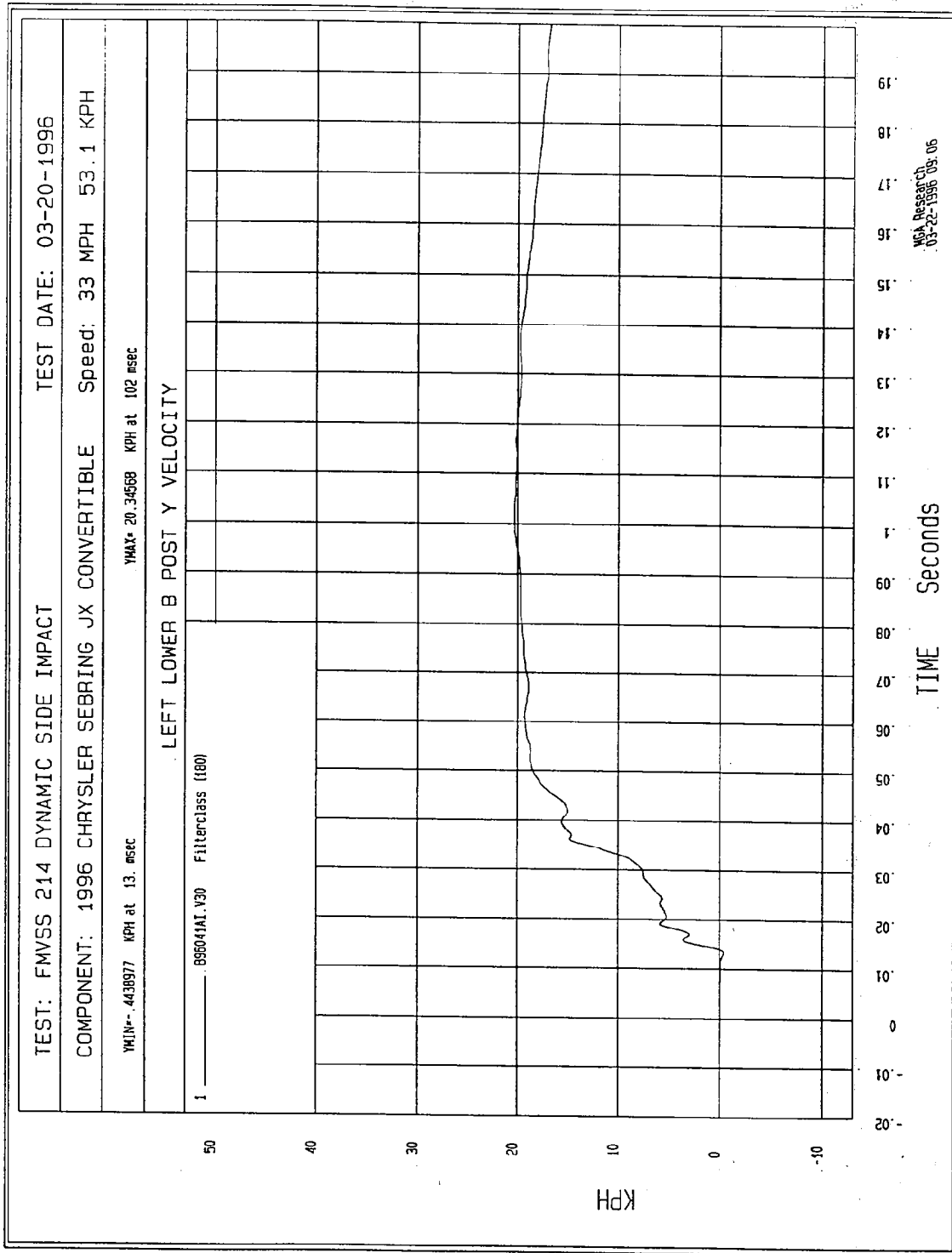


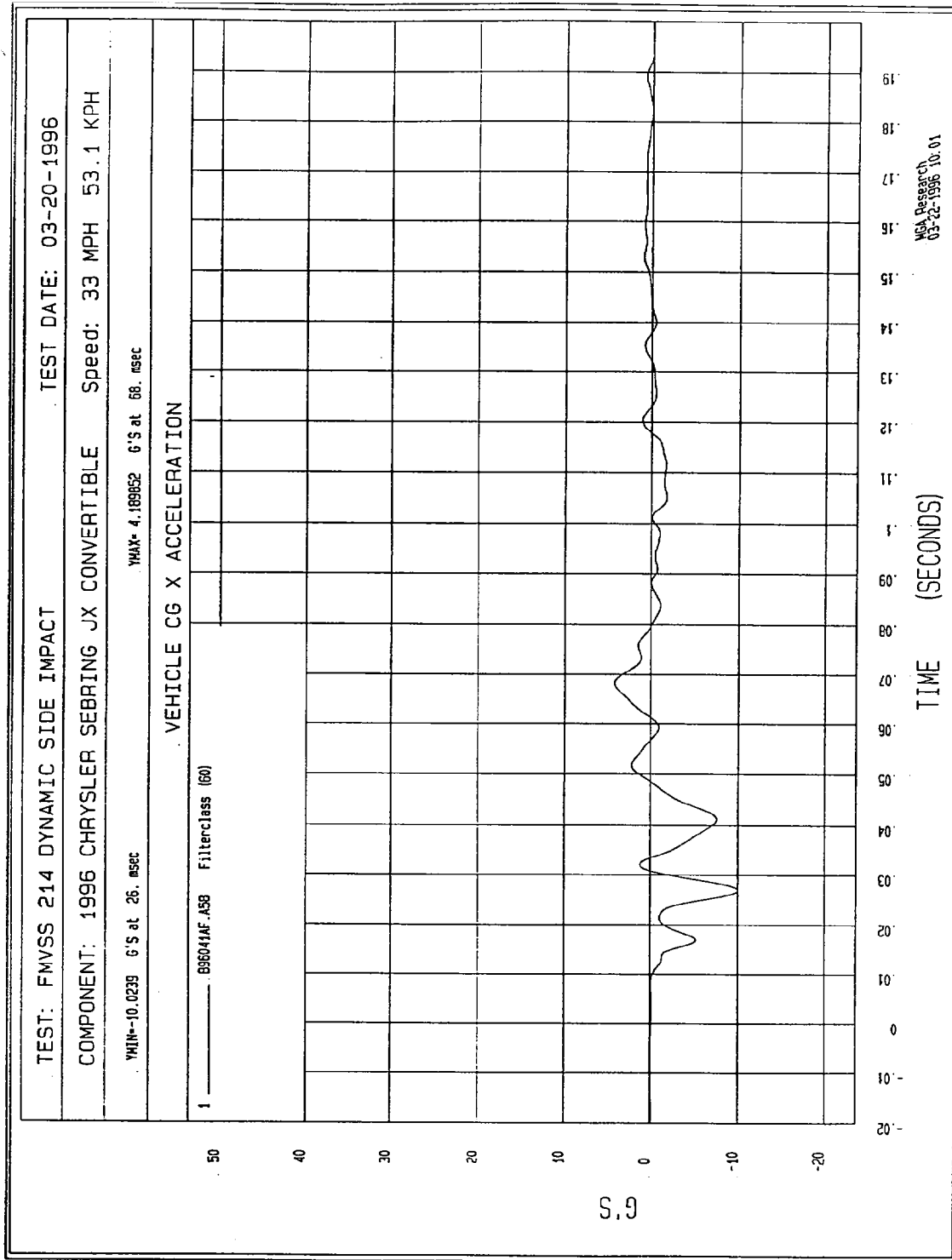


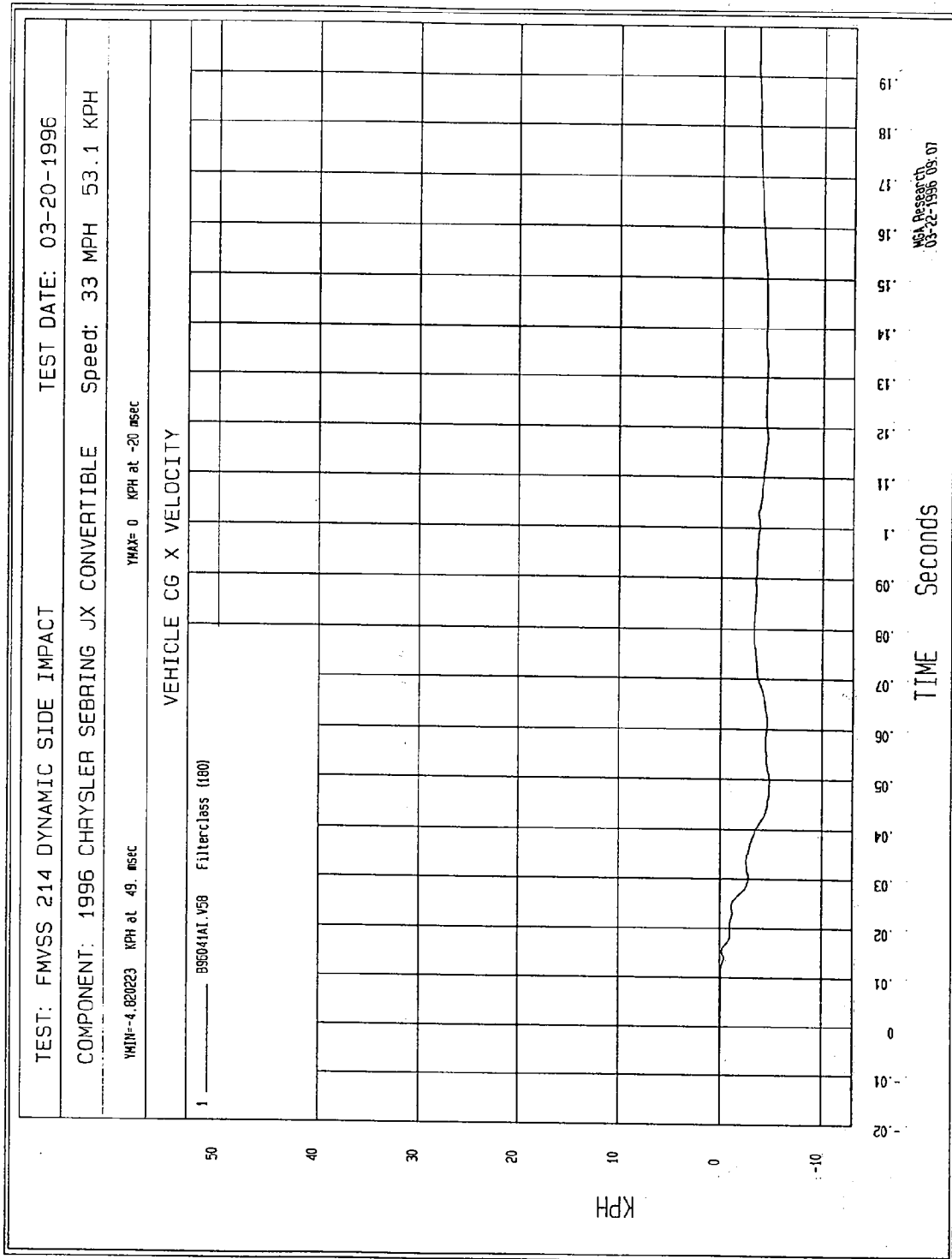


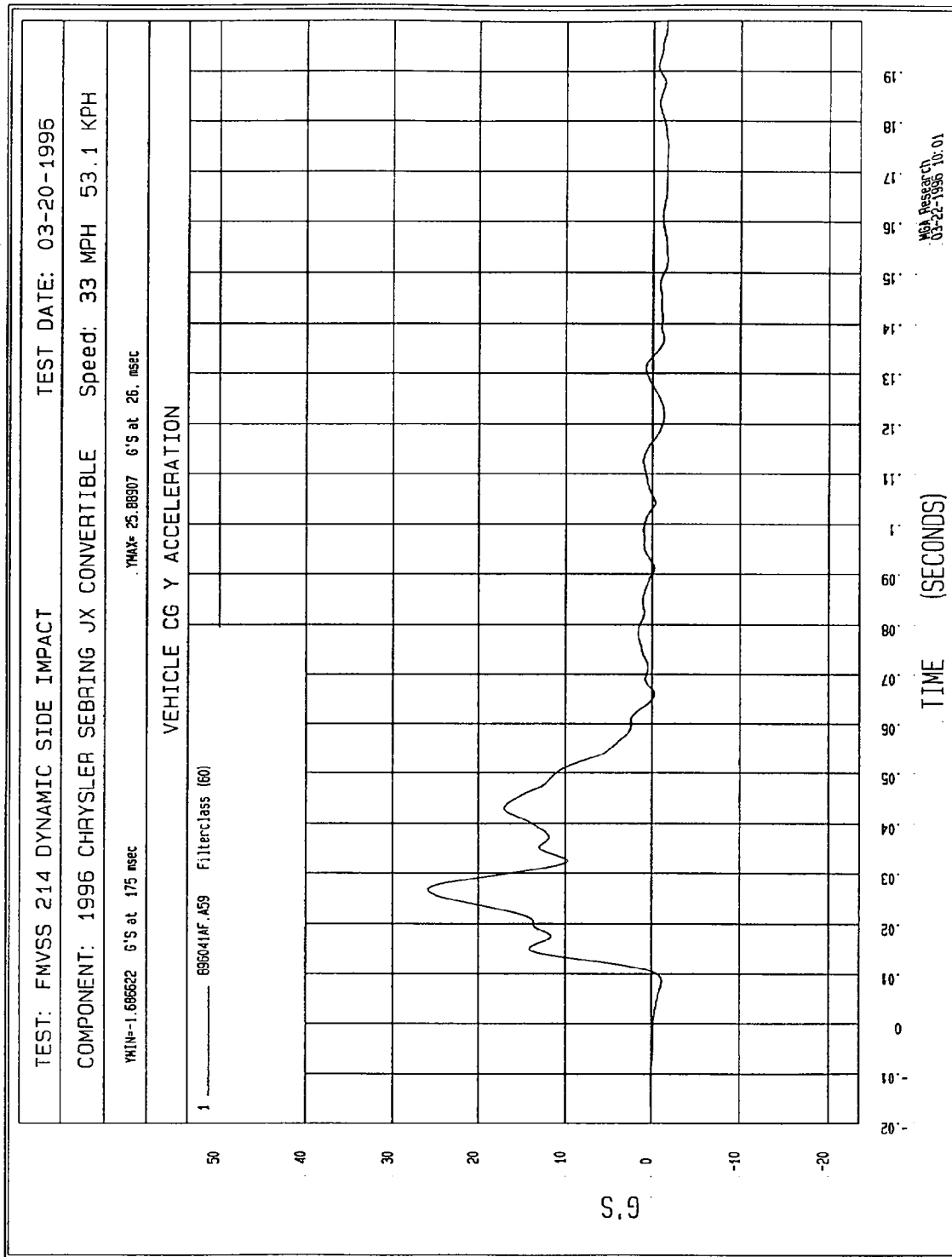


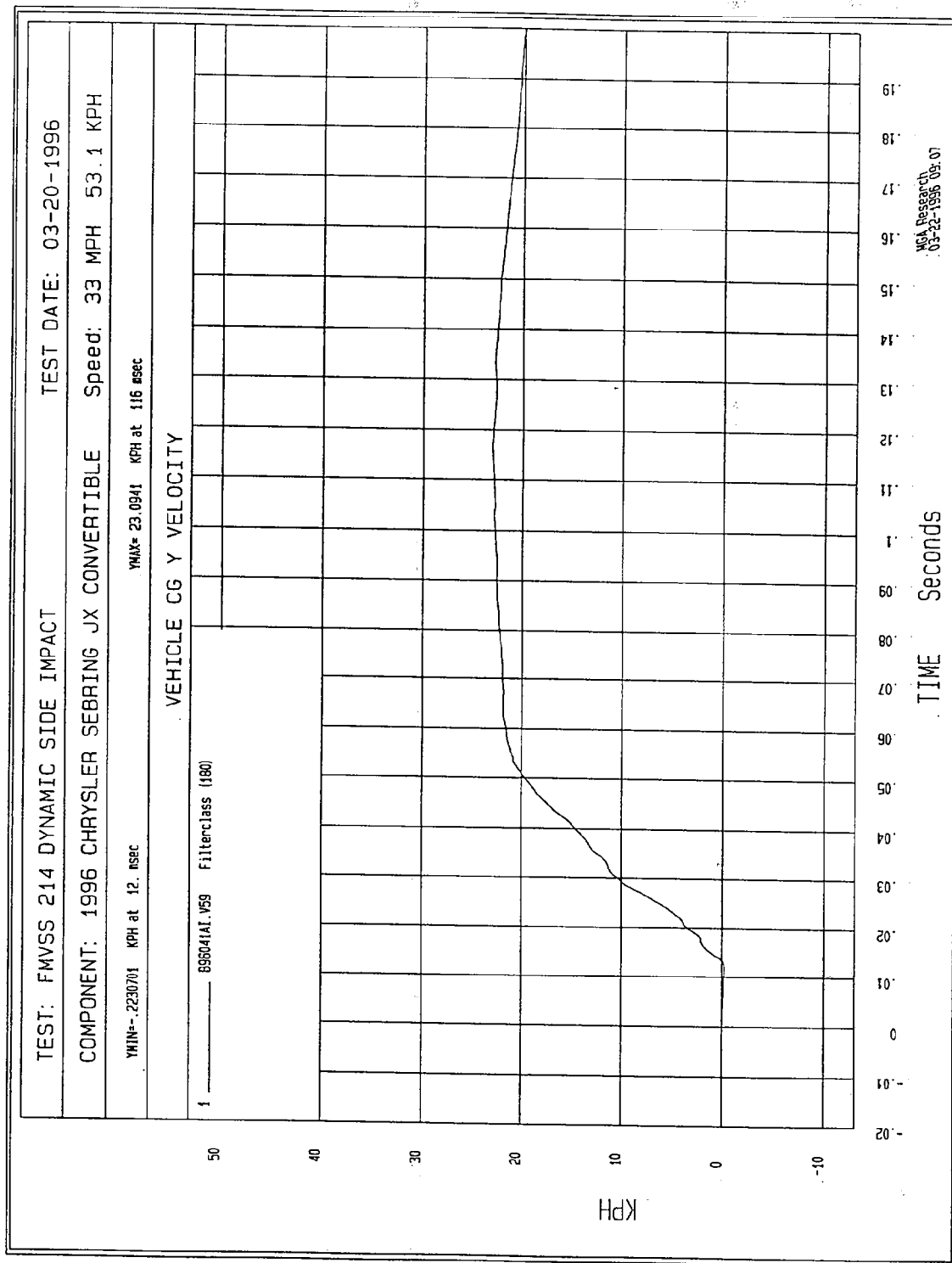


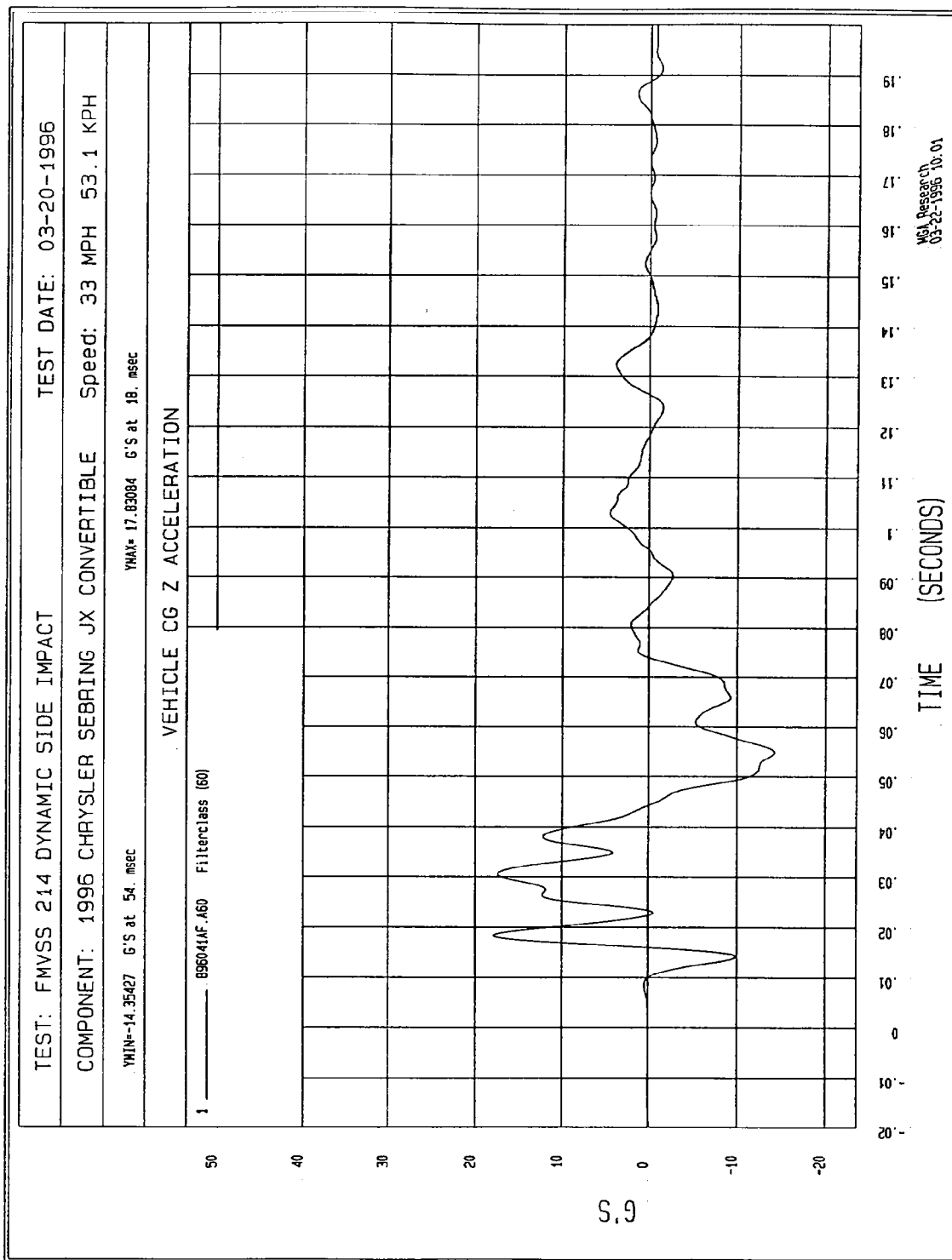


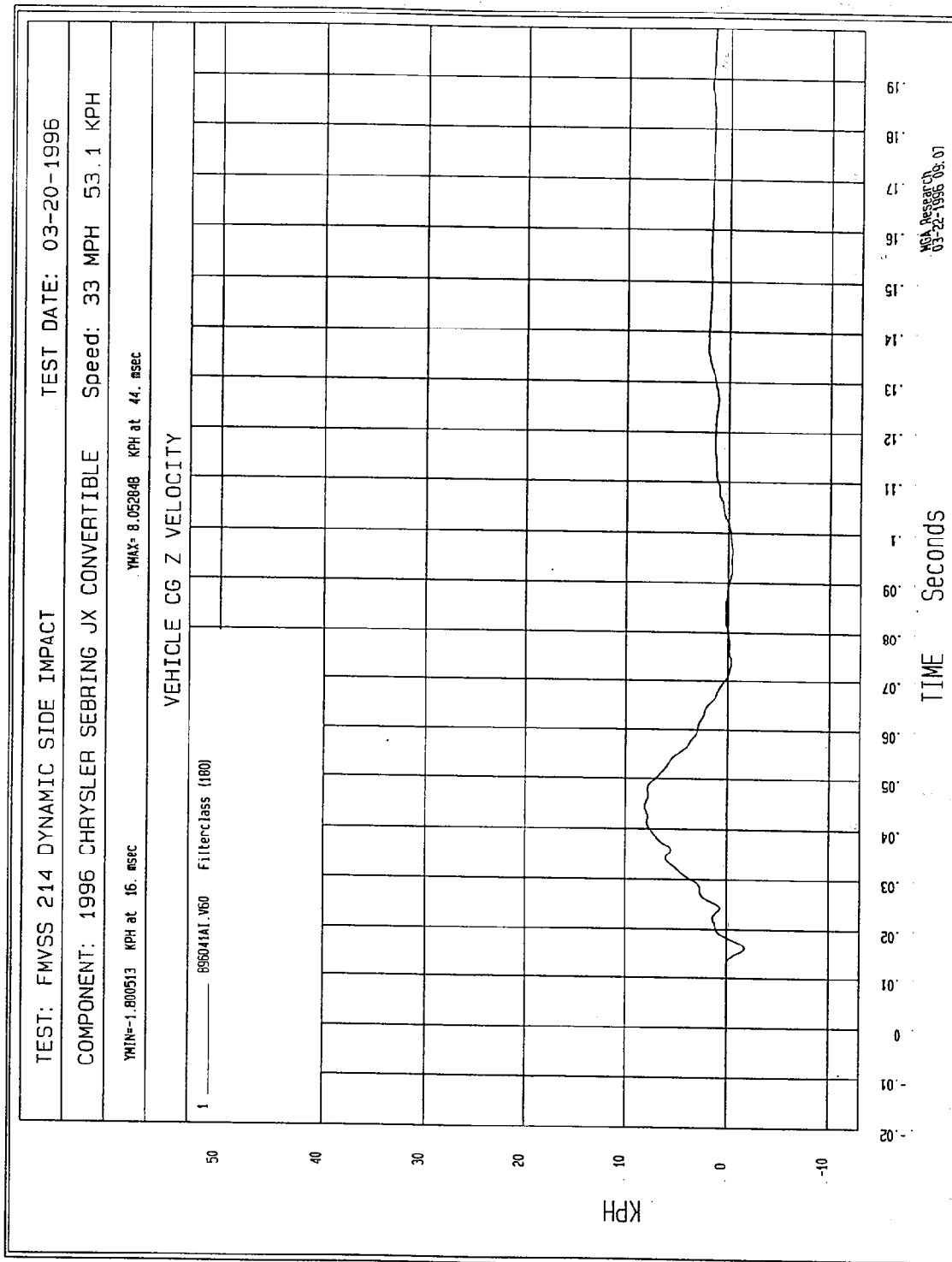


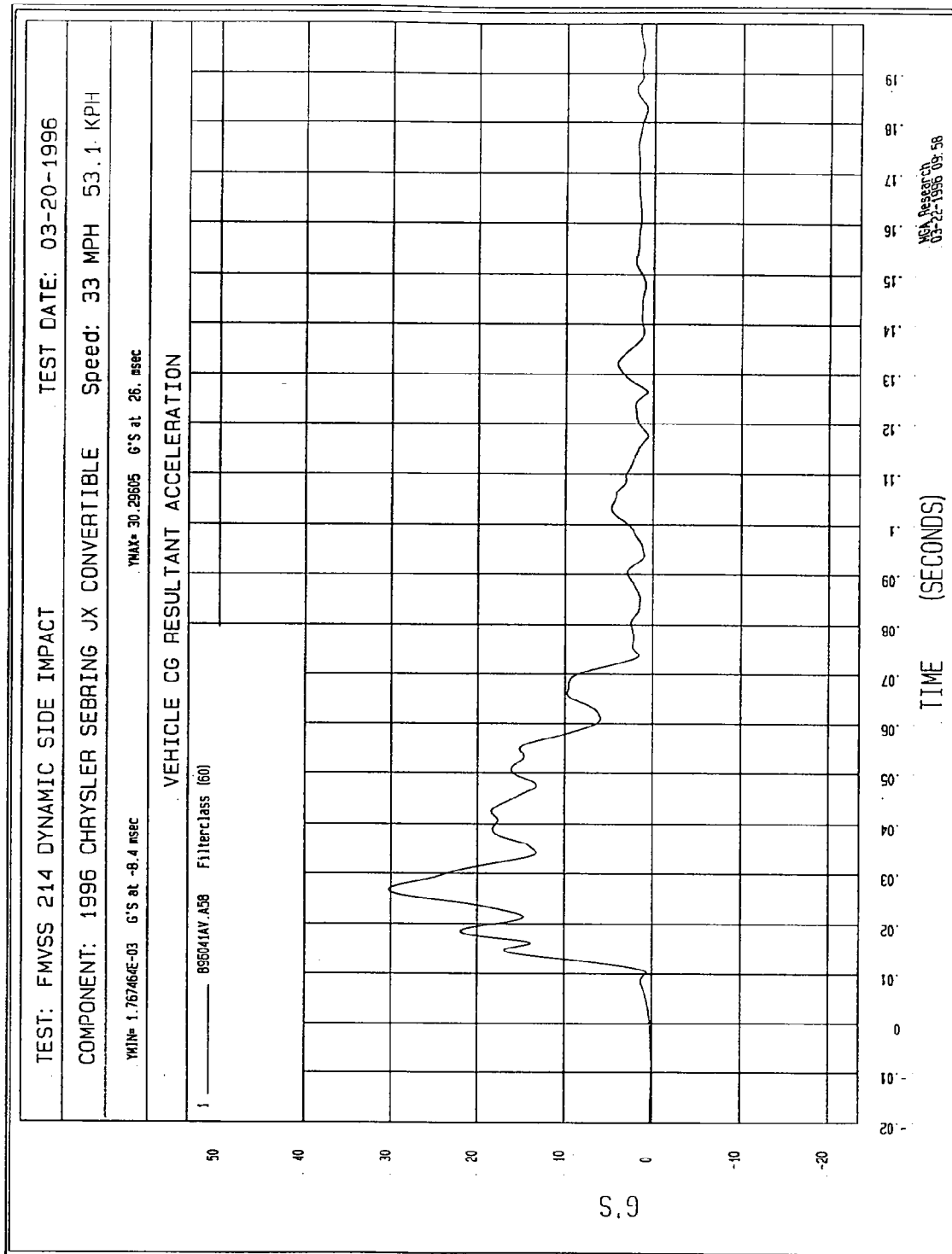


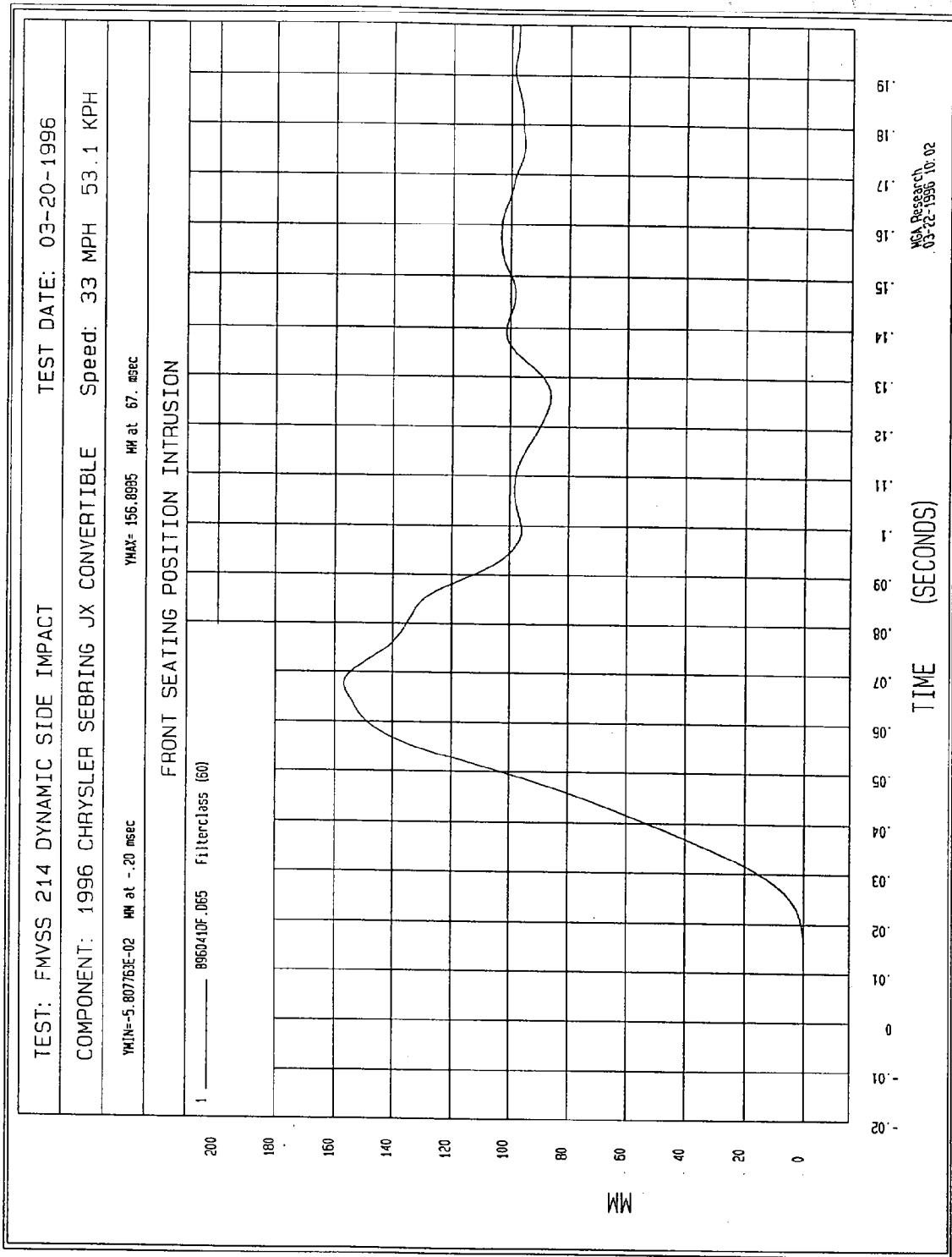


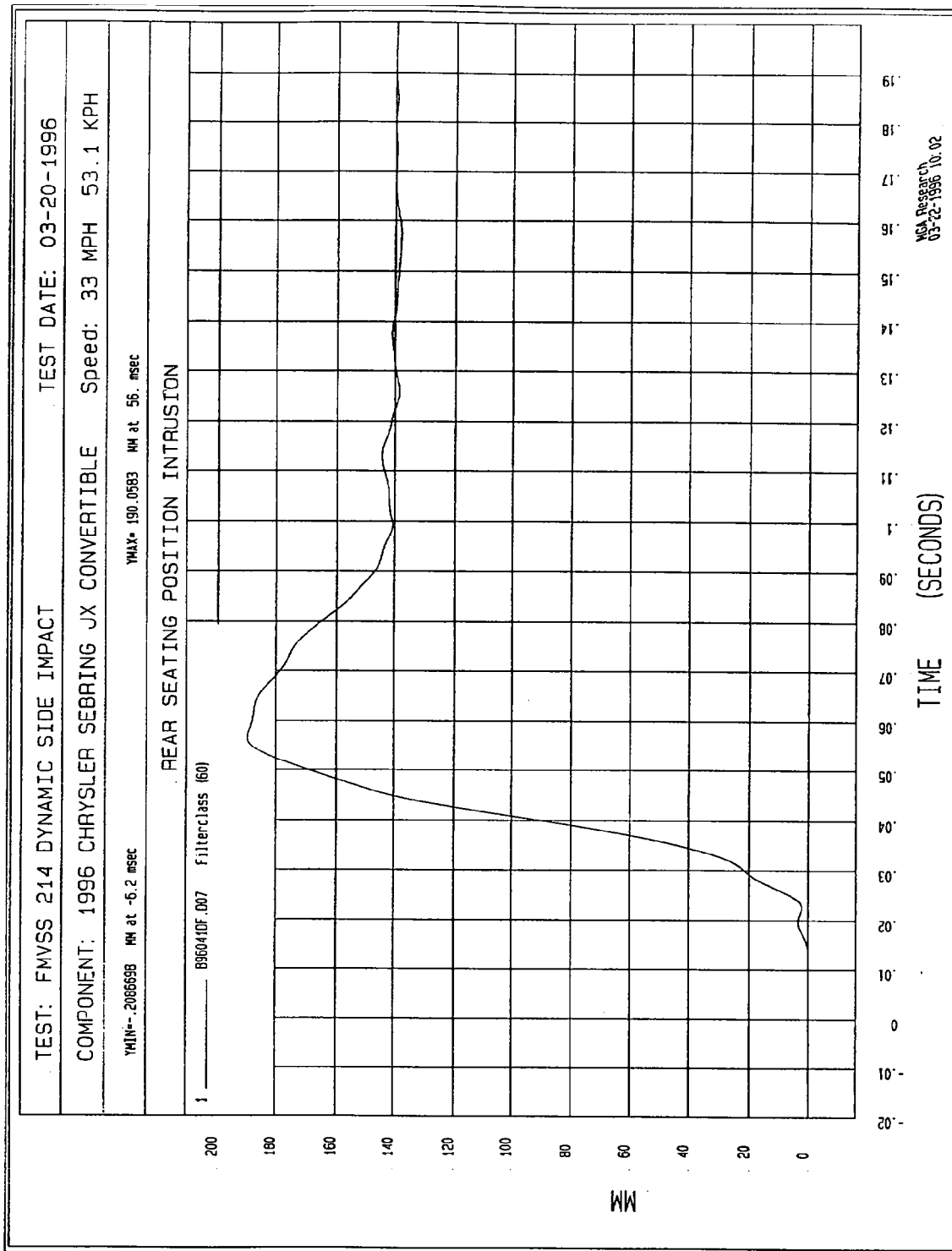












TEST DATE: 03-20-1996

TEST: FMVSS 214 DYNAMIC SIDE IMPACT

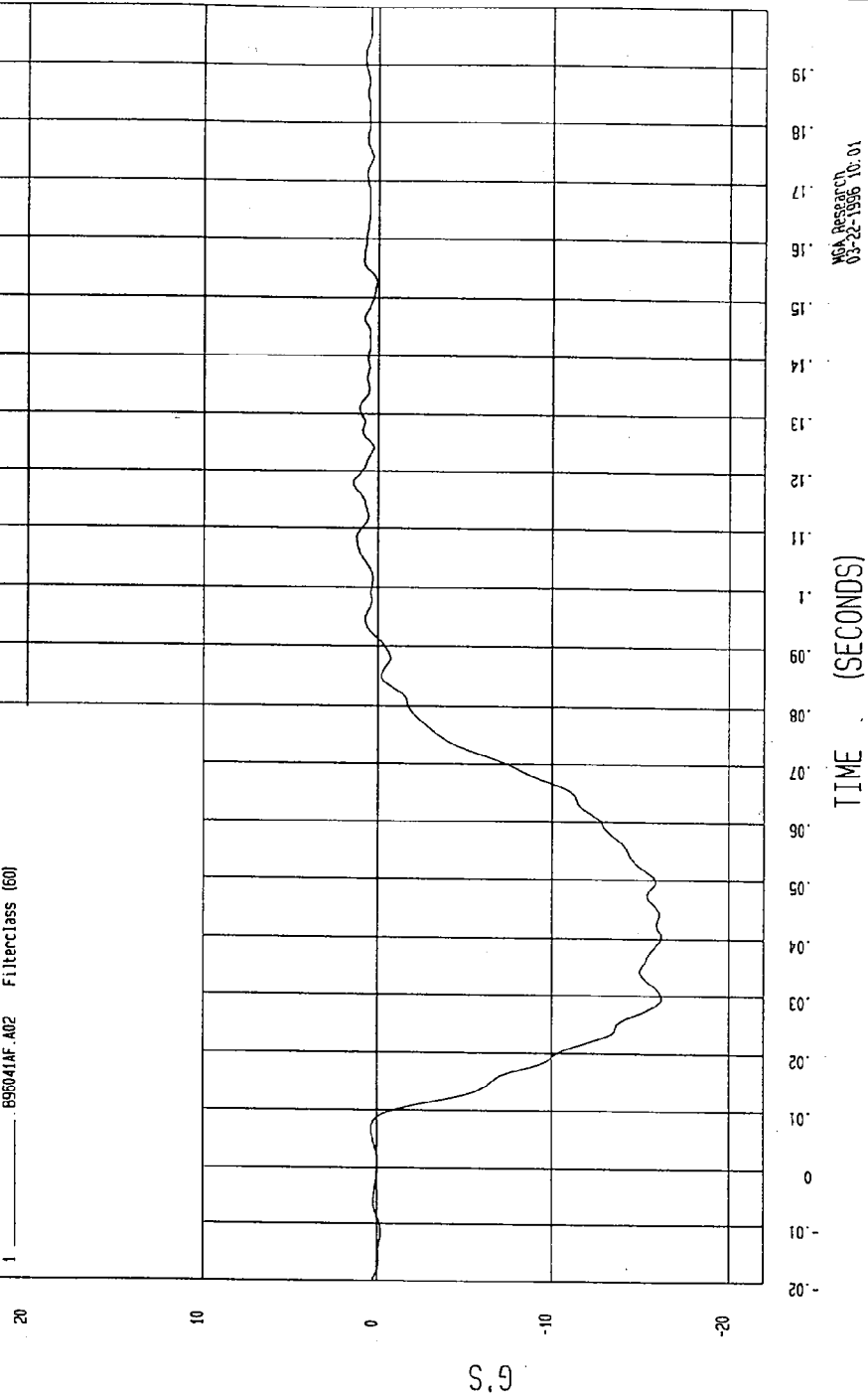
COMPONENT: 1996 CHRYSLER SEBRING JX CONVERTIBLE Speed: 33 MPH 53.1 KPH

