REPORT NUMBER: NCAP-MGA-2001-007

NEW CAR ASSESSMENT PROGRAM
FRONTAL BARRIER IMPACT TEST

Daimler Chrysler Corporation
2001 Dodge Stratus 4 Door
NHTSA NUMBER: M10313

PREPARED BY:
MGA RESEARCH CORPORATION
5000 WARREN ROAD
BURLINGTON, WI 53105

January 18, 2001

FINAL REPORT

PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
OFFICE OF CRASHWORTHINESS STANDARDS
400 SEVENTH STREET, SW, ROOM 5311
WASHINGTON, D.C. 20590

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Prepared by: _____ Date: _____
Chris Havens, Project Engineer

Reviewed by: _____ Date: _____
Dave Kosloske, Project Engineer

FINAL REPORT ACCEPTED BY:

_____
Manager, New Car Assessment Program

_____
Date of Acceptance

_____
COTR, NCAP Frontal Impact Program

_____
Date of Acceptance

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16. Abstract

A 35 mph (56.3 km/h) frontal barrier impact was conducted on a 2001 Dodge Stratus 4 Door at MGA Research Corporation on January 18, 2001. This test was conducted to obtain data indicant of FMVSS 208, 212, 219 (partial), 301, and footwell intrusion performance. The impact velocity was 56.3 km/h. The ambient temperature at the barrier face at the time of impact was 21 degrees Celsius. The vehicle's maximum post test static crush is 537 mm located to the right of the vehicle centerline. The test vehicle is equipped with a 3-point continuous belt system and a second generation supplemental airbag in both front outboard seating positions. With respect to FMVSS 208 "Occupant Crash Protection", the occupant injury criteria summary is as follows:

Measurement Description	Units	Threshold	Driver ATD	Pass. ATD
Head Injury Criteria (HIC)	N/A	1000	441	328
Max. Thorax Accel. (3msec Clip)	G's	60	43	42
Left Femur force	Newtons	10009	5561	2880
Right Femur force	Newtons	10009	3913	4861

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SECTION 1

PURPOSE AND TEST PROCEDURE

1.1 PURPOSE

This 35 mph (56.3 km/h) frontal barrier impact test is part of the FY' 01 New Car Assessment Program (NCAP) frontal barrier crashworthiness evaluation program sponsored by the National Highway Traffic Safety Administration (NHTSA) under Contract Number DTNH22-01-D-12005. The purpose of this test is to obtain vehicle crashworthiness, occupant restraint system performance, and lower leg data for frontal barrier impacts. The impact velocity used in this test is in excess of the current 30 mph (48.3 km/h) FMVSS 208/212/219/301 requirements.

1.2 TEST PROCEDURE

This 56.3 km/h frontal barrier impact test was conducted in accordance with the Office of Crashworthiness Standards (OCS) New Car Assessment Program (NCAP) Laboratory Test Procedure, dated December 1999 and the corresponding MGA Research Corporation Test Procedure NHTSA3, dated January 5, 2001. Data was obtained indicant of FMVSS 208, "Occupant Crash Protection"; FMVSS 212, "Windshield Retention"; FMVSS 219, "Windshield Zone Intrusion (Partial)"; and FMVSS 301, "Fuel System Integrity" performance. Procedures for receiving, inspection, and reporting of test results are described in the test procedures and are not repeated in this report.

The test was conducted at MGA Research Corporation on January 18, 2001 at a speed of 56.3 km/h. The test vehicle was instrumented with nine (9) accelerometers to measure longitudinal axis accelerations. The driver's and passenger's restraint systems were instrumented with four(4) seat belt load cells to measure lap and shoulder belt tension. The specified impact velocity range was 55.5 to 57.1 km/h. The frontal barrier impact event was documented by one (1) real-time panning motion picture camera and sixteen (16) high-speed motion picture cameras. The pre- and post-test conditions were recorded by one (1) real-time motion picture camera. Camera locations and pertinent camera information is documented in the data sheets. Pre- and post-test photographs of the vehicle and dummies can be found in Appendix A.

The test vehicle contained two (2) part 572E 50th percentile adult male anthropomorphic test devices (ATDs). Both ATDs were instrumented with head, chest, and pelvic tri-axial accelerometers, left and right femur load cells, upper and lower tibia sensors, and foot accelerometers. In addition, chest displacement and upper neck six-axis force and moment sensors were utilized. The ATDs were positioned in the front outboard seating positions according to the dummy placement procedures specified in the Laboratory Indicant Test Procedure. Ninety-four (94) channels of data were recorded with an EME on-board data acquisition system. The data was digitally sampled at 10,000 samples per second and processed per section IP11 of the Laboratory Test Procedure.

The driver (Serial No. 142) and the right-front passenger (Serial No. 192) were calibrated 1 test prior to this test. FMVSS 208 "Occupant Crash Protection" injury criteria were not exceeded by either ATD during this frontal barrier impact test.

1.3 SUMMARY OF FRONTAL IMPACT TEST

A rigid load cell barrier was impacted by a 2001 Dodge Stratus 4 Door at a velocity of 56.3 km/h. The test vehicle weight was 1663 kilograms with two (2) part 572E 50th percentile adult male ATDs. Six (6) load cell barrier data channels were obtained in conducting the NCAP Test. The test vehicle is equipped with a longitudinally mounted 2.4-liter, 4-cylinder engine and an automatic transmission.

The driver Head Injury Criteria (HIC) was 441. The maximum resultant chest deceleration over three (3) milliseconds was 43 g's. The left and right femur loads were 5560 and 3913 Newtons, respectively. Chest defection for the driver ATD peaked at 31 mm. The driver ATD head contacted the air bag, its chest and abdomen contacted the air bag, the left and right knees contacted the knee bolster.

The right front passenger's HIC was 328. The maximum resultant chest deceleration over three (3) milliseconds was 42 g's. The left and right femur loads were 2880 and 4861 Newtons, respectively. Chest defection for the passenger ATD peaked at 23 mm. The passenger ATD head contacted the air bag, the chest and abdomen contacted the air bag and left and right knees contacted the glove box.

There was 100 percent windshield retention (minimum 50 percent required for passive restraint systems). No intrusion occurred into the protected or unprotected zone of the windshield. No Stoddard Solvent leakage occurred after impact or during any phase of the rollover.

The test vehicle sustained a maximum static crush of 537 mm located 115 mm to the right of the vehicle centerline. Both the driver and passenger side doors opened without the aid of tools.

1.4 GENERAL COMMENTS

The 2001 Dodge Stratus 4 door passed the requirements of FMVSS 208, FMVSS 212, FMVSS 219, and FMVSS 301-75. Data pertaining to these standards are presented in the data sheets.