YMIN=-15.25956 G'S at 29. msec

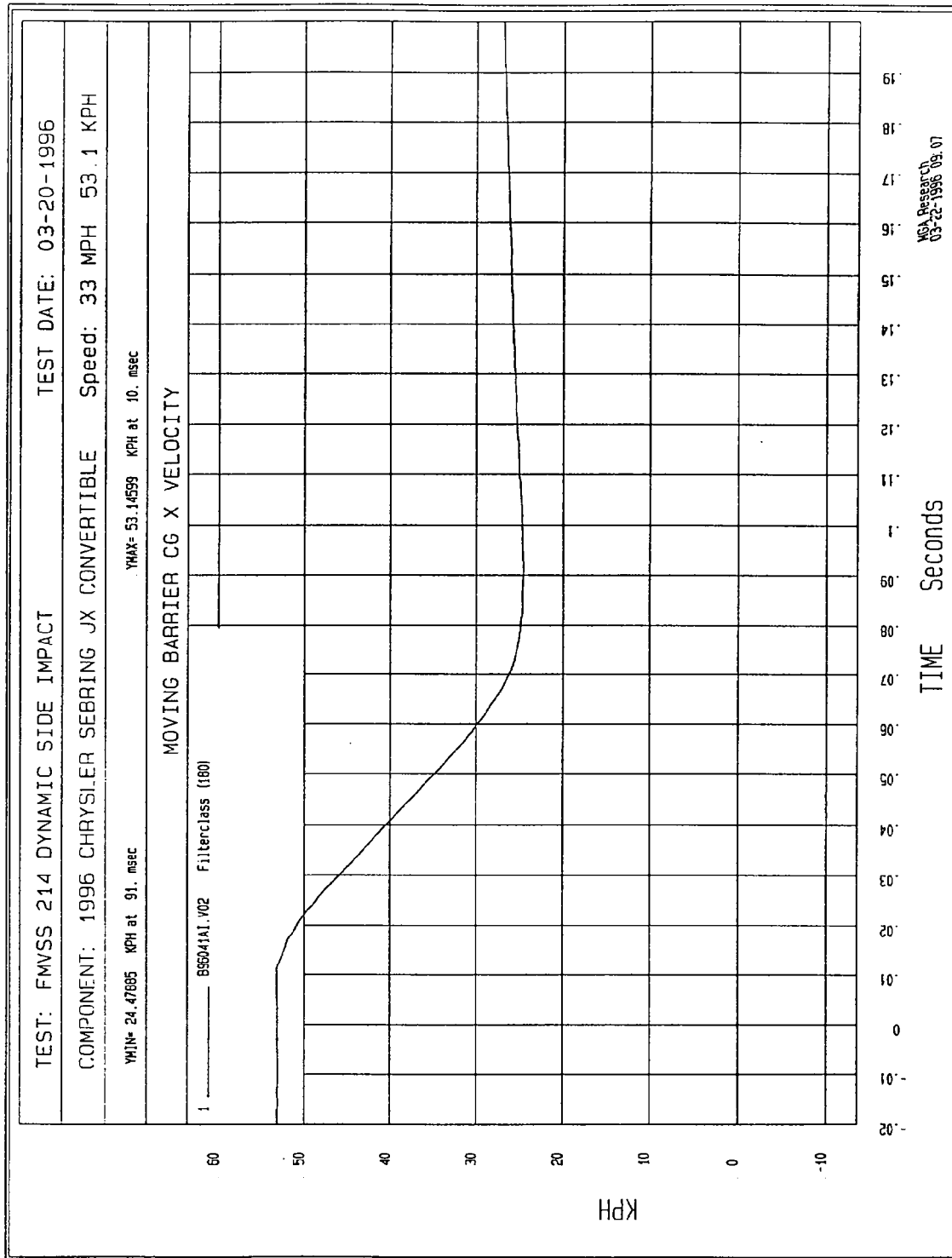
YMAX= 1.417972 G'S at 117 msec

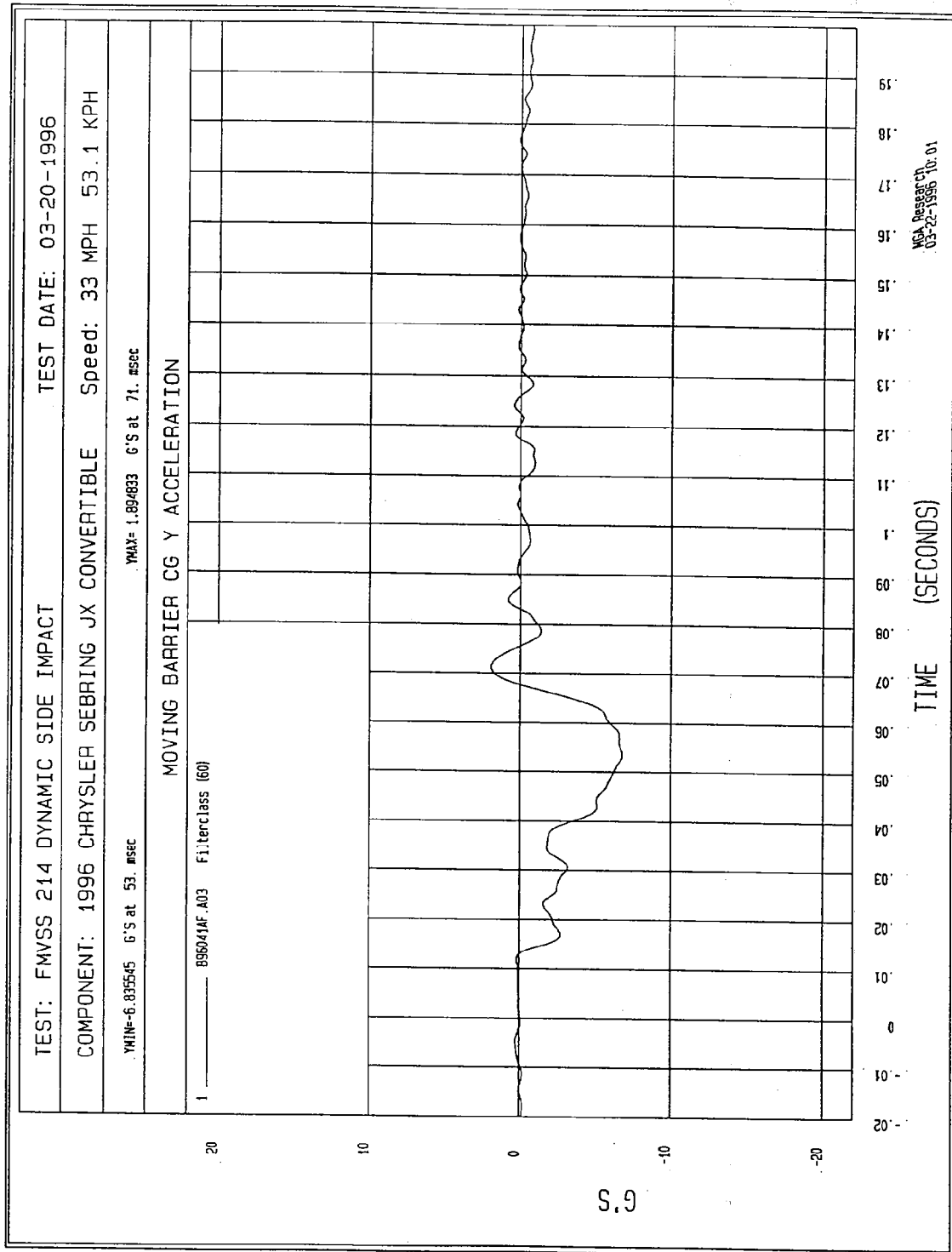
MOVING BARRIER CG X ACCELERATION

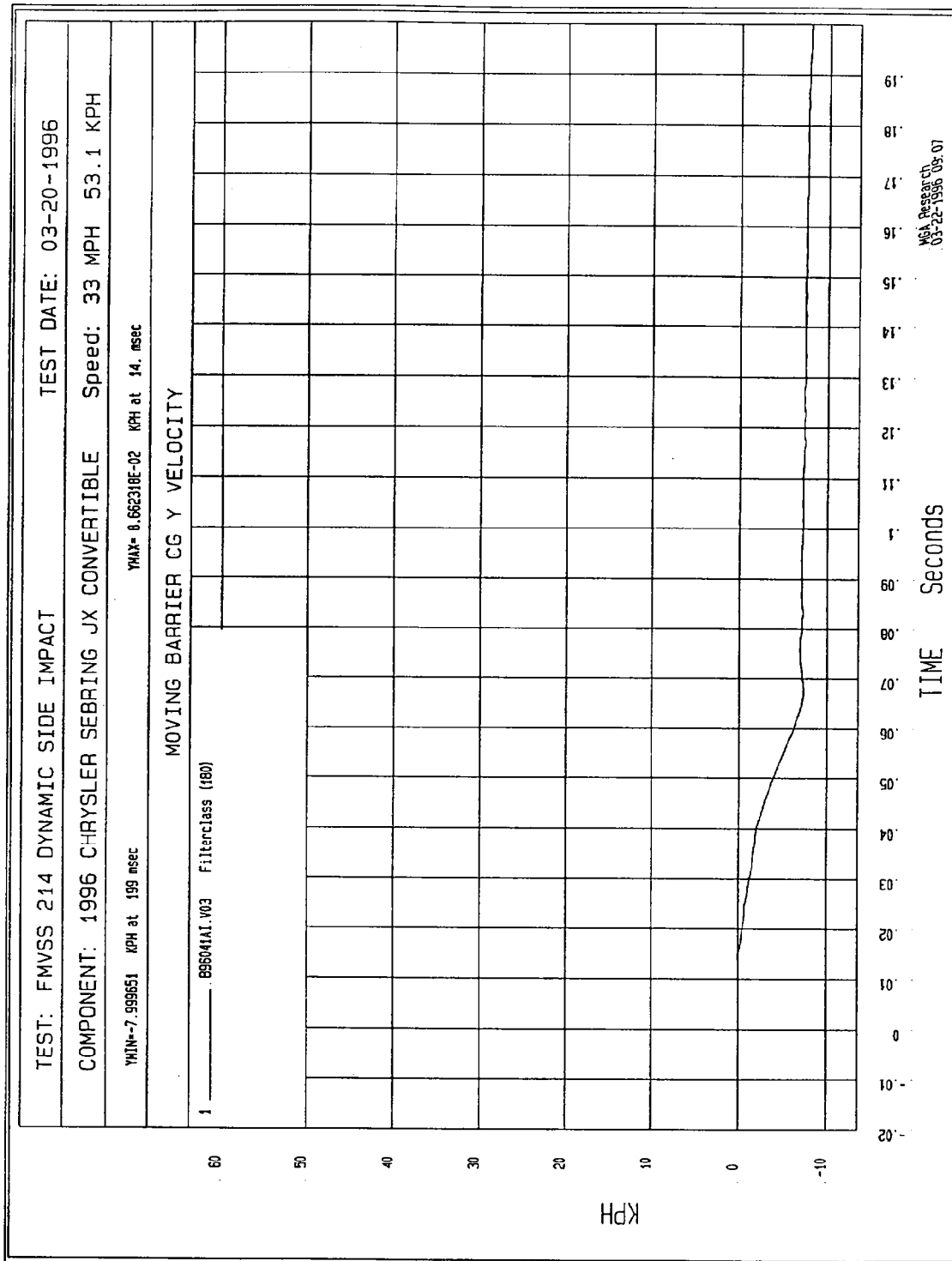
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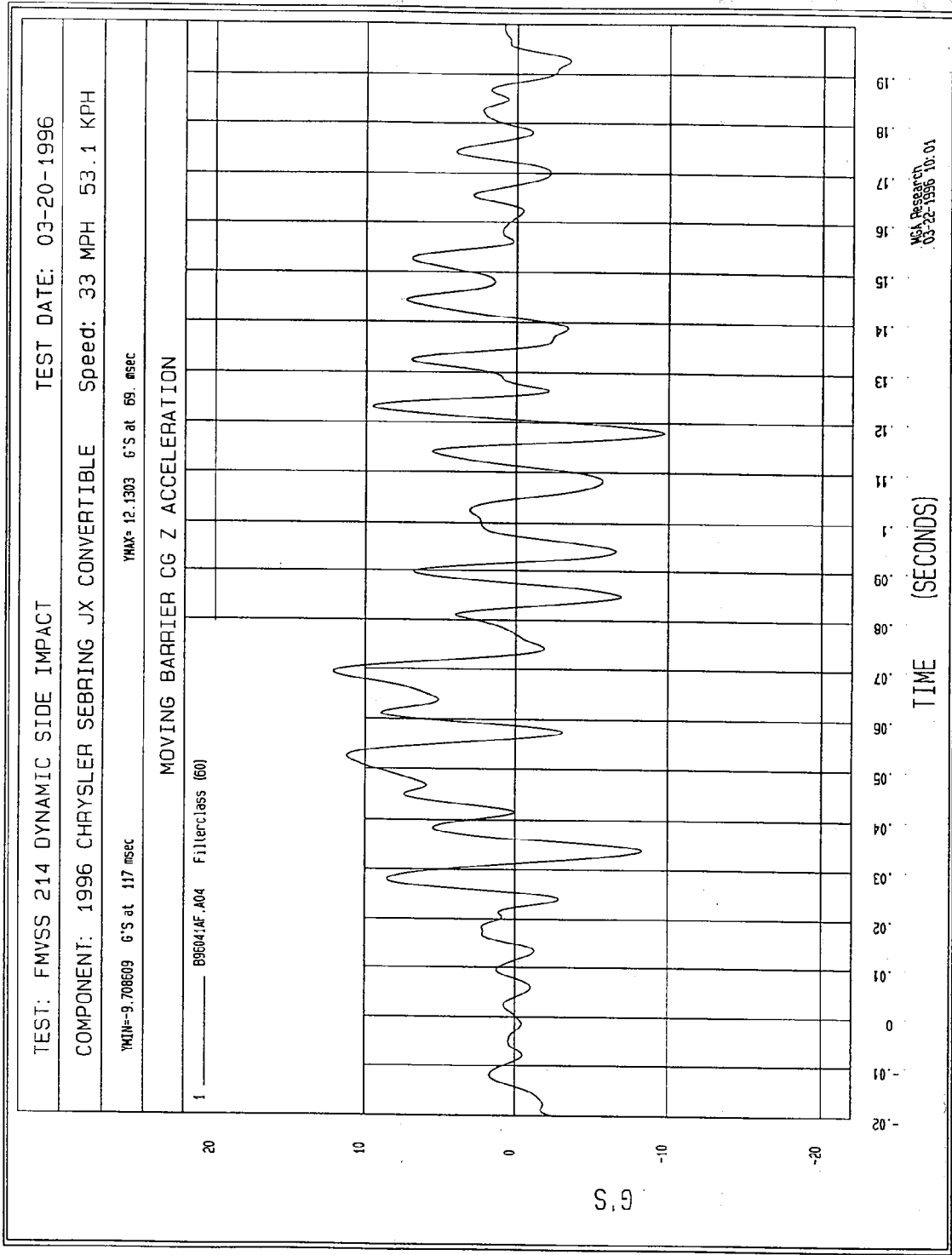