The vehicle, occupant, camera, and measurement data are presented in Section 2. Appendix A contains the still photograph prints. Appendix B Contains the dummy, vehicle, and barrier response data traces. Appendix C the dummy calibration data. Appendix D contains the instrumentation calibration data. Appendix E contains the owner’s manual and instructions for the occupant seating and restraint systems. Appendix F contains the child data and photos.

SECTION 2

OCCUPANT AND VEHICLE INFORMATION / DATA SHEETS

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

CONVERSION FACTORS USED IN THIS REPORT*

Quantity	Typical Application	Old Units	Metric Unit	Multiply By
Mass	Vehicle Weight	lb	kg	0.4536
Linear Velocity	Impact Velocity	mile/h	km/h	1.609
Length or Distance	Measurements	in	mm	25.4
Volume	Fuel Systems	gal	liter	3.785
Volume	Small Fluids	oz	mL	29.573
Pressure	Tire Pressure	lbf/in^2	kPa	7.0
Volume	Liquid	gal	liter	3.785
Temperature	General Use	°F	°C	=(tf -32)/1.8
Force	Dynamic Forces	lbf	N	4.448
Moment	Torque	lbf/ft	Nm	1.355

*Based on the Recommended Practice in SAE J916, May 85

DATA SHEET NO. 1

CRASH TEST SUMMARY

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

PRIMARY IMPACT DATA

Measured Parameter	Units	Value
Velocity at Impact	km/h	56.3
Test Weight	kg	1663.8
Impact Angle	degrees	90
Average Rebound	mm	595
Maximum Static Crush	mm	537

DOOR OPENING AND SEAT TRACK INFORMATION

Description	Driver	Passenger
Front Door Opening	yes	yes
Rear Door Opening	yes	yes
Seat Track Shift (mm)	4 mm forward	5 mm forward
Seat Back Failure	none	none

TEST DUMMY INFORMATION

Description	Driver	Passenger
Dummy Type / Serial No.	HIII/ 142	HIII / 192
Head Contact	air bag	air bag
Chest Contact	air bag	air bag
Abdomen Contact	air bag	air bag
Left Knee Contact	knee bolster	knee bolster
Right Knee Contact	knee bolster	knee bolster

16mm MOVIE COVERAGE

High Speed	16
Real Time	1
Total	17

Driver ATD Sensors	42
Passenger ATD Sensors	42
Belt Assessment Sensors	4
Vehicle Structure Accelerometers	9
Rigid Barrier Load Cells	6
Total	103

DATA SHEET NO. 2
GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

TEST VEHICLE INFORMATION

Manufacturer	Daimler Chrysler
Model	Stratus
Body Style	4 door
NHTSA No.	M10313
VIN	1B3EJ46X91N536935
Color	Silver
Delivery Date	1/09/01
Odometer Reading (mile)	89
Dealer	Wilde Dodge
Transmission	4 speed automatic
Final Drive	Front wheel
Number of Cylinders	4
Engine Displacement (L)	2.4
Engine Placement	Longitudinal

TEST VEHICLE OPTIONS

Driver Airbag	yes
Passenger Airbag	yes
Power Windows	yes
Power Steering	yes
Power Door Locks	yes
Tilt Wheel	yes
Air Conditioning	yes
Power Brakes	yes
Disc Brakes, Front	yes
Disc Brakes, Rear	no
Anti-lock Brakes	no
AM/FM/Cassette	yes
Anti-theft System	yes
Cruise Control	yes

DATA FROM CERTIFICATION LABEL

Manufactured By	Daimler Chrysler
Date of Manufacture	9/00

GVWR (kg)	1914
GAWR Front (kg)	1067
GAWR Rear (kg)	880

DATA FROM TIRE PLACARD

Measured Parameter	Front	Rear
Maximum Tire Pressure (kPa)	241	241
Cold Pressure (kPa)	207	207
Recommended Tire Size	P205/60R16	P205/60R16
Tire Size on Vehicle	P205/60R16	P205/60R16
Tire Manufacturer	Michelin	Michelin

Measured Parameter	Front	Rear	Third	Total
Type of Seats	Bucket	Bench		
Number of Occupants	2	3		5
Capacity Wt. (VCW) (kg)				392.4
Cargo Weight (RCLW) (kg)				52.2

DATA SHEET NO. 2...(continued)

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

TEST VEHICLE WEIGHTS

	Units	As Delivered (UVW)			As Tested (ATW)		
		Front Axle	Rear Axle	Total	Front Axle	Rear Axle	Total
Left	kg	465.8	276.7		513.9	336.6	
Right	kg	450.9	267.6		494.0	319.3	
Ratio	%	62.7	37.2		60.5	39.4	
Totals	kg	916.7	544.3	1461.0	1007.9	655.9	1663.8

TARGET TEST WEIGHT CALCULATION

Measured Parameter	Units	Value
Total Delivered Weight (UVW)	kg	1461.0
Weight of 2 P572E ATDs	kg	156.0
Rated Cargo/Luggage Weight (RCLW)	kg	52.2
Calculated Vehicle Target Weight (TVTW)	kg	1669.2

TEST VEHICLE ATTITUDES AND CG

	Units	LF	RF	LR	RR	CG (aft of front axle)
As Delivered	mm	693	708	718	712	1021
As Tested	mm	687	698	694	700	1081
Post Test	mm	717	842	684	680	

Vehicle Wheelbase (mm): 2742

Weight of Ballast secured in cargo area (kg): 0

Vehicle Components Removed: Rear bumper, tail lights, trunk interior, trunk lid, exhaust, rear door trims, glass and mechanisms

Ballast weight does not include cameras, instrumentation, and brake abort system.

FUEL SYSTEM DATA

Fuel System Capacity From Owner's Manual (L): 60.6

Usable Capacity Figure Furnished by COTR (L): 60.6

Actual Test Volume (L): 33.7

Test Fluid Type: Stoddard Solvent ; Specific Gravity: 0.77

Is Vehicle Fuel Pump Electric of Mechanical?: electric

If electric, does pump operate with ignition switch "ON" & engine "OFF"?: yes

Fuel System Particulars: Fuel system was drained at drain plug.