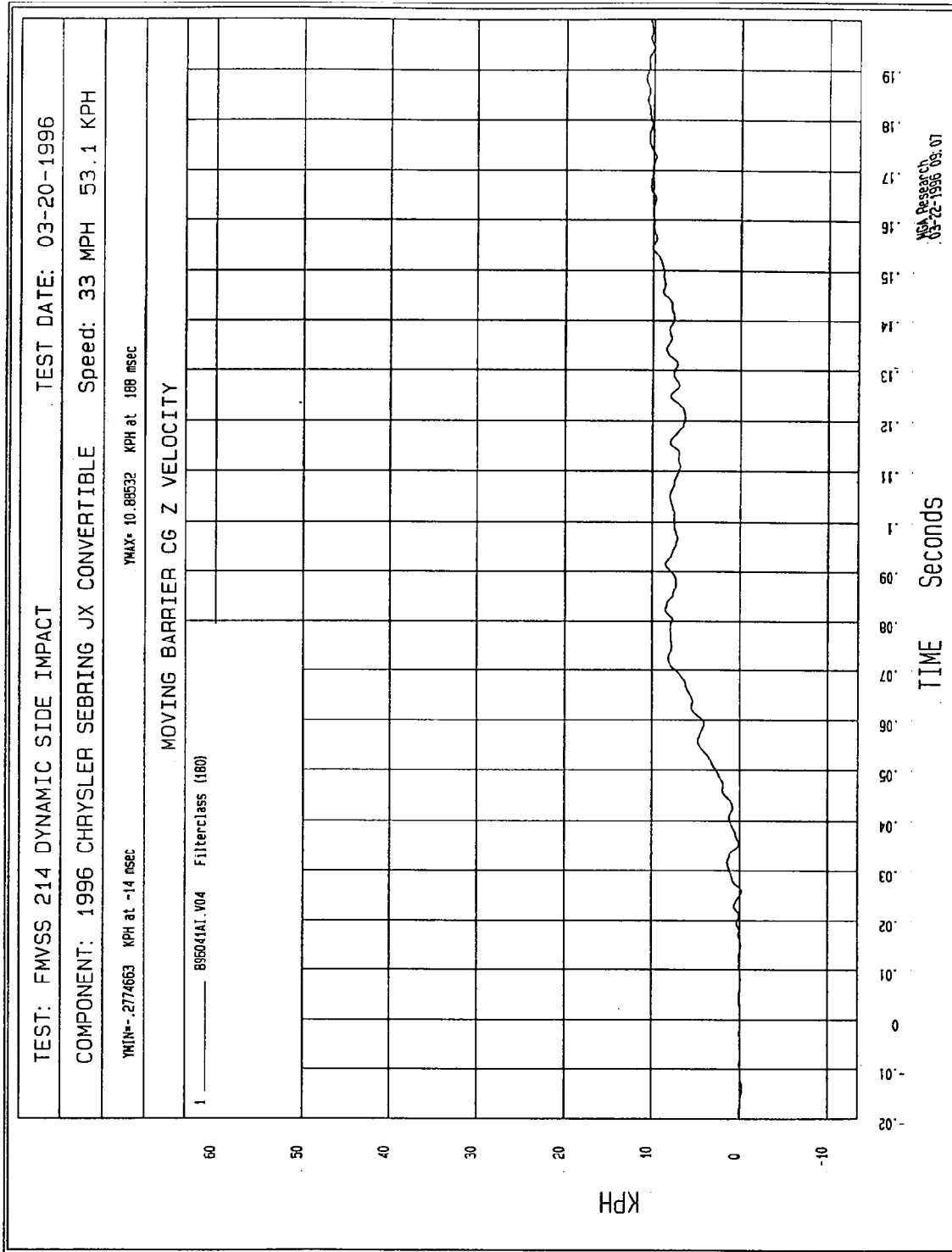
WGA Research
03-22-1996 10:01

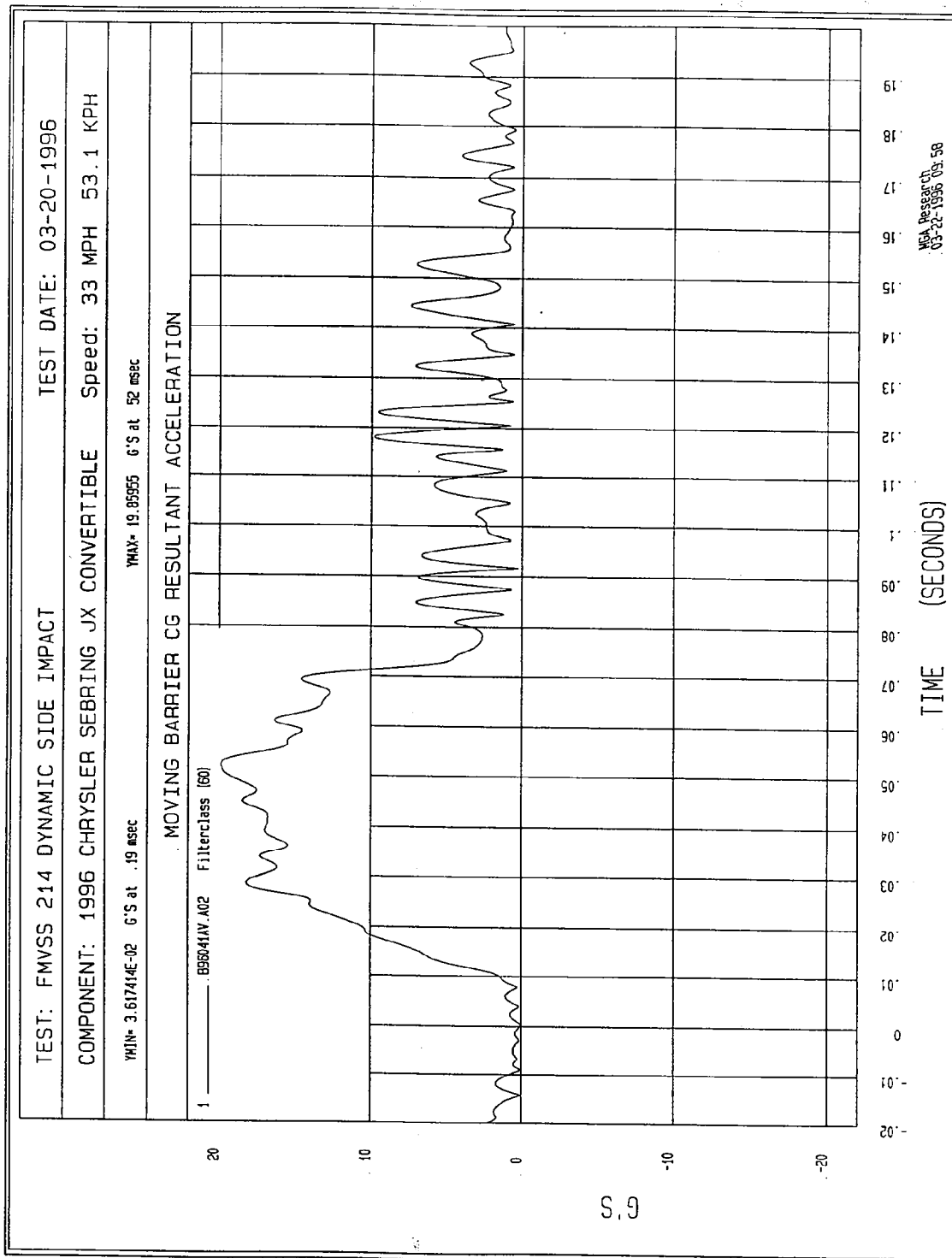


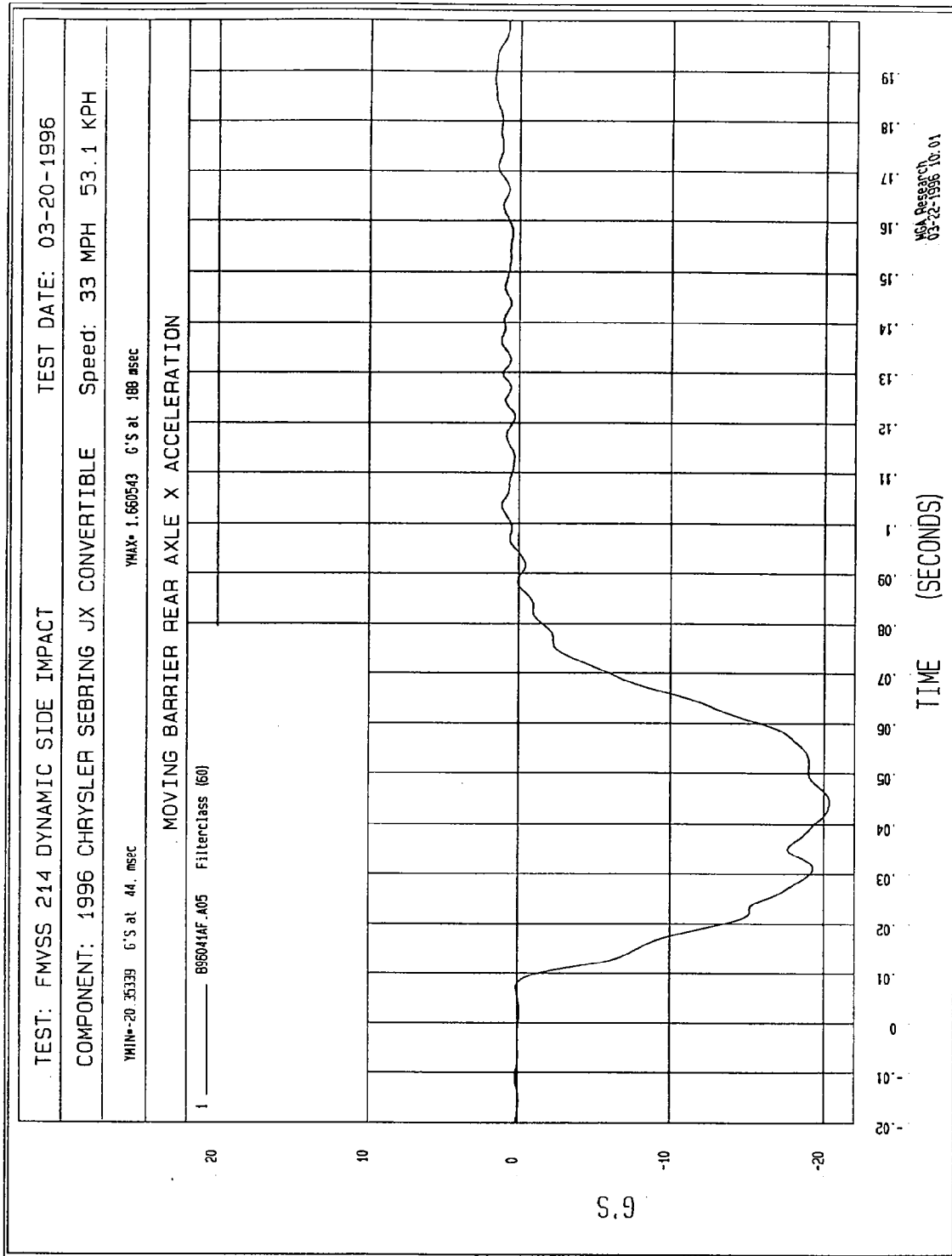


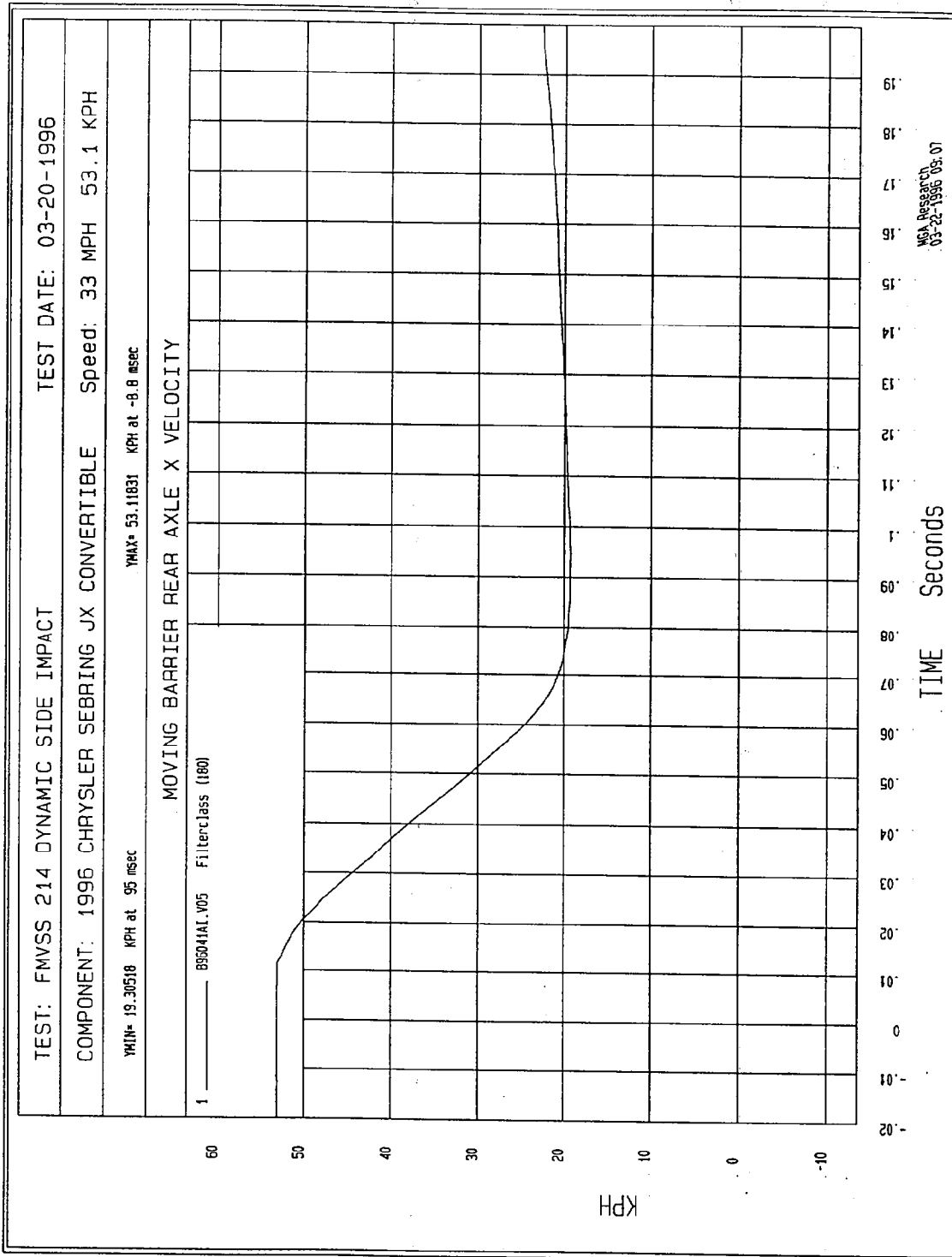


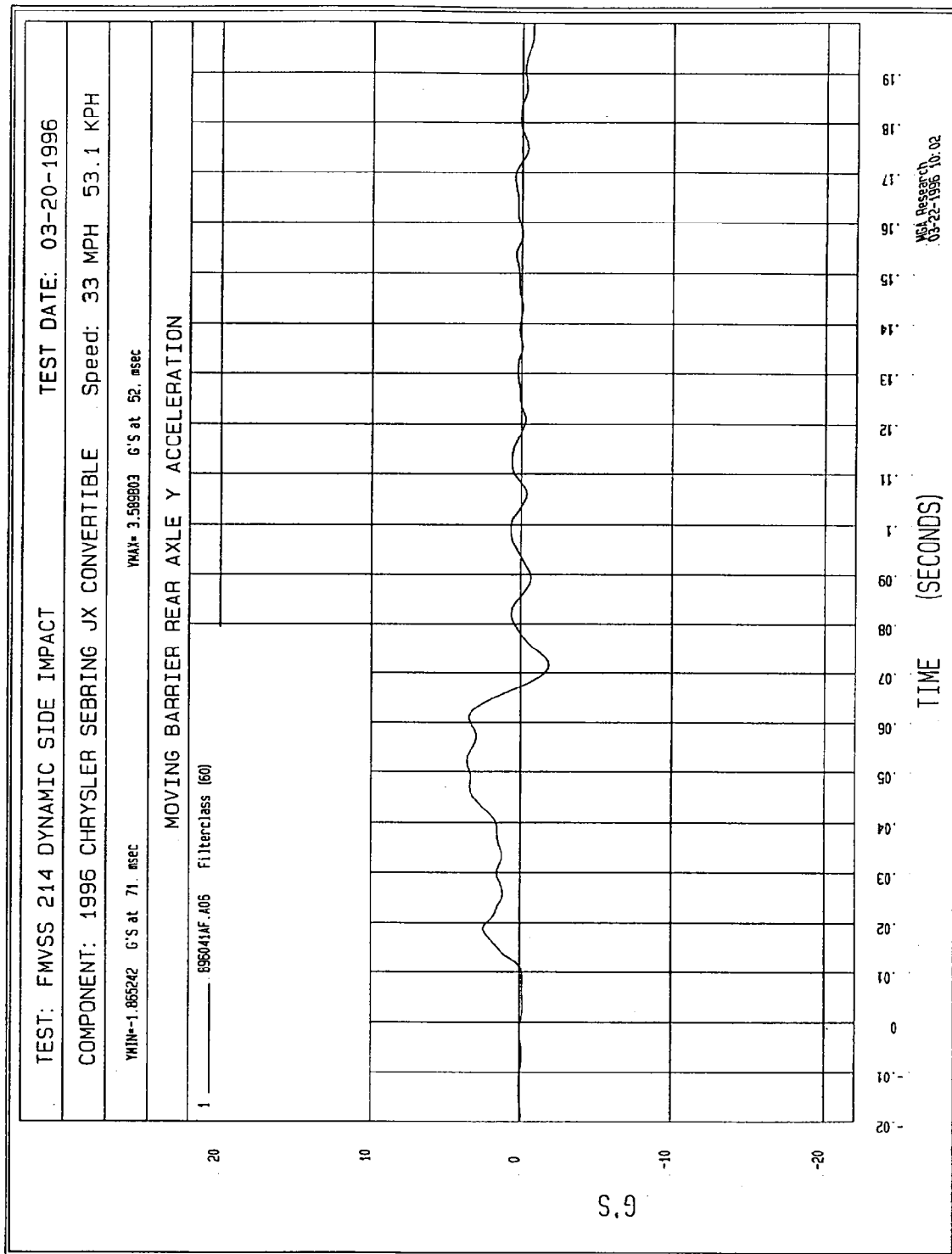


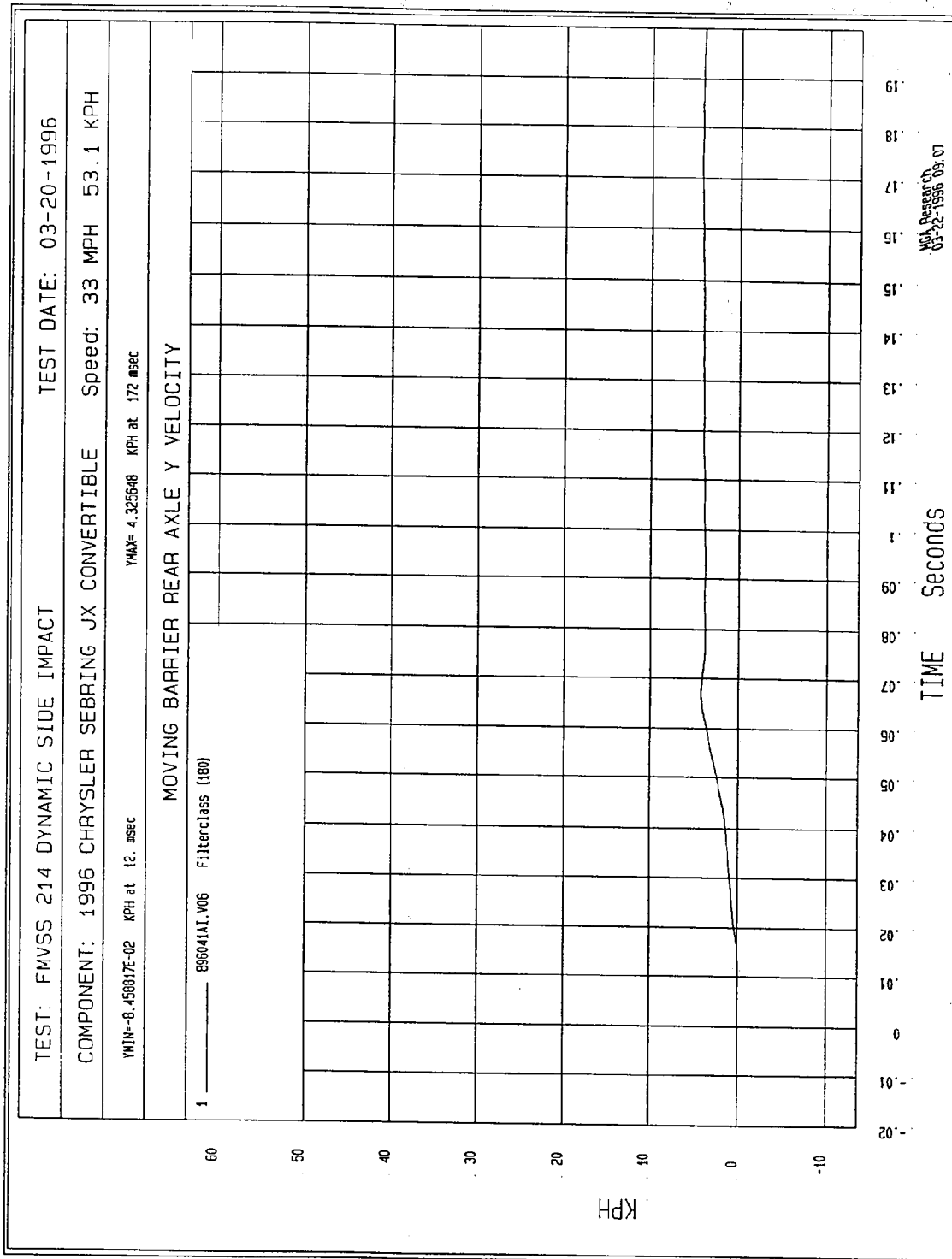


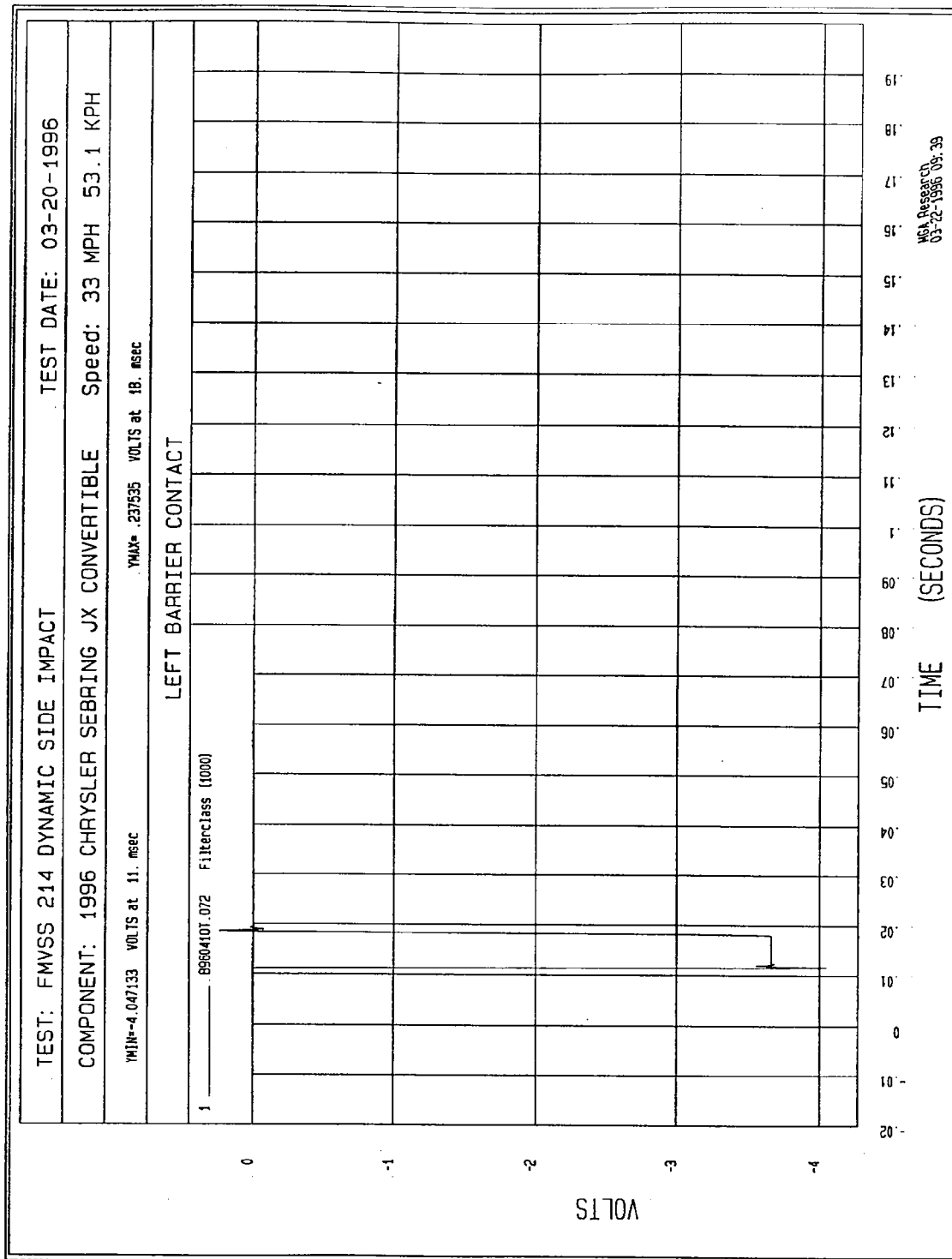




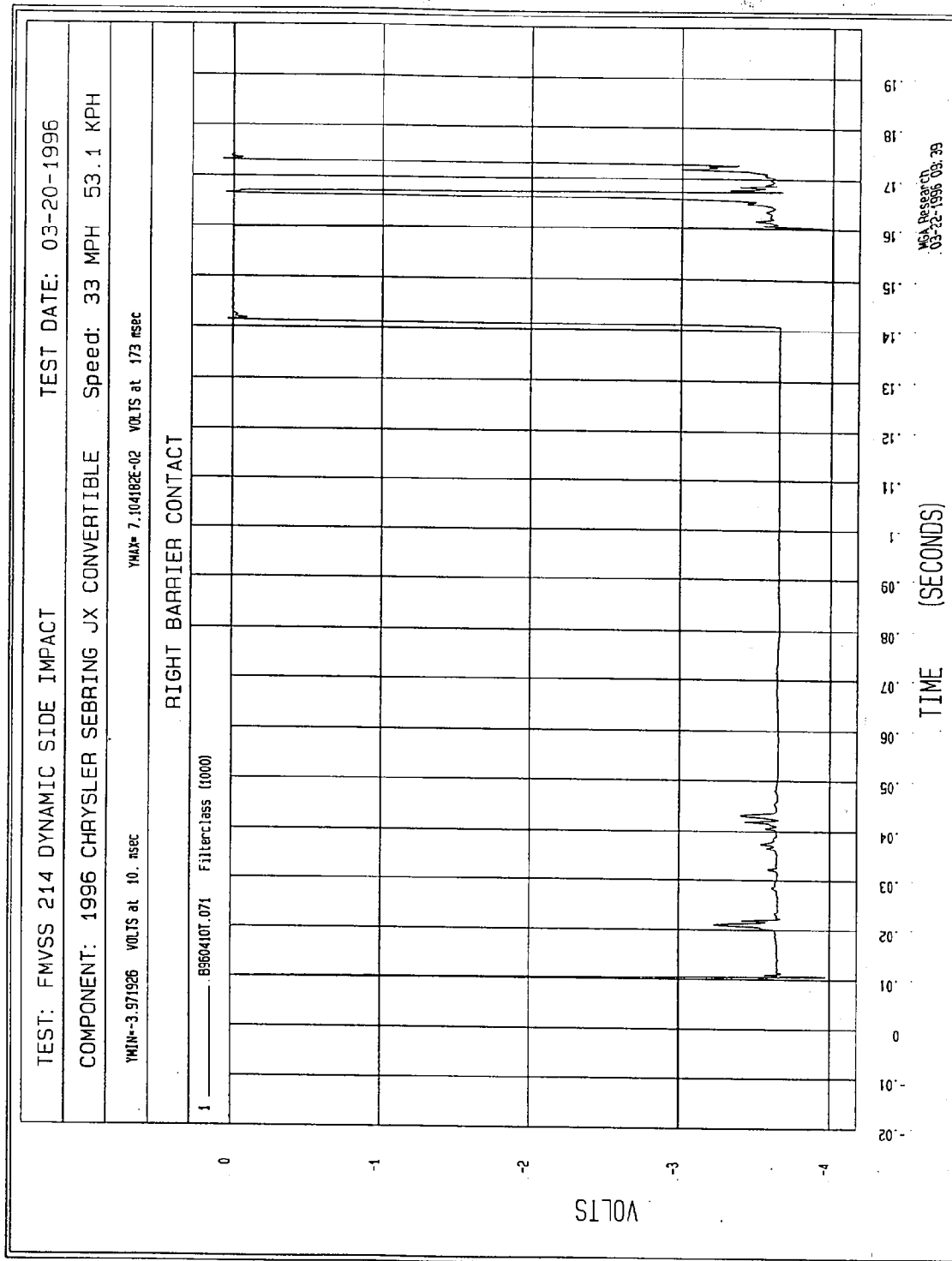


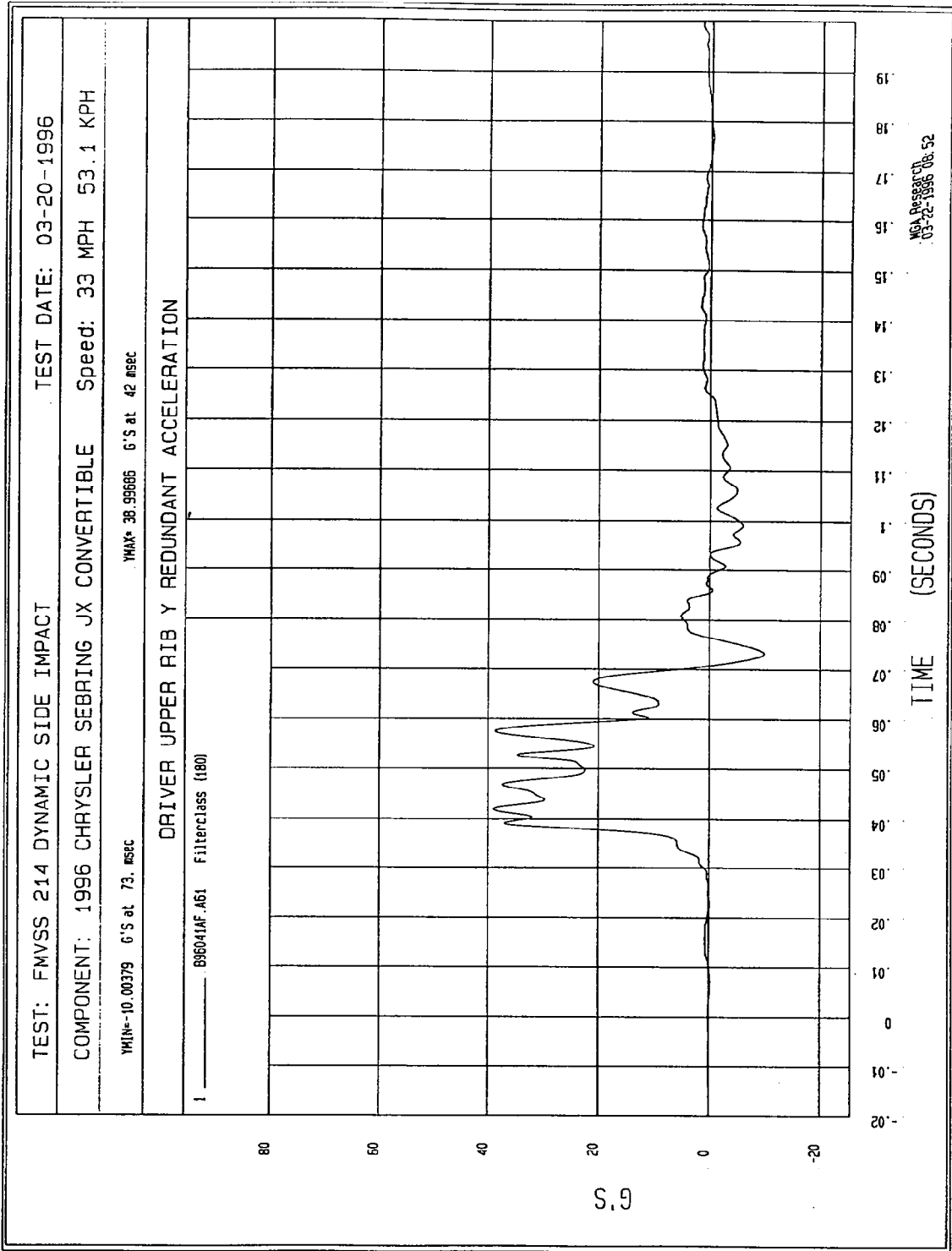


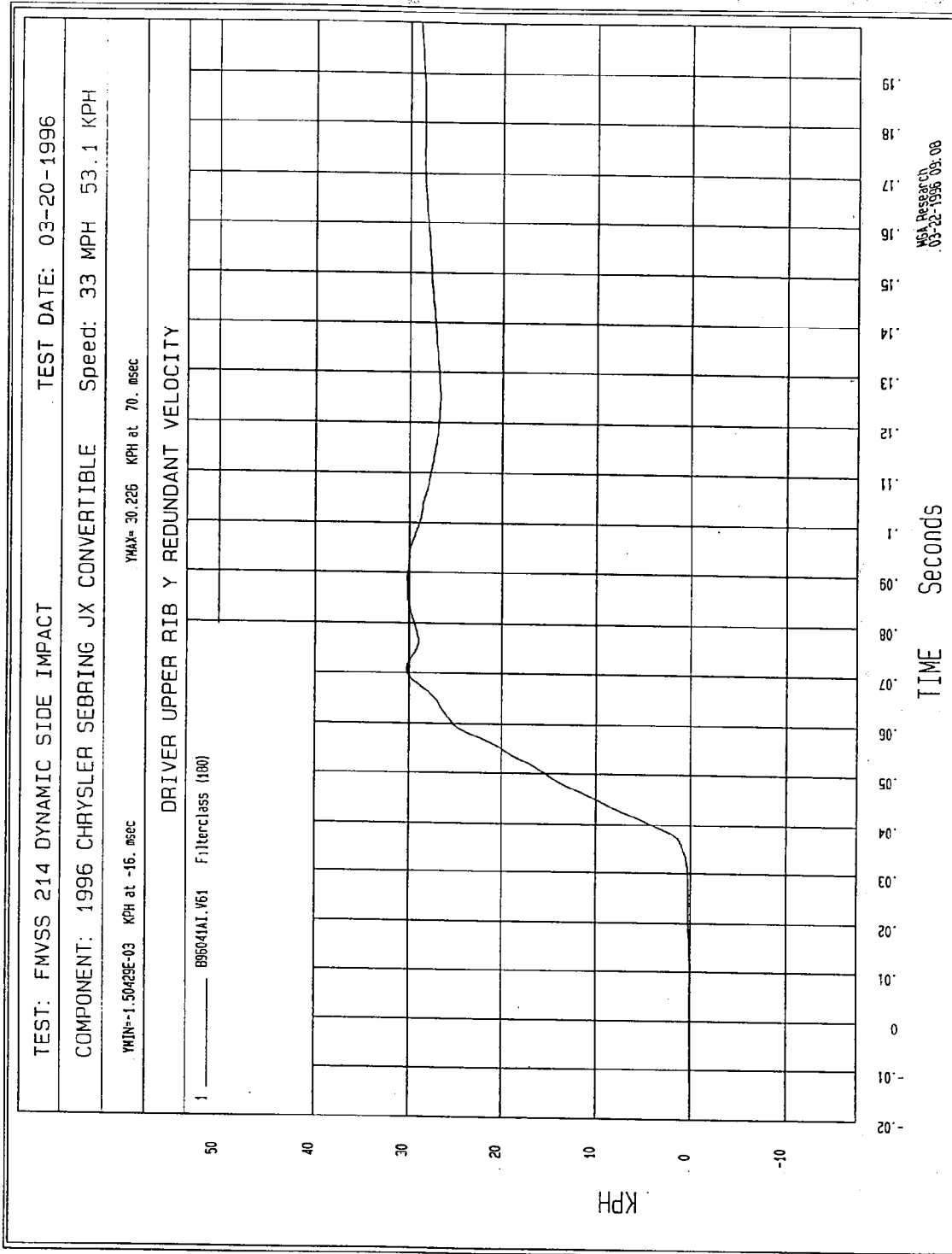


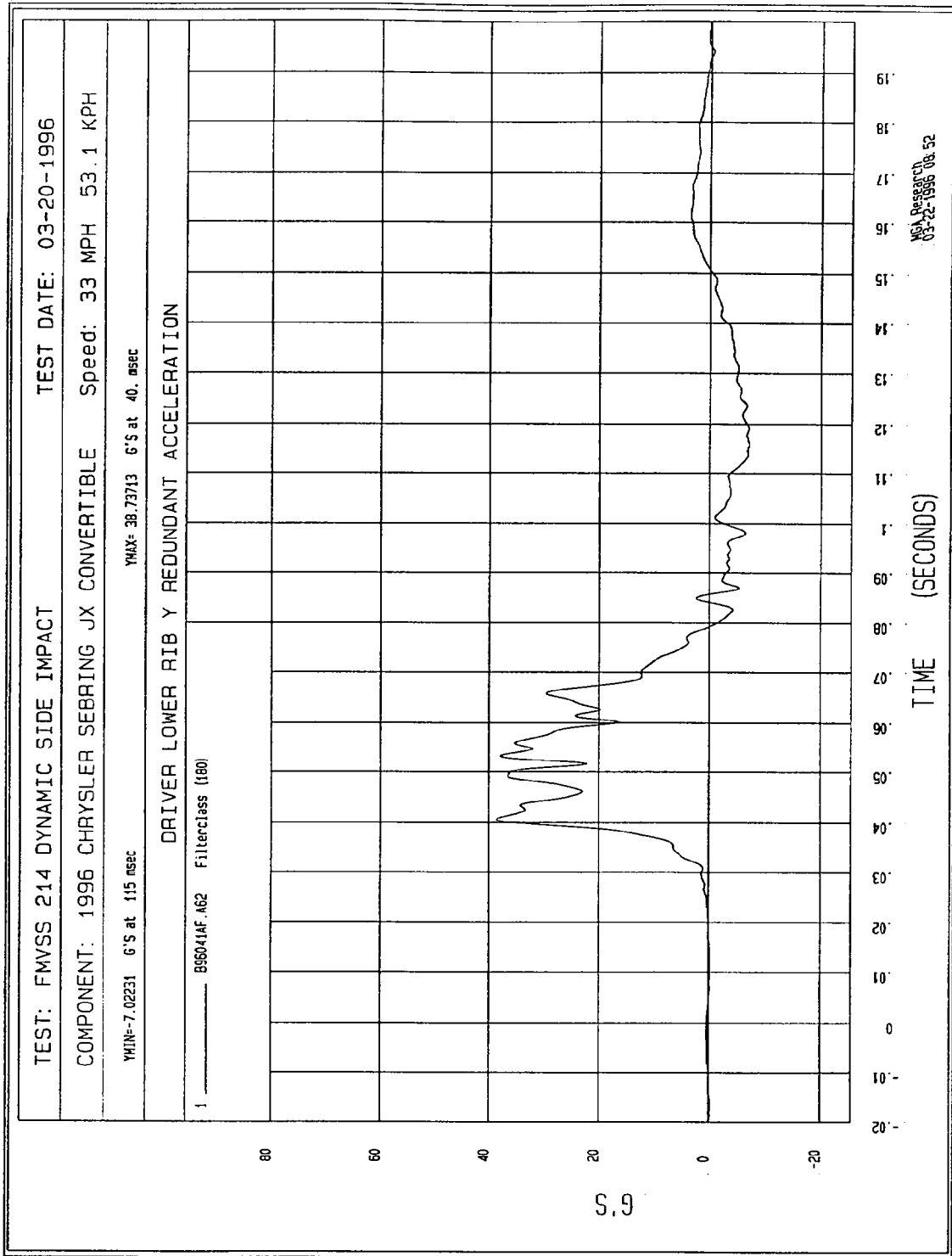


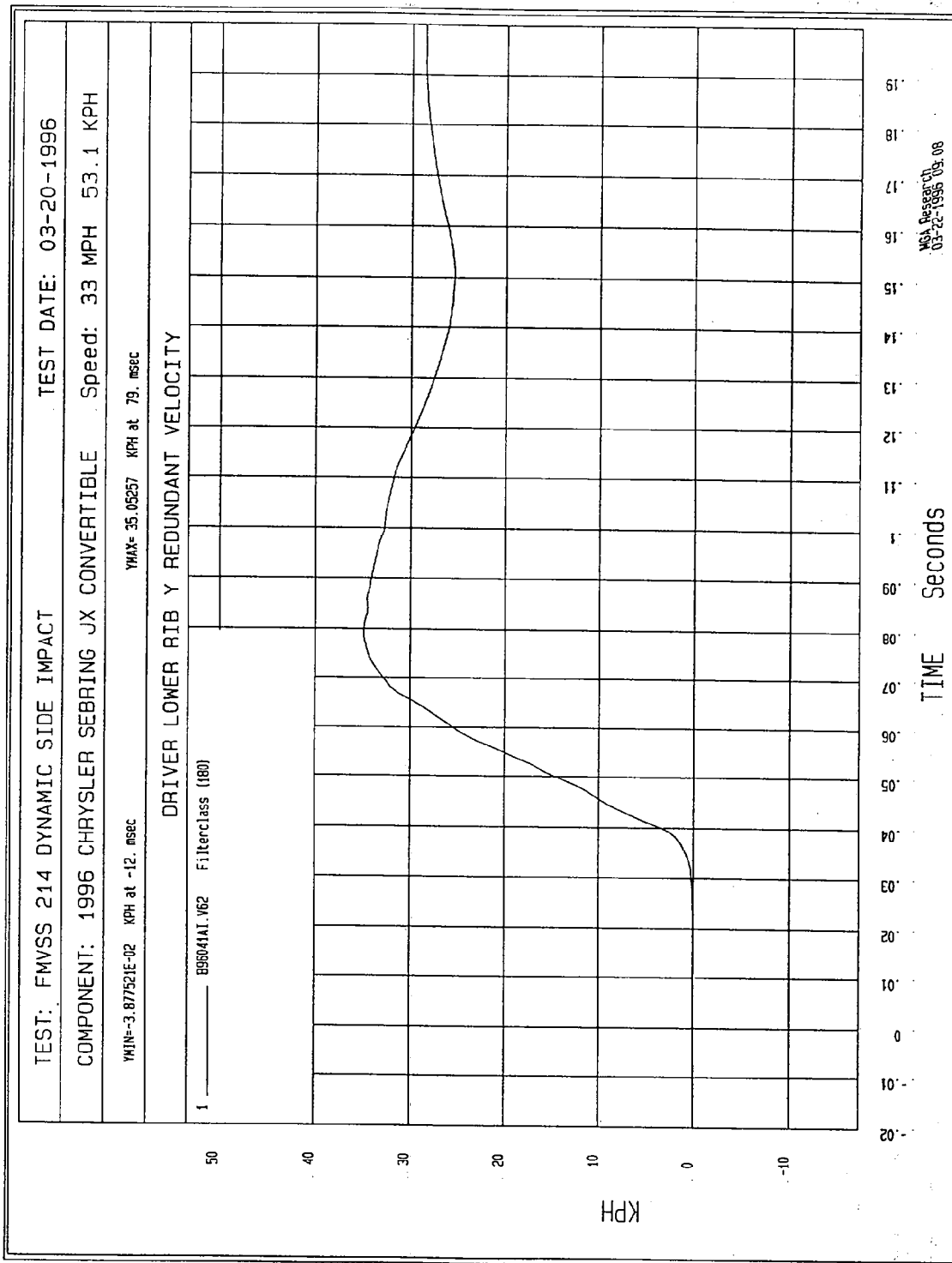
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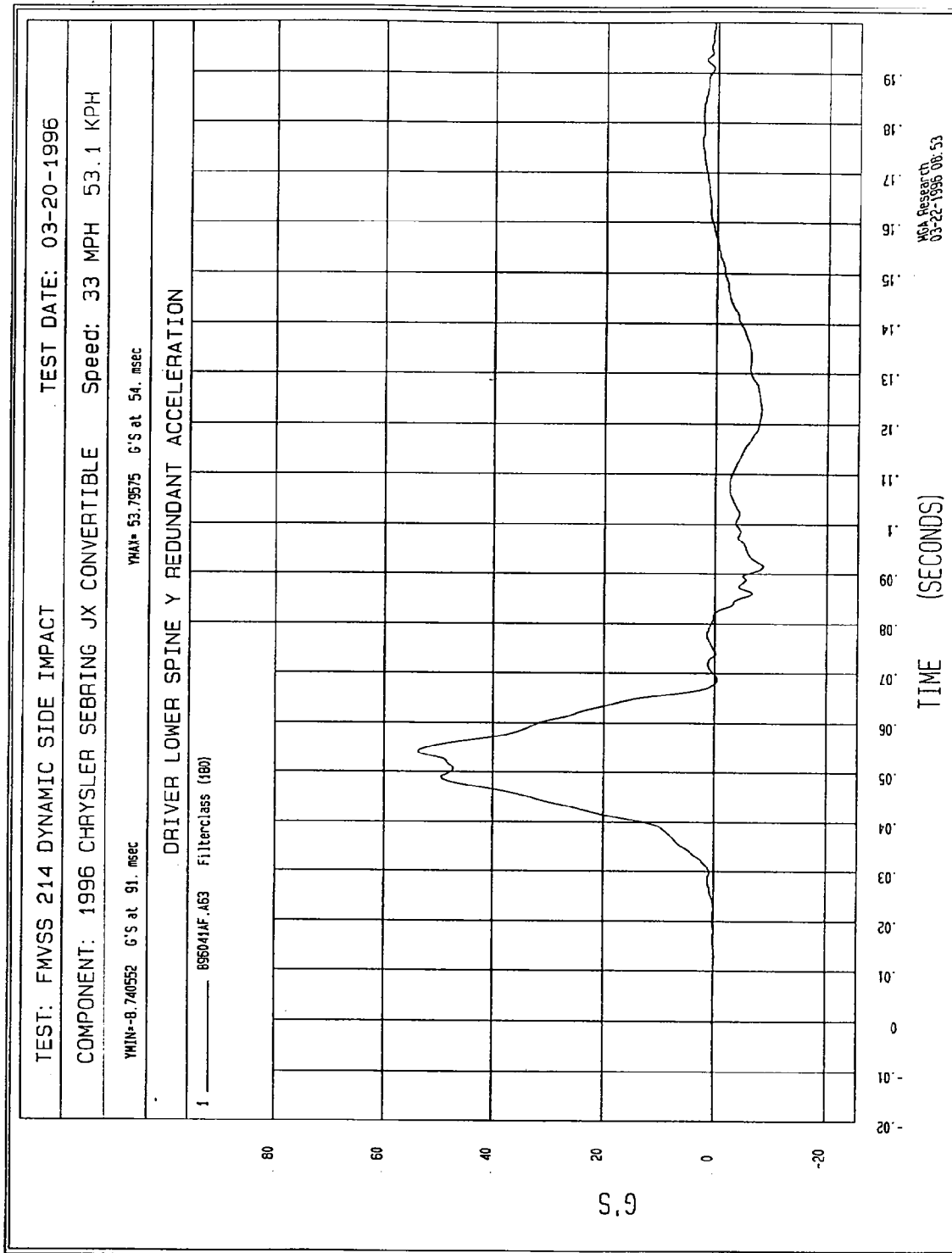


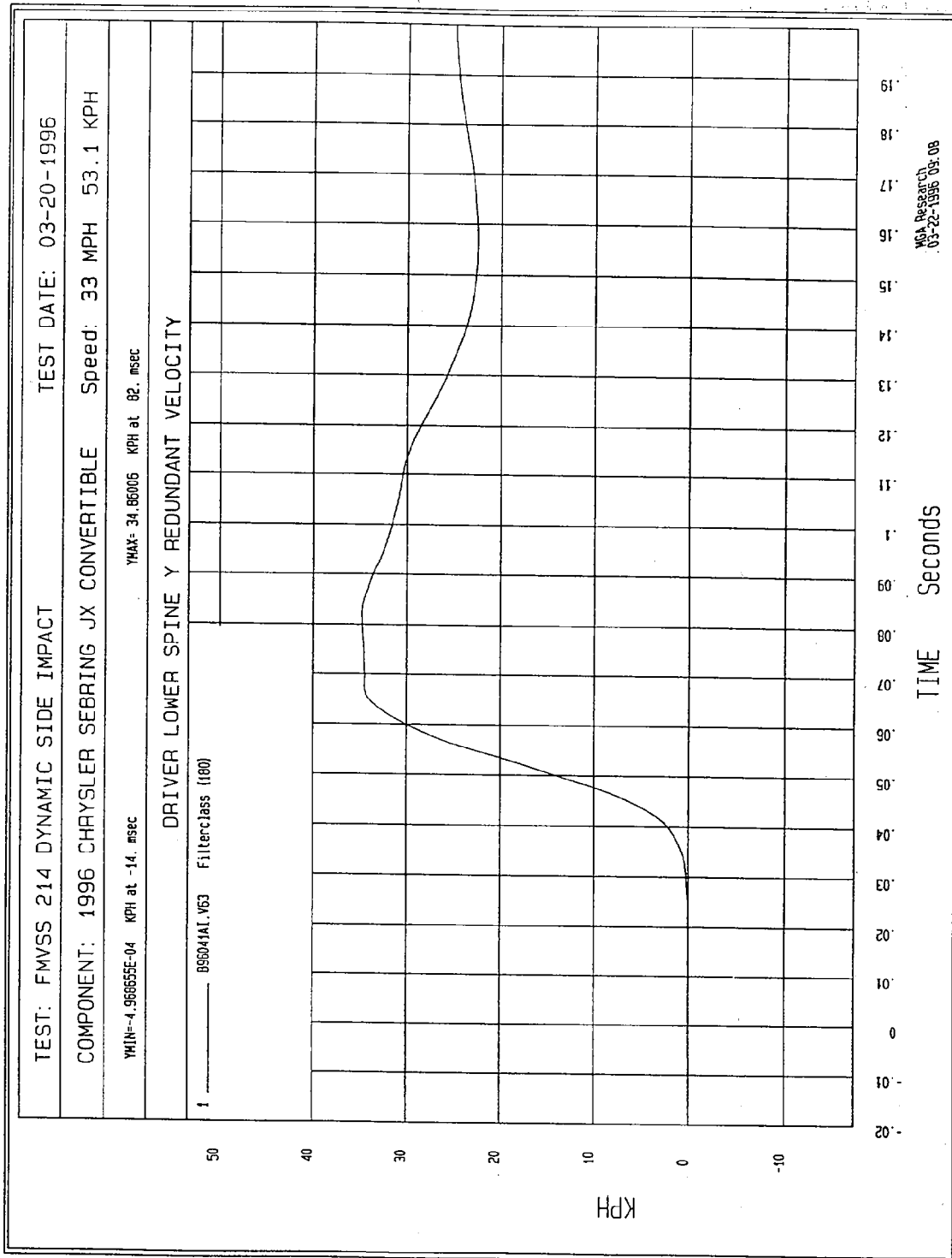


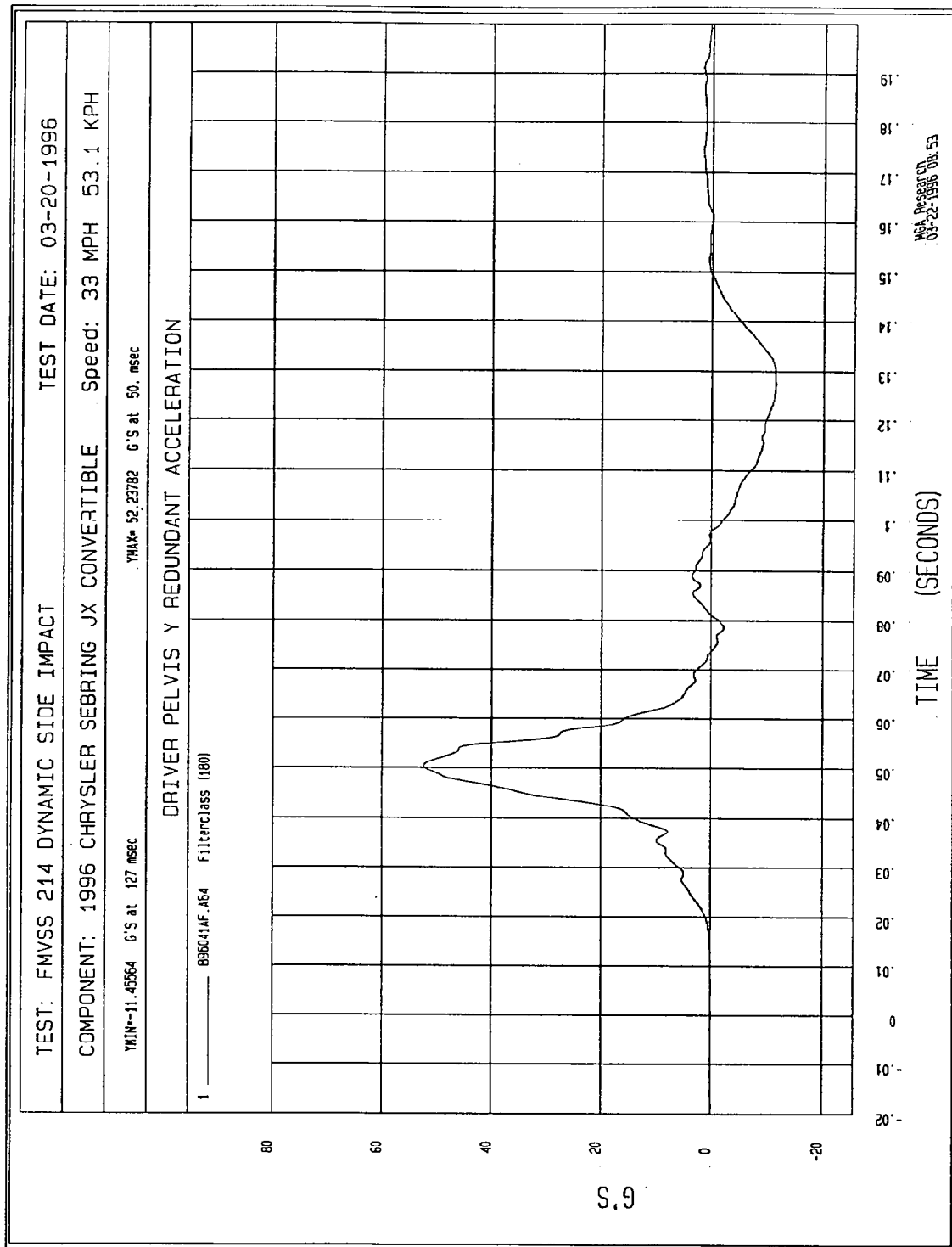


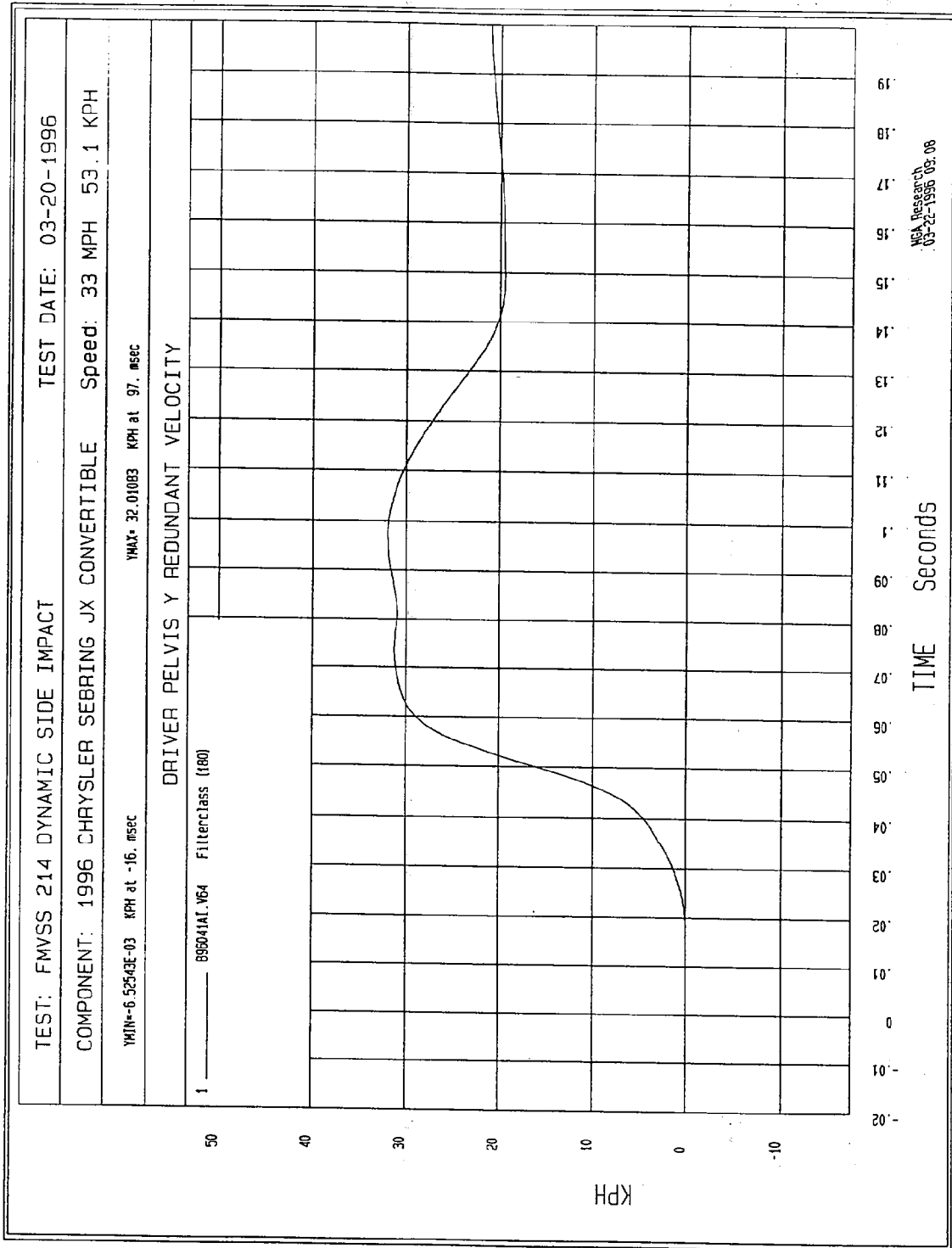


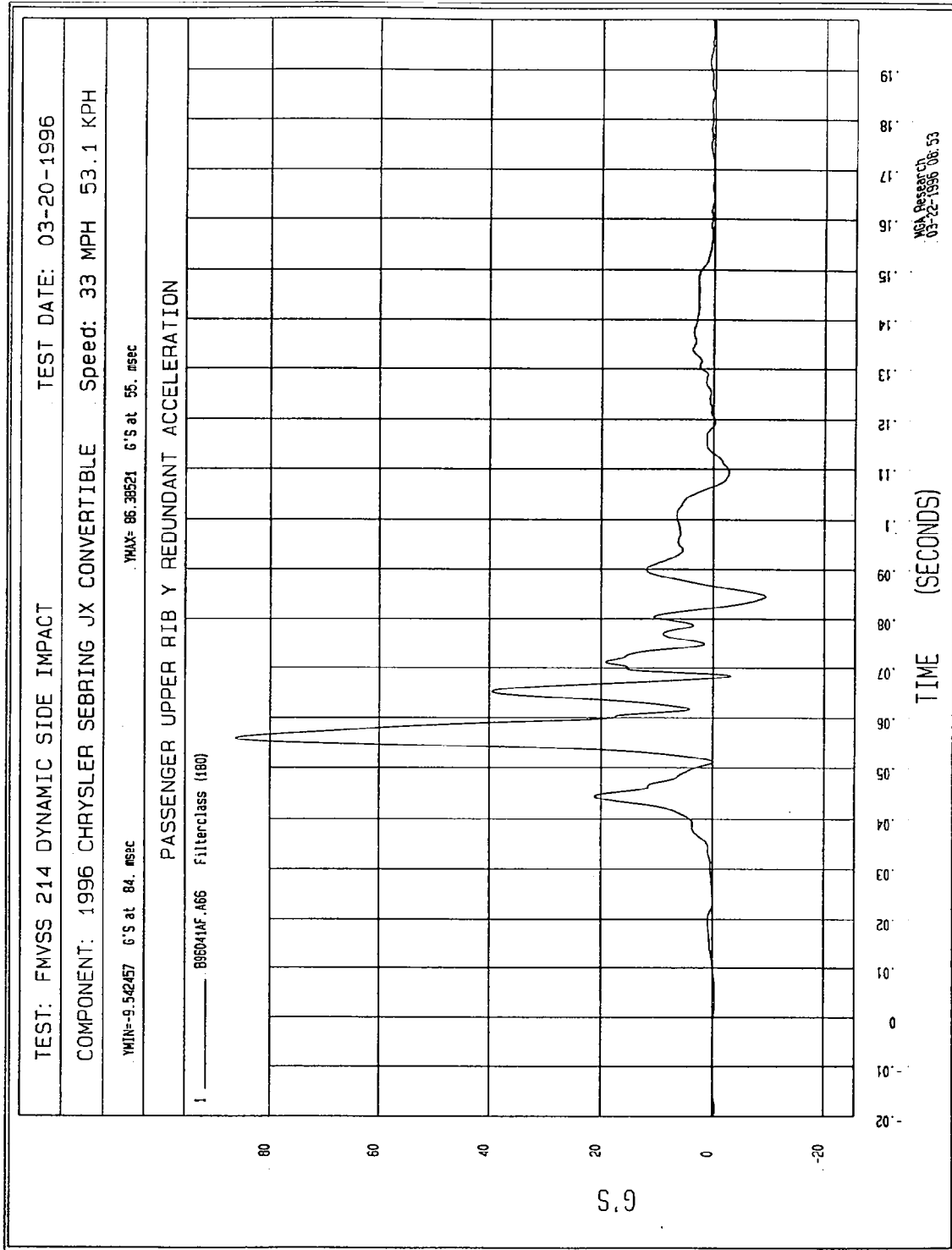


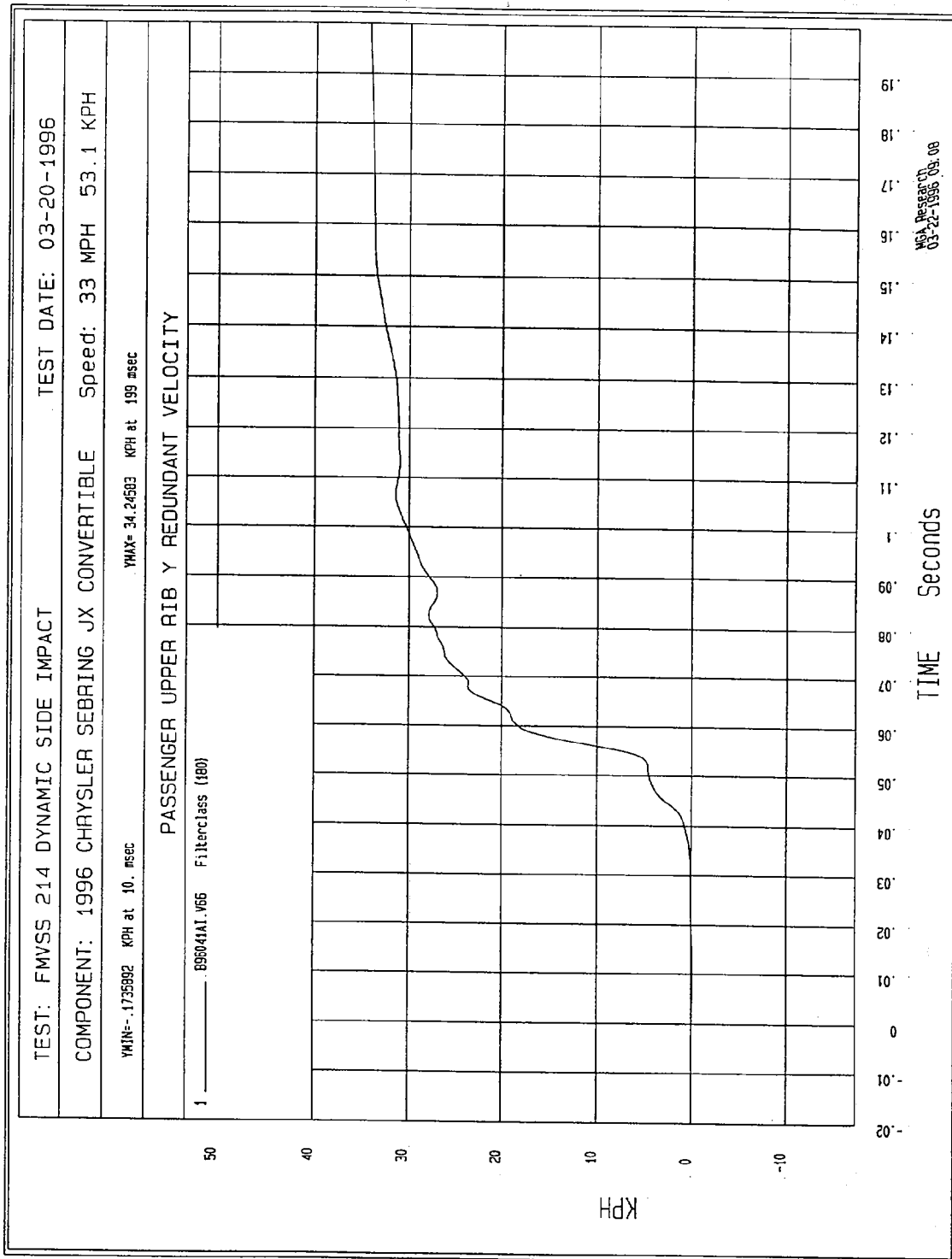


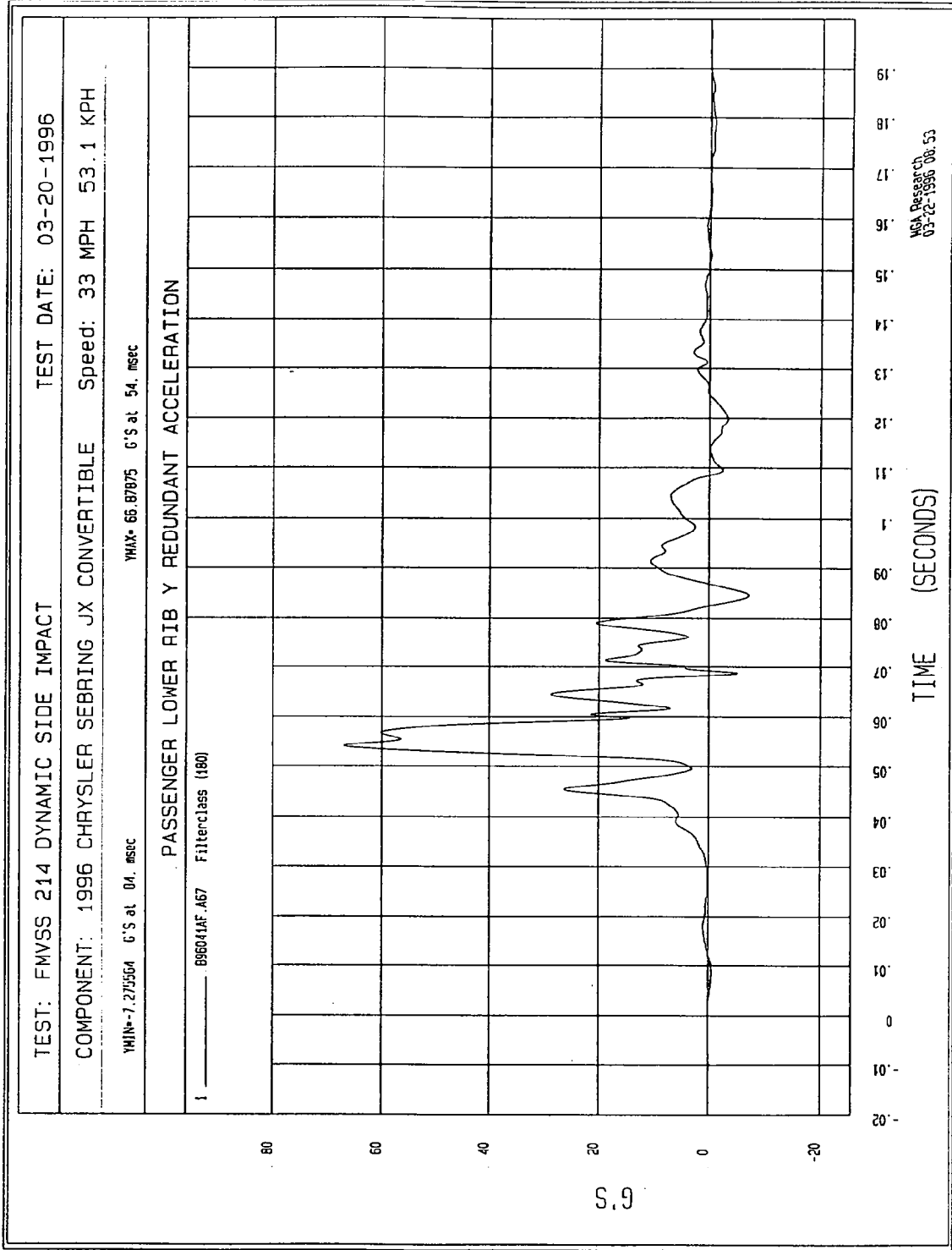




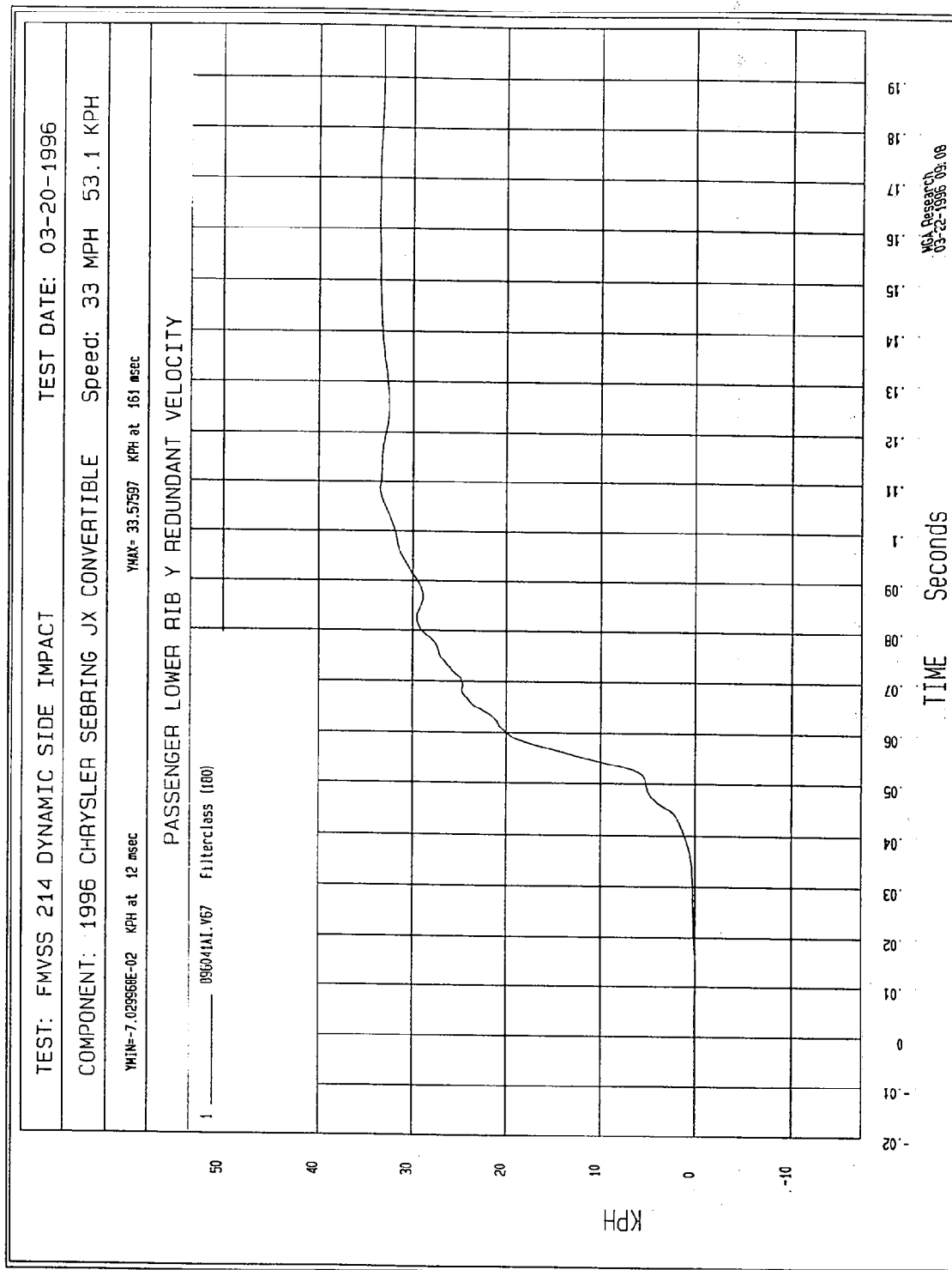


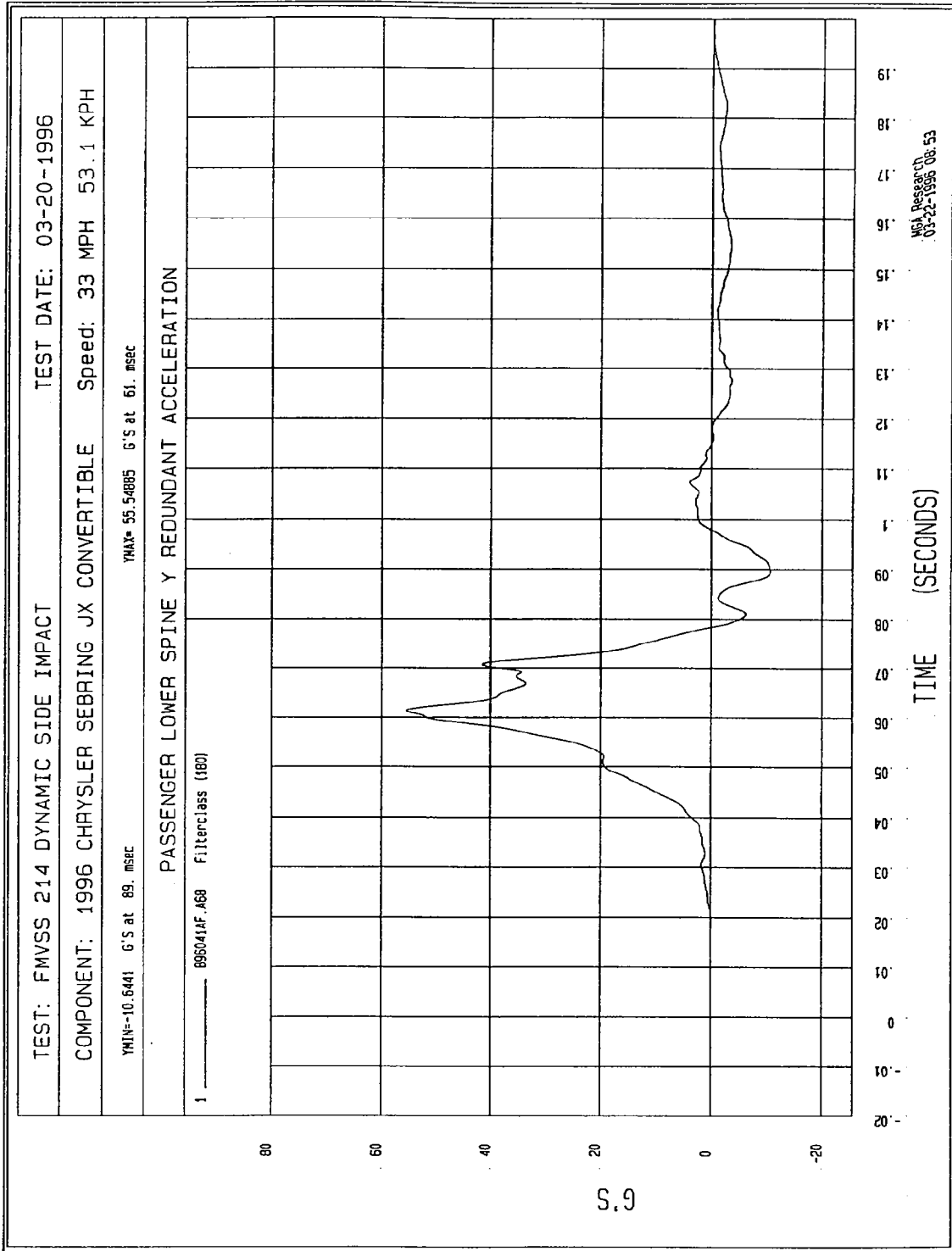


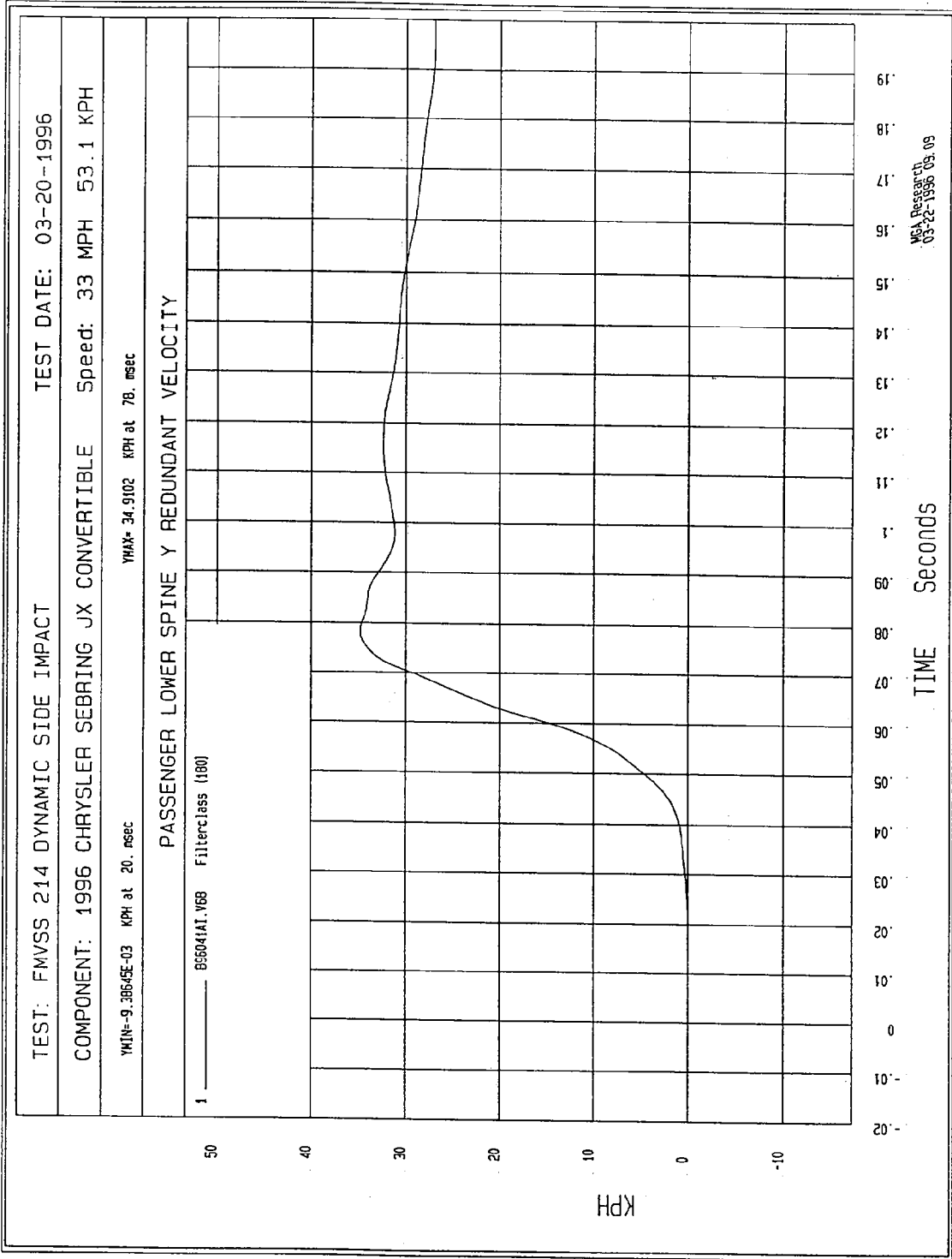


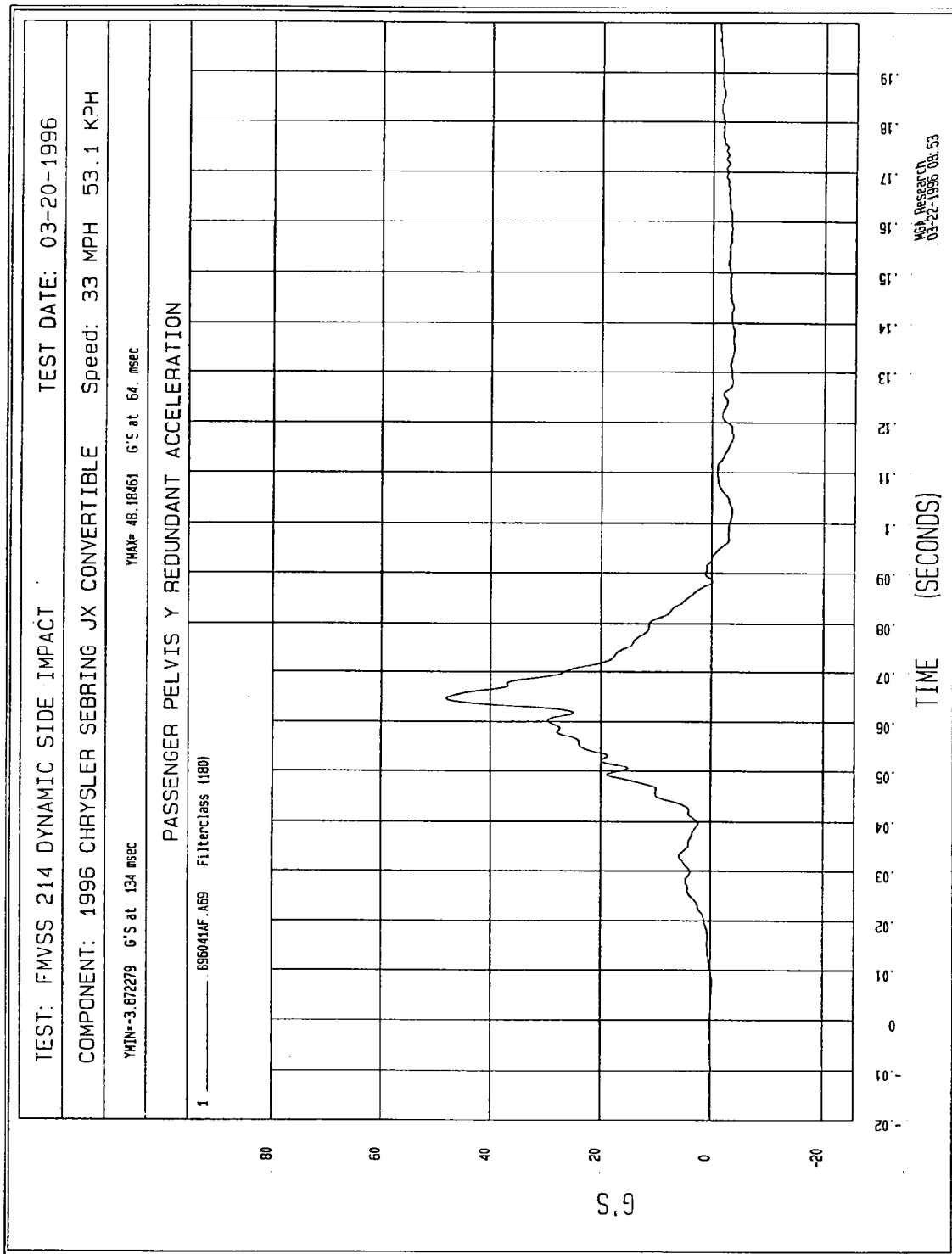


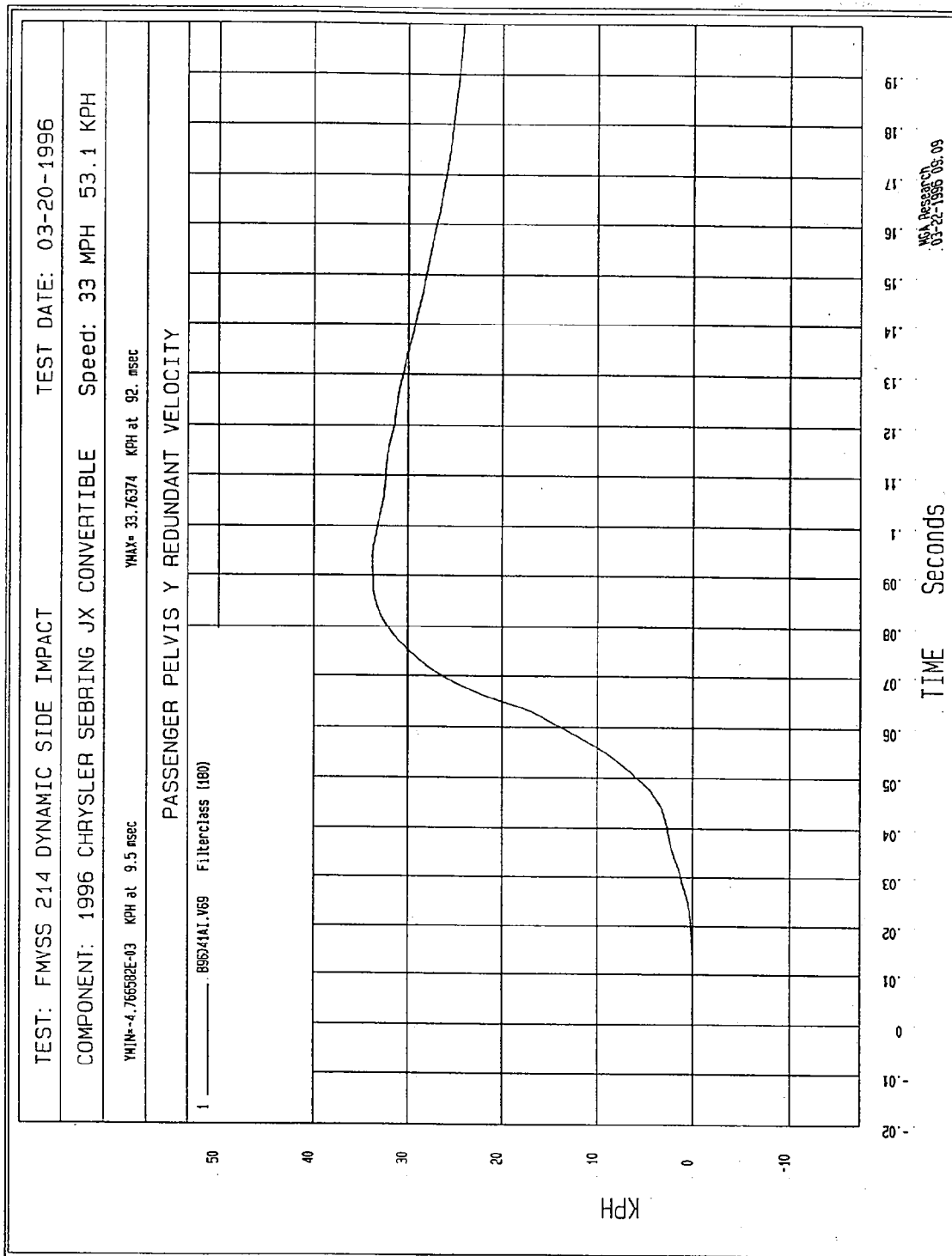
MGA Research
03-22-1996 06:53



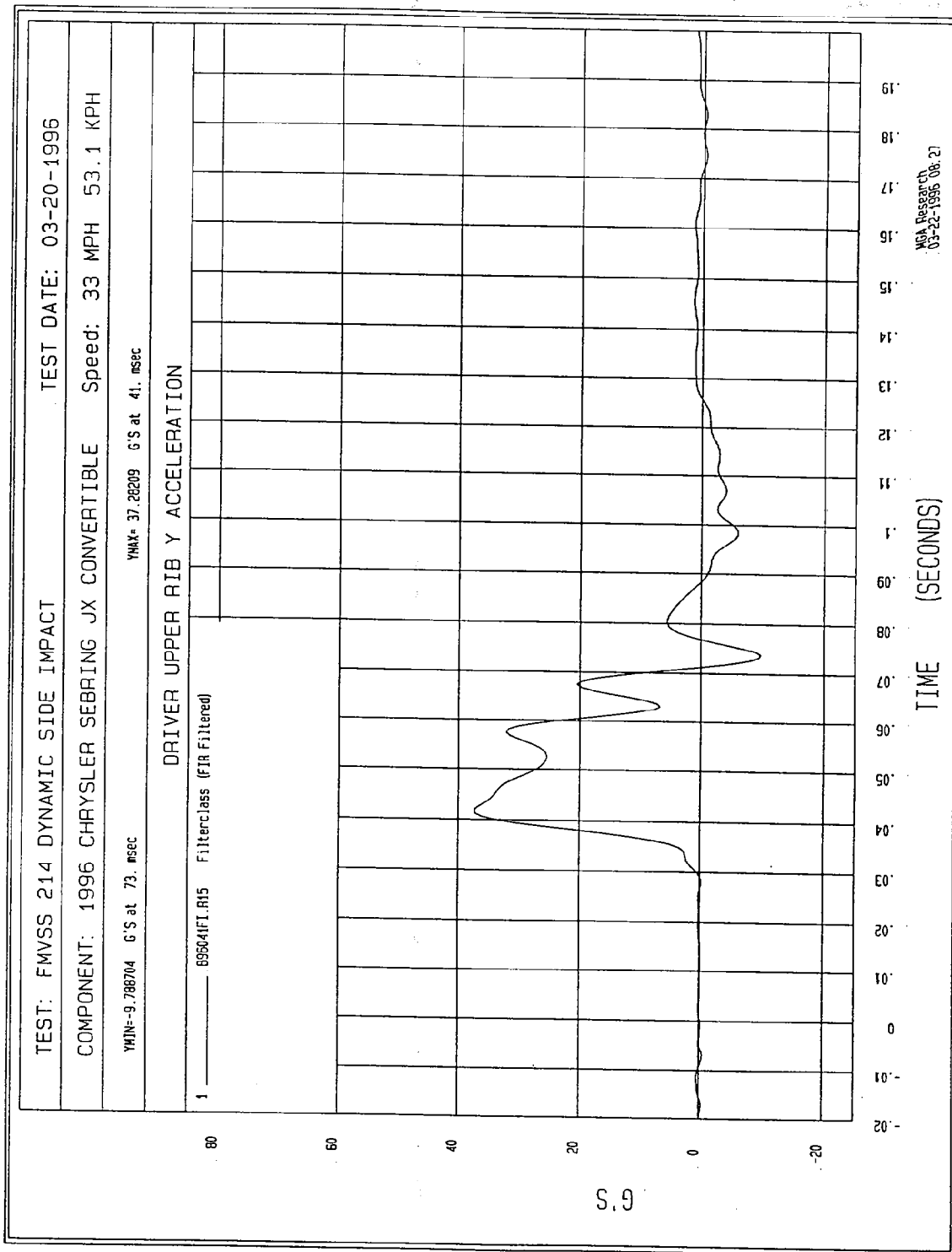


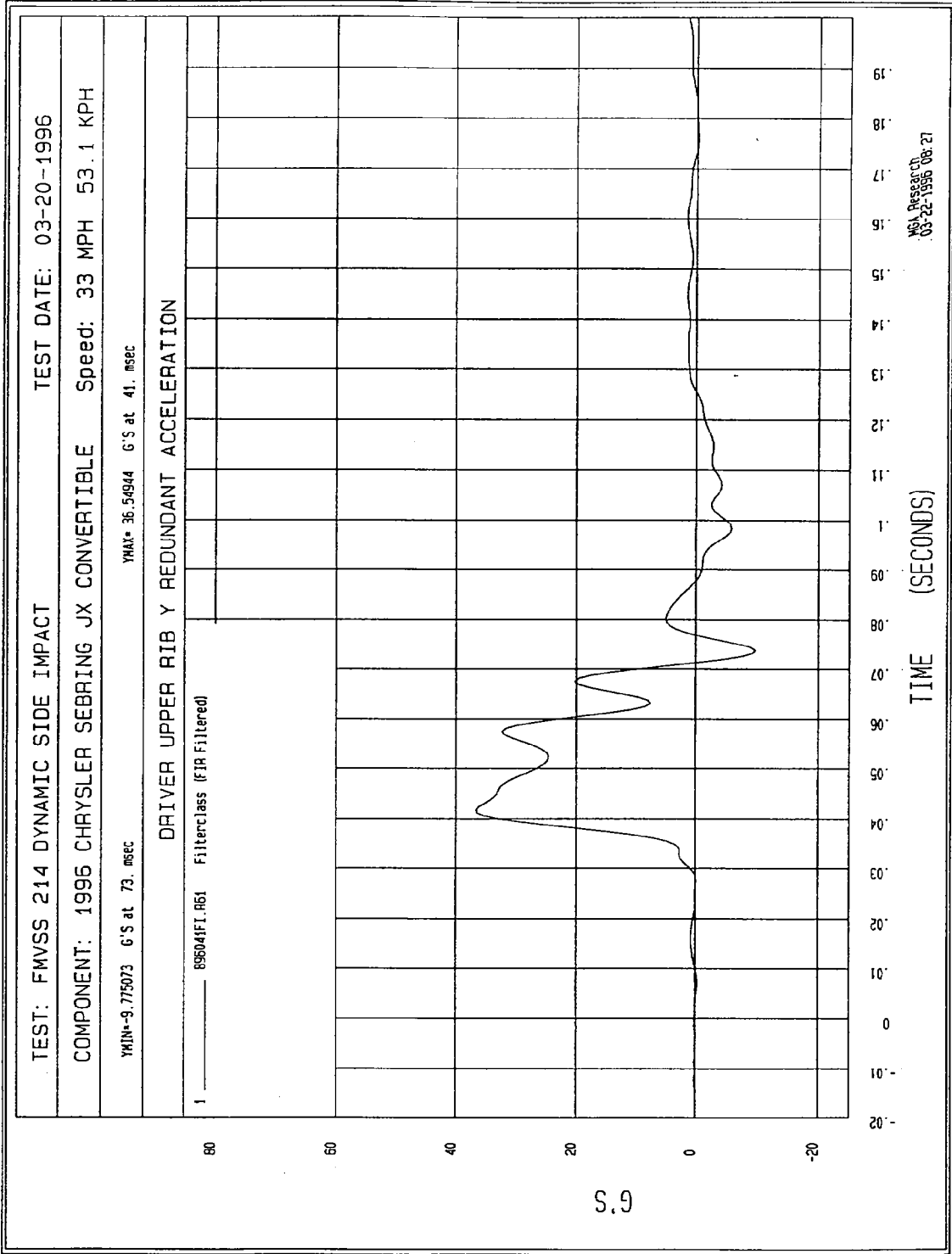


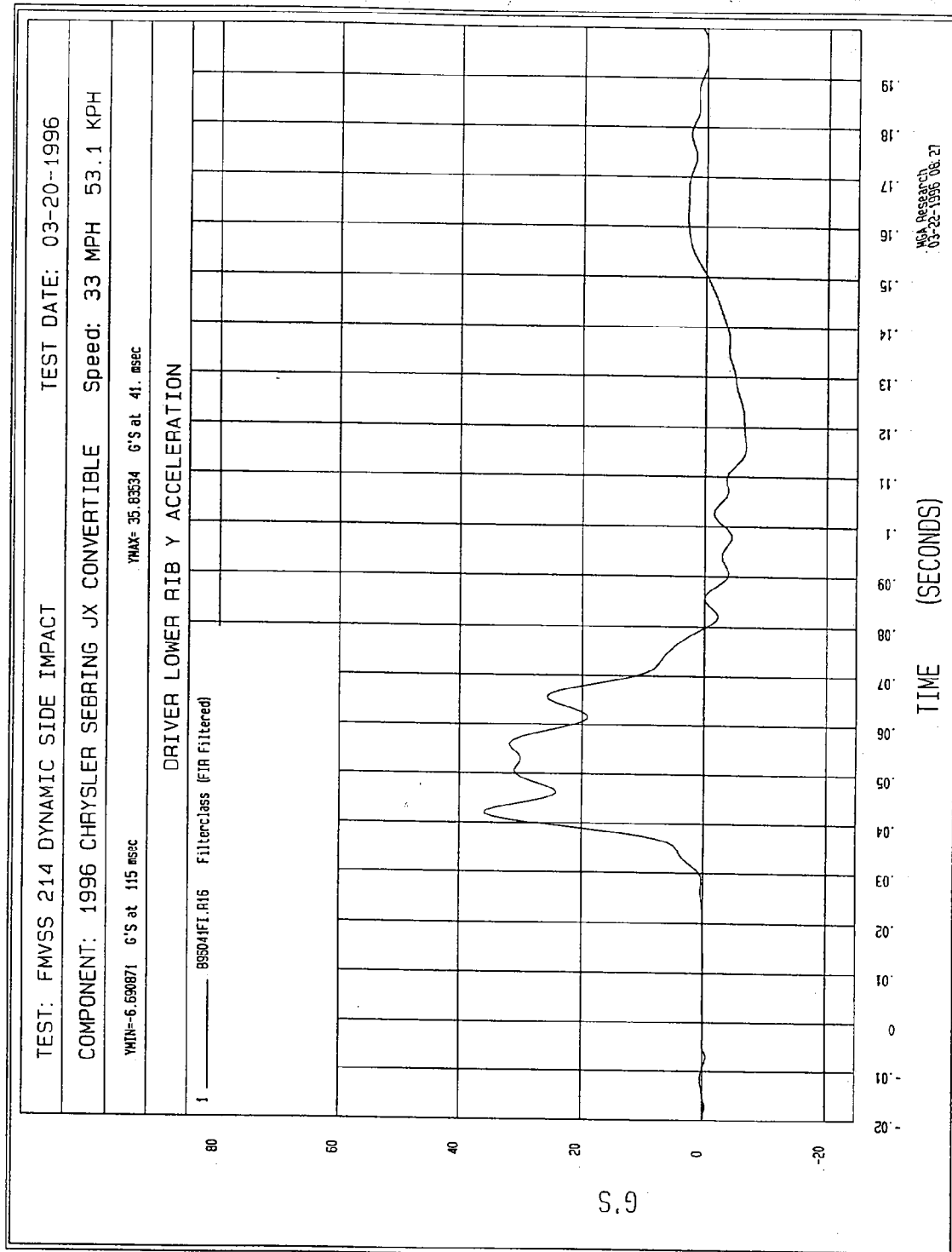


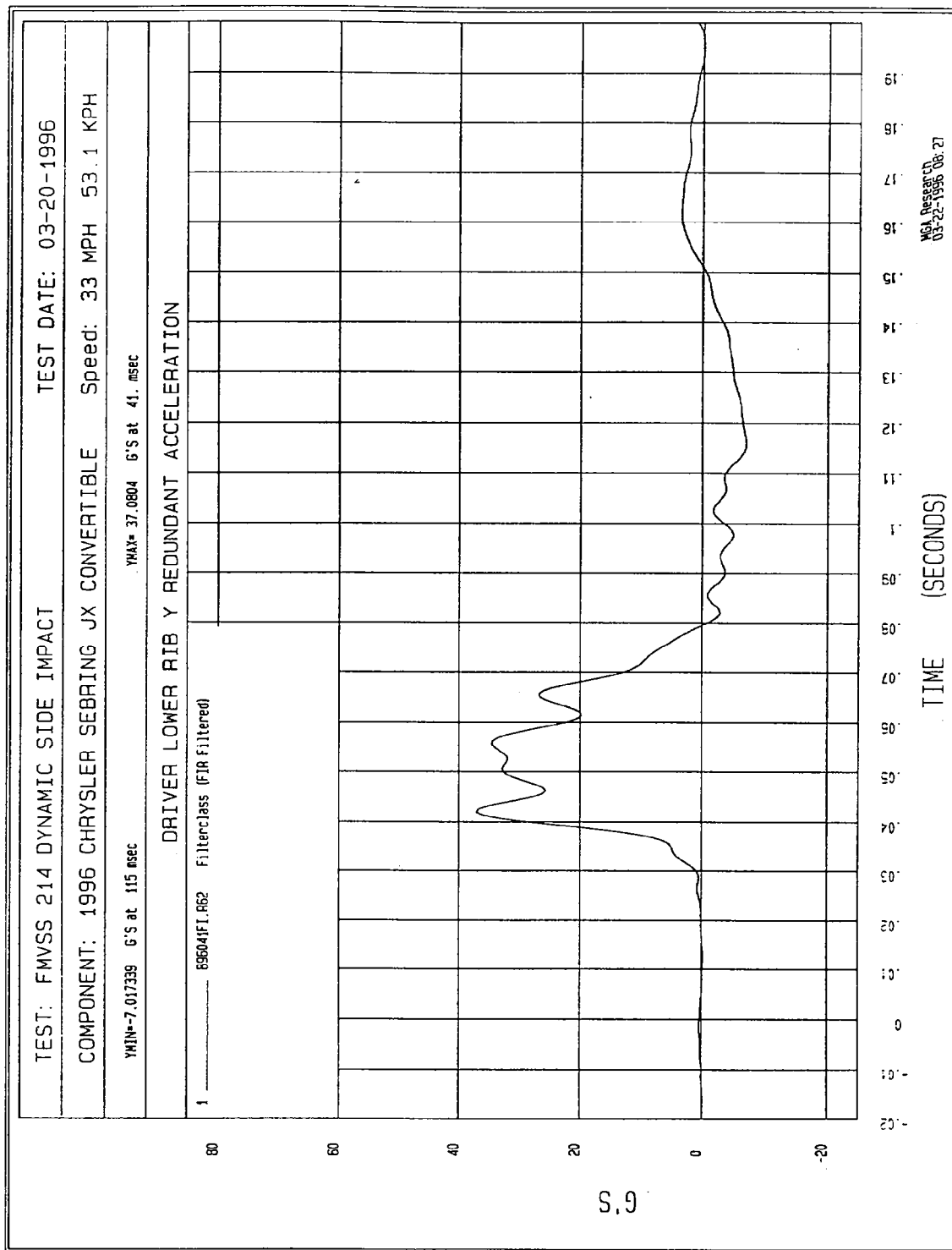


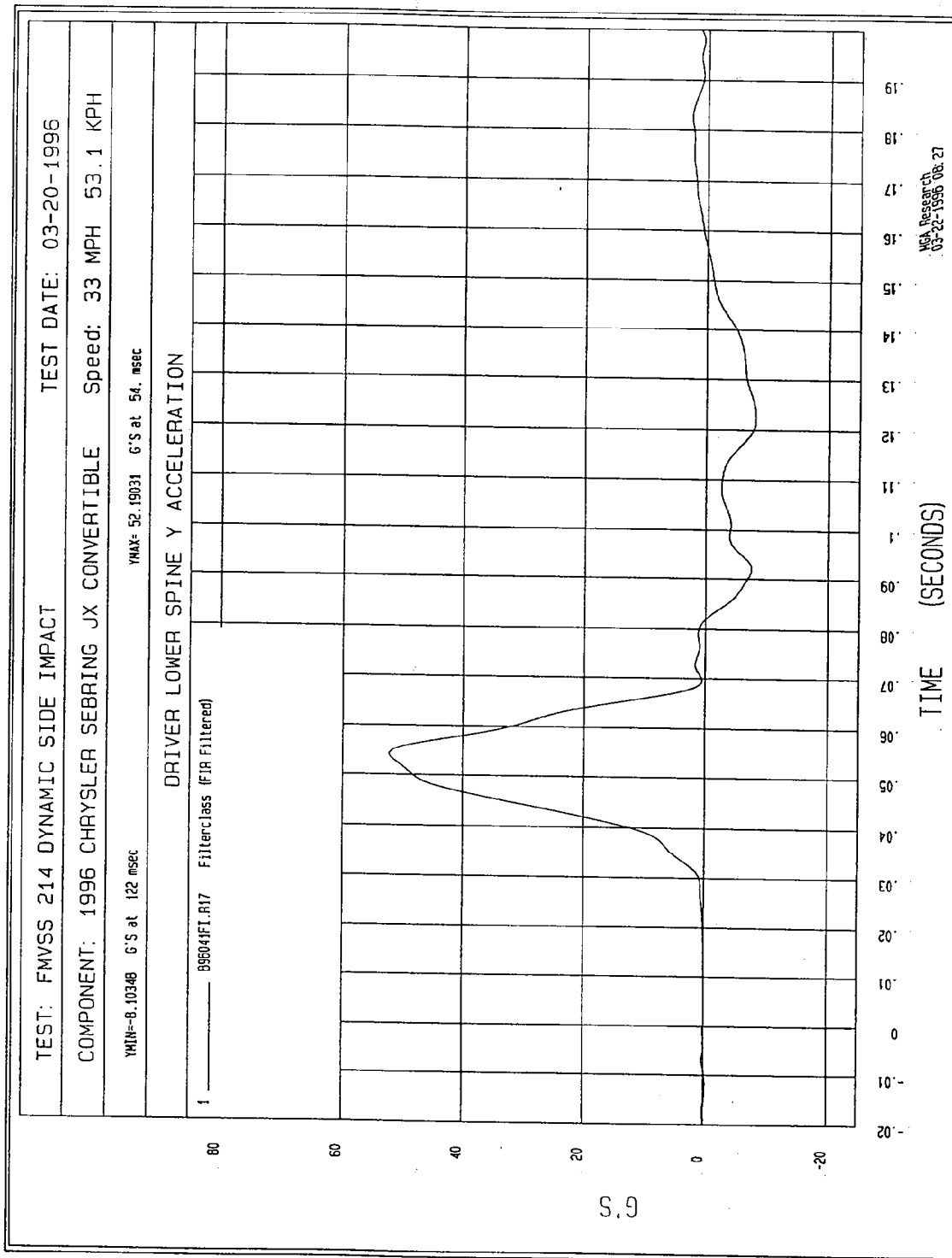
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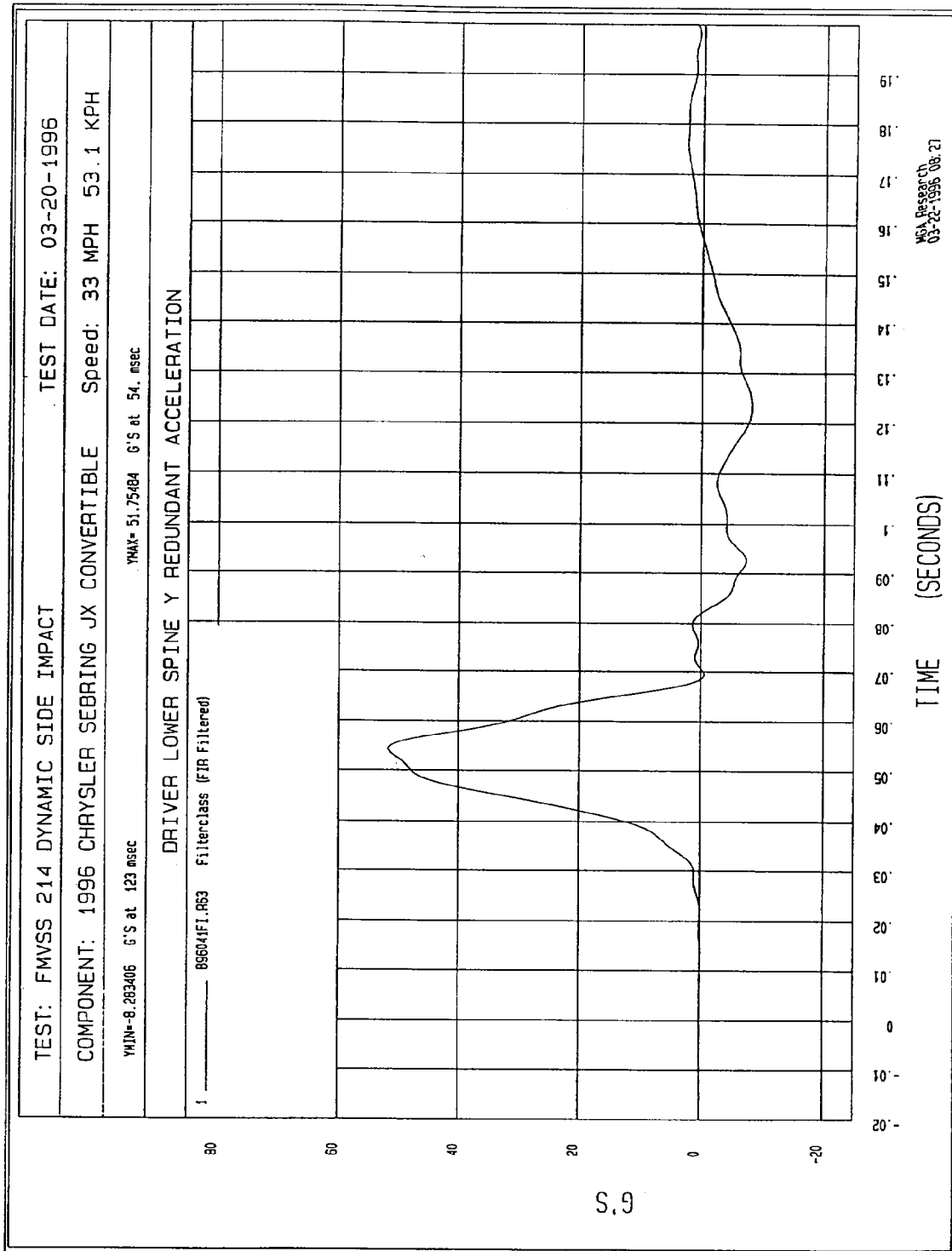