DATA SHEET NO. 3

POST IMPACT DATA

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

Measured Parameter	Units	Requirement	Value
Trap No. 1 Velocity (Primary)	km/h	55.5 - 57.1	56.3
Trap No. 1 Entry Distance	mm	<1524	1300
Trap No. 1 Exit Distance	mm	<1524	300
Trap No. 2 Velocity (Redundant)	km/h	55.5-57.1	56.6
Trap No. 2 Entry Distance	mm	<1524	1425
Trap No. 2 Exit Distance	mm	<1524	425

VEHICLE STATIC CRUSH

Measured Parameter	Units	Pre-Test	Post-Test	Difference
Left Side	mm	4328	3945	383
Center	mm	4559	4020	539
Right Side	mm	4325	3910	415

VEHICLE REBOUND FROM BARRIER

Measured Parameter	Units	Value
Left Side	mm	580
Center	mm	598
Right Side	mm	609
Average	mm	595

DATA SHEET NO. 4

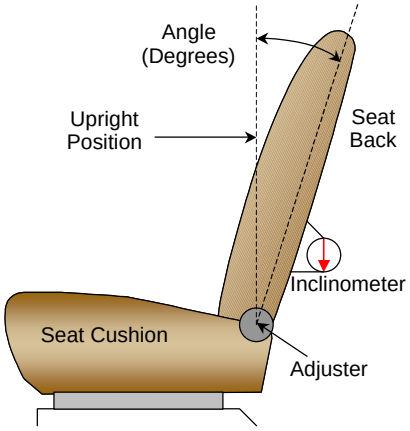
TEST VEHICLE INFORMATION

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

NORMAL DESIGN RIDING POSITION

The driver and passenger seat back is positioned to the manufacturer's designated angle. Without dummy, the seat back angle is 23 degrees. Cut the hole on either the inboard or outboard edge of the seat back, midway between the seat back pivot and the head rest. Place the inclinometer on the seat frame and rotate the seat back until 23 degrees.



FRONT SEAT ASSEMBLY

Driver seat back angle: 22.9 degrees

Passenger seat back angle: 23.0 degrees

SEAT FORE/AFT POSITIONS

Both driver and passenger seats have manual operated seats. The total travel on the driver is 23 seat positions and the passenger is 23 seat positions. The fore/aft position is set at the middle position for both driver and passenger.

Driver seat fore/aft total travel: 23 notches

Passenger seat fore/aft total travel: 23 notches

Driver seat fore/aft position: 12

Passenger seat fore/aft position: 12

SEAT BELT UPPER ANCHORAGE

The test vehicle is equipped with adjustable anchorages for both the driver and passenger seat positions. There are 5 positions or detents. The anchorages are placed in the mid position, 2 notches down from the top position.

DATA SHEET NO. 4...(continued)

TEST VEHICLE INFORMATION

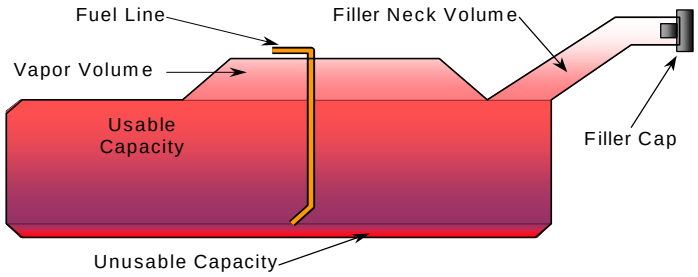
Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

FUEL TANK CAPACITY DATA

The "Usable Capacity" of the standard equipment fuel tank is:	60.6	liters
The "Usable Capacity" of any optional equipment fuel tank is:	n/a	liters
The "Usable Capacity" used for certification to FMVSS 301 requirements:	56.0 to 56.8	liters
Actual amount of Stoddard solvent added to vehicle for certification test:	33.7	liters

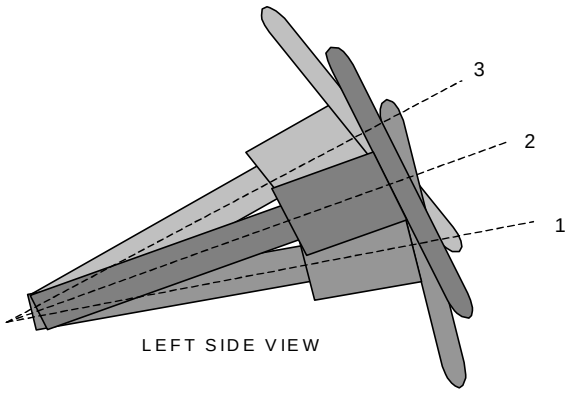
The test vehicle is equipped with an electric fuel pump. A relay shuts the pump off in an operating vehicle 800 msec after the crank signal says the engine is not turning. The fuel filler door is located on the left rear fender.



VEHICLE FUEL TANK ASSEMBLY

STEERING COLUMN ADJUSTMENT

Steering wheel and column adjustments are made so that the steering wheel hub is at the geometric center of the locus it describes, when it is moved through its full range of motion. A metal plate is placed across the rim of the steering wheel, and inclinometer is placed onto the plate and the angle is measured.



STEERING COLUMN ASSEMBLY

Lowermost, position 1:	20.6°
Geometric center, position 2:	21.3°
Uppermost, position 3:	22.0°