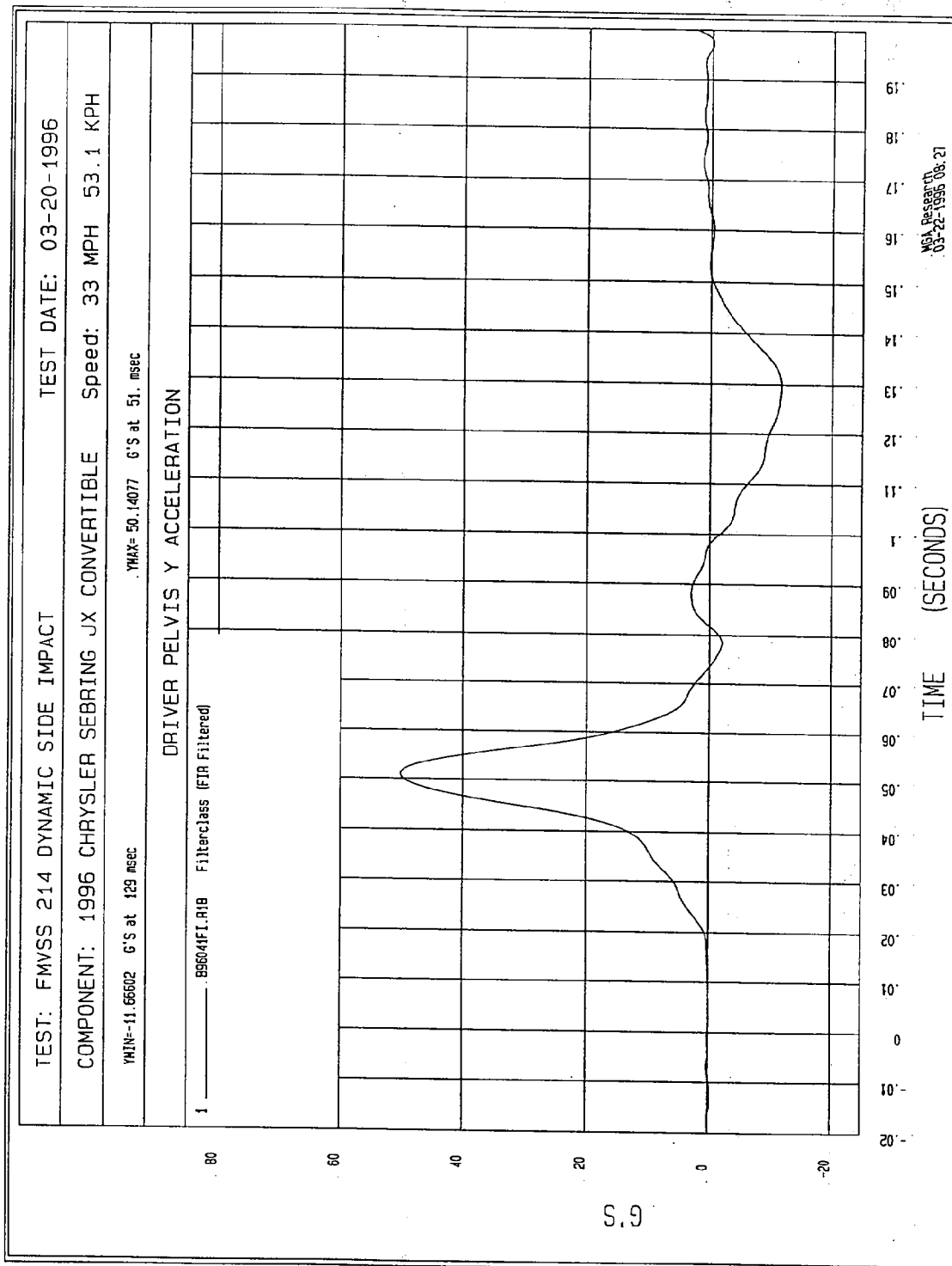


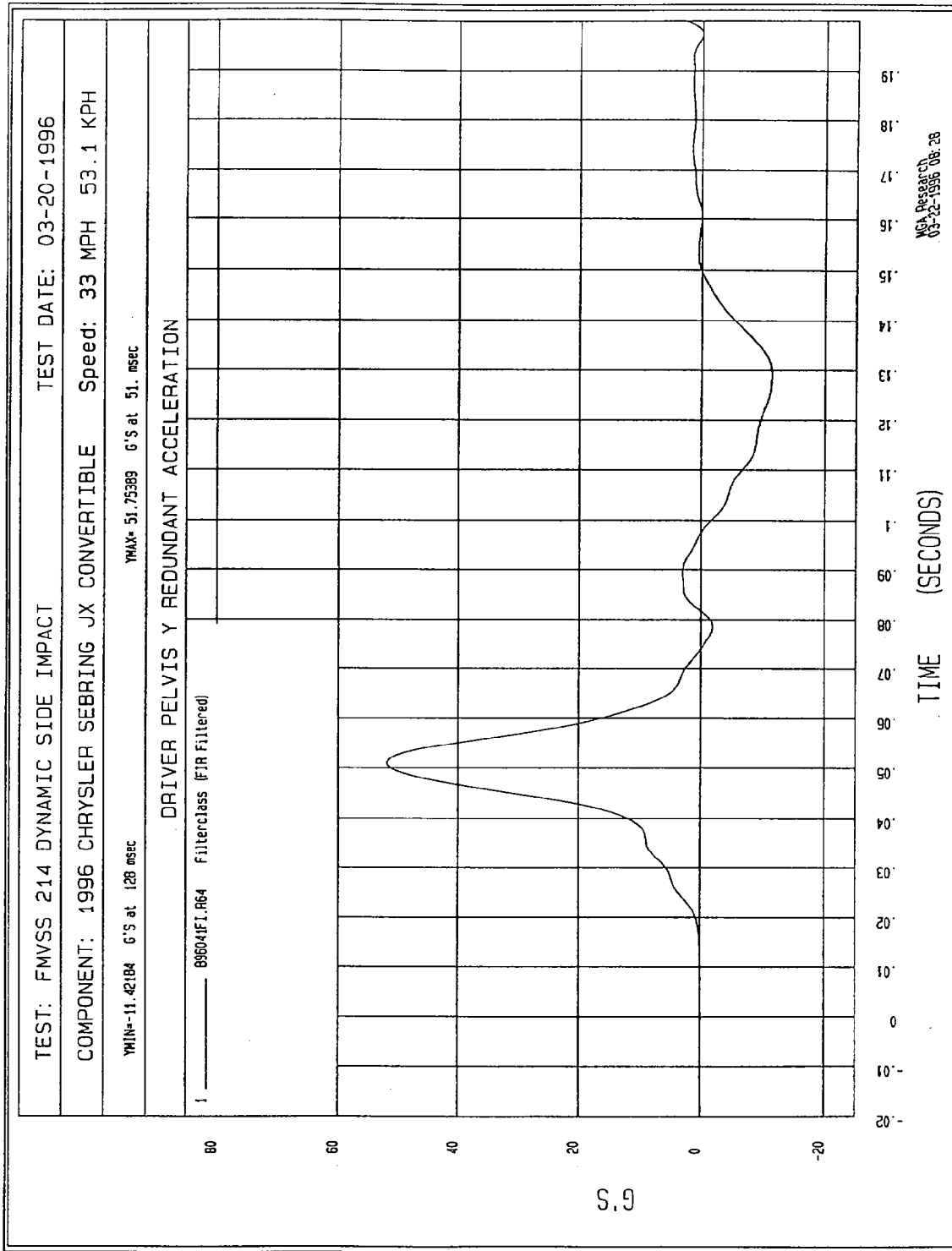


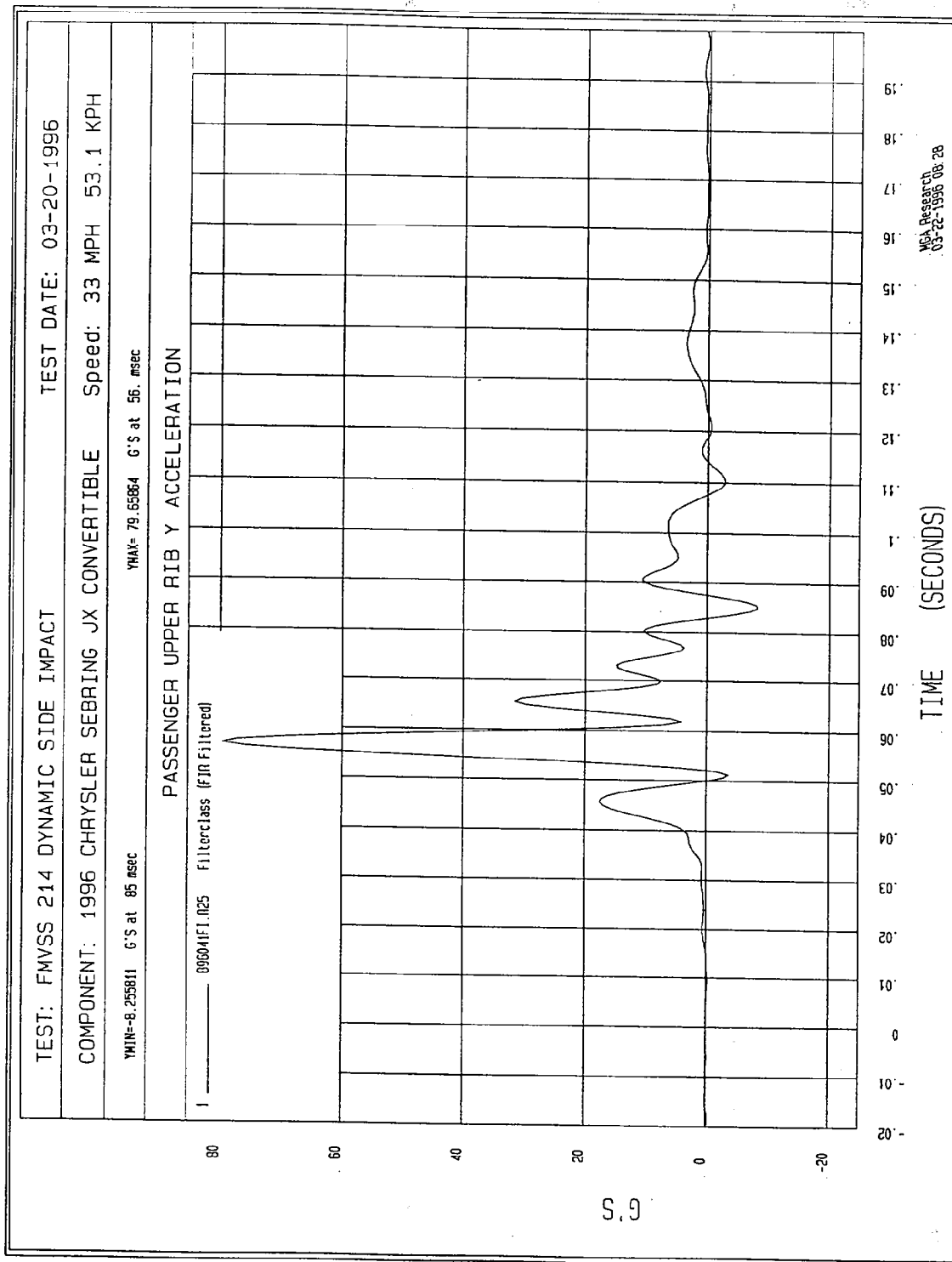


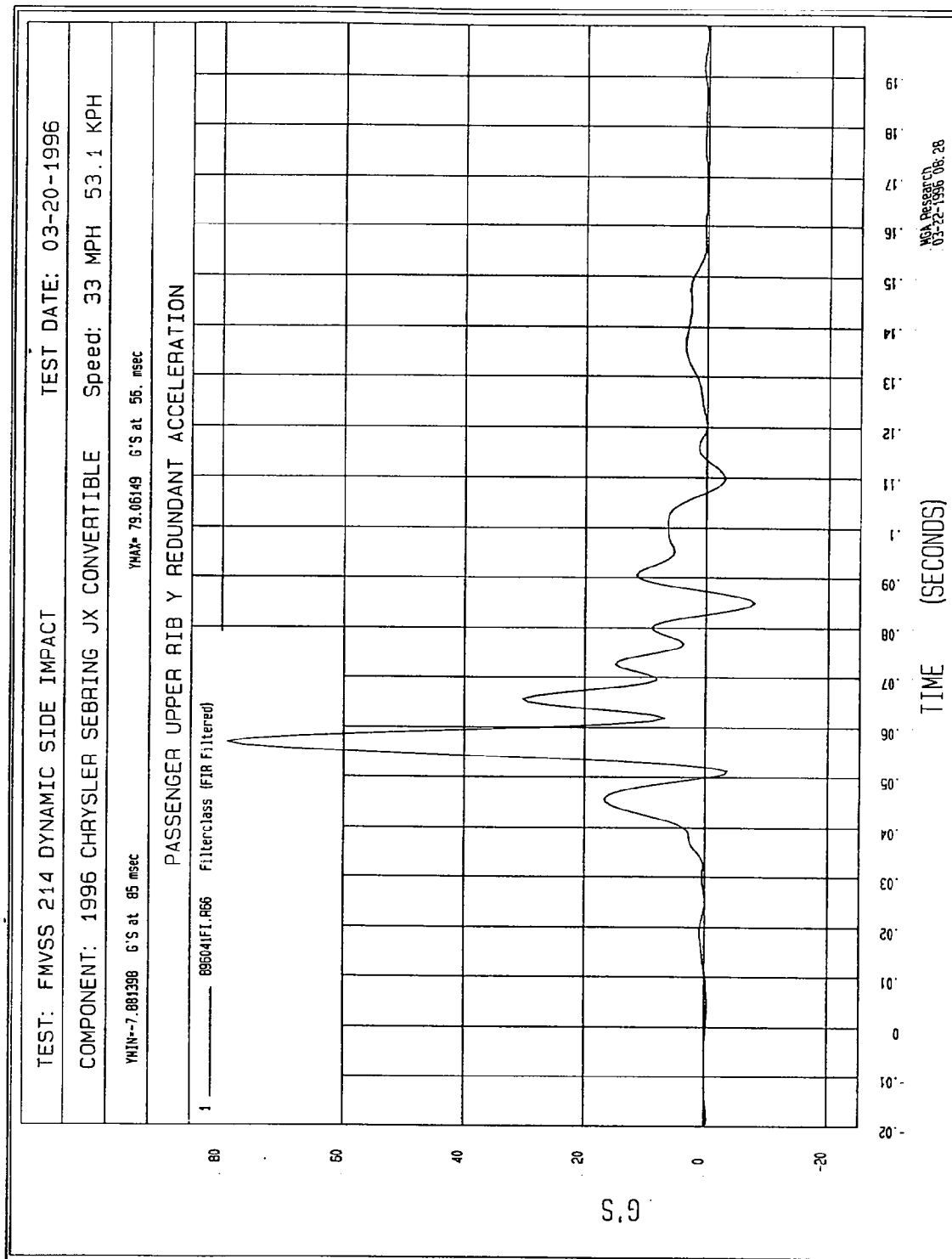


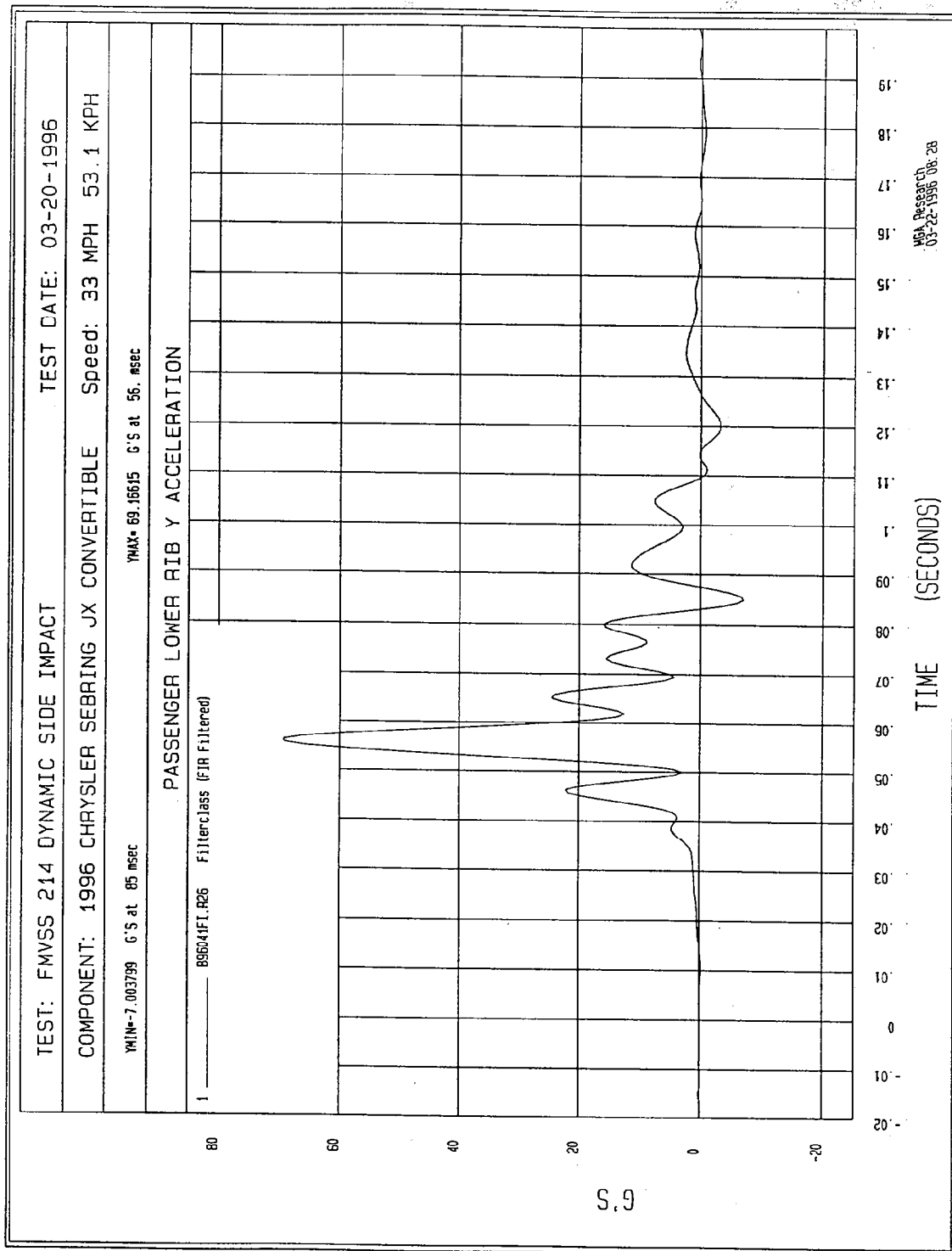


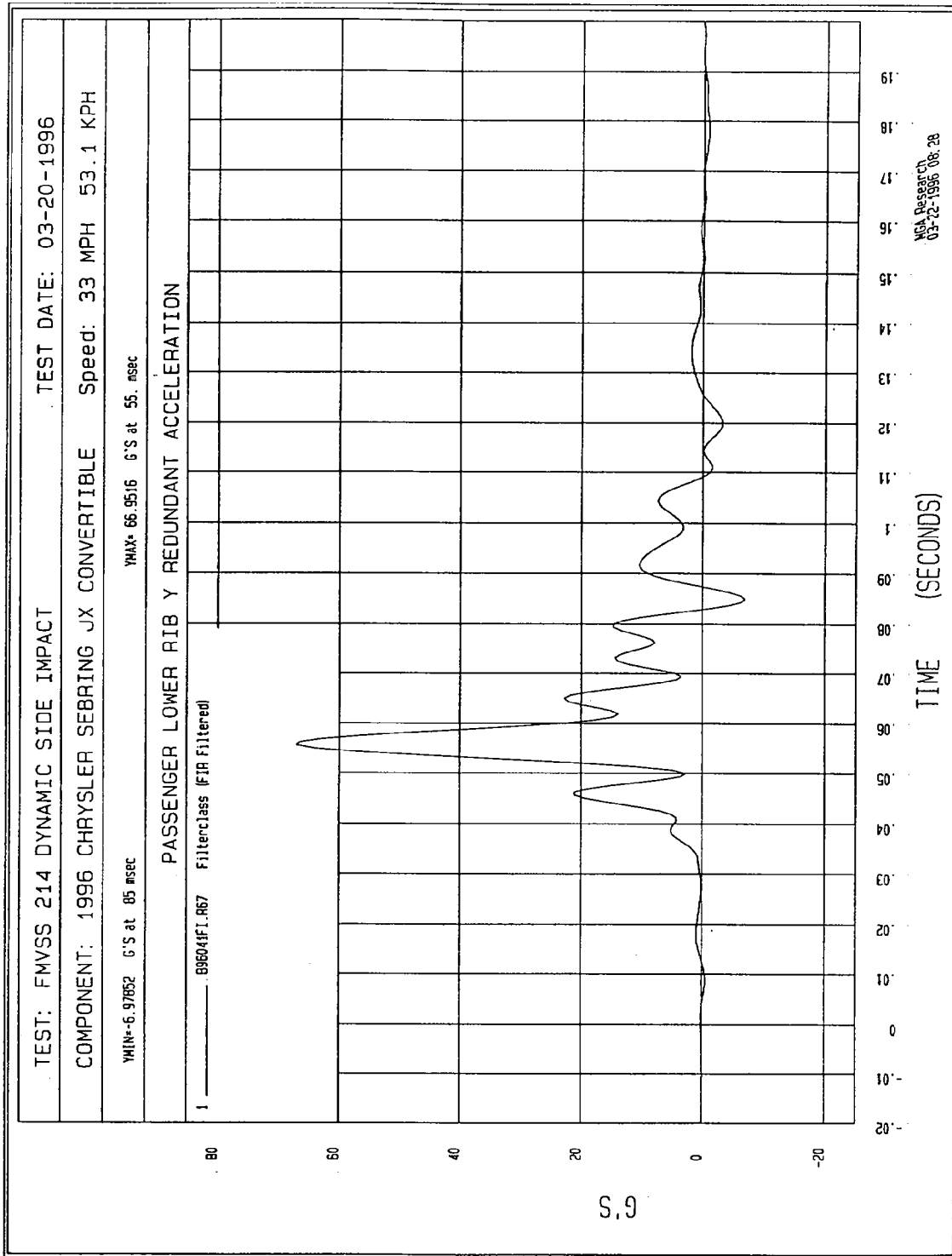


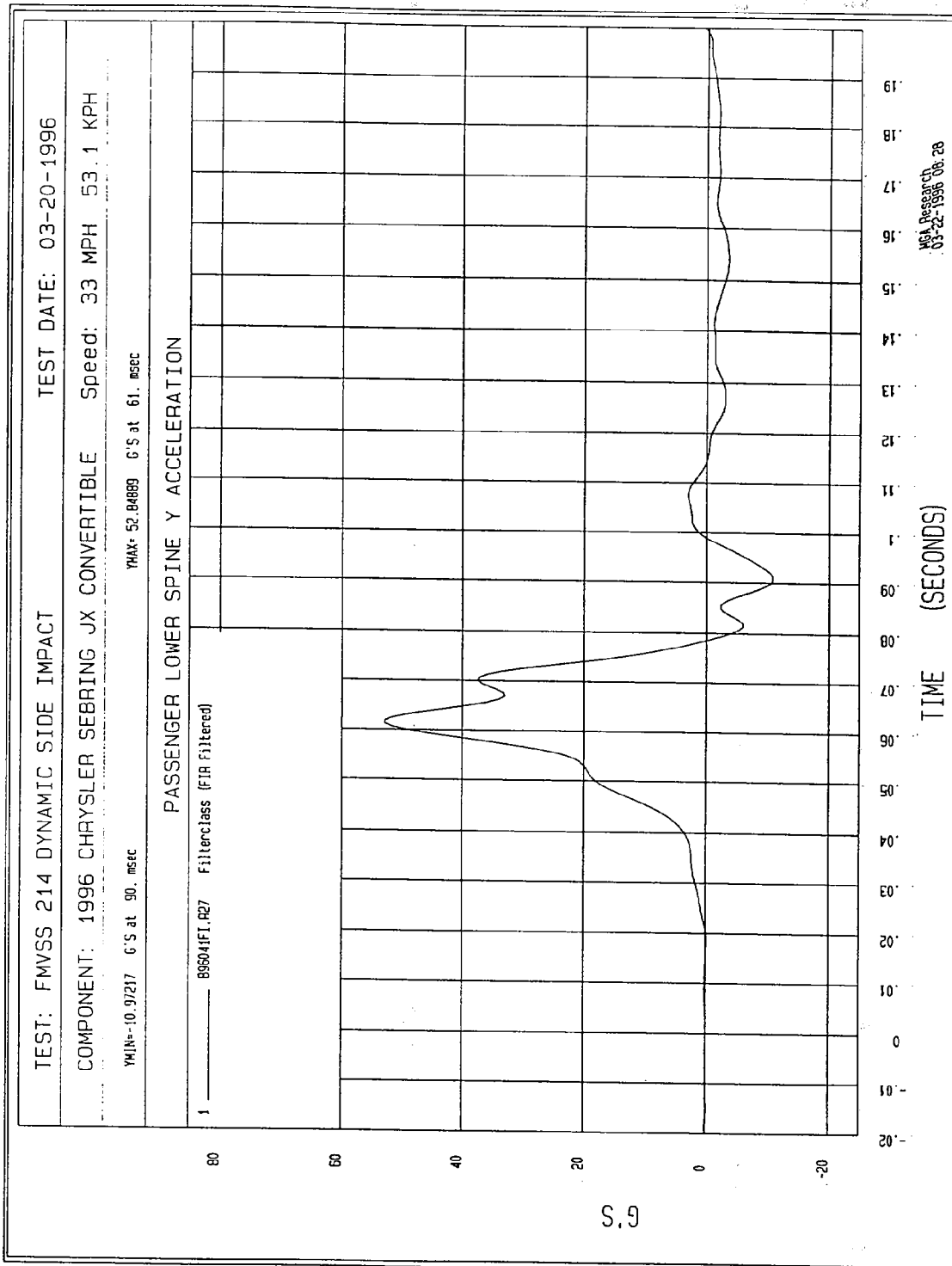


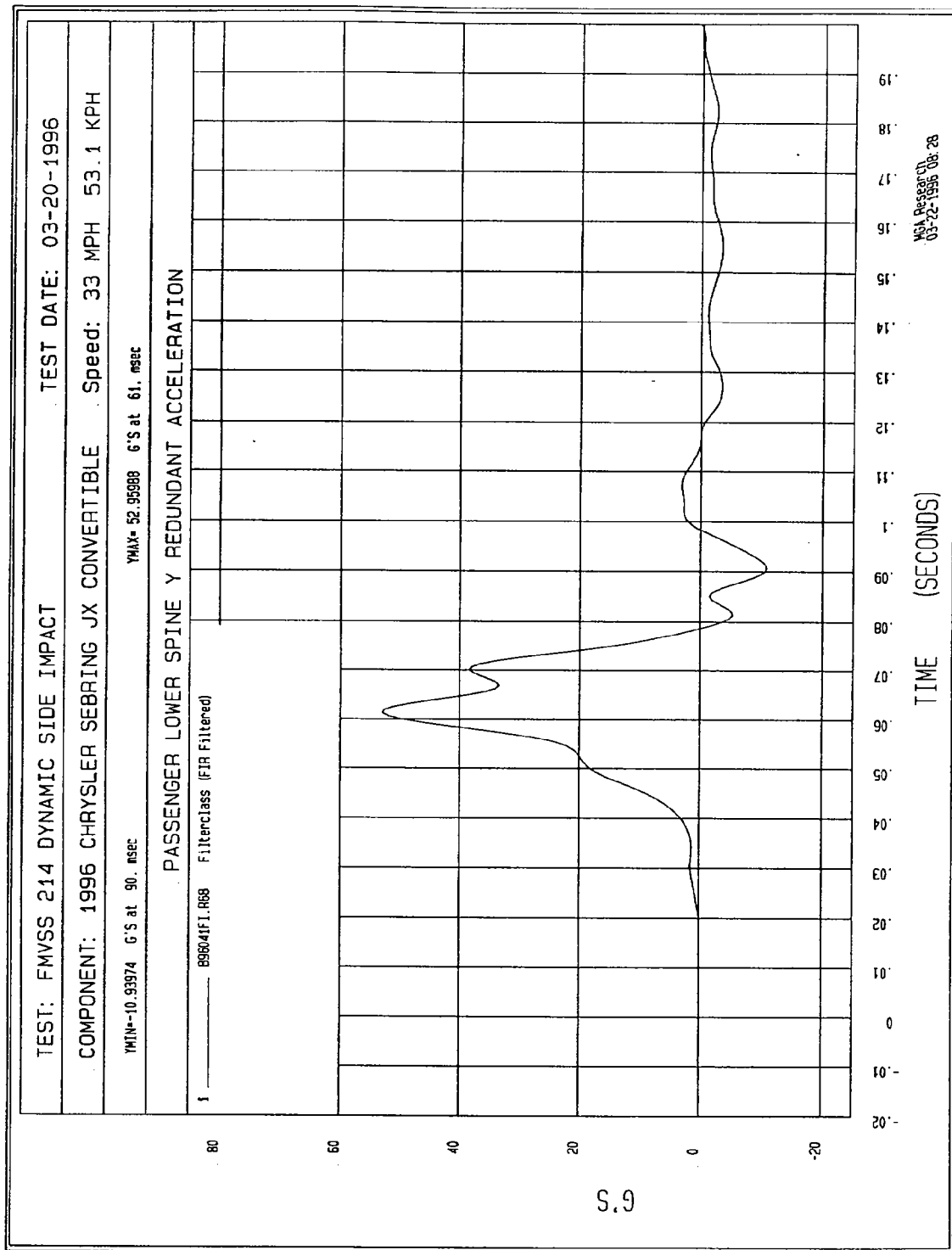












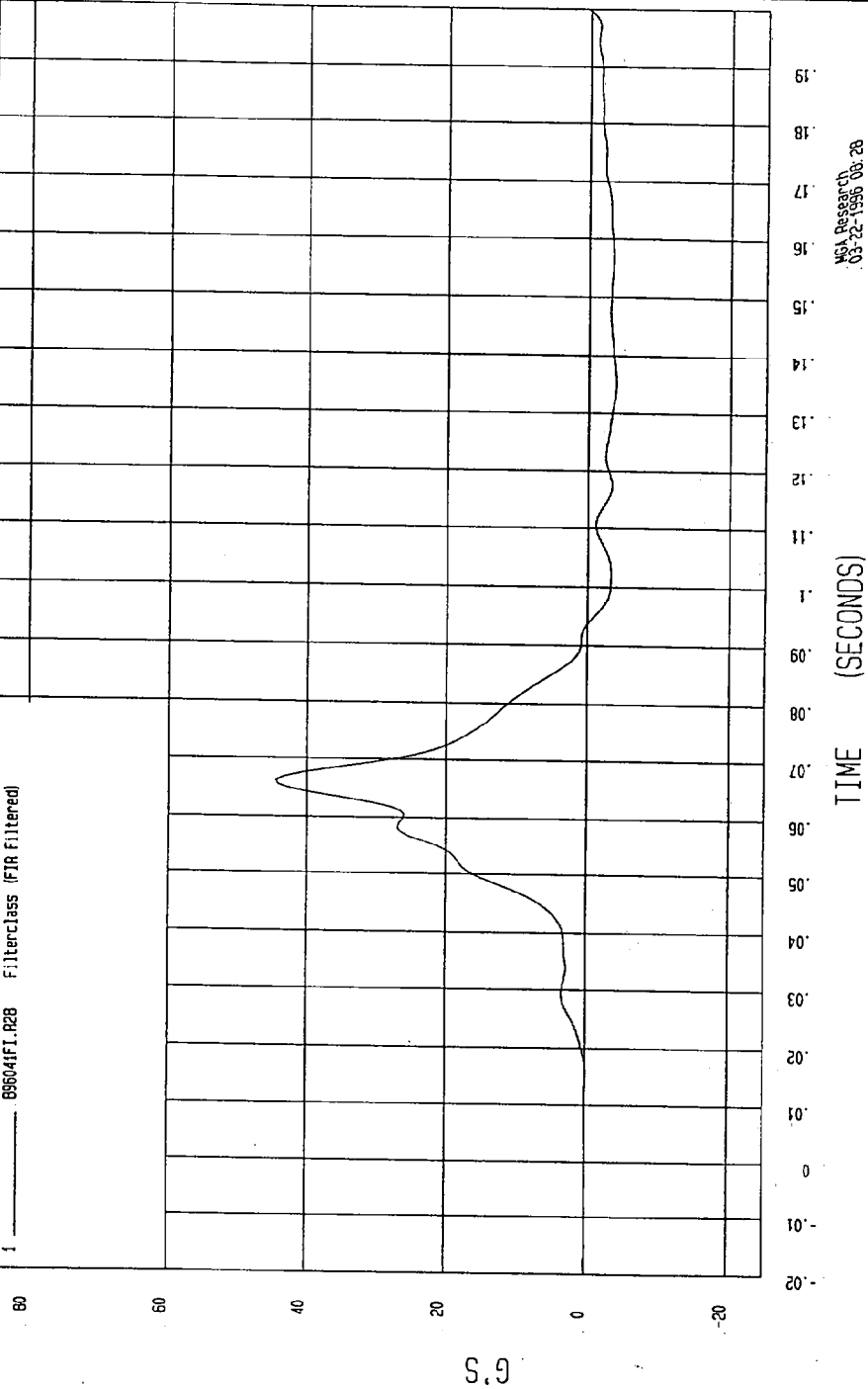
TEST DATE: 03-20-1996

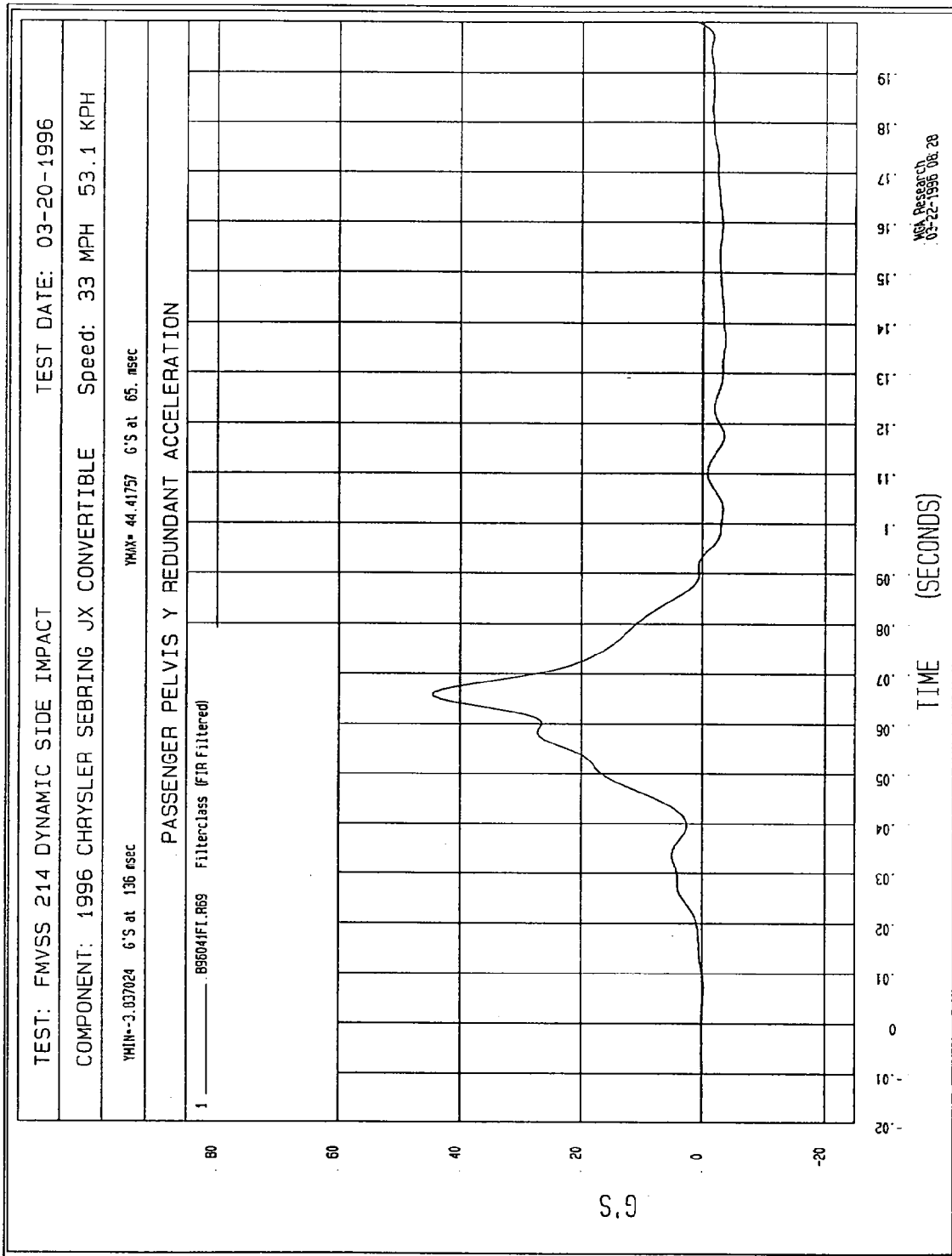
COMPONENT: 1996 CHRYSLER SEBRING JX CONVERTIBLE

YMIN=-3.802517 6'S at 135 msec YMAX= 44.45208 6'S at 65. msec

PASSENGER PELVIS Y ACCELERATION

1	89604FI.R28	Filterclass (FIR Filtered)
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APPENDIX C

SID CONFIGURATION AND PERFORMANCE VERIFICATION

REPORT NO. MGA-96-DC17

DUMMY PERFORMANCE CALIBRATIONS

FMVSS 214 - SIDE IMPACT TEST

CHRYSLER CORPORATION
1996 CHRYSLER SEBRING CONVERTIBLE
NHTSA NO. CT0309

MGA PROVING GROUNDS
5000 WARREN ROAD
BURLINGTON, WI 53105



Test Date: March 20, 1996

Report Date: April 1, 1996

FINAL REPORT

Prepared For:

U. S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
MAIL CODE: NEF-30
400 SEVENTH STREET, S.W., ROOM 6115
Washington, D.C. 20590

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DUMMY S/N: 272	POST-TEST CERTIFICATION DATA	4-1
DUMMY S/N: 271	POST-TEST INSPECTION CHECKLIST	5-1
DUMMY S/N: 272	POST-TEST INSPECTION CHECKLIST	6-1
	VEHICLE AND DUMMY TEMPERATURE	7-1

PRE-TEST CERTIFICATION DATA

Driver Dummy Serial Number: 271

Calibration Test Results Summary

Dummy Serial Number: 271

Pre-Test Calibration

External Dimensions:	The dummy passed all external dimension 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.

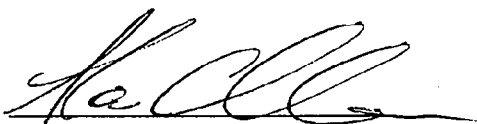
SIDE IMPACT DUMMY CONFIGURATION AND PERFORMANCE VERIFICATION DATA

DUMMY NO.: 271

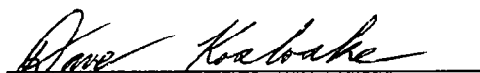
DATE OF VERIFICATION: March 4, 1996

DESCRIPTION	SPECIFICATION	TEST RESULTS
SH - Seated Height	35.0" - 35.8"	35.4
RH - Rib Height	19.75" - 20.50"	20.40
HP - Hip Pivot Height	3.9" ref.	3.9
RD - Rib From Back Line	9.0" to 9.5"	9.4
KV - Knee Pivot From Back Line	20.1" - 20.7"	20.4
SW - Knee Pivot to Floor	19.3" - 19.9"	19.5
HW - Hip Width	14.0" - 15.4"	15.0

MEASUREMENTS BY:



APPROVED BY:



MGA RESEARCH CORPORATION

THORAX IMPACT TEST

SIDE IMPACT DUMMY (SID)

DATE: March 1, 1996

DUMMY NUMBER: 271

TEST NUMBER: D96432

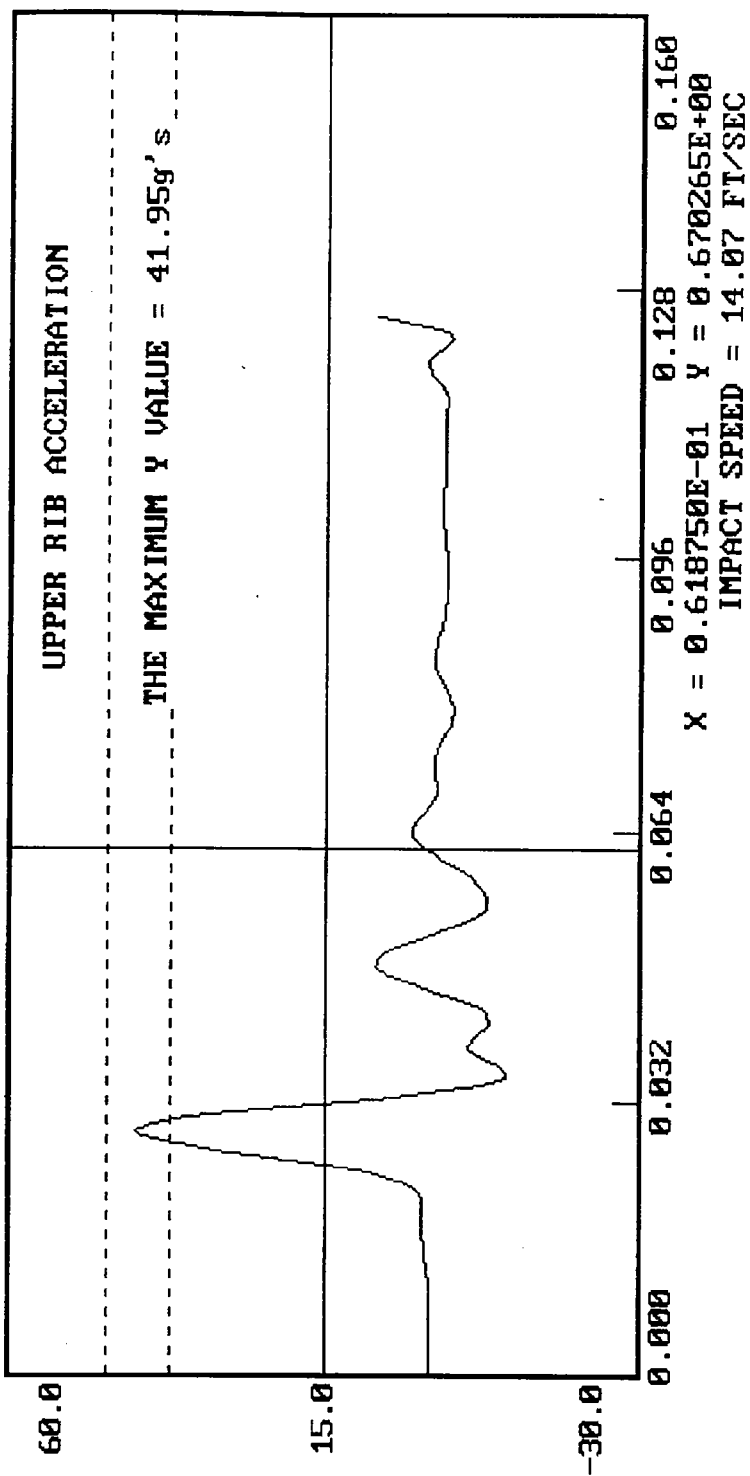
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	66 - 78° F	70°
RELATIVE HUMIDITY	10 - 70%	20%
PROBE SPEED	13.8 - 14.2 fps	14.1
UPPER RIB	37 - 46 g's	42
LOWER RIB	37 - 46 g's	42
LOWER SPINE	15 - 22 g's	20

TEST MEETS SPECIFICATIONS

TECHNICIAN Tim M. I.

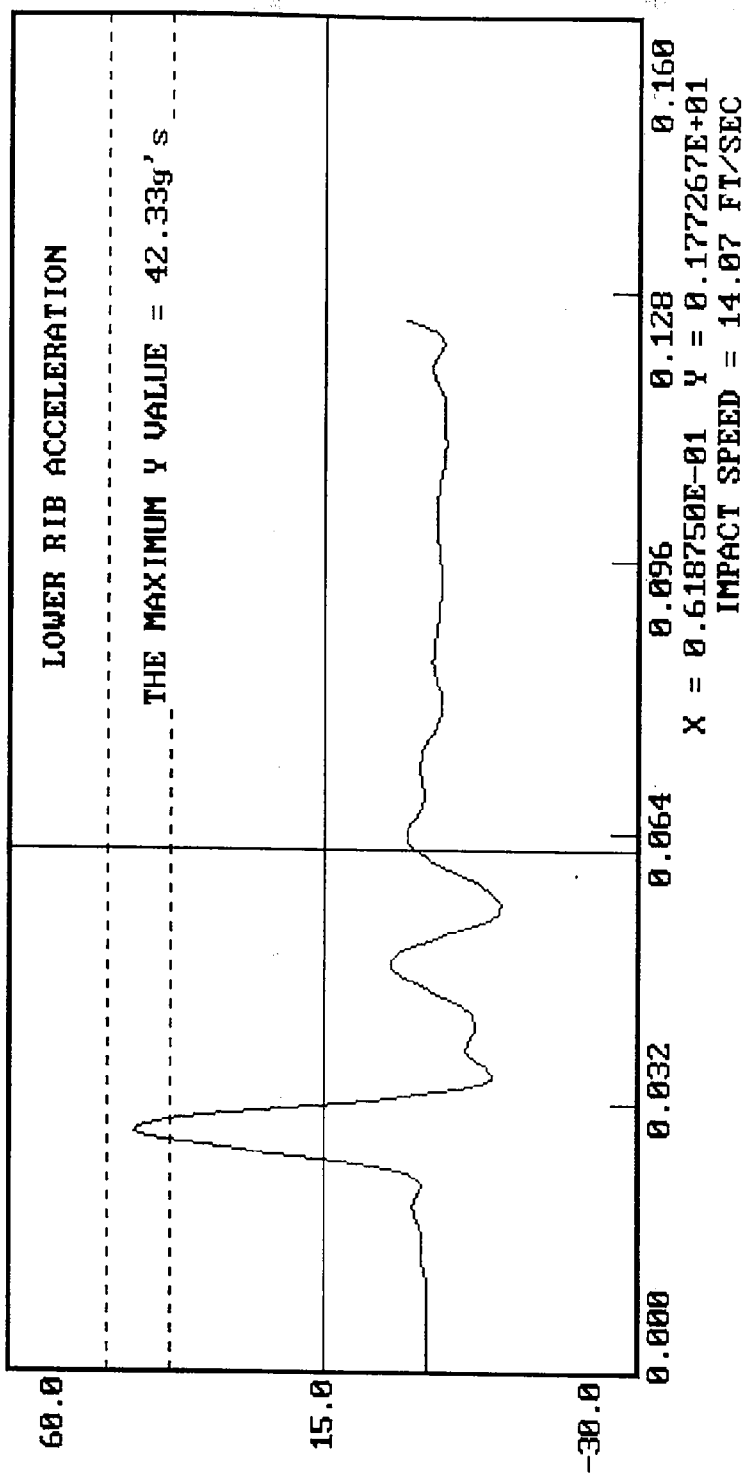
APPROVED BY Rene K. Kabe

DUMMY CALIBRATION - THORAX IMPACT
 DUMMY # 271
 03-01-1996 15:13
 ACCELERATION (G'S) VS. TIME ((SECONDS))



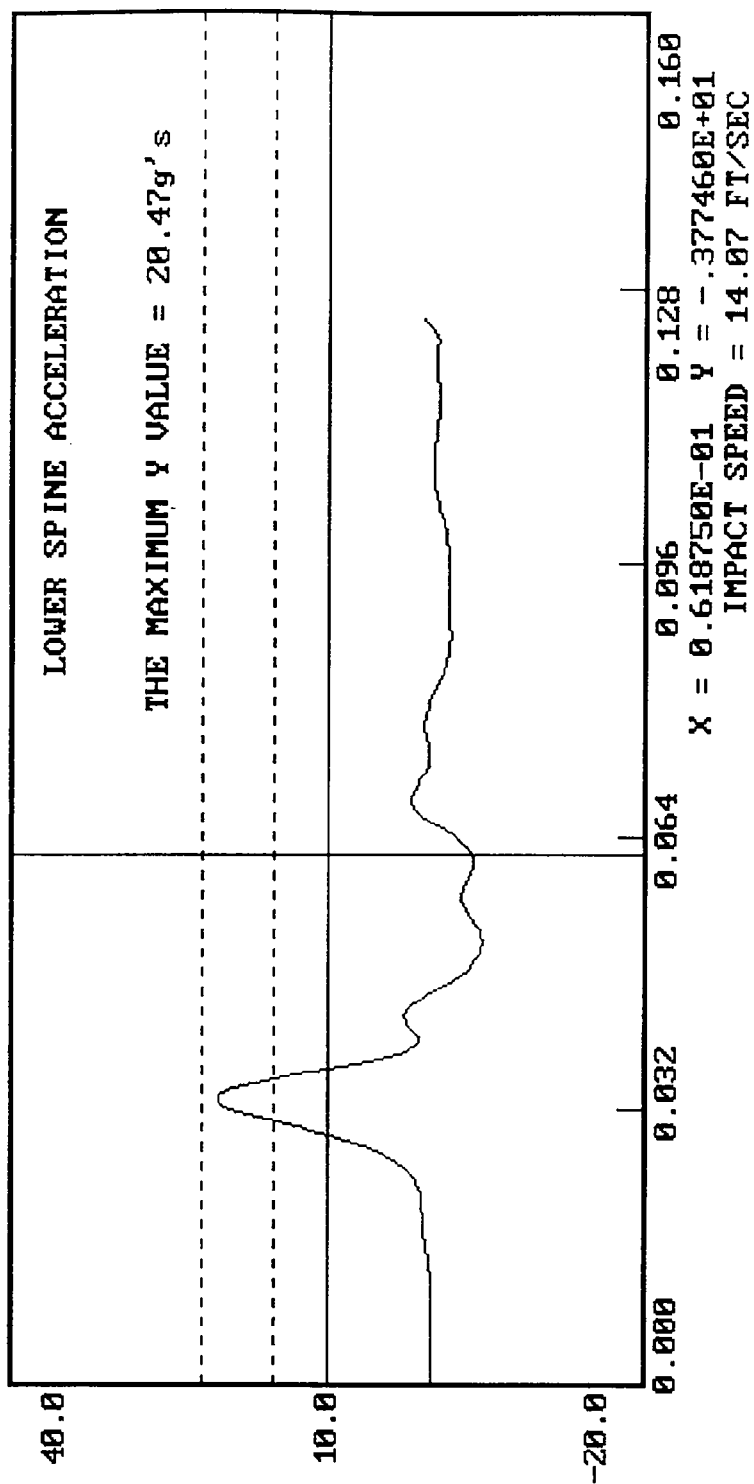
DUMMY CALIBRATION - THORAX IMPACT
 DUMMY # 271
 ACCELERATION (G'S) VS. TIME ((SECONDS))

03-01-1996 15:13



DUMMY CALIBRATION - THORAX IMPACT
 DUMMY # 271
 ACCELERATION (G'S) VS. TIME ((SECONDS))

03-01-1996 15:13



MGA RESEARCH CORPORATION

PELVIS IMPACT TEST

SIDE IMPACT DUMMY (SID)

DATE: March 1, 1996

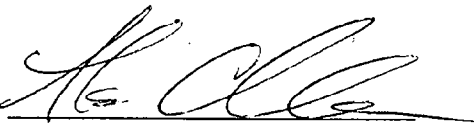
DUMMY NUMBER: 271

TEST NUMBER: D96433

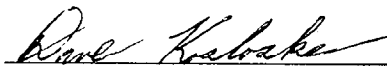
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	66 - 78° F	70°
RELATIVE HUMIDITY	10 - 70%	20%
PROBE SPEED	13.8 - 14.2 f/s	14.1
PELVIS ACCELERATION	40 - 60 g's	55

TEST MEETS SPECIFICATIONS

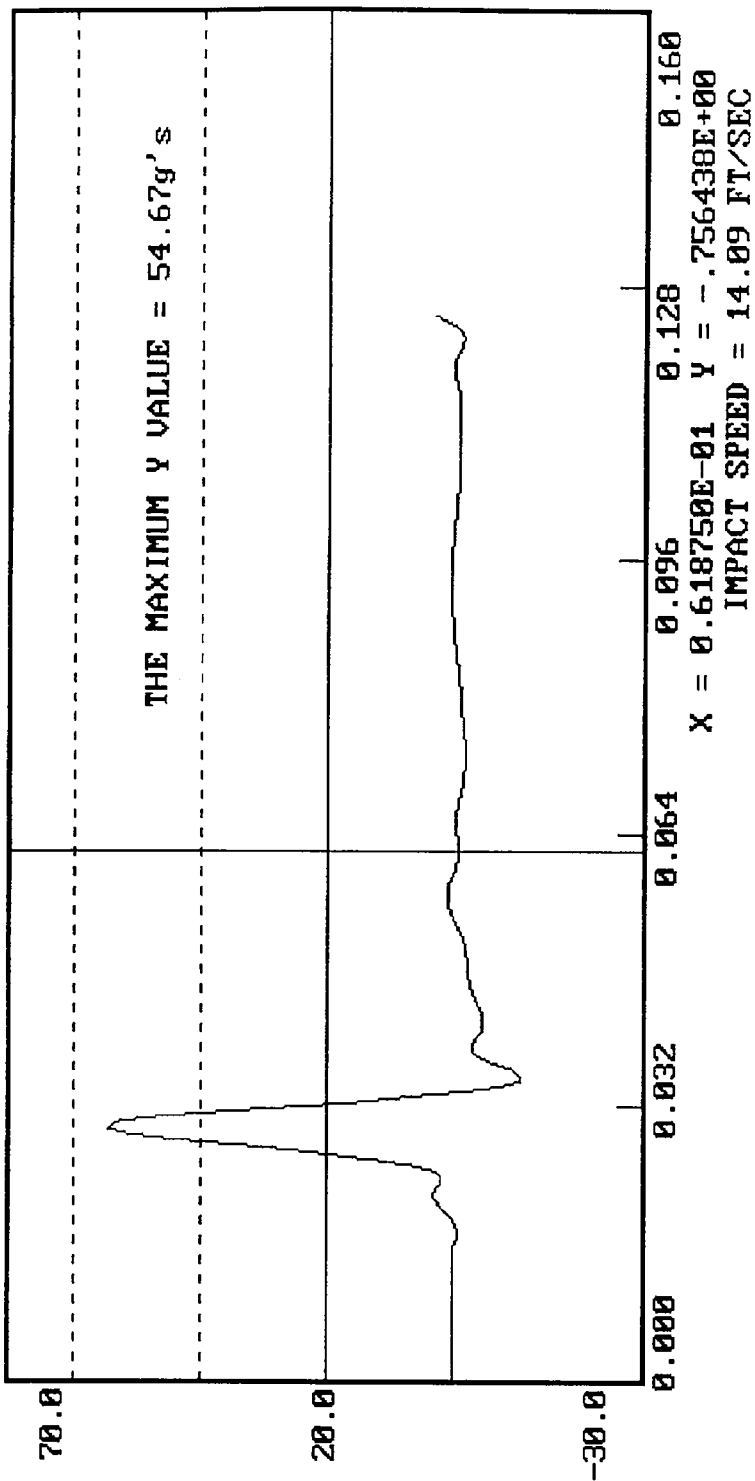
TECHNICIAN



APPROVED BY



DUMMY CALIBRATION - PELVIS IMPACT
 DUMMY # 271
 03-01-1996 15:21
 ACCELERATION (G'S) VS. TIME (SECONDS)



MGA RESEARCH CORPORATION
ABDOMINAL COMPRESSION TEST
(PRELOAD = 10 LBS)
SIDE IMPACT DUMMY (SID)

DATE: March 4, 1996

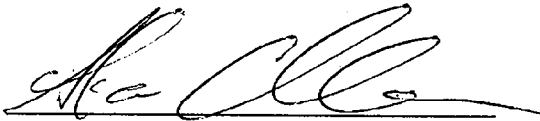
DUMMY NUMBER: 271

TEST NUMBER: D96434

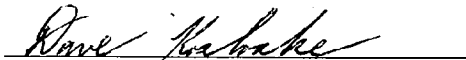
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	66 - 78° F	70°
RELATIVE HUMIDITY	10 - 70%	20%
FORCE @ 0.5 in	23.3 - 36.5 lbs	32.5
FORCE @ 0.75 in	36.7 - 49.8 lbs	46.8
FORCE @ 1.0 in	50 - 63 lbs	63
FORCE @ 1.3 in	73 - 88 lbs	87

TEST MEETS SPECIFICATIONS

TECHNICIAN

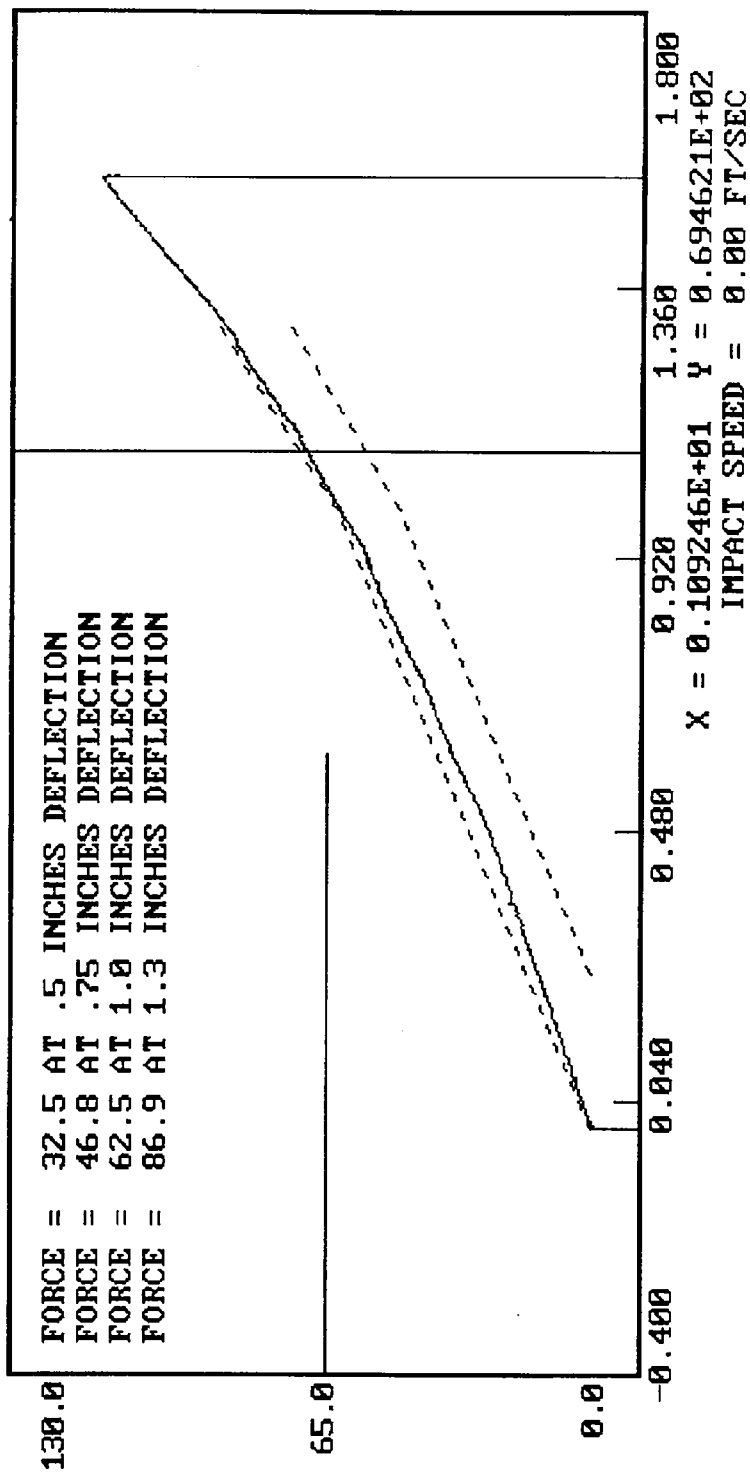


APPROVED BY



DUMMY CALIBRATION - ABDOMEN COMPRESSION
 DUMMY # 271
 03-04-1996 14:39

ABDOMEN FORCE (LBS) VS. ABDOMEN DISPLACEMENT (INCHES)



MGA RESEARCH CORPORATION

LUMBAR FLEXION TEST

SIDE IMPACT DUMMY (SID)

DATE: March 4, 1996

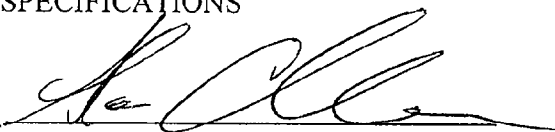
DUMMY NUMBER: 271

TEST NUMBER: D96435

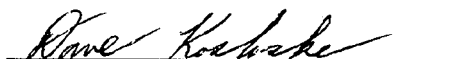
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	66 - 78° F	70°
RELATIVE HUMIDITY	10 - 70%	20%
FORCE @ 0°	0 - 6 lbs	0
FORCE @ 20°	22 - 34 lbs	26
FORCE @ 30°	34 - 46 lbs	42
FORCE @ 40°	46 - 58 lbs	49
RETURN ANGLE	12° maximum	4°

TEST MEETS SPECIFICATIONS

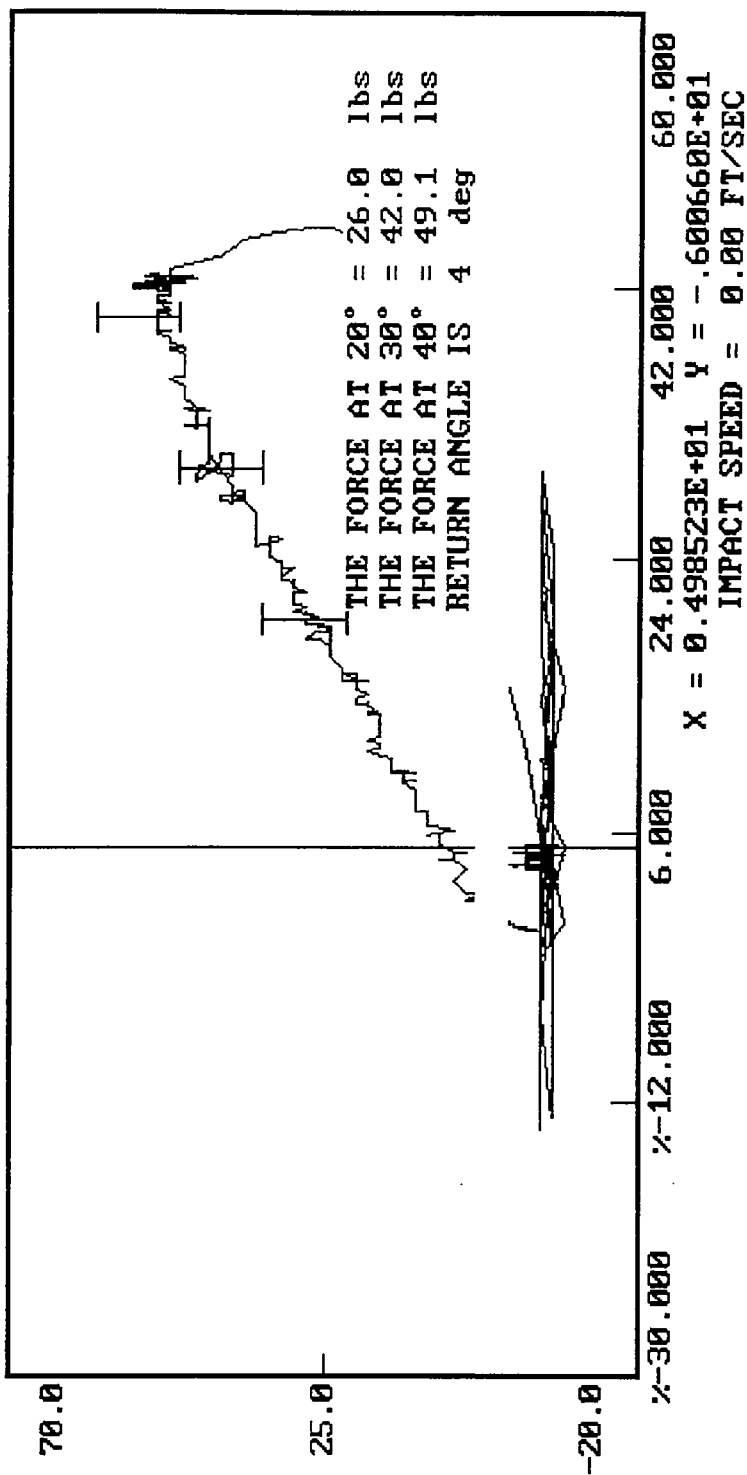
TECHNICIAN



APPROVED BY



DUMMY CALIBRATION - LUMBAR FLEXION
 DUMMY # 271
 03-04-1996 17:11
 FORCE (LBS) VS. TORSO ROTATION (DEGREES)



PRE-TEST CERTIFICATION DATA

Passenger Dummy Serial Number: 272

Calibration Test Results Summary

Passenger Serial Number: 272

Pre-Test Calibration

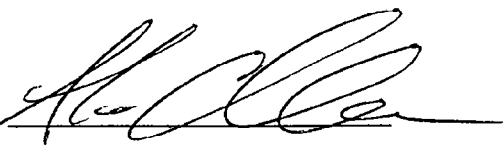
External Dimensions:	The dummy passed all external dimension requirements.
Thorax Impact Test:	The thorax passed all impact test requirements.
Pelvic Impact Test:	The pelvis passed all impact test requirements.
Abdominal Compression Test:	The abdomen passed all compression test requirements.
Lumbar Flexion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

SIDE IMPACT DUMMY CONFIGURATION AND PERFORMANCE VERIFICATION DATA

DUMMY NO.: 272

DATE OF VERIFICATION: March 6, 1996

DESCRIPTION	SPECIFICATION	TEST RESULTS
SH - Seated Height	35.0" - 35.8"	35.2
RH - Rib Height	19.75" - 20.50"	20.20
HP - Hip Pivot Height	3.9" ref.	3.9
RD - Rib From Back Line	9.0" to 9.5"	9.4
KV - Knee Pivot From Back Line	20.1" - 20.7"	20.7
SW - Knee Pivot to Floor	19.3" - 19.9"	19.6
HW - Hip Width	14.0" - 15.4"	15.0

MEASUREMENTS BY: 

APPROVED BY: 

MGA RESEARCH CORPORATION

THORAX IMPACT TEST

SIDE IMPACT DUMMY (SID)

DATE: March 5, 1996

DUMMY NUMBER: 272

TEST NUMBER: D96442

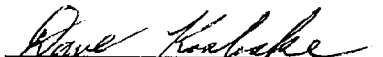
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	66 - 78° F	70°
RELATIVE HUMIDITY	10 - 70%	30%
PROBE SPEED	13.8 - 14.2 fps	14.0
UPPER RIB	37 - 46 g's	42
LOWER RIB	37 - 46 g's	42
LOWER SPINE	15 - 22 g's	22

TEST MEETS SPECIFICATIONS

TECHNICIAN

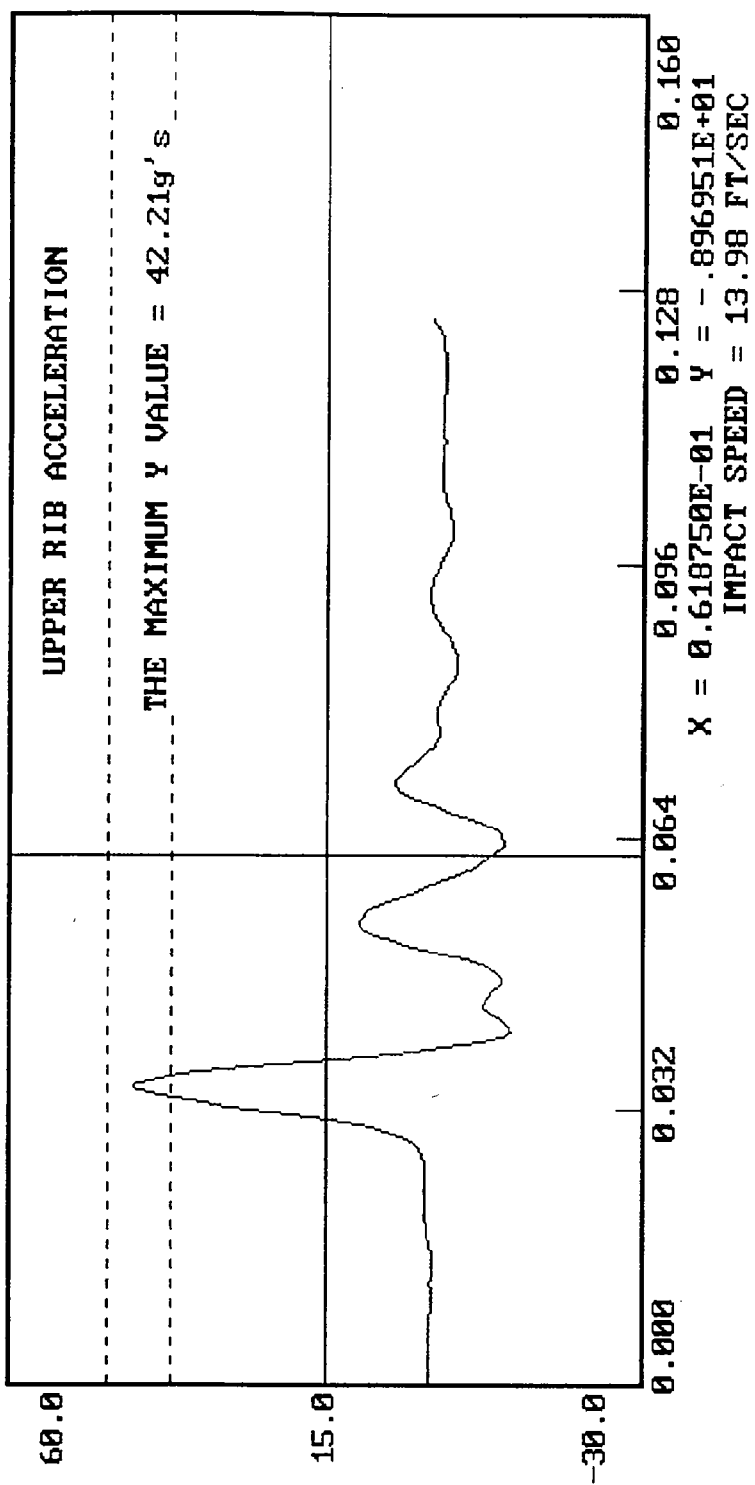


APPROVED BY



03-05-1996 18:08

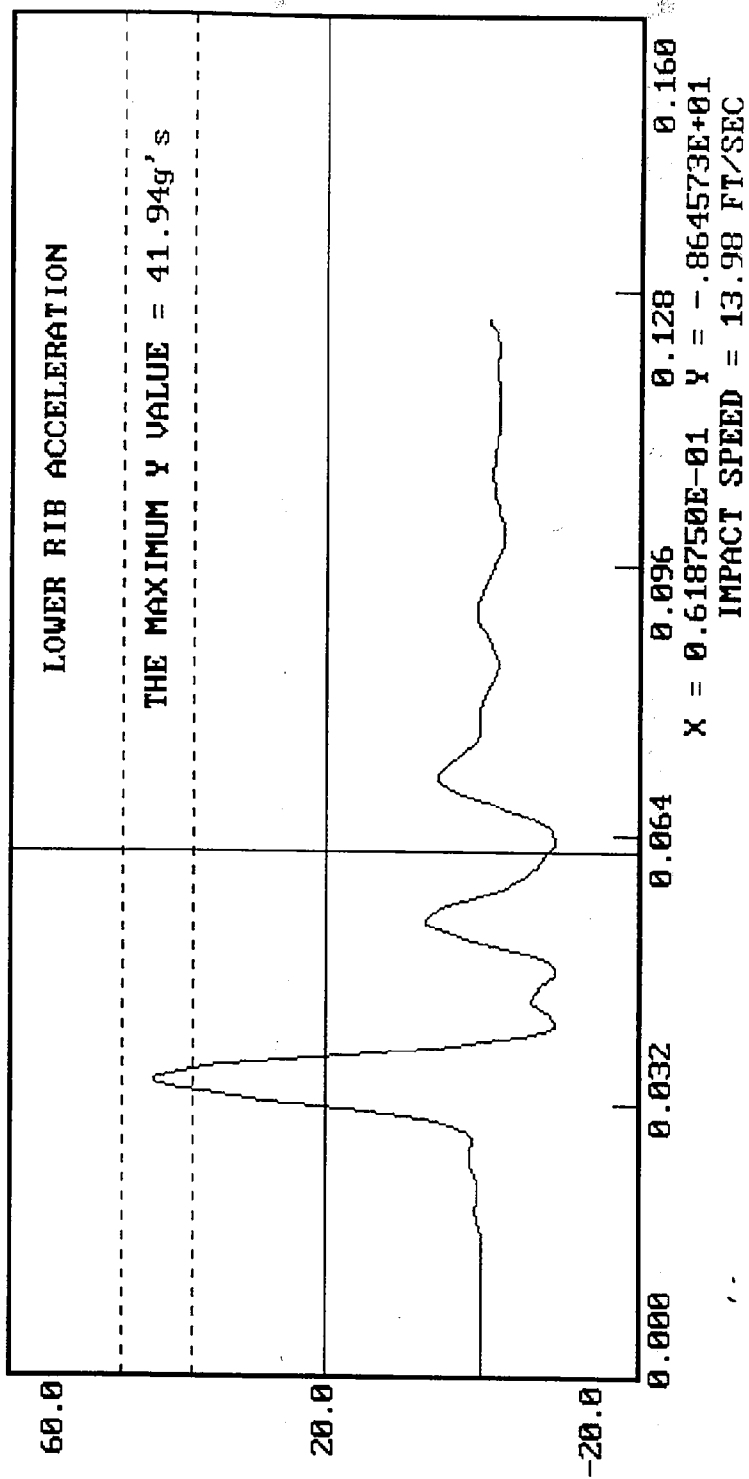
DUMMY CALIBRATION - THORAX IMPACT
DUMMY # 272
ACCELERATION (G'S) VS. TIME ((SECONDS))



03-05-1996 18:08

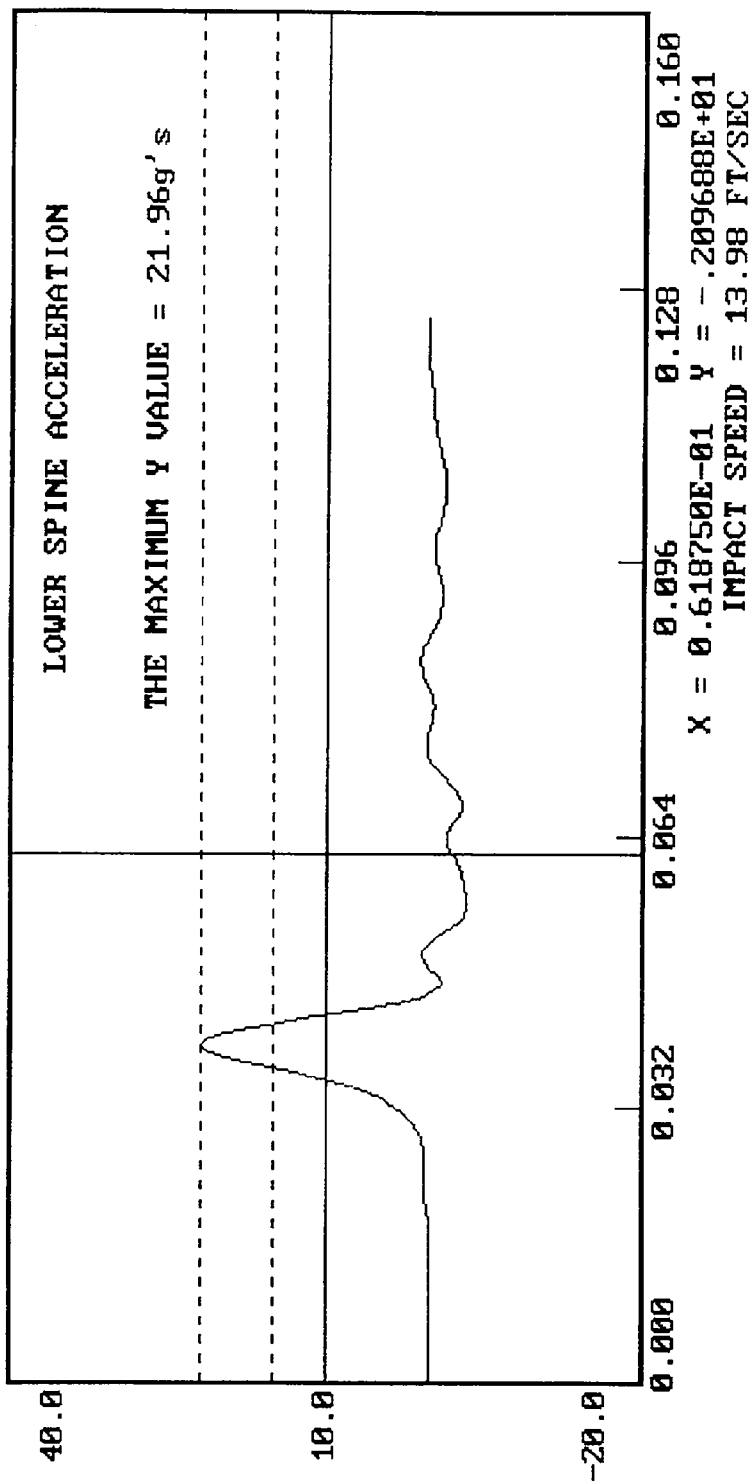
DUMMY CALIBRATION - THORAX IMPACT
DUMMY # 272

ACCELERATION (G'S) VS. TIME ((SECONDS))



DUMMY CALIBRATION - THORAX IMPACT
 DUMMY # 272
 ACCELERATION (G'S) VS. TIME ((SECONDS))

03-05-1996 18:08



MGA RESEARCH CORPORATION

PELVIS IMPACT TEST

SIDE IMPACT DUMMY (SID)

DATE: March 6, 1996

DUMMY NUMBER: 272

TEST NUMBER: D96443

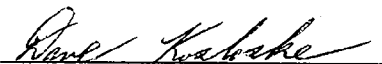
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	66 - 78° F	70°
RELATIVE HUMIDITY	10 - 70%	28%
PROBE SPEED	13.8 - 14.2 f/s	14.0
PELVIS ACCELERATION	40 - 60 g's	45

TEST MEETS SPECIFICATIONS

TECHNICIAN

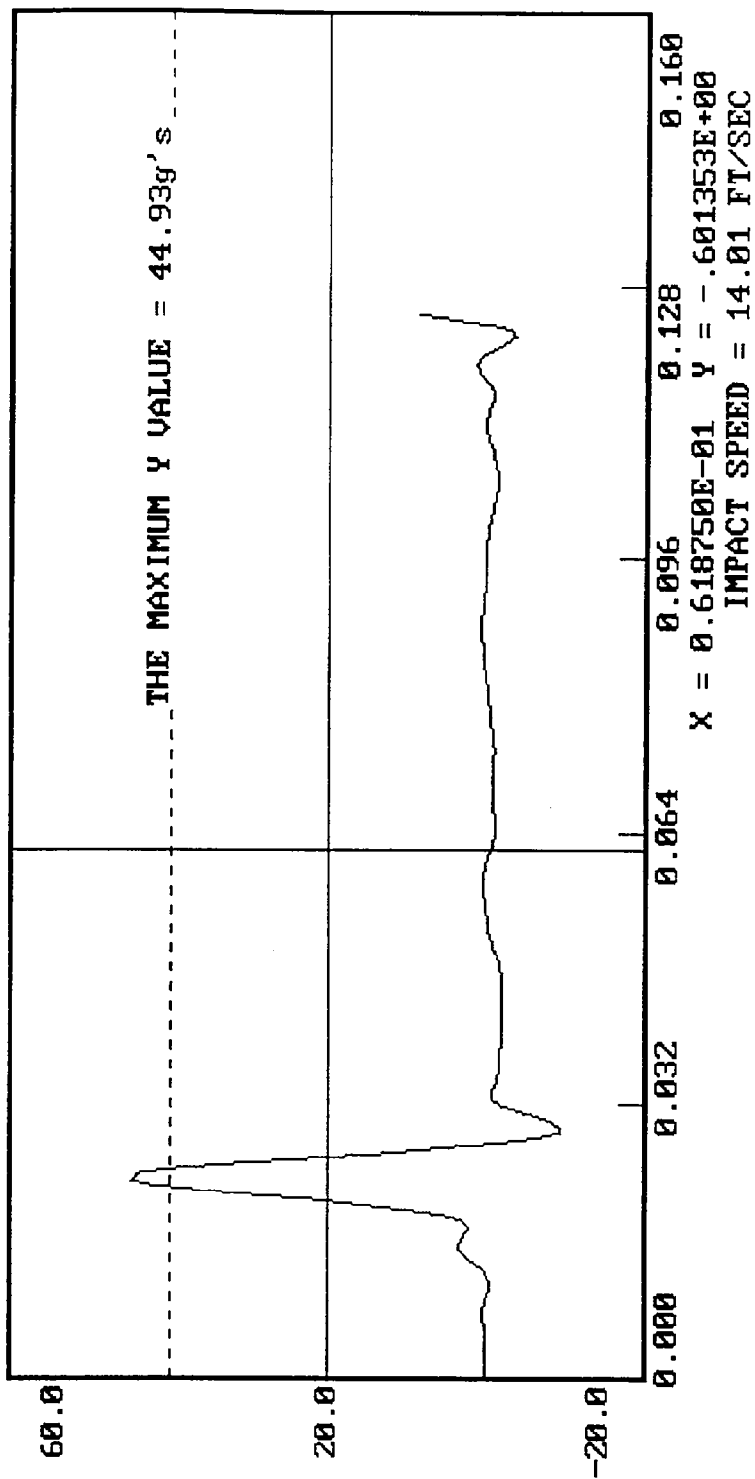


APPROVED BY



03-06-1996 08:36

DUMMY CALIBRATION - PELVIS IMPACT
DUMMY # 272
ACCELERATION (G'S) VS. TIME ((SECONDS))



MGA RESEARCH CORPORATION

ABDOMINAL COMPRESSION TEST
(PRELOAD = 10 LBS)

SIDE IMPACT DUMMY (SID)

DATE: March 4, 1996

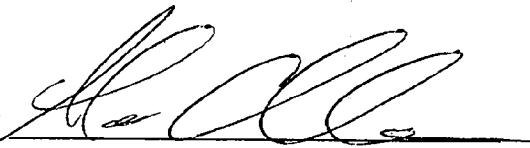
DUMMY NUMBER: 272

TEST NUMBER: D96444

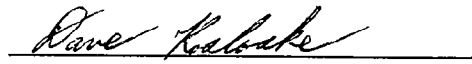
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	66 - 78° F	70°
RELATIVE HUMIDITY	10 - 70%	20%
FORCE @ 0.5 in	23.3 - 36.5 lbs	32.9
FORCE @ 0.75 in	36.7 - 49.8 lbs	45.2
FORCE @ 1.0 in	50 - 63 lbs	60
FORCE @ 1.3 in	73 - 88 lbs	82

TEST MEETS SPECIFICATIONS

TECHNICIAN

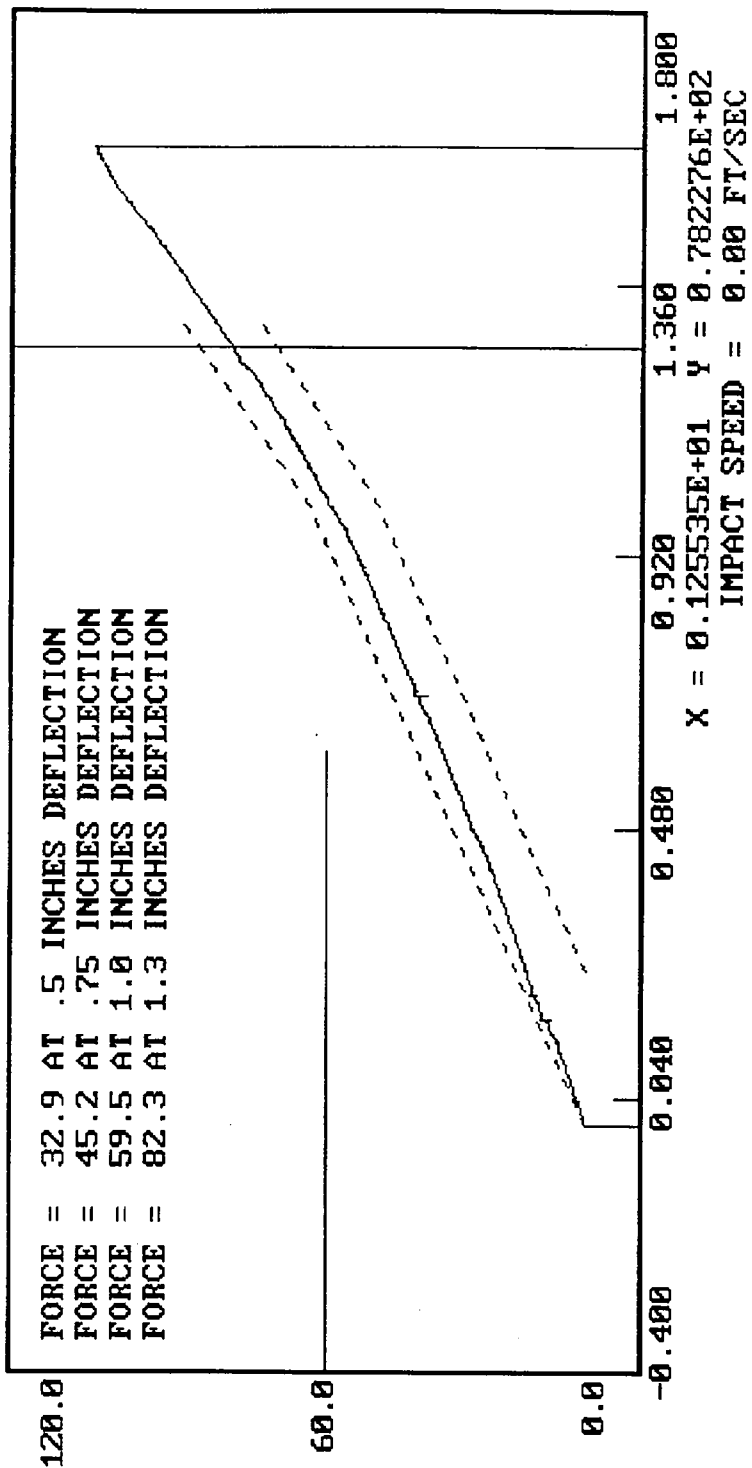


APPROVED BY



DUMMY CALIBRATION - ABDOMEN COMPRESSION
 DUMMY # 272
 03-04-1996 15:50

ABDOMEN FORCE (LBS) VS. ABDOMEN DISPLACEMENT (INCHES)



MGA RESEARCH CORPORATION

LUMBAR FLEXION TEST

SIDE IMPACT DUMMY (SID)

DATE: March 4, 1996

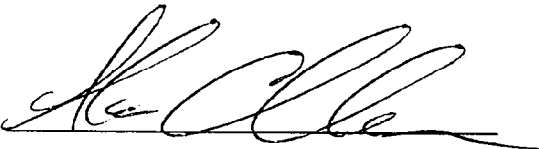
DUMMY NUMBER: 272

TEST NUMBER: D96445

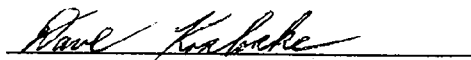
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	66 - 78° F	70°
RELATIVE HUMIDITY	10 - 70%	20%
FORCE @ 0°	0 - 6 lbs	0
FORCE @ 20°	22 - 34 lbs	27
FORCE @ 30°	34 - 46 lbs	43
FORCE @ 40°	46 - 58 lbs	53
RETURN ANGLE	12° maximum	3°

TEST MEETS SPECIFICATIONS

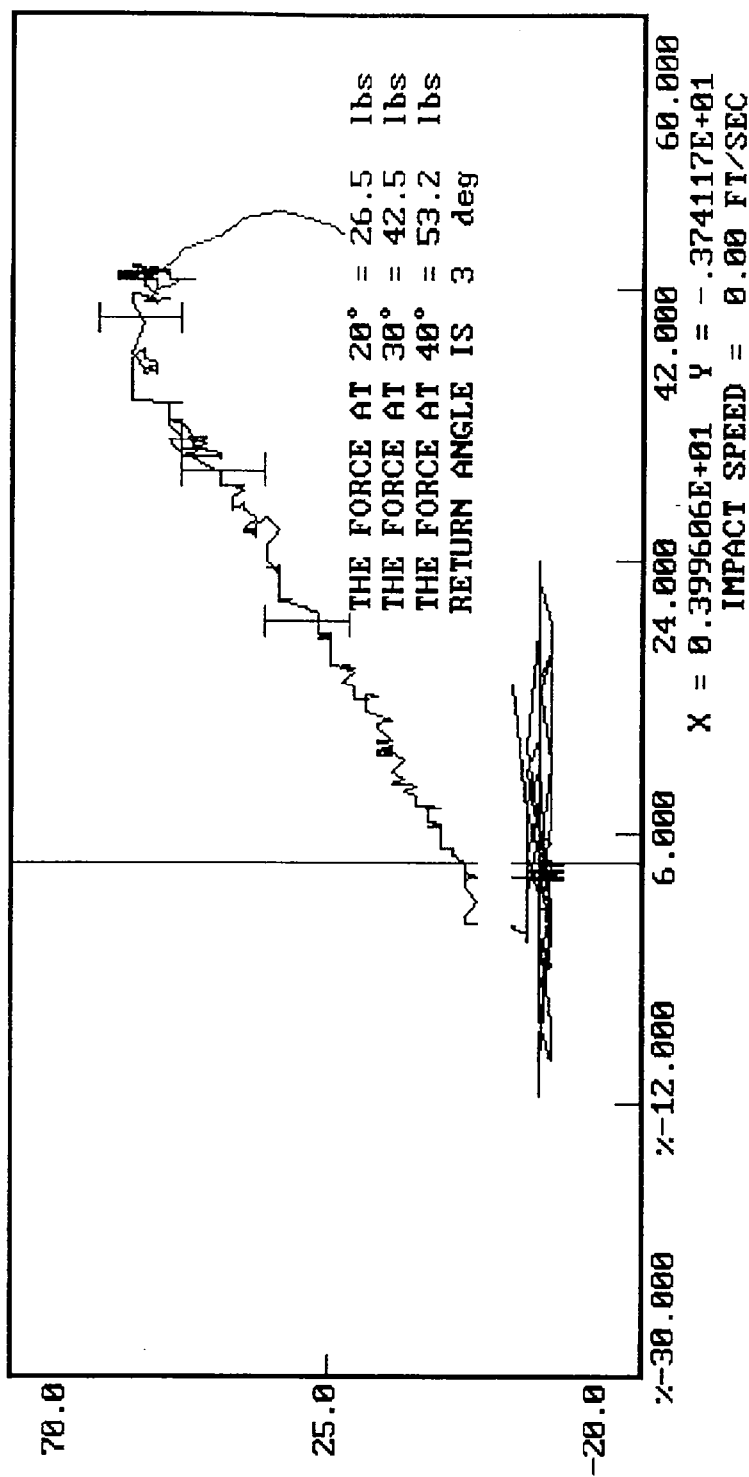
TECHNICIAN



APPROVED BY



DUMMY CALIBRATION - LUMBAR FLEXION
 DUMMY # 272
 03-04-1996 17:22
 FORCE (LBS) VS. TORSO ROTATION (DEGREES)



POST-TEST CERTIFICATION DATA

Driver Dummy Serial Number: 271

Calibration Test Results Summary

Dummy Serial Number: 271

Post-Test Calibration

External Dimensions:	The dummy passed all external dimension 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

DUMMY NO.: 271

DATE OF VERIFICATION: April 4, 1996

DESCRIPTION	SPECIFICATION	TEST RESULTS
SH - Seated Height	35.0" - 35.8"	35.4
RH - Rib Height	19.75" - 20.50"	20.40
HP - Hip Pivot Height	3.9" ref.	3.9
RD - Rib From Back Line	9.0" to 9.5"	9.4
KV - Knee Pivot From Back Line	20.1" - 20.7"	20.4
SW - Knee Pivot to Floor	19.3" - 19.9"	19.5
HW - Hip Width	14.0" - 15.4"	15.0

MEASUREMENTS BY:



APPROVED BY:



MGA RESEARCH CORPORATION
THORACIC SHOCK ABSORBER TEST
SIDE IMPACT DUMMY (SID)

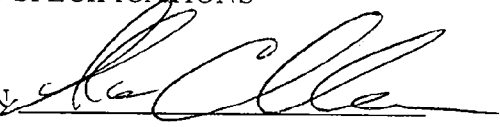
DATE: April 3, 1996

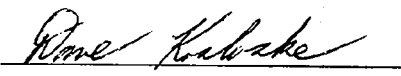
DUMMY NUMBER: 271

TEST NUMBER: D9662678

TEST PARAMETER		SPECIFICATION	TEST RESULTS
TEMPERATURE		66° - 78° F	70°
RELATIVE HUMIDITY		10 - 70%	30%
VELOCITY 10 ft/s	FORCE (lb.)	188 - 253	230
	DISPLACEMENT (in.)	1.18 - 1.38	1.23
VELOCITY 14 ft/s	FORCE (lb.)	389 - 472	409
	DISPLACEMENT (in.)	1.26 - 1.47	1.28
VELOCITY 20 ft/s	FORCE (lb.)	841 - 1000	856
	DISPLACEMENT (in.)	1.30 - 1.57	1.33

TEST MEETS SPECIFICATIONS

TECHNICIAN: 

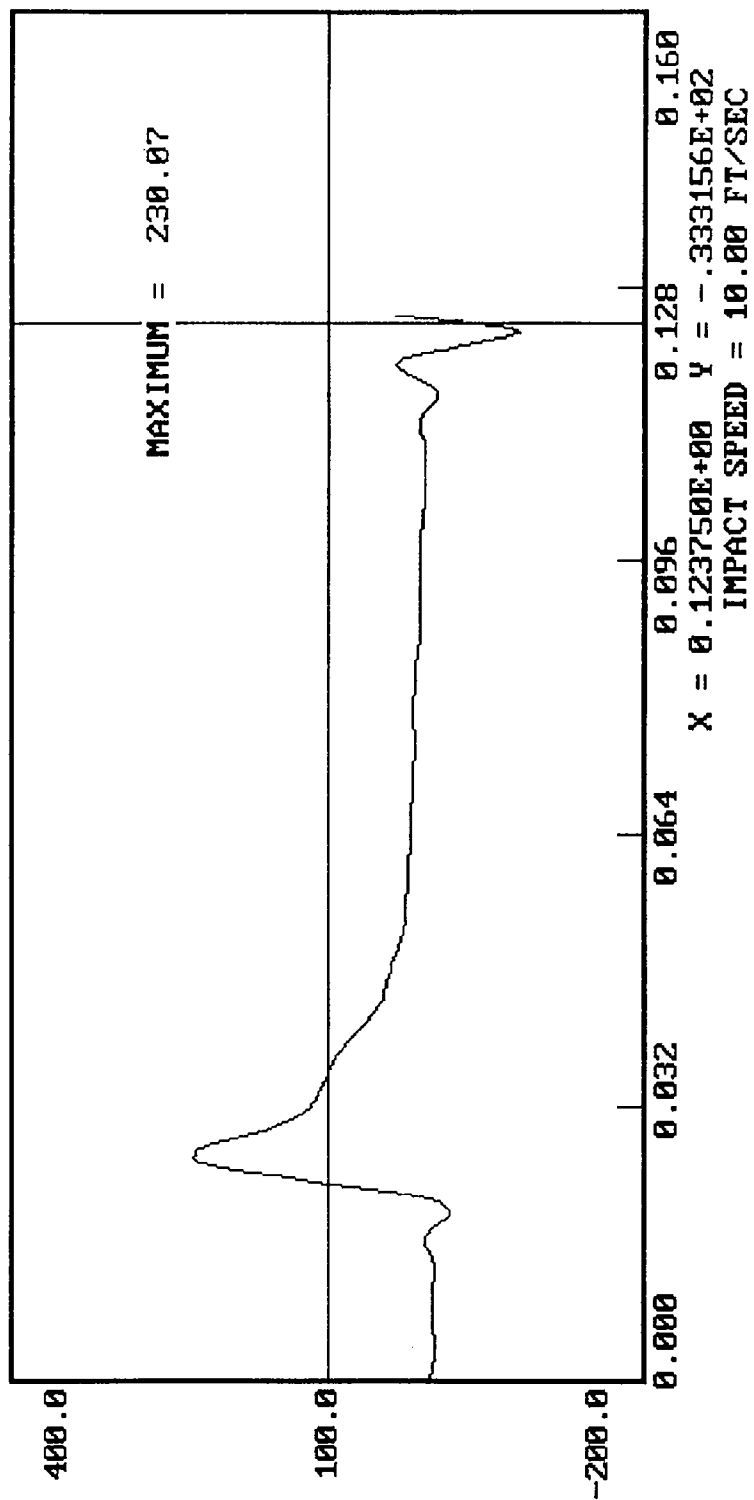
APPROVED BY 

04-03-1996 09:18

DUMMY CALIBRATION - DAMPENER BENCH TEST

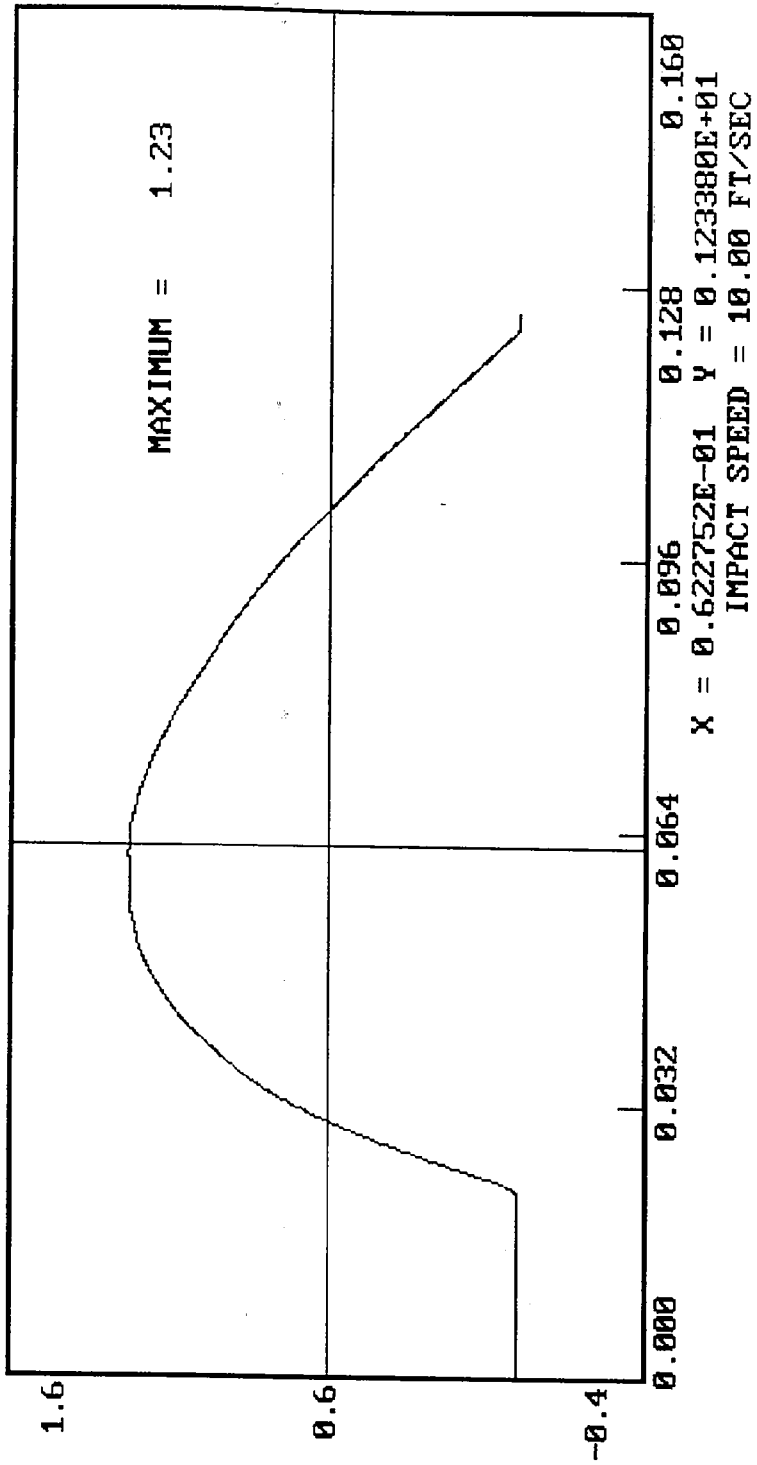
DUMMY # 271

FORCE (LBS) VS. TIME ((SECONDS))



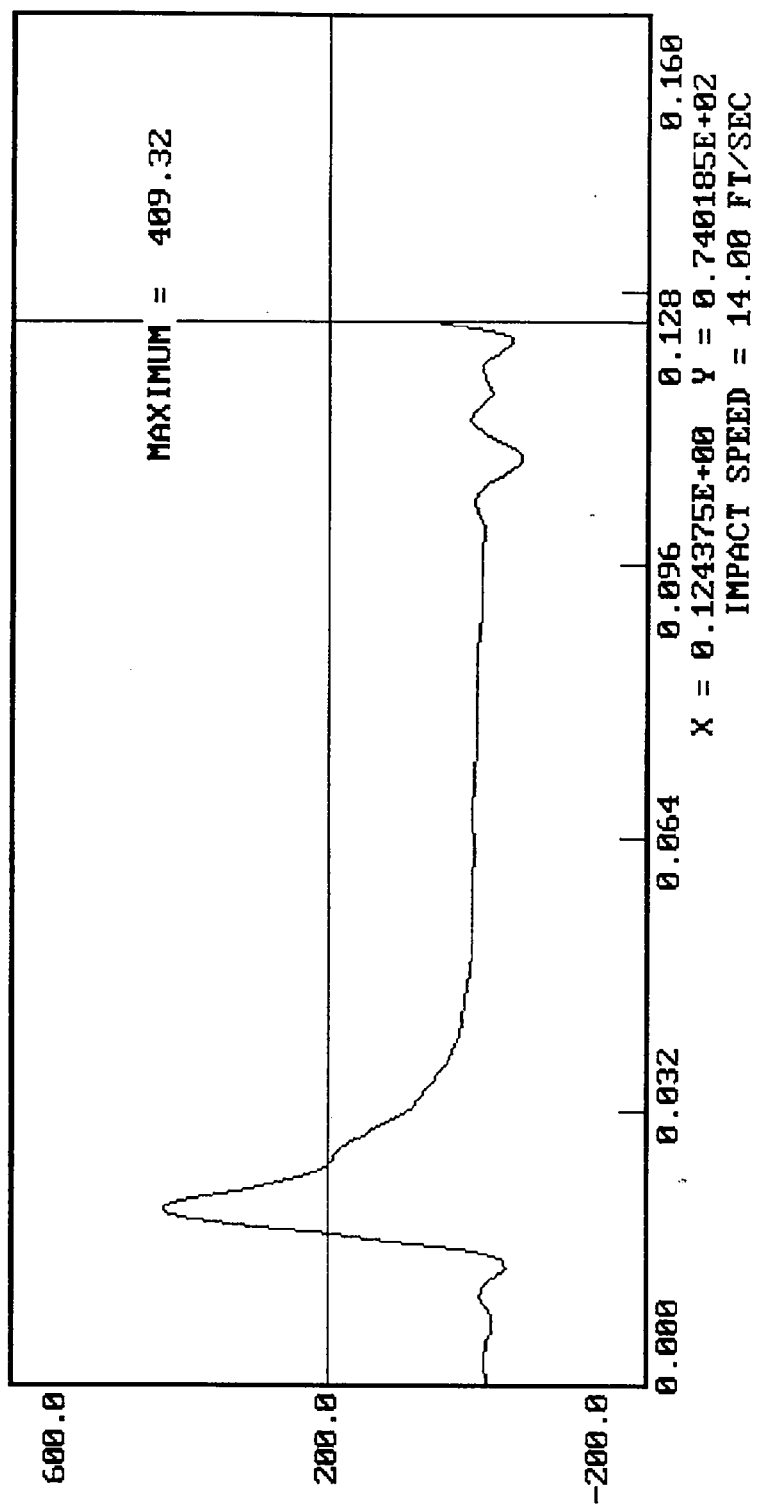
DUMMY CALIBRATION - DAMPENER BENCH TEST
 DUMMY # 271
 DISPLACEMENT (IN) VS. TIME ((SECONDS))

04-03-1996 09:18



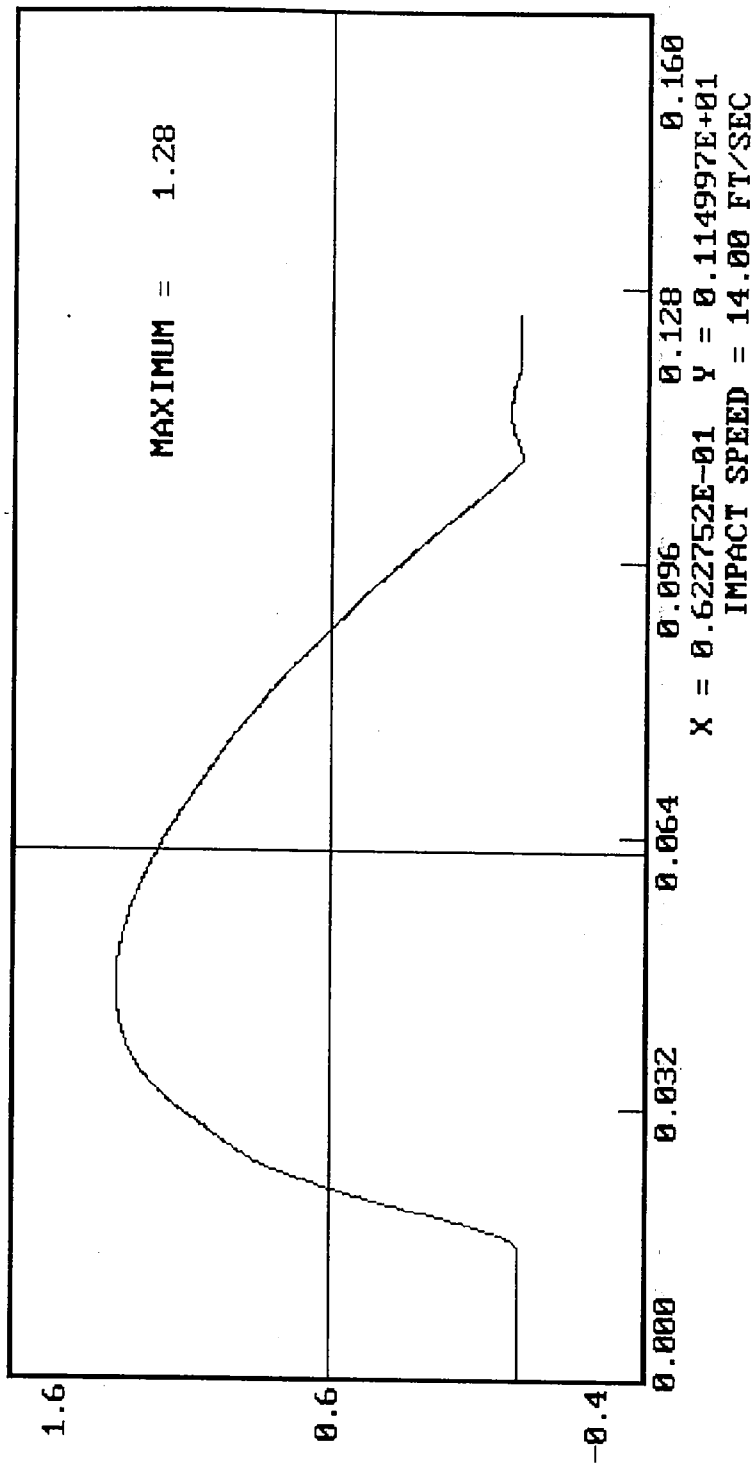
DUMMY CALIBRATION - DAMPENER BENCH TEST
DUMMY # 271
FORCE (LBS) VS. TIME ((SECONDS))