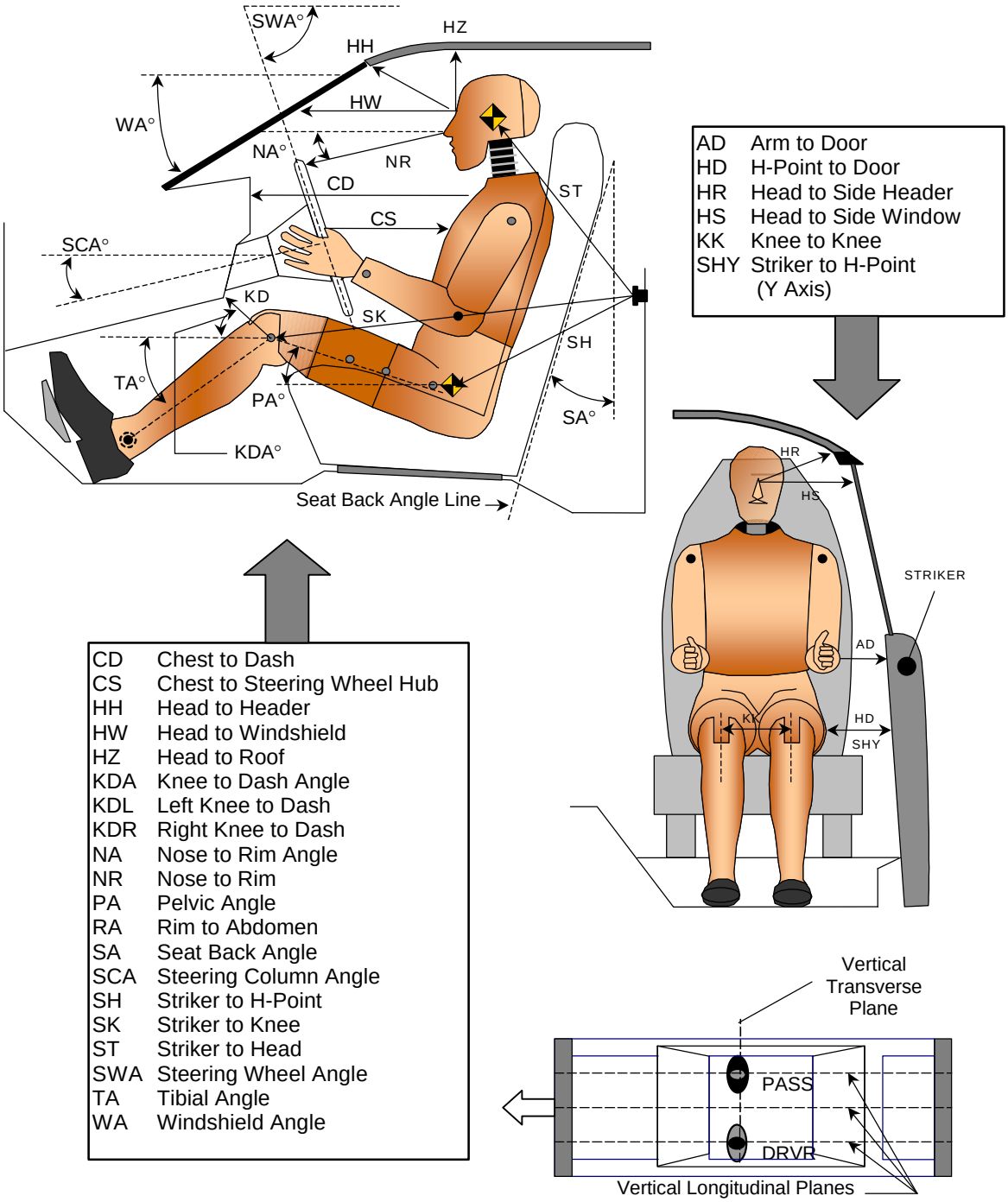
DATA SHEET NO. 5

DUMMY POSITIONING IN VEHICLE

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

DUMMY MEASUREMENTS FOR FRONT SEAT OCCUPANTS



DATA SHEET NO. 5...(continued)

DUMMY POSITIONING IN VEHICLE

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

TEST DUMMY POSITION MEASUREMENTS

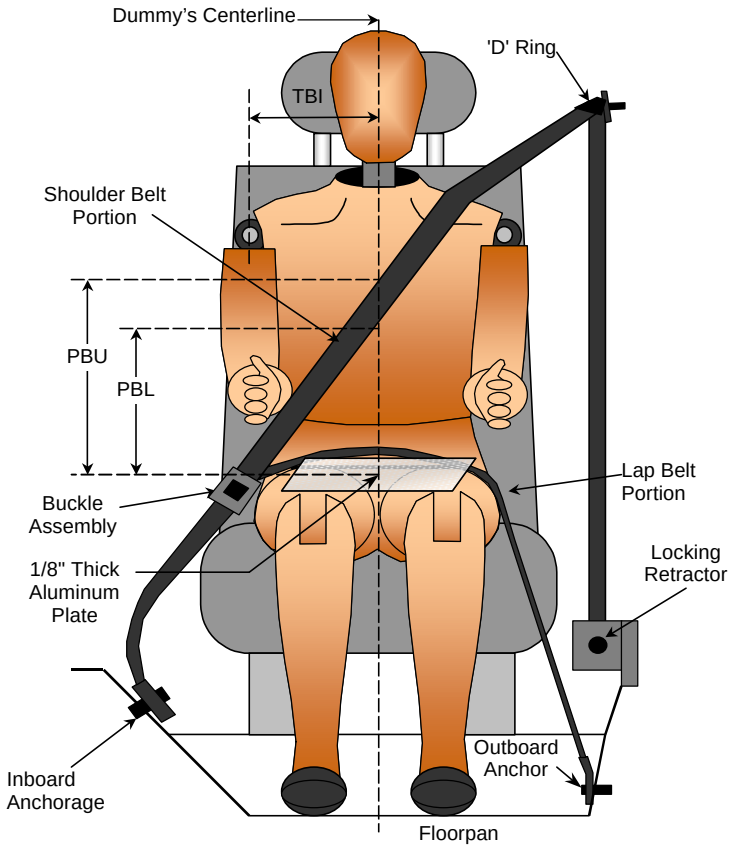
Code	Measurement Description	Driver		Passenger	
		Length (mm)	Angle (°)	Length (mm)	Angle (°)
WA	Windshield Angle		23.7		
SWA	Steering Wheel Angle		68.4		
SCA	Steering Column Angle		21.7		
SA	Seat Back Angle		22.9		23.0
HZ	Head to Roof (Z)	149	90.0	142	90.0
HH	Head to Header	290	16.0	288	18.9
HW	Head to Windshield	562	0.0	522	0.0
HR	Head to Side Header (Y)	226		226	
NR	Nose to Rim	352	17.8		
CD	Chest to Dash	470		500	
CS	Chest to Steering Hub	272	15.2		
RA	Rim to Abdomen	171	0.0		
KDL	Left Knee to Dash	166	0.0	83	
KDR	Right Knee to Dash	176		131	0.0
PA	Pelvic Angle		24.8		24.6
TA	Tibia Angle		39.9		42.6
KK	Knee to Knee (Y)	285		267	
SK	Striker to Knee	612	89.3	632	88.4
ST	Striker to Head	546	12.5	547	12.0
SH	Striker to H-Point	238	115.6	244	112.8
SHY	Striker to H-Point (Y)	276		276	
HS	Head to Side Window	335		326	
HD	H-Point to Door (Y)	148		138	
AD	Arm to Door (Y)	116		134	
AA	Ankle to Ankle	265		190	

DATA SHEET NO. 6

SEAT BELT POSITIONING DATA

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001



SEAT BELT POSITIONING MEASUREMENTS

Measurement Description	Units	Driver	Passenger
TBI - Dummy centerline to shoulder bolt	mm	209	192
PBU - Top surface of reference to belt upper edge	mm	330	340
PBL - To surface of reference to belt lower edge	mm	250	253