04-03-1996 09:45



DUMMY CALIBRATION - DAMPENER BENCH TEST
 DUMMY # 271
 DISPLACEMENT (IN) VS. TIME ((SECONDS))

04-03-1996 09:45

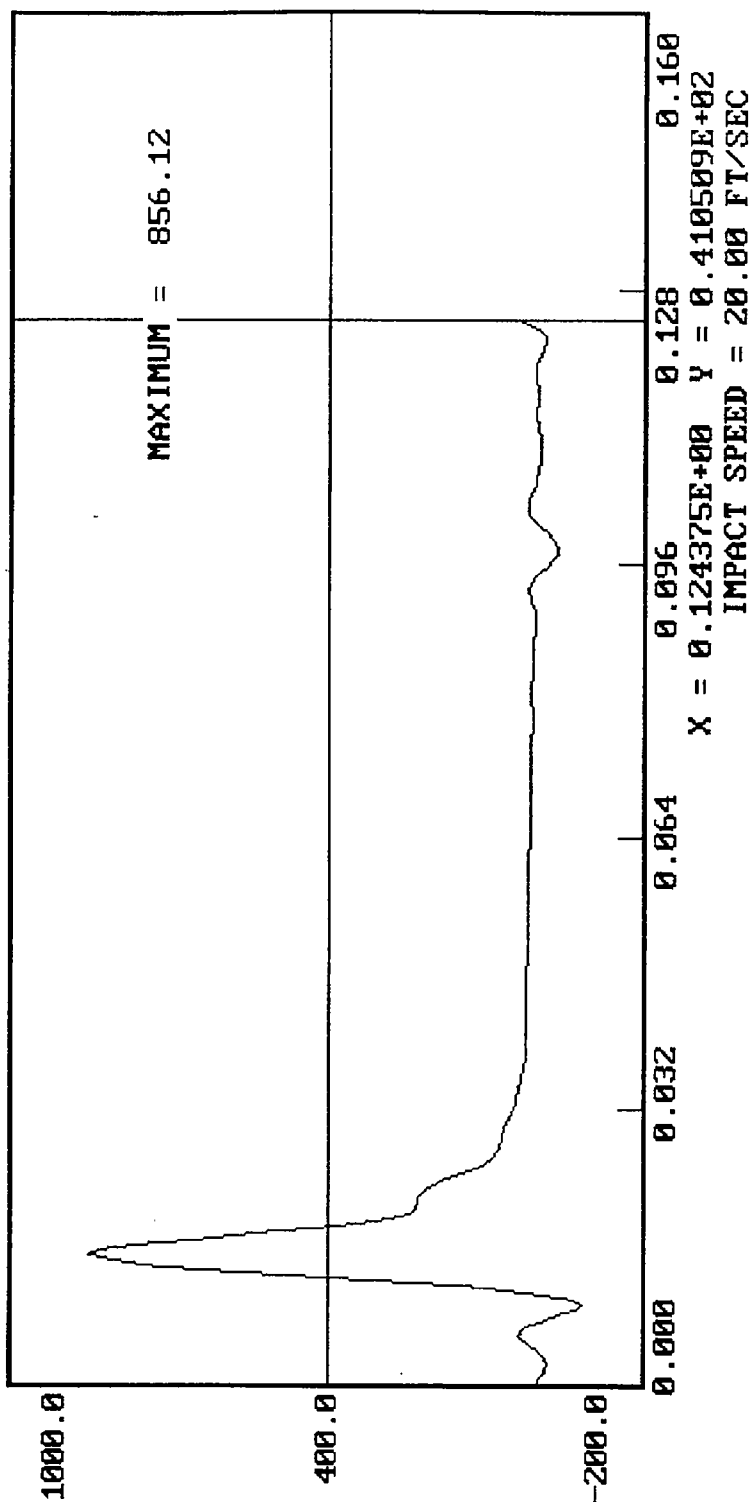


DUMMY CALIBRATION - DAMPENER BENCH TEST

DUMMY # 271

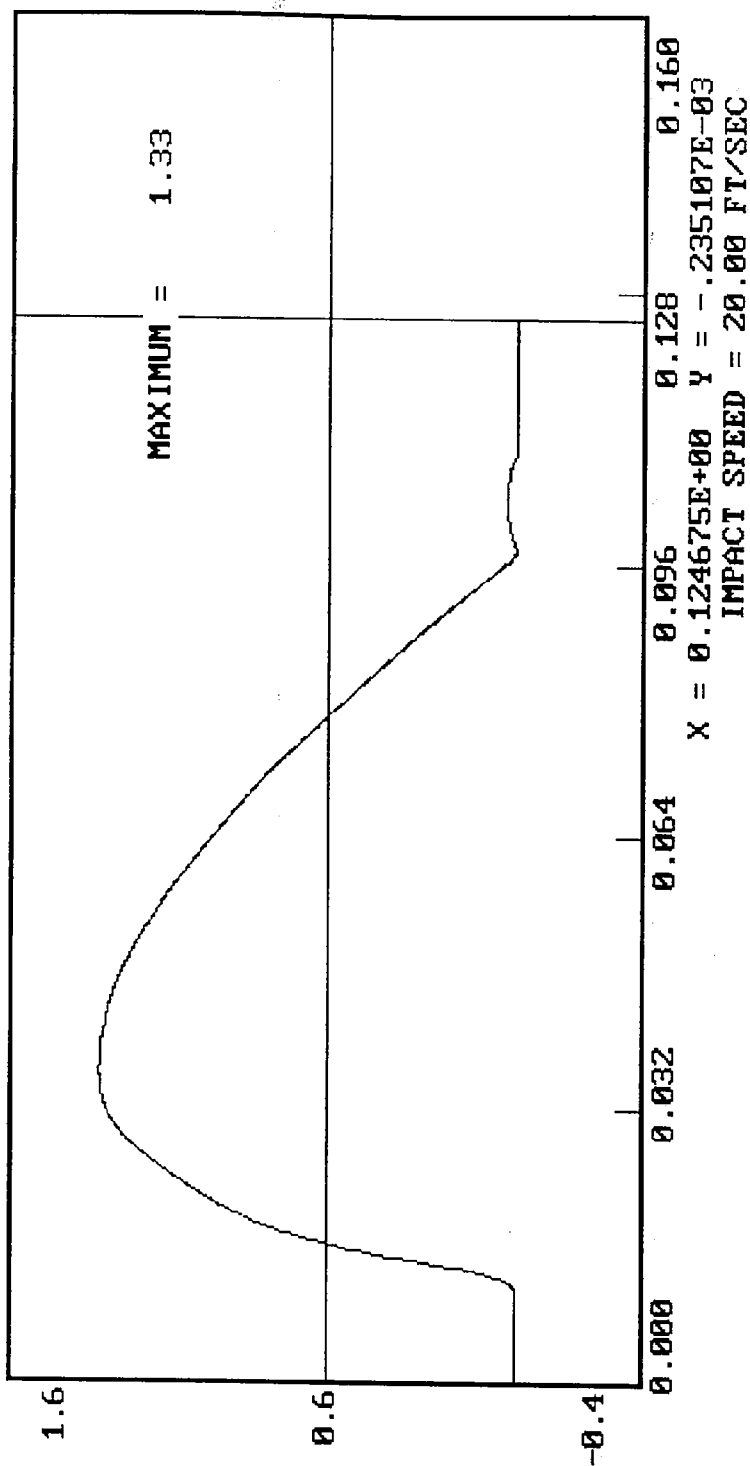
FORCE (LBS) VS. TIME ((SECONDS))

04-03-1996 10:17



DUMMY CALIBRATION - DAMPENER BENCH TEST
 DUMMY # 271
 DISPLACEMENT (IN) VS. TIME ((SECONDS))

04-03-1996 10:17



MGA RESEARCH CORPORATION

THORAX IMPACT TEST

SIDE IMPACT DUMMY (SID)

DATE: April 4, 1996

DUMMY NUMBER: 271

TEST NUMBER: D96622

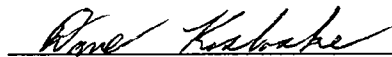
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	66 - 78° F	70°
RELATIVE HUMIDITY	10 - 70%	32%
PROBE SPEED	13.8 - 14.2 fps	14.1
UPPER RIB	37 - 46 g's	43
LOWER RIB	37 - 46 g's	43
LOWER SPINE	15 - 22 g's	22

TEST MEETS SPECIFICATIONS

TECHNICIAN

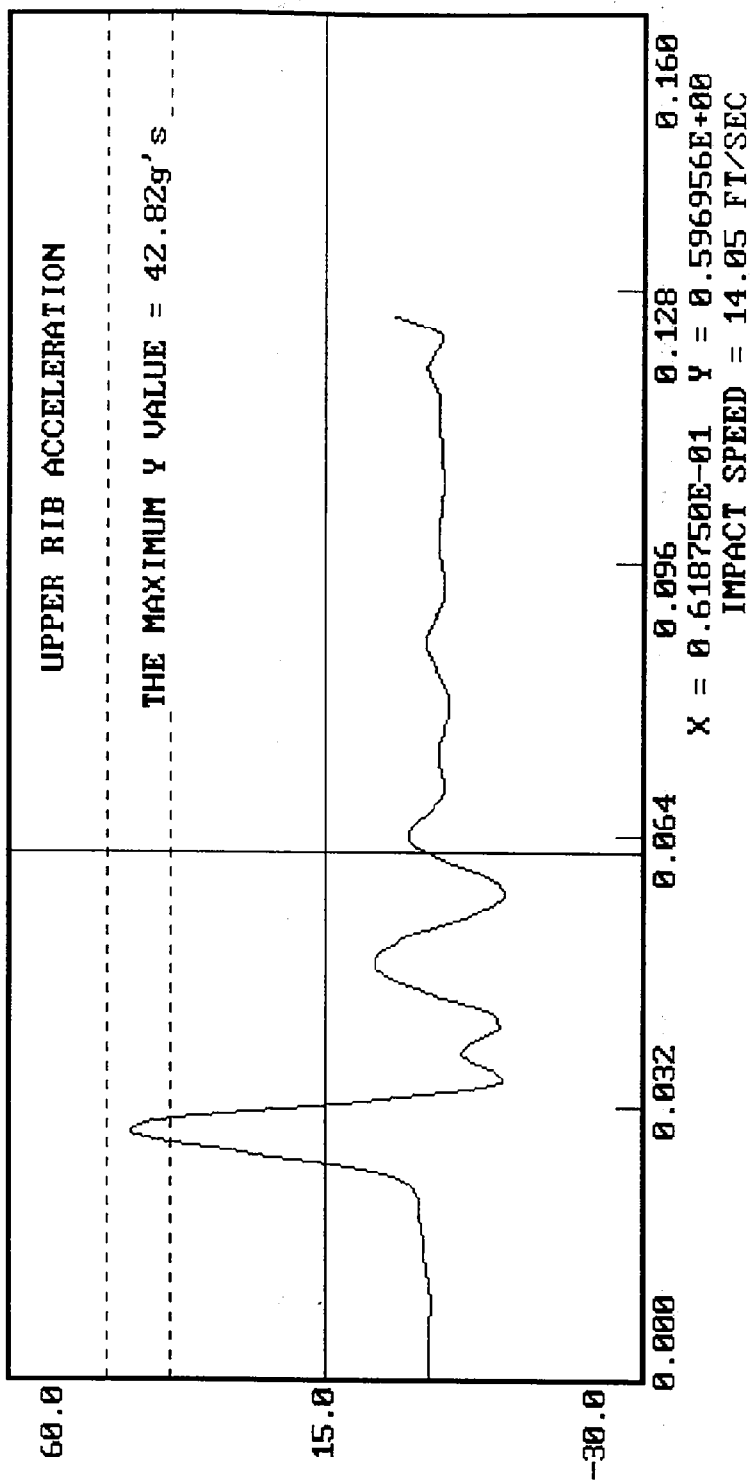


APPROVED BY

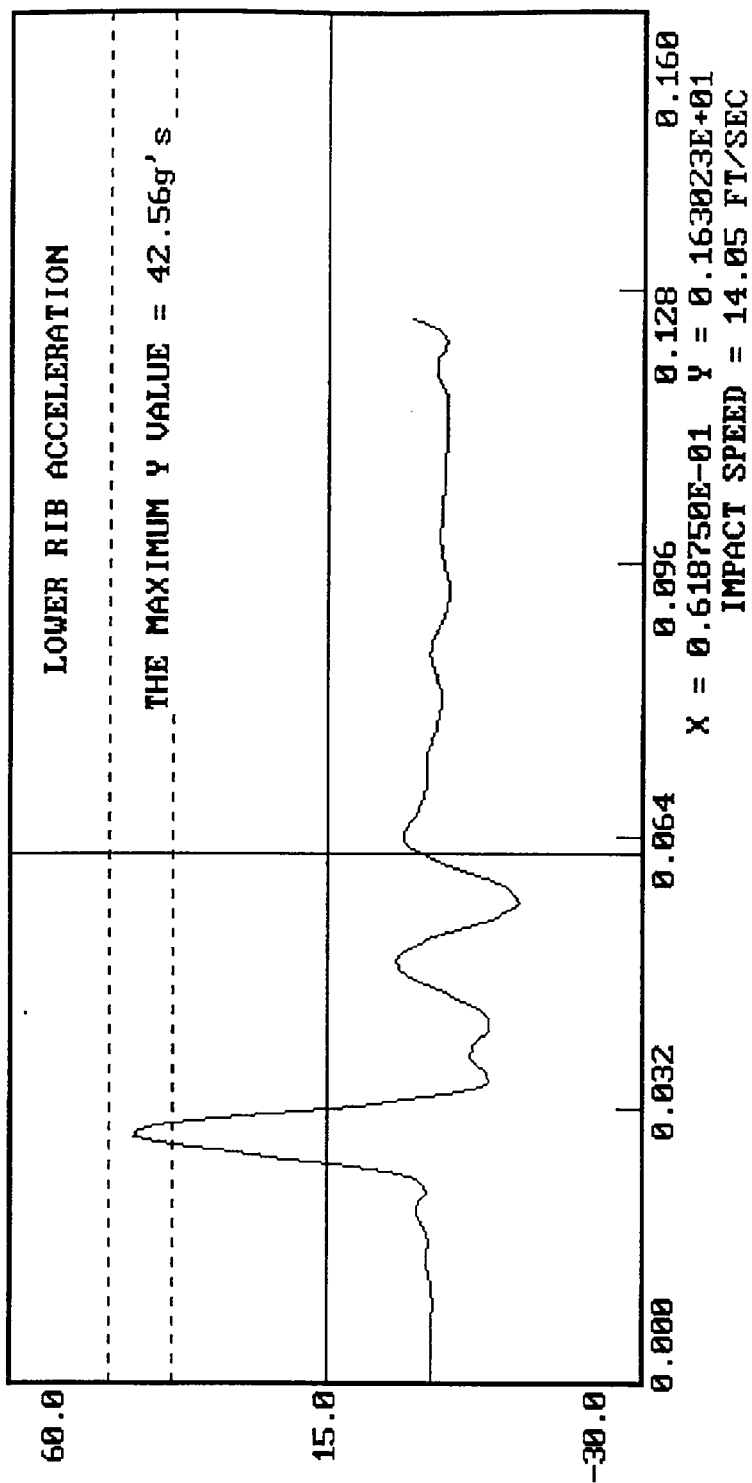


DUMMY CALIBRATION - THORAX IMPACT
 DUMMY # 271
 ACCELERATION (G'S) VS. TIME ((SECONDS))

04-04-1996 10:17

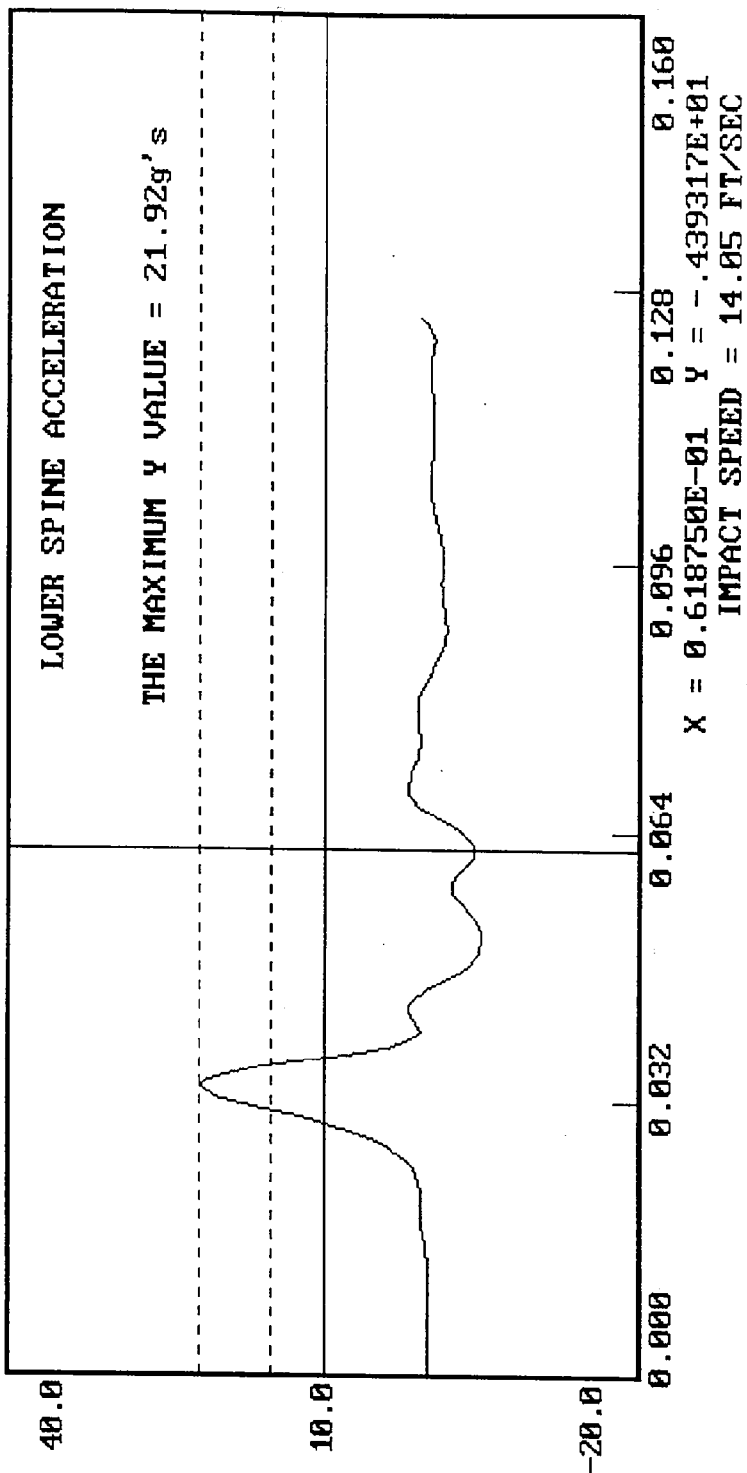


DUMMY CALIBRATION - THORAX IMPACT
 DUMMY # 271
 04-04-1996 10:17
 ACCELERATION (G'S) VS. TIME ((SECONDS))



DUMMY CALIBRATION - THORAX IMPACT
 DUMMY # 271
 ACCELERATION (G'S) VS. TIME ((SECONDS))

04-04-1996 10:17



MGA RESEARCH CORPORATION

PELVIS IMPACT TEST

SIDE IMPACT DUMMY (SID)

DATE: April 4, 1996

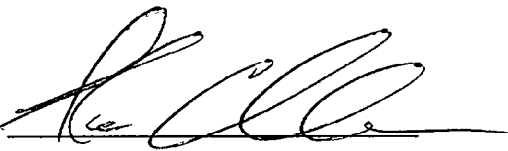
DUMMY NUMBER: 271

TEST NUMBER: D96623

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	66 - 78° F	70°
RELATIVE HUMIDITY	10 - 70%	32%
PROBE SPEED	13.8 - 14.2 f/s	14.0
PELVIS ACCELERATION	40 - 60 g's	53

TEST MEETS SPECIFICATIONS

TECHNICIAN

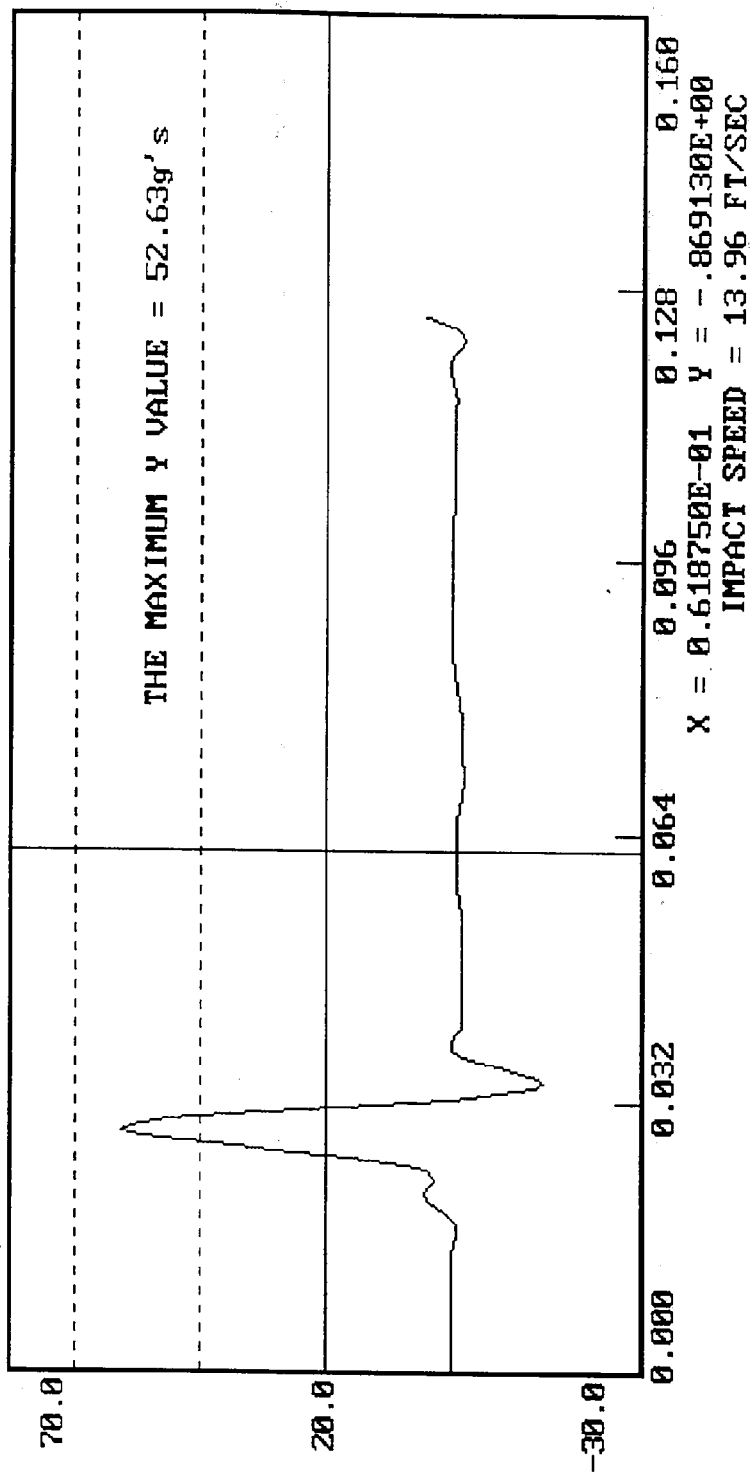


APPROVED BY



DUMMY CALIBRATION - PELVIS IMPACT
 DUMMY # 271
 ACCELERATION (G'S) VS. TIME ((SECONDS))

04-04-1996 10:29



MGA RESEARCH CORPORATION
ABDOMINAL COMPRESSION TEST
(PRELOAD = 10 LBS)
SIDE IMPACT DUMMY (SID)

DATE: March 27, 1996

DUMMY NUMBER: 271

TEST NUMBER: D96624

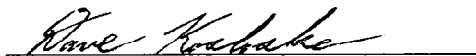
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	66 - 78° F	70°
RELATIVE HUMIDITY	10 - 70%	24%
FORCE @ 0.5 in	23.3 - 36.5 lbs	30.6
FORCE @ 0.75 in	36.7 - 49.8 lbs	44.1
FORCE @ 1.0 in	50 - 63 lbs	59
FORCE @ 1.3 in	73 - 88 lbs	82

TEST MEETS SPECIFICATIONS

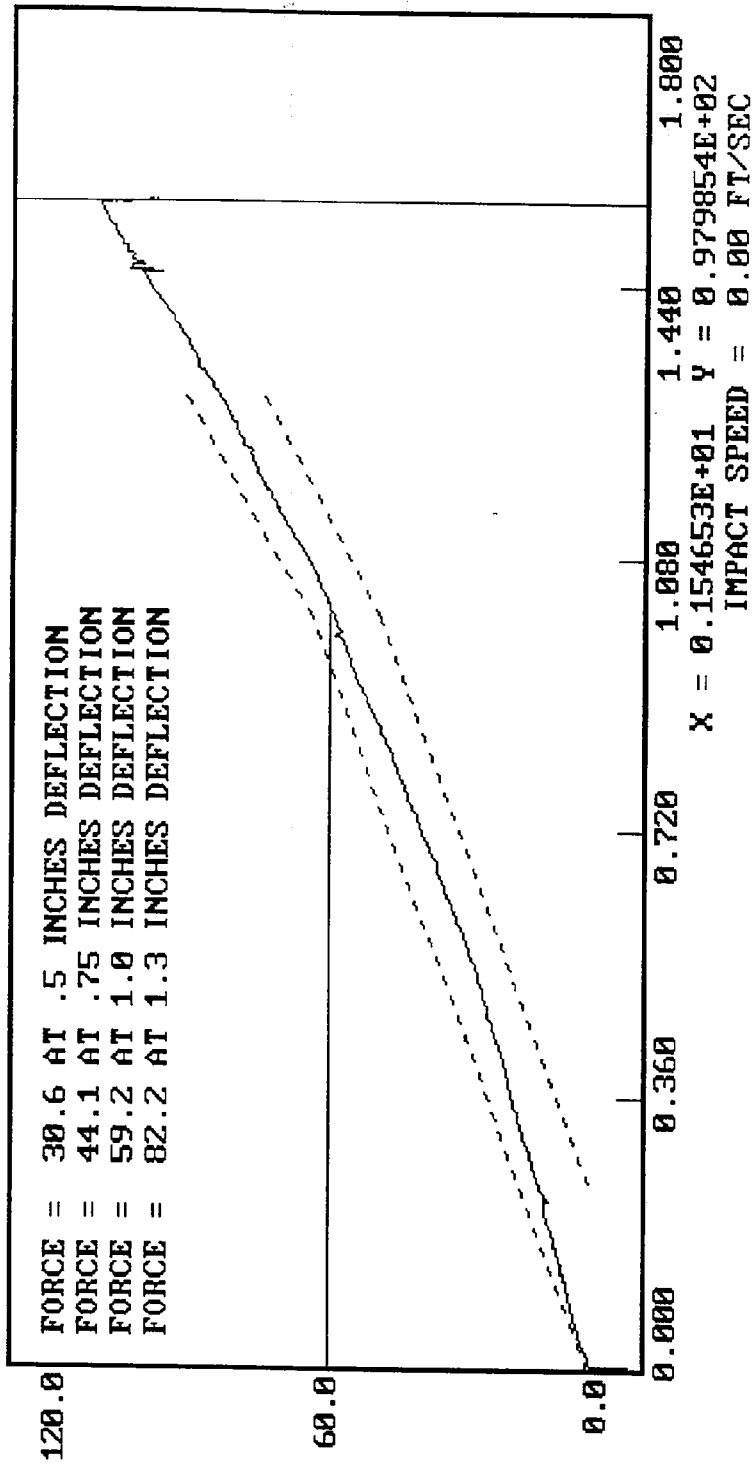
TECHNICIAN



APPROVED BY



DUMMY CALIBRATION - ABDOMEN COMPRESSION
 DUMMY # 271
 03-27-1996 09:39
 ABDOMEN FORCE (LBS) VS. ABDOMEN DISPLACEMENT (INCHES)



MGA RESEARCH CORPORATION

LUMBAR FLEXION TEST

SIDE IMPACT DUMMY (SID)

DATE: March 26, 1996

DUMMY NUMBER: 271

TEST NUMBER: D96625

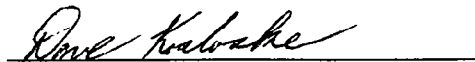
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	66 - 78° F	70°
RELATIVE HUMIDITY	10 - 70%	22%
FORCE @ 0°	0 - 6 lbs	0
FORCE @ 20°	22 - 34 lbs	24
FORCE @ 30°	34 - 46 lbs	38
FORCE @ 40°	46 - 58 lbs	47
RETURN ANGLE	12° maximum	5°

TEST MEETS SPECIFICATIONS

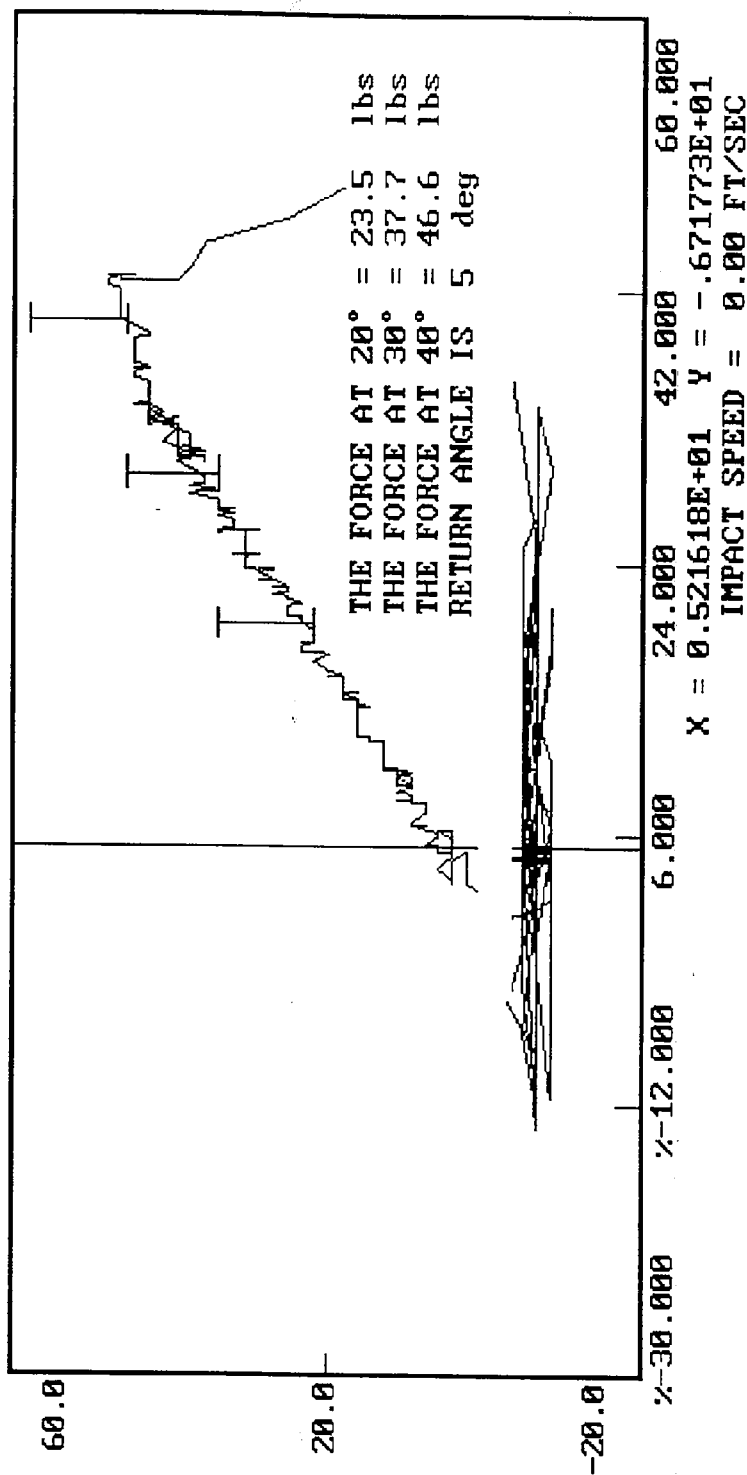
TECHNICIAN



APPROVED BY



DUMMY CALIBRATION - LUMBAR FLEXION
 DUMMY # 271
 FORCE (LBS) VS. TORSO ROTATION (DEGREES) 03-26-1996 17:25



POST-TEST CERTIFICATION DATA

Passenger Dummy Serial Number: 272

Calibration Test Results Summary

Dummy Serial Number: 272

Post-Test Calibration

External Dimensions:	The dummy passed all external dimension 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

DUMMY NO.: 272

DATE OF VERIFICATION: March 4, 1996

DESCRIPTION	SPECIFICATION	TEST RESULTS
SH - Seated Height	35.0" - 35.8"	35.2
RH - Rib Height	19.75" - 20.50"	20.20
HP - Hip Pivot Height	3.9" ref.	3.9
RD - Rib From Back Line	9.0" to 9.5"	9.4
KV - Knee Pivot From Back Line	20.1" - 20.7"	20.7
SW - Knee Pivot to Floor	19.3" - 19.9"	19.6
HW - Hip Width	14.0" - 15.4"	15.0

MEASUREMENTS BY:



APPROVED BY:



MGA RESEARCH CORPORATION
THORACIC SHOCK ABSORBER TEST
SIDE IMPACT DUMMY (SID)

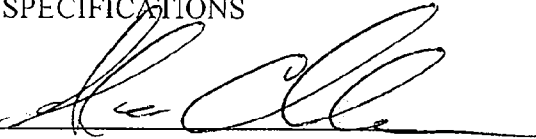
DATE: April 3, 1996

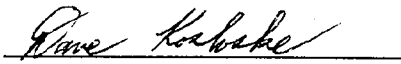
DUMMY NUMBER: 272

TEST NUMBER: D9663678

TEST PARAMETER		SPECIFICATION	TEST RESULTS
TEMPERATURE		66° - 78° F	70°
RELATIVE HUMIDITY		10 - 70%	30%
VELOCITY 10 ft/s	FORCE (lb.)	188 - 253	206
	DISPLACEMENT (in.)	1.18 - 1.38	1.29
VELOCITY 14 ft/s	FORCE (lb.)	389 - 472	408
	DISPLACEMENT (in.)	1.26 - 1.47	1.36
VELOCITY 20 ft/s	FORCE (lb.)	841 - 1000	875
	DISPLACEMENT (in.)	1.30 - 1.57	1.31

TEST MEETS SPECIFICATIONS

TECHNICIAN 

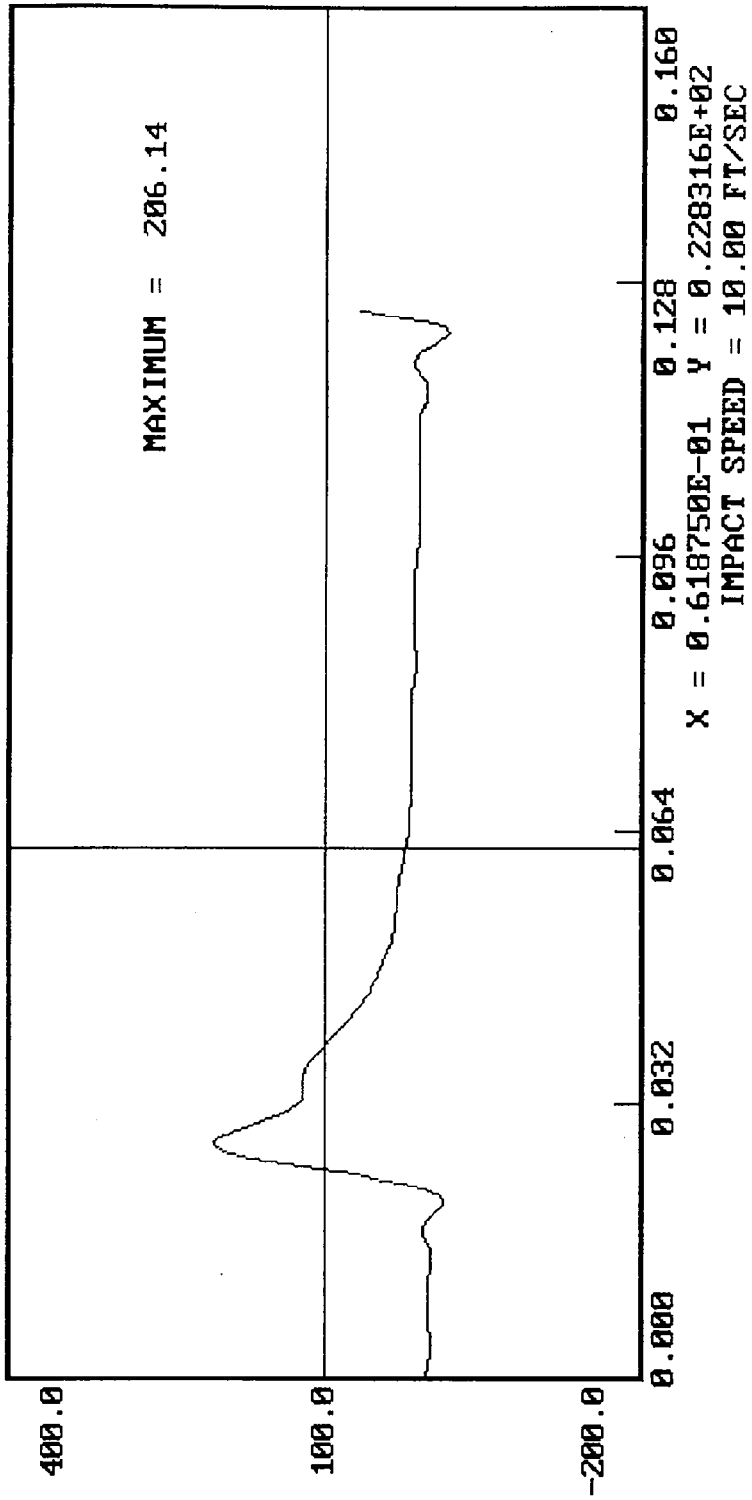
APPROVED BY 

04-03-1996 11:12

DUMMY CALIBRATION - DAMPENER BENCH TEST

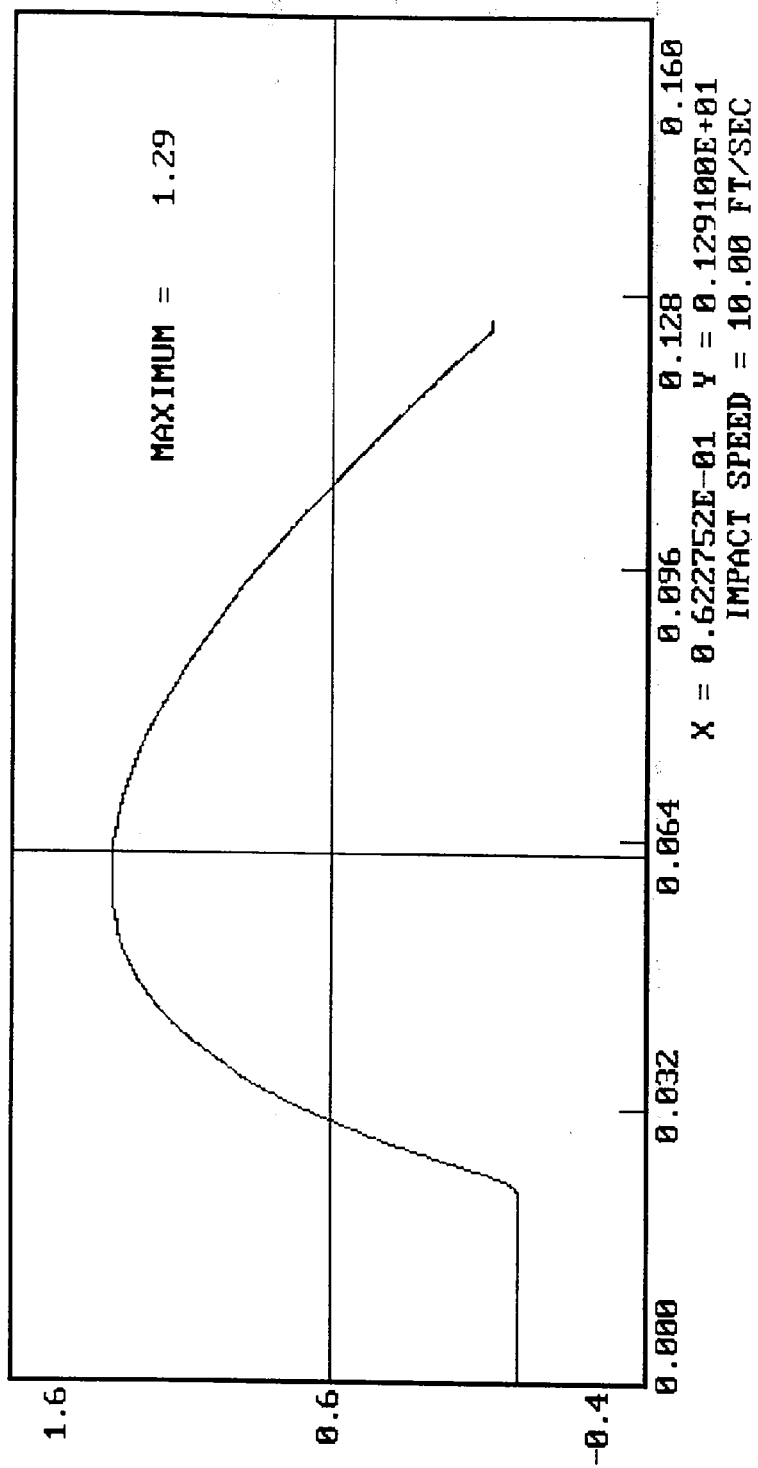
DUMMY # 272

FORCE (LBS) VS. TIME ((SECONDS))



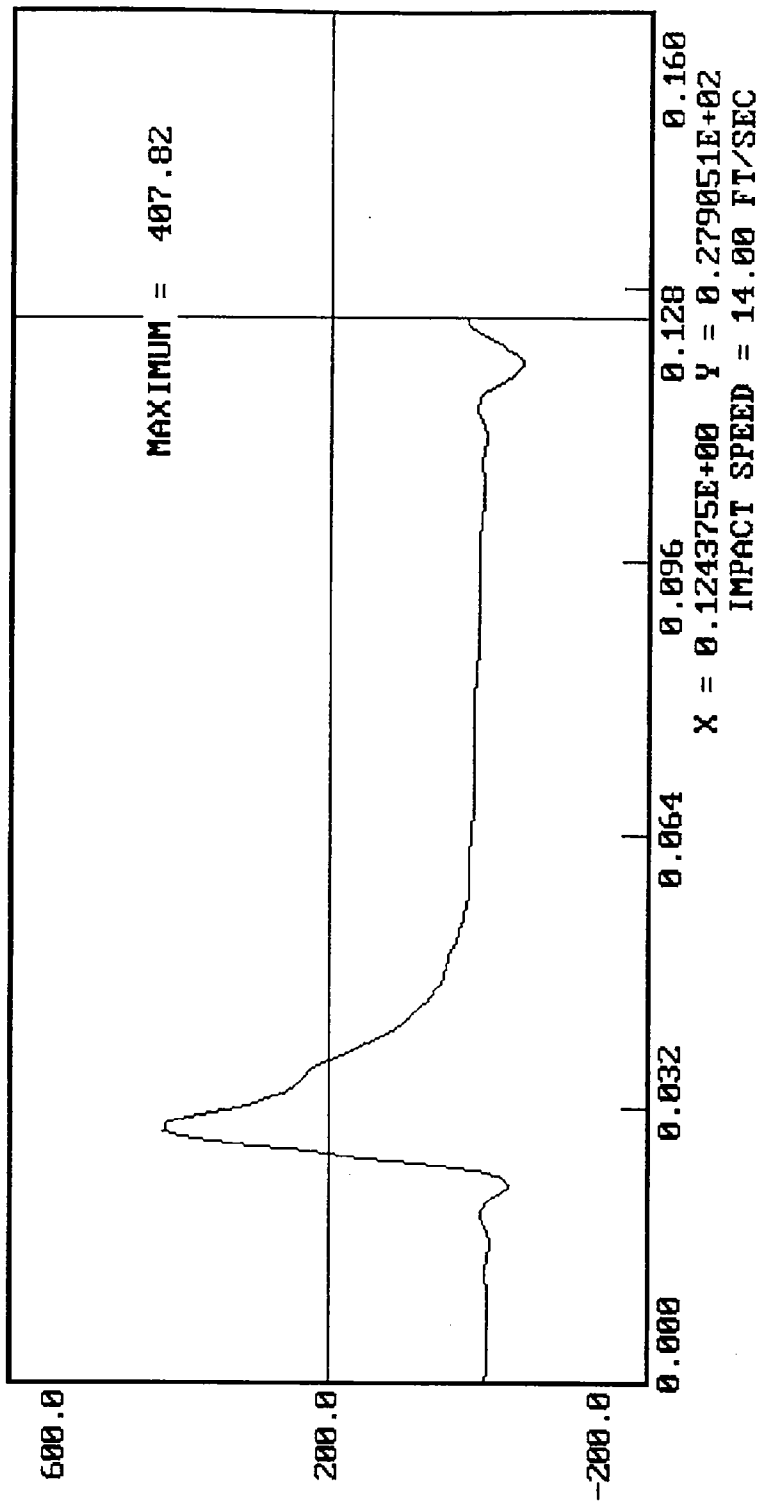
DUMMY CALIBRATION - DAMPENER BENCH TEST
 DUMMY # 272
 04-03-1996 11:12

DISPLACEMENT (IN) VS. TIME ((SECONDS))



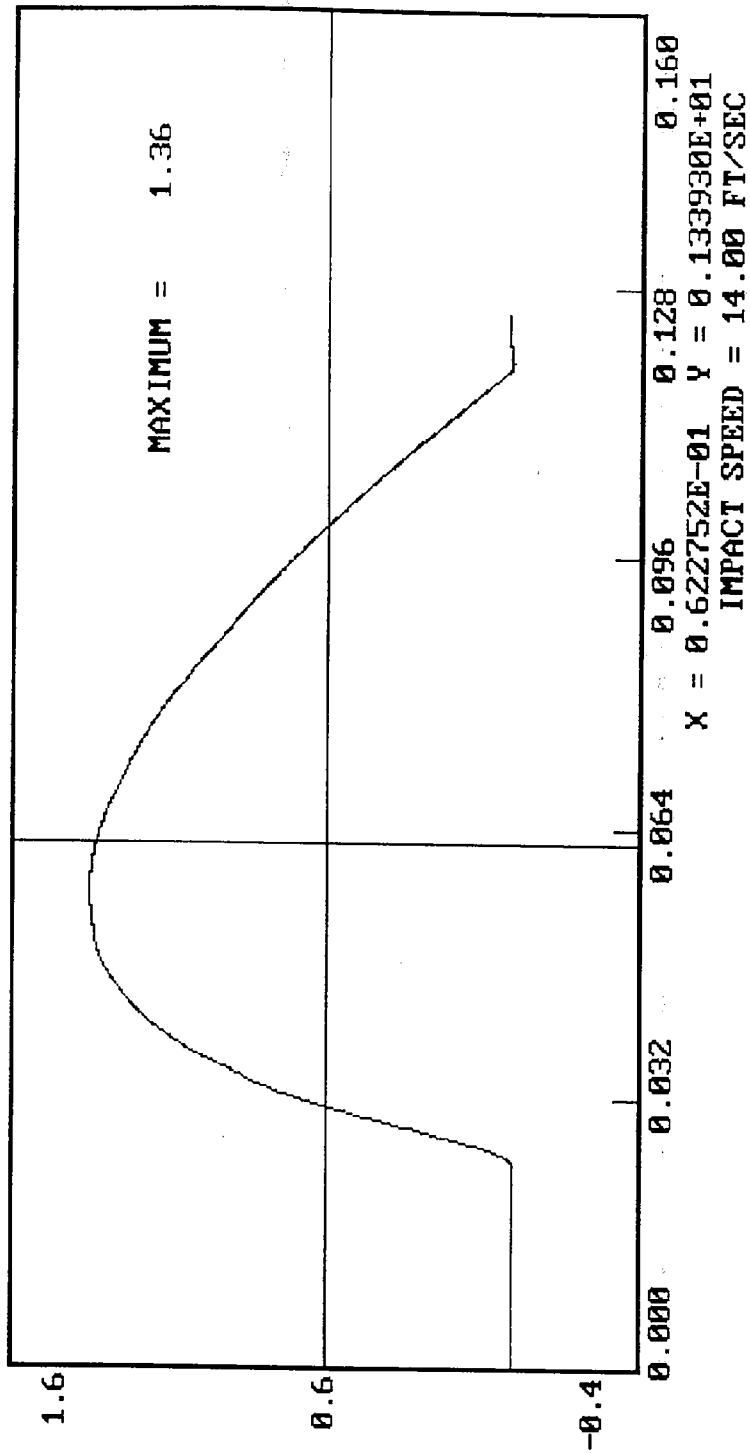
DUMMY CALIBRATION - DAMPENER BENCH TEST
DUMMY # 272
FORCE (LBS) VS. TIME (SECONDS)

04-03-1996 14:45



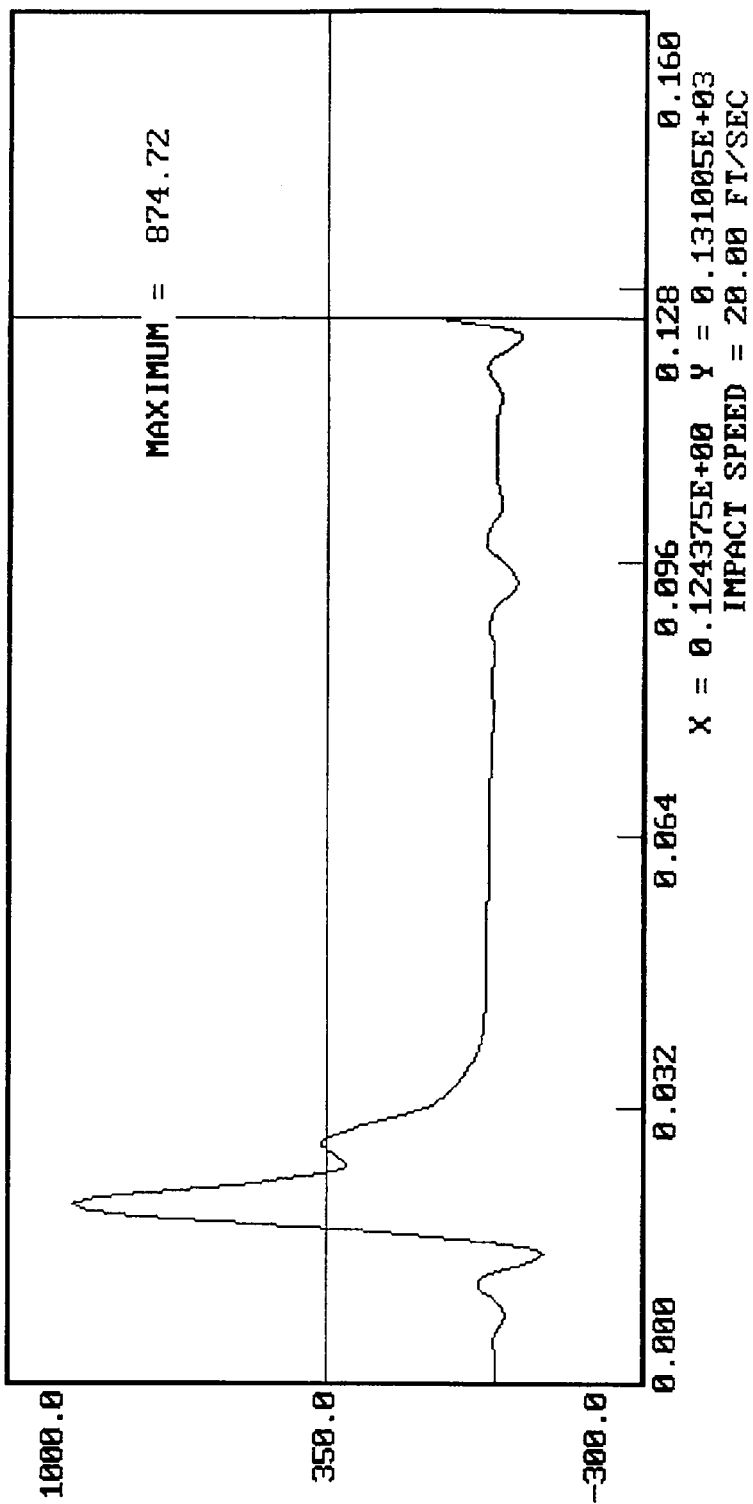
DUMMY CALIBRATION - DAMPENER BENCH TEST
 DUMMY # 272
 DISPLACEMENT (IN) VS. TIME ((SECONDS))

04-03-1996 14:45



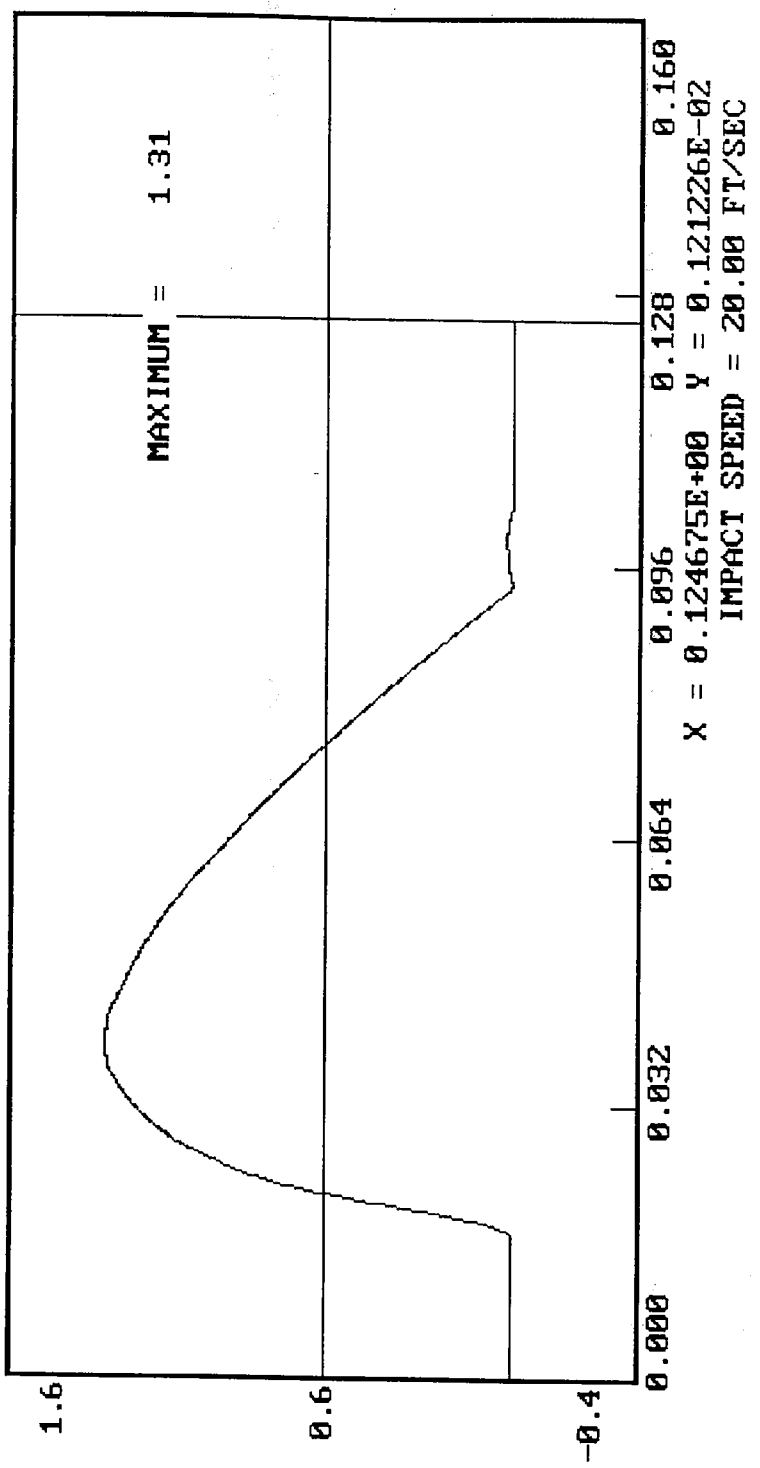
DUMMY CALIBRATION - DAMPENER BENCH TEST
 DUMMY # 272
 FORCE (LBS) VS. TIME ((SECONDS))

04-03-1996 14:25



DUMMY CALIBRATION - DAMPENER BENCH TEST
 DUMMY # 272
 04-03-1996 14:26

DISPLACEMENT (IN) VS. TIME ((SECONDS))



MGA RESEARCH CORPORATION

THORAX IMPACT TEST

SIDE IMPACT DUMMY (SID)

DATE: April 4, 1996

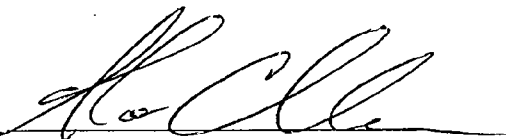
DUMMY NUMBER: 272

TEST NUMBER: D96632

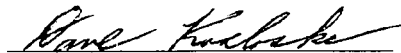
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	66 - 78° F	70°
RELATIVE HUMIDITY	10 - 70%	32%
PROBE SPEED	13.8 - 14.2 fps	14.0
UPPER RIB	37 - 46 g's	43
LOWER RIB	37 - 46 g's	45
LOWER SPINE	15 - 22 g's	20

TEST MEETS SPECIFICATIONS

TECHNICIAN

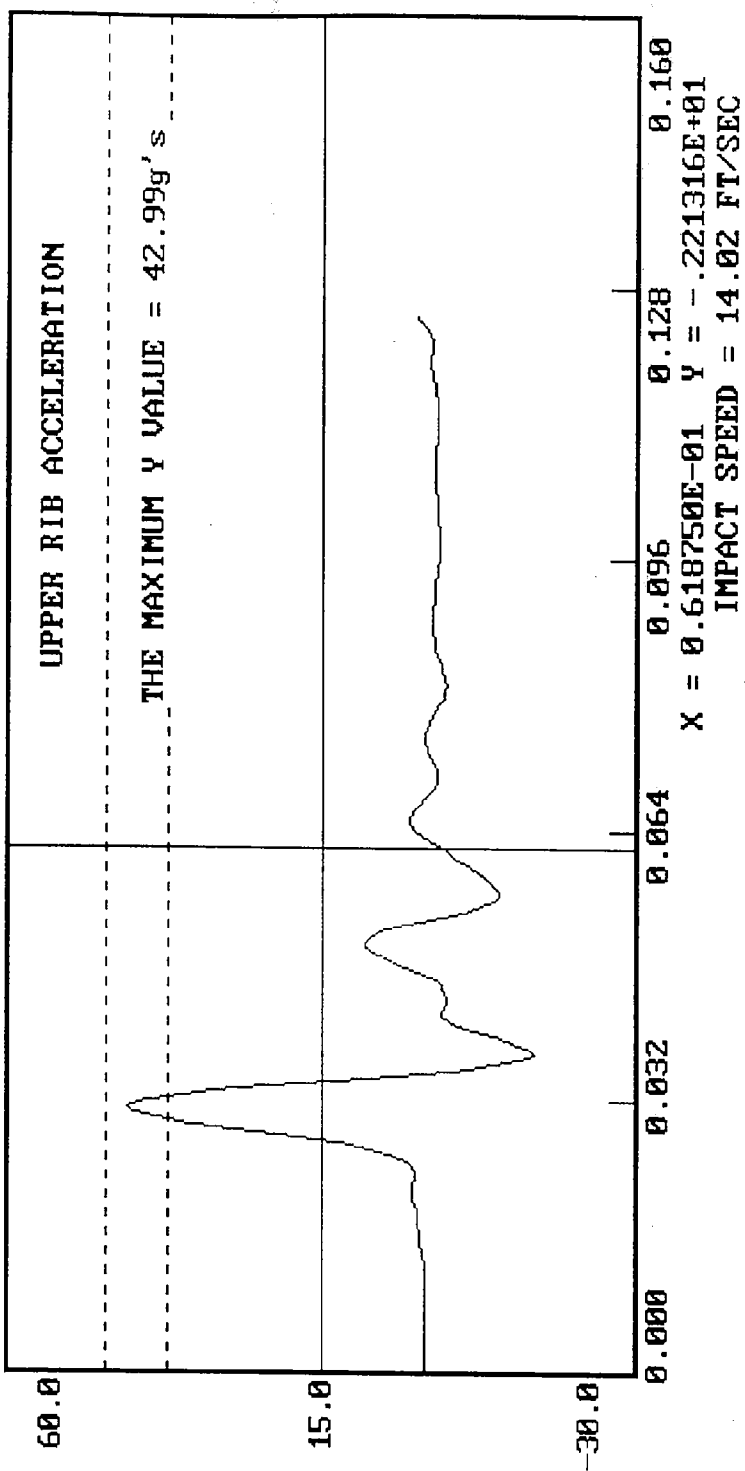


APPROVED BY



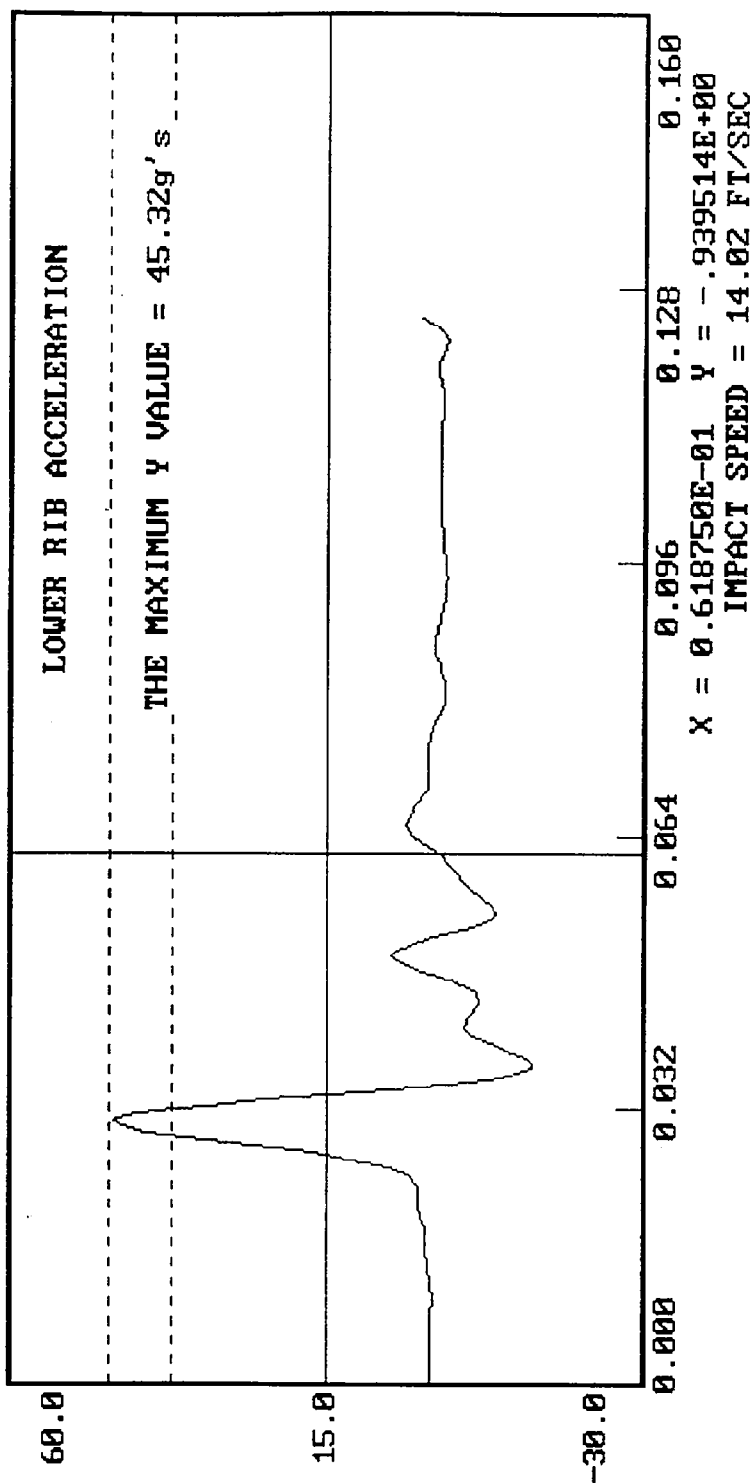
DUMMY CALIBRATION - THORAX IMPACT
 DUMMY # 272
 04-04-1996 09:54

ACCELERATION (G'S) VS. TIME ((SECONDS))



DUMMY CALIBRATION - THORAX IMPACT
 DUMMY # 272
 04-04-1996 09:54

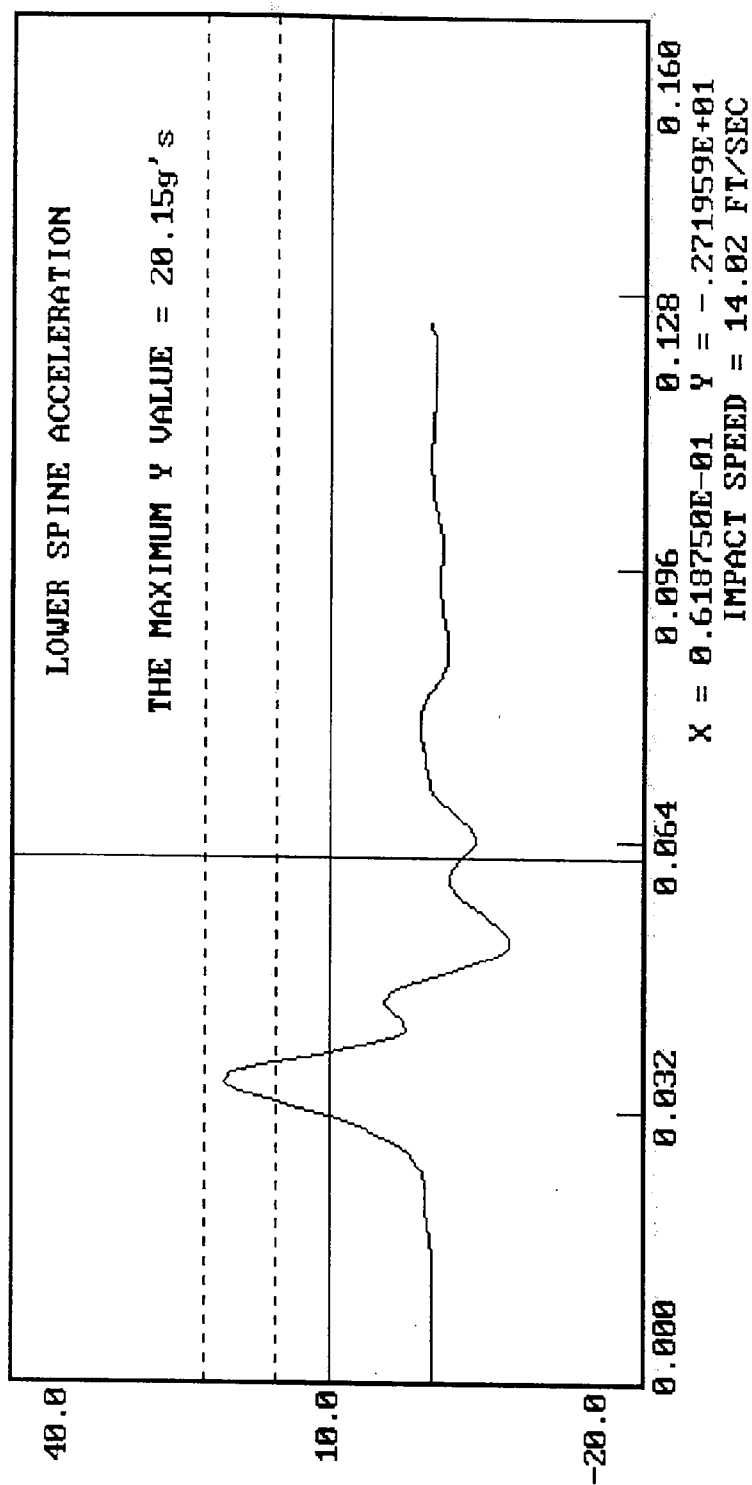
ACCELERATION (G'S) VS. TIME ((SECONDS))



DUMMY CALIBRATION - THORAX IMPACT

DUMMY # 272
ACCELERATION (G'S) VS. TIME ((SECONDS))

04-04-1996 09:54



MGA RESEARCH CORPORATION

PELVIS IMPACT TEST

SIDE IMPACT DUMMY (SID)

DATE: April 4, 1996

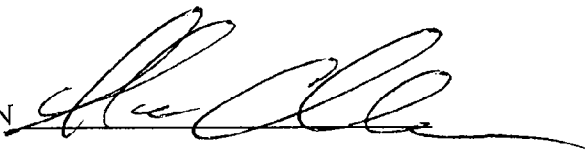
DUMMY NUMBER: 272

TEST NUMBER: D96633

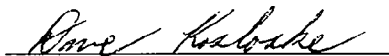
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	66 - 78° F	70°
RELATIVE HUMIDITY	10 - 70%	32%
PROBE SPEED	13.8 - 14.2 f/s	14.0
PELVIS ACCELERATION	40 - 60 g's	56

TEST MEETS SPECIFICATIONS

TECHNICIAN

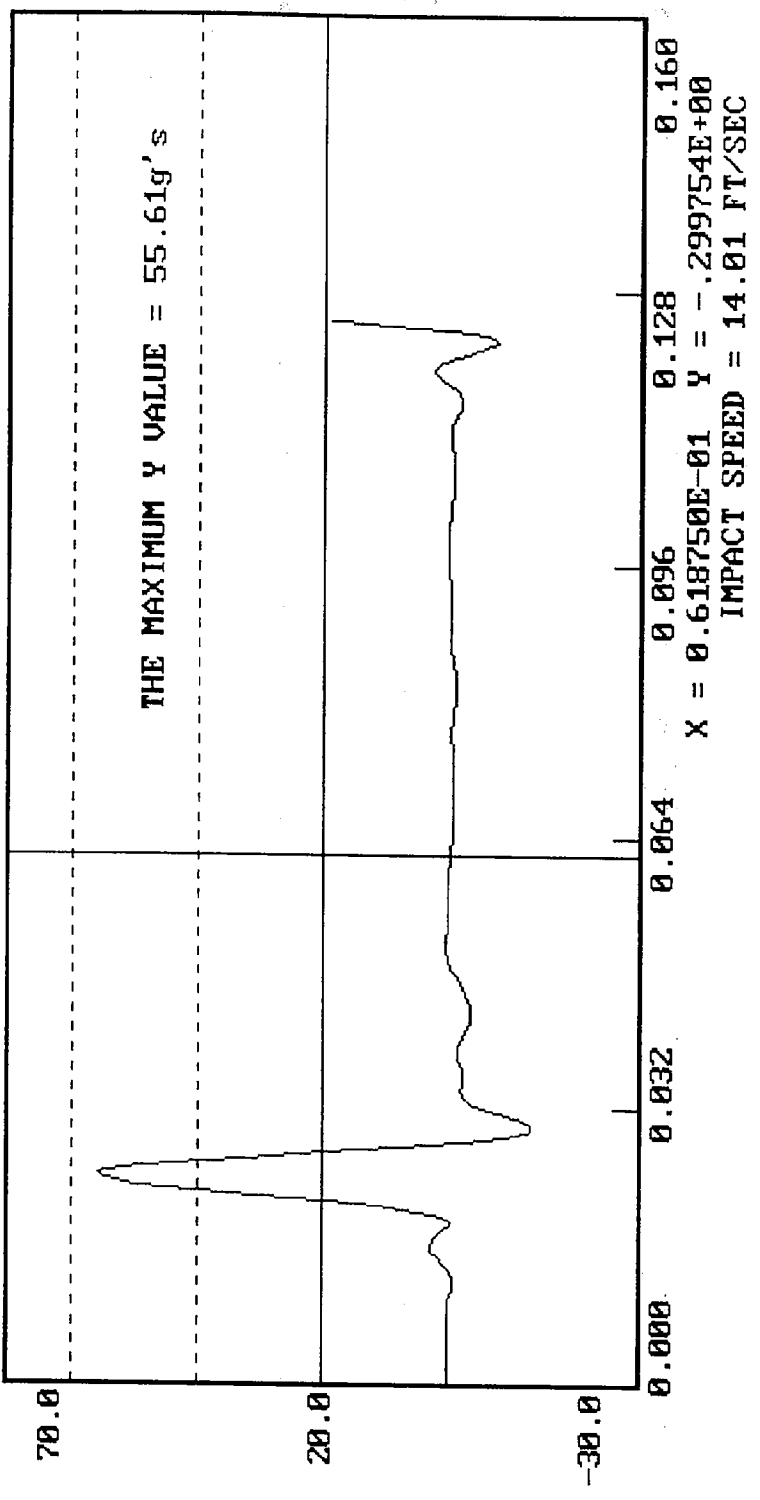


APPROVED BY



DUMMY CALIBRATION - PELVIS IMPACT
 DUMMY # 272
 ACCELERATION (G'S) VS. TIME ((SECONDS))

04-04-1996 10:01



MGA RESEARCH CORPORATION
ABDOMINAL COMPRESSION TEST
(PRELOAD = 10 LBS)
SIDE IMPACT DUMMY (SID)

DATE: March 27, 1996

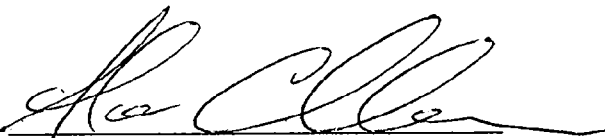
DUMMY NUMBER: 272

TEST NUMBER: D96634

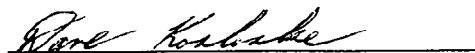
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	66 - 78° F	70°
RELATIVE HUMIDITY	10 - 70%	24%
FORCE @ 0.5 in	23.3 - 36.5 lbs	31.1
FORCE @ 0.75 in	36.7 - 49.8 lbs	43.0
FORCE @ 1.0 in	50 - 63 lbs	58
FORCE @ 1.3 in	73 - 88 lbs	82

TEST MEETS SPECIFICATIONS

TECHNICIAN

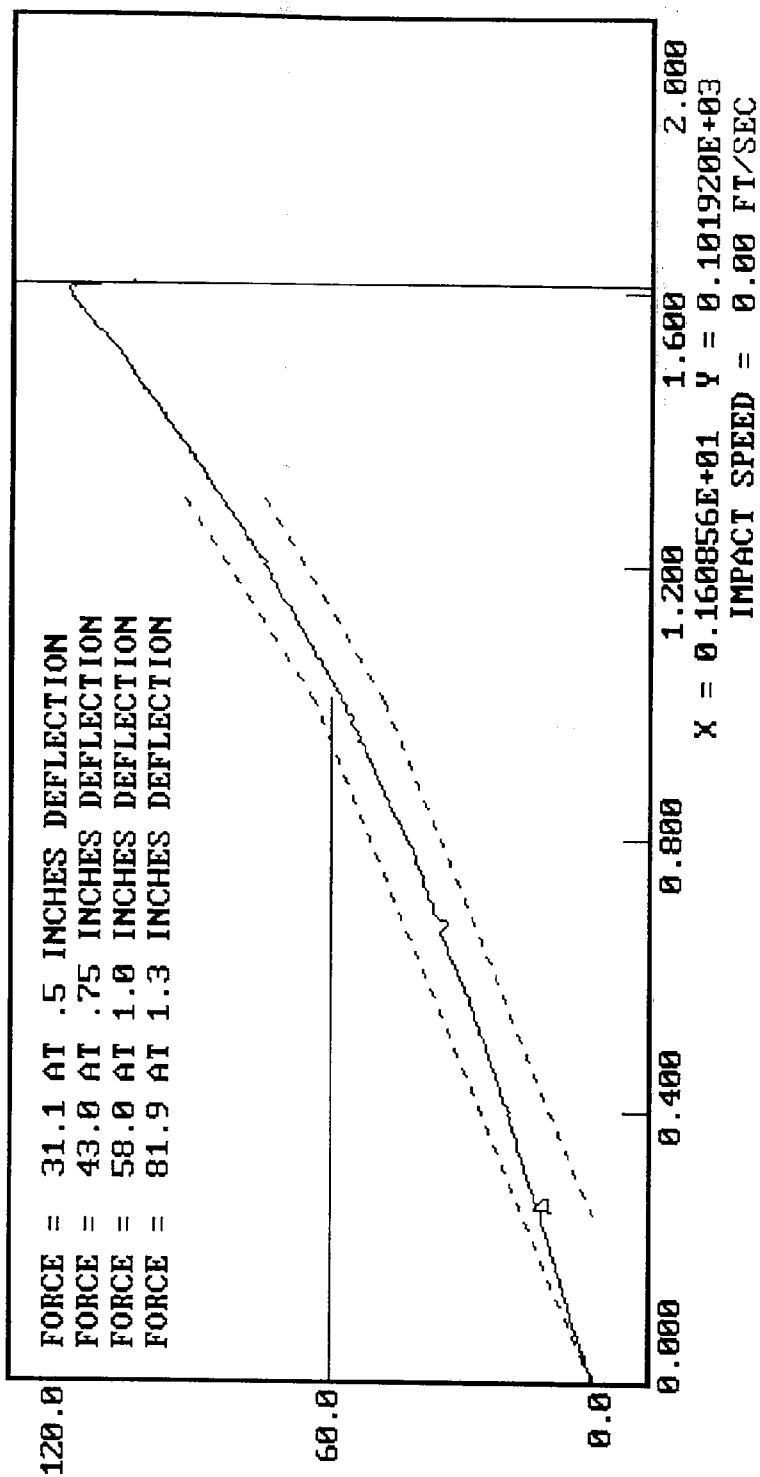


APPROVED BY



DUMMY CALIBRATION - ABDOMEN COMPRESSION
 DUMMY # 272
 03-27-1996 09:23

ABDOMEN FORCE (LBS) VS. ABDOMEN DISPLACEMENT (INCHES)



MGA RESEARCH CORPORATION

LUMBAR FLEXION TEST

SIDE IMPACT DUMMY (SID)

DATE: March 26, 1996

DUMMY NUMBER: 272

TEST NUMBER: D96635

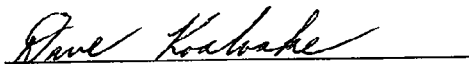
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE	66 - 78° F	70°
RELATIVE HUMIDITY	10 - 70%	22%
FORCE @ 0°	0 - 6 lbs	0
FORCE @ 20°	22 - 34 lbs	23
FORCE @ 30°	34 - 46 lbs	36
FORCE @ 40°	46 - 58 lbs	54
RETURN ANGLE	12° maximum	4°

TEST MEETS SPECIFICATIONS

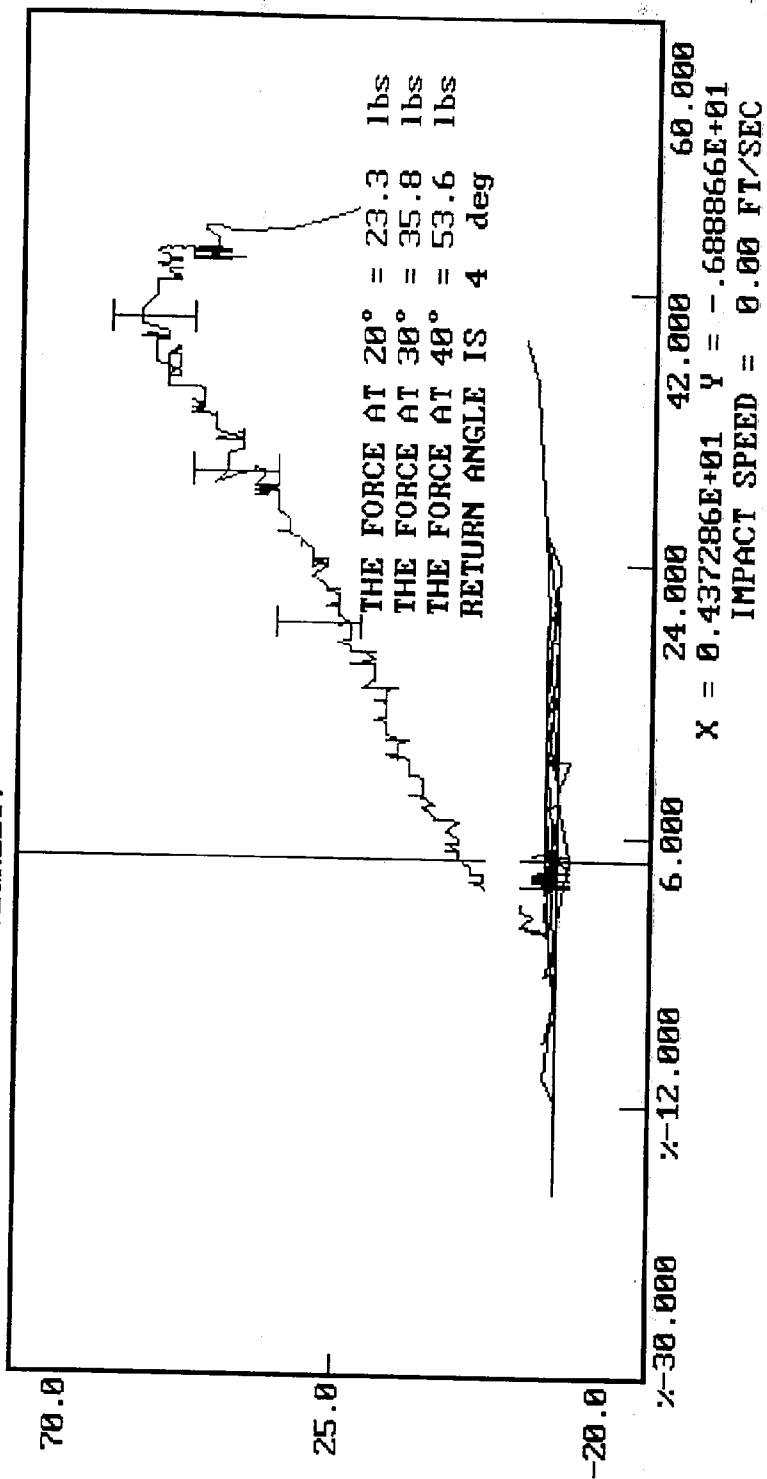
TECHNICIAN



APPROVED BY



DUMMY CALIBRATION - LUMBAR FLEXION
 DUMMY # 272
 03-26-1996 17:48
 FORCE (LBS) VS. TORSO ROTATION (DEGREES)



POST-TEST DRIVER DUMMY INSPECTION CHECKLIST

Type: Side Impact Dummy

Serial Number: 271

Inspected By: Tim Michnay

Date: April 4, 1996

<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

Type: Side Impact Dummy

Serial Number: 272

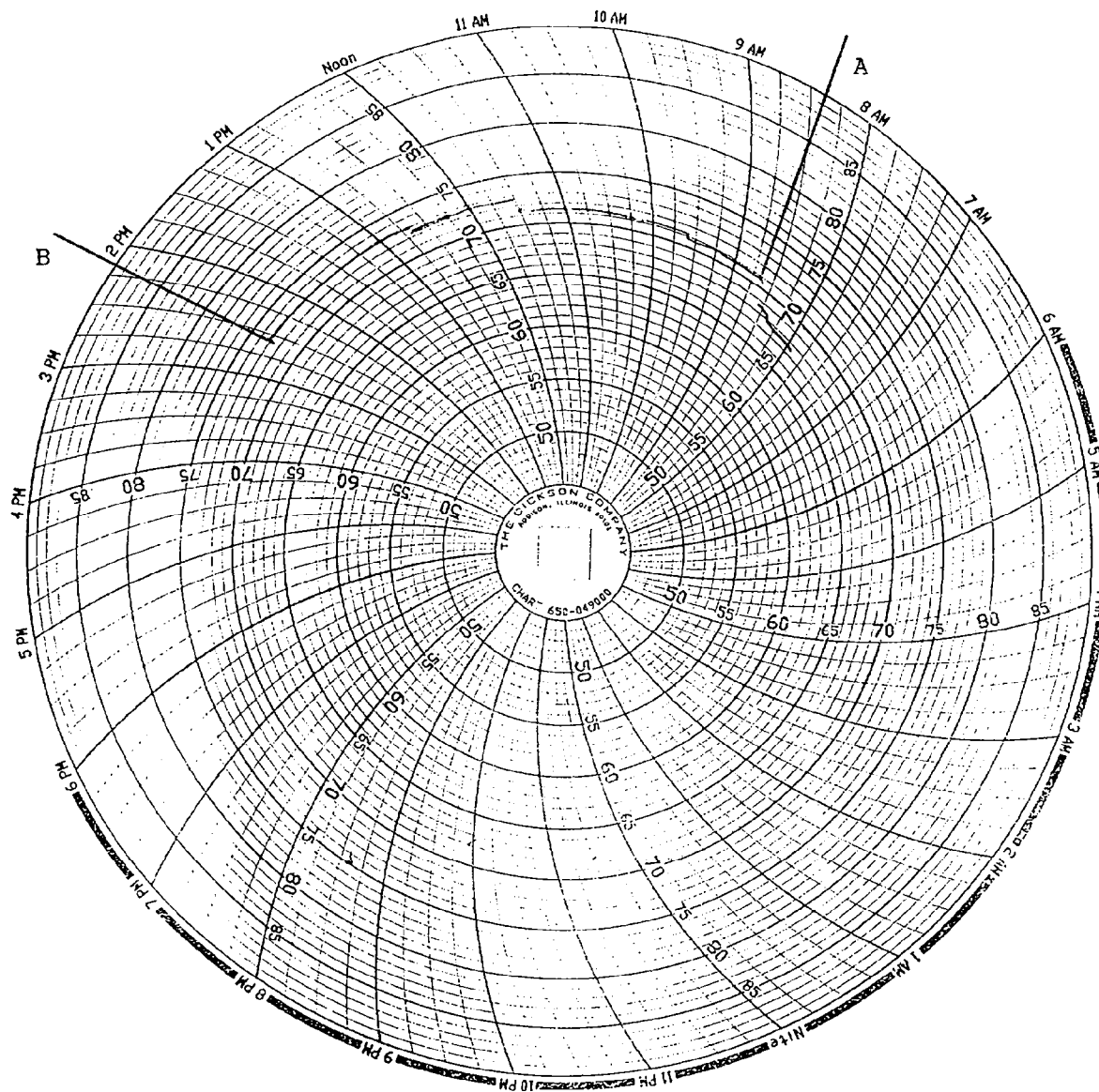
Inspected By: Tim Michnay

Date: April 4, 1996

<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



A = Dummies placed 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	AP2A4	Endevco	February 21, 1996
Lower Rib Y	AP1B3	Endevco	February 21, 1996
Lower Spine Y	ANAP1	Endevco	February 21, 1996
Pelvis Y	AHTC3	Endevco	February 21, 1996
Upper Rib Redundant Y	AP2D8	Endevco	February 21, 1996
Lower Rib Redundant Y	AP1C6	Endevco	February 21, 1996
Lower Spine Redundant Y	ANAT6	Endevco	February 21, 1996
Pelvis Redundant Y	AGP53	Endevco	February 21, 1996

INSTRUMENTS FOR PASSENGER DUMMY NO. 272

	LEFT REAR PASSENGER		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Upper Rib Y	AGTM8	Endevco	February 20, 1996
Lower Rib Y	11166	Endevco	January 29, 1996
Lower Spine Y	AP0H4	Endevco	February 20, 1996
Pelvis Y	APY15	Endevco	February 20, 1996
Upper Rib Redundant Y	AJ411	Endevco	February 20, 1996
Lower Rib Redundant Y	11630	Endevco	January 29, 1996
Lower Spine Redundant Y	AP0P6	Endevco	February 20, 1996
Pelvis Redundant Y	APY16	Endevco	February 20, 1996

VEHICLE INSTRUMENT CALIBRATION

VEHICLE AND MDB ACCELEROMETERS		
	SERIAL NO.	CALIBRATION DATE
Moving Barrier CG X	J06-D17	January 22, 1996
Moving Barrier CG Y	J23-E01	January 22, 1996
Moving Barrier CG Z	J23-E08	January 22, 1996
Moving Barrier Rear Axle X	C25-A08	October 24, 1995
Moving Barrier Rear Axle Y	L18-G01	October 24, 1995
Left Mid A-Post Y	E25-G06	February 02, 1996
Left Lower A-Post Y	J06-D23	December 13, 1995
Left Lower B-Post Y	C25-A01	October 05, 1995
Rear Floorpan Above Axle X	J23-E07	January 22, 1996
Rear Floorpan Above Axle Y	L14-D07	January 22, 1996
Rear Floorpan Above Axle Z	J23-E05	January 22, 1996
Driver Seat Track Y	D06-A16	February 02, 1996
Right Side Sill at Front Seat X	L14-D05	October 24, 1995
Right Side Sill at Front Seat Y	J03-A13	February 02, 1996
Right Side Sill at Front Seat Z	G19-G05	February 02, 1996
Right Side Sill at Rear Seat X	E24-G08	February 02, 1996
Right Side Sill at Rear Seat Y	C27-B05	February 02, 1996
Right Side Sill at Rear Seat Z	E13-D02	February 02, 1995
Left Side Sill at Front Seat Y	E13-D18	October 23, 1995

VEHICLE INSTRUMENT CALIBRATION

	VEHICLE AND MDB ACCELEROMETERS		
	SERIAL NO	MANUFACTURER	CALIBRATION DATE
Left Side Sill at Rear Seat Y	L14-D14	Entran	October 24, 1995
Right Rear Occupant Compartment Y	J10-E13	Entran	January 26, 1996
Vehicle CG X	J10-E11	Entran	January 26, 1996
Vehicle CG Y	J23-E12	Entran	January 26, 1996
Vehicle CG Z	J06-D19	Entran	January 26, 1996

Note: All Endevco accelerometers are Model No. 7264-2000. All Entran accelerometers are Model No. EGE-72