DATA SHEET NO. 7

VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

VEHICLE X-AXIS ACCELEROMETER PEAK DATA AND PRE-TEST LOCATIONS

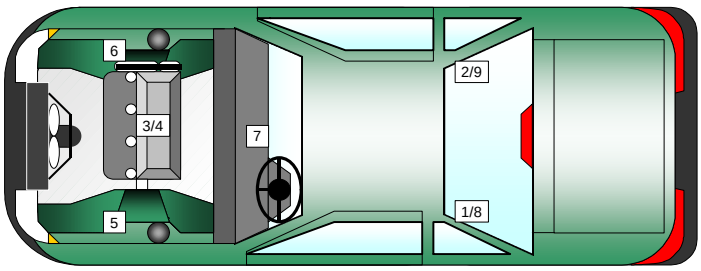
No.	Accelerometer Location	Measurements (mm)			Peak Values				
		X	Y	Z	Units	Max	Time	Min	Time
1	Left Rear X-Member (Primary)	1642	-622	324	G's	2.5	150	42.5	44
2	Right Rear X-Member (Primary)	1640	622	325	G's	2.8	150	37.5	49
3	Engine Top **	3674	75	833	G's	**	**	105.6	35
4	Engine Bottom	3729	135	155	G's	90.9	44	143.6	33
5	Left Brake Caliper	3611	-692	262	G's	26.3	60	89.1	43
6	Right Brake Caliper	3642	692	358	G's	35.2	68	84.6	48
7	Instrument Panel	2865	32	930	G's	38.7	29	64.2	69
8	Left Rear X-Member (Redundant)	1642	-622	324	G's	2.6	150	43.3	45
9	Right Rear X-Member (Redundant)	1640	622	325	G's	3.1	150	37.1	49

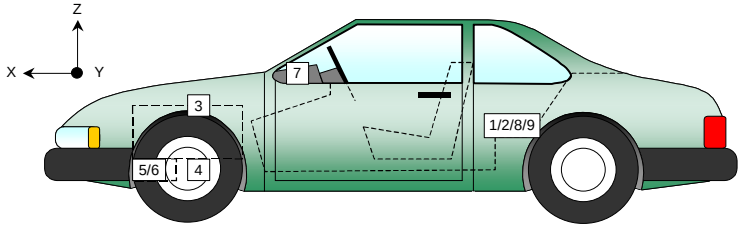
Reference Points: X - From Rear Surface of Vehicle (+ forward)

Y - Vehicle Centerline (+ to right)

Z - Ground Plane (+ up)

** No valid data after 43 msec





DATA SHEET NO. 8

HYBRID III ATD INJURY CRITERIA AND SENSOR DATA

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

HEAD PRIMARY PEAK ACCELERATIONS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Head CG	X	G's	7.7	180	52.6	71	5.7	196	44.6	76
Head CG	Y	G's	8.6	33	8.4	83	11.2	62	10.7	99
Head CG	Z	G's	15.1	62	11.8	93	23.6	62	3.7	103
Head CG Resultant	N/A	G's	53.4	72			47.8	76		

CHEST PRIMARY PEAK ACCELERATIONS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Chest CG	X	G's	6.0	181	43.4	73	2.7	194	42.9	73
Chest CG	Y	G's	1.3	104	6.9	86	6.8	73	9.3	90
Chest CG	Z	G's	6.5	47	7.0	89	7.5	54	8.0	102
Chest CG Resultant	N/A	G's	43.8	73			43.6	73		

FEMUR PEAK FORCES

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Left Femur	Z	Newtons	343	47	5561	59	172	158	2880	51
Right Femur	Z	Newtons	270	33	3913	60	126	173	4861	59

SEAT BELT SENSOR PEAK VALUES

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Lap Belt Force	N/A	Newtons	4371	58			5168	77		
Shoulder Belt Force	N/A	Newtons	4086	77			4162	76		

HEAD INJURY CRITERIA (HIC)

Location	Driver				Passenger			
	HIC	Avg G's	T^1	T^2	HIC	Avg G's	T^1	T^2
Head CG Primary	441	43.2	53.2	89.2	329	38.4	64.5	100.5

CHEST CLIP (3MSEC)

Location	Driver			Passenger		
	CLIP	T^1	T^2	CLIP	T^1	T^2
Chest CG Primary	43.4	71.8	74.9	41.9	70.9	74.0

DATA SHEET NO. 8...(continued)

HYBRID III ATD INJURY CRITERIA AND SENSOR DATA

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

PELVIC PEAK ACCELERATIONS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Pelvis	X	G's	2.3	127	64.2	58	3.3	109	62.1	59
Pelvis	Y	G's	9.6	88	17.3	61	12.9	59	5.9	85
Pelvis	Z	G's	3.8	179	27.5	74	2.3	144	32.0	73

UPPER NECK PEAK FORCES AND MOMENTS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Neck Force	X	Newtons	771	70	379	50	534	63	402	141
Neck Force	Y	Newtons	202	92	119	139	182	77	165	128
Neck Force	Z	Newtons	1363	62	341	102	910	66	124	104
Neck Moment	X	N•m	9.9	102	9.0	124	18.7	99	9.8	134
Neck Moment	Y	N•m	68.9	68	16.1	37	70.6	63	38.3	105
Neck Moment	Z	N•m	17.0	102	11.4	166	16.6	105	6.3	76

FOOT PEAK ACCELERATIONS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Left Foot Aft	X	G's	13.4	78	81.5	55	8.9	82	100.1	52
Left Foot Aft	Z	G's	15.5	68	49.9	59	16.3	71	48.3	53
Left Foot Fore	Z	G's	51.9	64	96.7	51	44.2	74	110.7	53
Right Foot Aft	X	G's	12.6	67	119.4	49	9.9	66	73.9	54
Right Foot Aft	Z	G's	17.0	69	101.3	49	16.9	74	45.8	58
Right Foot Fore	Z	G's	38.3	63	171.4	43	46.1	74	93.5	58

UPPER AND LOWER TIBIA PEAK FORCES AND MOMENTS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Left Lower Moment	X	N•m	40.9	63	12.1	49	23.3	95	73.5	55
Left Lower Moment	Y	N•m	69.1	68	46.7	50	56.0	64	64.6	53
Left Lower Force	Z	Newtons	4982	48	129	183	3995	54	123	179
Left Upper Moment	X	N•m	43.5	83	34.9	57	31.3	38	69.9	70
Left Upper Moment	Y	N•m	19.1	132	166.8	49	30.0	198	203.5	54
Left Upper Force	Z	Newtons	3660	48	86	167	3533	59	92	191
Right Lower Moment	X	N•m	72.0	65	36.7	56	6.2	48	44.4	62
Right Lower Moment	Y	N•m	56.5	74	59.7	53	44.1	63	50.1	54
Right Lower Force	Z	Newtons	3447	56	31	179	3448	83	80	188
Right Upper Moment	X	N•m	34.6	75	50.7	57	36.4	86	16.7	73
Right Upper Moment	Y	N•m	14.1	134	175.1	56	14.2	187	124.8	83
Right Upper Force	Z	Newtons	2995	56	83	177	2774	84	258	188

DATA SHEET NO. 8...(continued)

HYBRID III ATD INJURY CRITERIA AND SENSOR DATA

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

CHEST PEAK DISPLACEMENTS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Chest CG	X	mm			31.2	93			23.4	97

HEAD REDUNDANT PEAK ACCELERATIONS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Head CG	X	G's	7.9	180	50.8	72	6.2	196	45.0	77
Head CG	Y	G's	10.1	33	8.2	84	11.6	63	10.5	99
Head CG	Z	G's	15.9	62	11.7	93	23.8	63	3.7	105
Head CG Resultant	N/A	G's	51.8	72			47.2	77		

CHEST REDUNDANT PEAK ACCELERATIONS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Chest CG	X	G's	6.1	181	43.3	73	2.6	194	42.4	73
Chest CG	Y	G's	1.4	48	7.0	85	6.6	72	9.1	90
Chest CG	Z	G's	5.6	47	7.1	89	7.7	61	8.0	102
Chest CG Resultant	N/A	G's	43.9	73			43.2	73		

REDUNDANT HEAD INJURY CRITERIA (HIC)

Location	Driver				Passenger			
	HIC	Avg G's	T^1	T^2	HIC	Avg G's	T^1	T^2
Head CG Primary Redundant	419	42.3	53.0	89.0	317	37.8	64.5	100.5

REDUNDANT CHEST CLIP (3MSEC)

Location	Driver			Passenger		
	CLIP	T^1	T^2	CLIP	T^1	T^2
Chest CG Primary Redundant	43.2	71.9	75.0	41.3	70.9	74.0

DATA SHEET NO. 9

SEAT BELT PERFORMANCE ASSESSMENT TEST DATA

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

SEAT BELT PLACEMENT MEASUREMENTS

Measurement Description	Units	Driver	Passenger
TBI - Dummy centerline to shoulder bolt	mm	209	192
PBU - Top surface of reference to belt upper edge	mm	330	340
PBL - Top surface of reference to belt lower edge	mm	250	253

BELT LENGTH DATA

Measurement Description	Units	Driver	Passenger
Retractor reel to "D" ring	mm	566	575
Shoulder belt length as measured on ATD	mm	871	841
Lap belt length as measured on ATD	mm	862	824
Total belt length for continuous webbing systems	mm	2299	2240

SHOULDER BELT SPOOL-OUT DATA

Measurement Description	Units	Driver	Passenger
As determined mechanically	mm	**	**
As determined electronically	mm	**	**

** Not recorded at vehicle manufacturer's request

DATA SHEET NO. 10

SUMMARY OF FMVSS 212 DATA

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

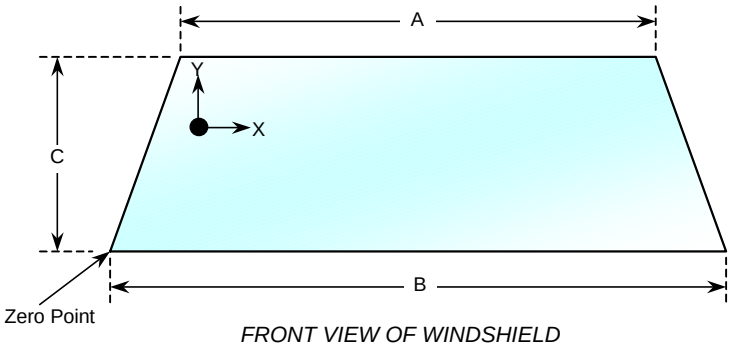
Windshield Mounting Details:
Windshield glass is secured to the vehicle frame with rubber trim and glue.

The standard requires that the post-test retention measurement be a minimum of 75 percent of the pretest total periphery measurement for vehicles not equipped with occupant passive restraints and 50 percent for each side of the windshield for vehicles, which are equipped with occupant passive restraints.

Temperature of windshield molding during test: 21 °C

WINDSHIELD PERIPHERY MEASUREMENTS

Measurement	Pre-Test (mm)	Post-Test (mm)	% of Retention
Left Side	2214	2214	100
Right Side	2214	2214	100
Total	4428	4428	100



FRONT VIEW OF WINDSHIELD

WINDSHIELD DIMENSIONS

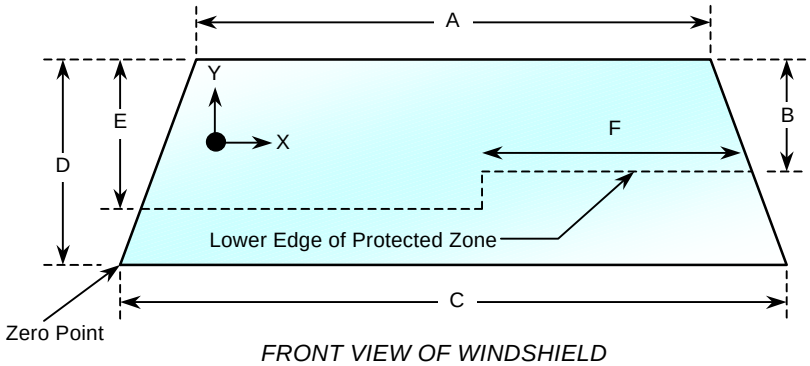
Item	Units	Segment Length	Molding Width
A	mm	1200	11
B	mm	1674	20
C	mm	777	n/a

DATA SHEET NO. 11

WINDSHIELD ZONE INTRUSION FMVSS 219 (Partial) DATA

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001



FRONT VIEW OF WINDSHIELD

Item	Units	Value
A	mm	1200
B	mm	387
C	mm	1674
D	mm	777
E	mm	490
F	mm	501

AREA OF PROTECTED ZONE FAILURES - NONE

A. Provide coordinates of the area that the protected zone was penetrated more than 0.25 inches by a vehicle component other than one that is normally in contact with the windshield.

X	Y

B. Provide coordinates of the area beneath the protected zone that the inner surface of the windshield was penetrated by a vehicle component.

X	Y

DATA SHEET NO. 12

FMVSS 301 FUEL SYSTEM INTEGRITY POST IMPACT DATA

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

Test Time: 4:24 p.m. Temperature at Time of Impact: 21 °C

Stoddard Solvent Spillage Measurements

A. From impact until vehicle motion ceases: 0 oz.
(Maximum Allowable = 1 ounce)

B. For the 5 minute period after motion ceases: 0 oz.
(Maximum Allowable = 5 ounces)

C. For the following 25 minutes: 0 oz.
(Maximum Allowable = 1 oz./minute)

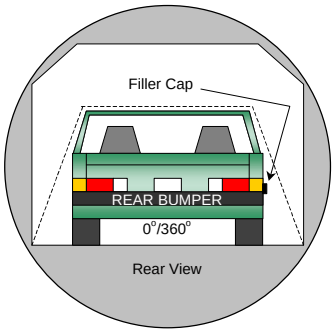
D. Spillage Details: None

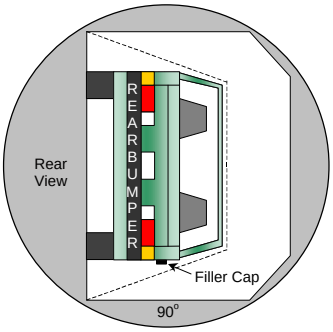
DATA SHEET NO. 13

FMVSS 301 STATIC ROLLOVER DATA

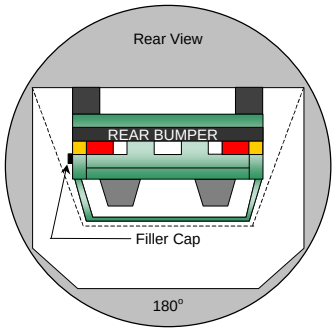
Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

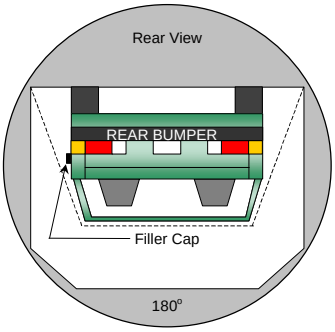




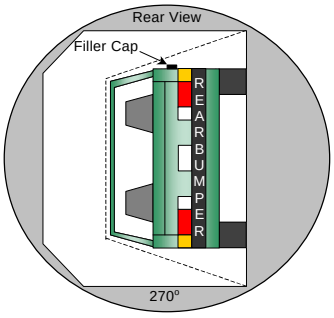
0° TO 90°



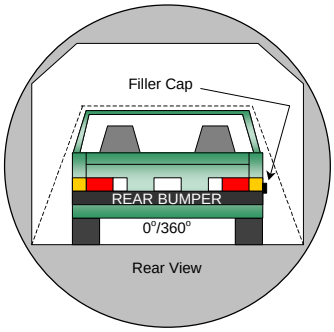
90° TO 180°



180° TO 270°



270° TO 360°



1. The specified fixture rollover rate for each 90° of rotation is 60 to 180 seconds.
2. The position hold time at each position is 300 seconds (minimum).
3. Details of Stoddard Solvent spillage locations:

Test Phase	Rotation Time (sec.)	Hold Time (sec.)	Spillage (oz.)
0° TO 90°	162	300	0
90° TO 180°	145	300	0
180° TO 270°	149	300	0
270° TO 360°	167	300	0

DATA SHEET NO. 14

VEHICLE MEASUREMENTS

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

No.	Measurement Description	Units	Pre-Test	Post-Test	Difference
1	Total length of vehicle at centerline	mm	4559	4020	539
2	RSOV to front of engine	mm	3752	3725	27
3	RSOV to firewall centerline	mm	3549	3539	10
4	RSOV to leading edge of right door	mm	3062	3036	26
5	RSOV to leading edge of left door	mm	3060	3036	24
6	RSOV to lower leading edge of right door	mm	3073	3045	28
7	RSOV to lower leading edge of left door	mm	3058	3045	13
8	RSOV to upper leading edge of right door	mm	1955	1940	15
9	RSOV to upper leading edge of left door	mm	1949	1941	8
10	RSOV to lower trailing edge of right door	mm	1974	1952	22
11	RSOV to lower trailing edge of left door	mm	1969	1954	15
12	RSOV to bottom of right 'A' pillar	mm	3027	3009	18
13	RSOV to bottom of left 'A' pillar	mm	3019	3009	10
14	RSOV to firewall on right side	mm	3490	3449	41
15	RSOV to firewall on left side	mm	3481	3453	28
16	RSOV to steering column	mm	2599	2549	50
17	Center of steering column to left 'A' pillar	mm	458	234	224
18	Center of steering column to headlining	mm	412	355	57
19	RSOV to right side of front bumper	mm	4325	3910	415
20	RSOV to left side of front bumper	mm	4328	3945	383
21	Length of engine block	mm	477	477	0
RD	RSOV to right side of dash panel	mm	2787	2731	56
CD	RSOV to center of dash panel	mm	2820	2756	64
LD	RSOV to left side of dash panel	mm	2796	2775	21

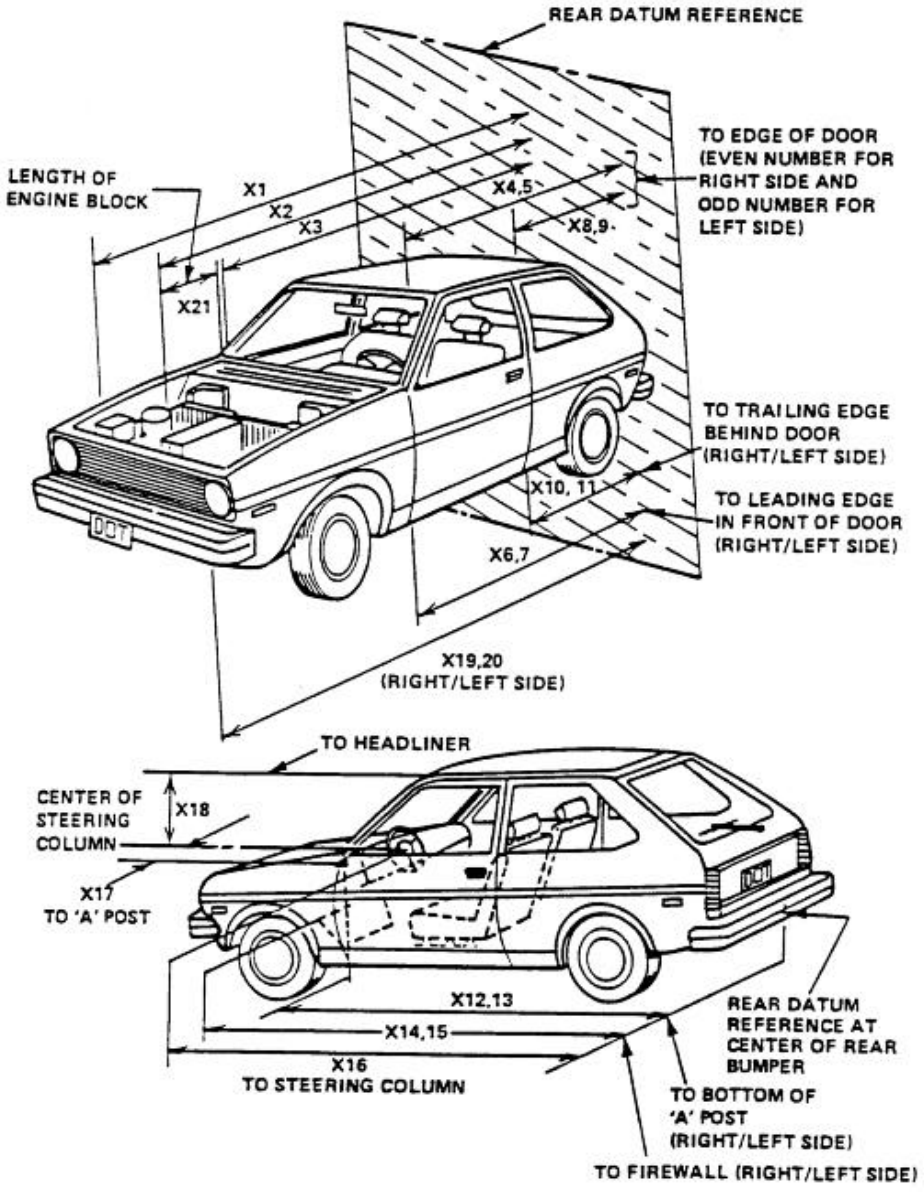
RSOV = Rear Surface of Vehicle

DATA SHEET NO. 14 . . .(continued)

VEHICLE MEASUREMENTS

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001



DATA SHEET NO. 15

CAMERA LOCATIONS

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

No.	Camera View	Location (mm) *			Lens (mm)	Speed (fps)
		X	Y	Z		
1	Real-Time Left Side View				18	32
2	Left Front View	1000	-8260	1440	25	1015
3	Steering Column Top	2000	-7300	1560	25	1010
4	Steering Column Bottom	2000	-7300	1030	15	952
5	Driver Close-up	1500	-10000	1320	75	1000
6	Driver Angle	4770	-5000	2030	50	1111
7	Onboard Driver				13	503
8	Onboard Passenger				13	514
9	Right Overall	2000	7000	1760	13	1015
10	Right Passenger Half	1000	8000	14	25	1010
11	Right Close-up	1570	10170	1310	75	1124
12	Right Angle	4800	3750	2120	50	**
13	Windshield	-450	0	2710	13	1000
14	Top Driver	70	-440	1780	13	1020
15	Top Passenger	80	400	1770	13	1026
16	Pit Front	1100	0	-3200	13	1005
17	Pit Rear	2980	0	-3200	13	1026

*COORDINATES:

+X = film plane rearward of barrier

+Y = film plane to right of monorail centerline

+Z = film plane to above ground level

ORIGIN: For X and Y it is the Impact Point. For Z it is the Floor.

** No timing marks

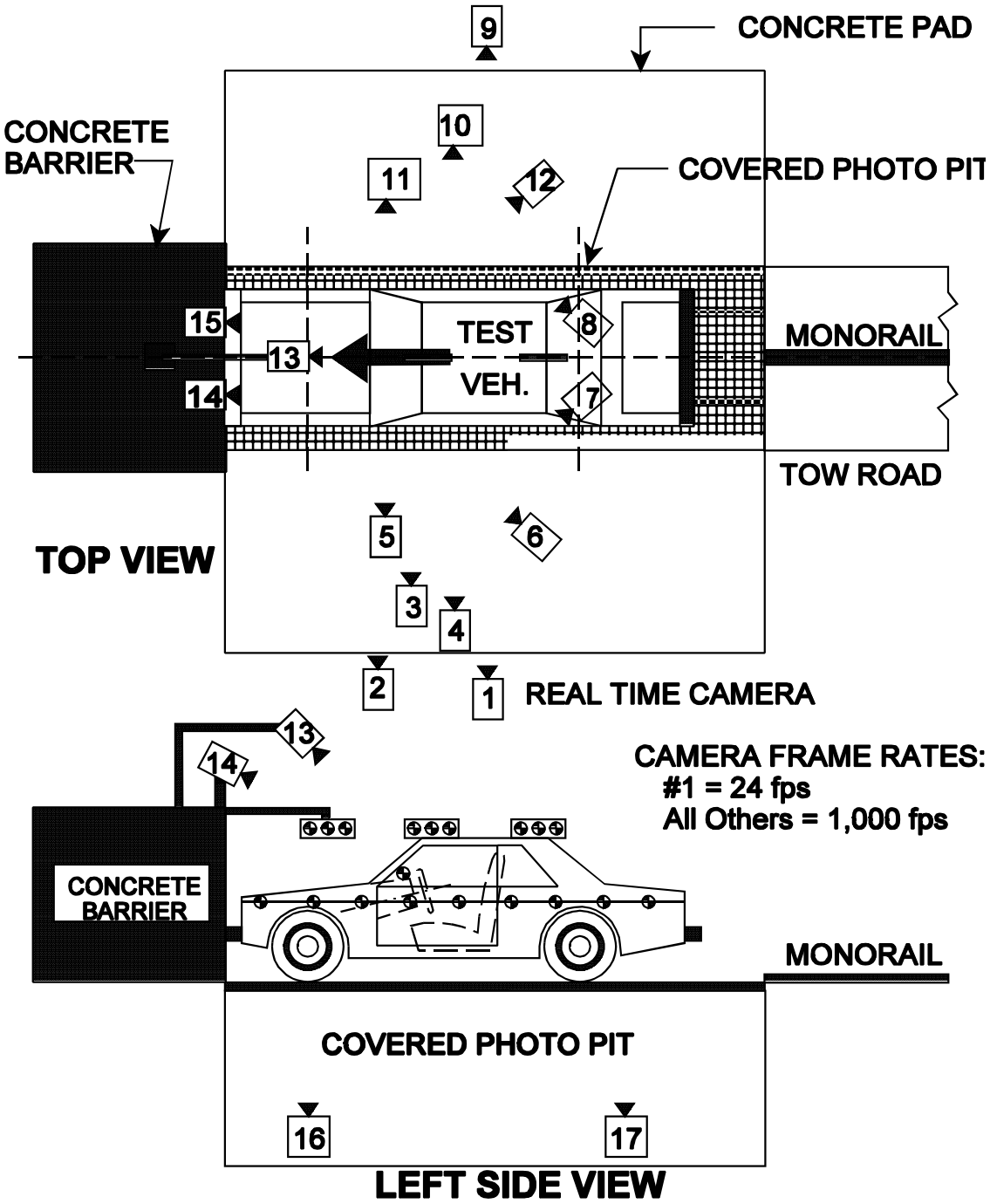
DATA SHEET NO. 15...(continued)

CAMERA LOCATIONS

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

CAMERA POSITIONS FOR FRONTAL IMPACTS



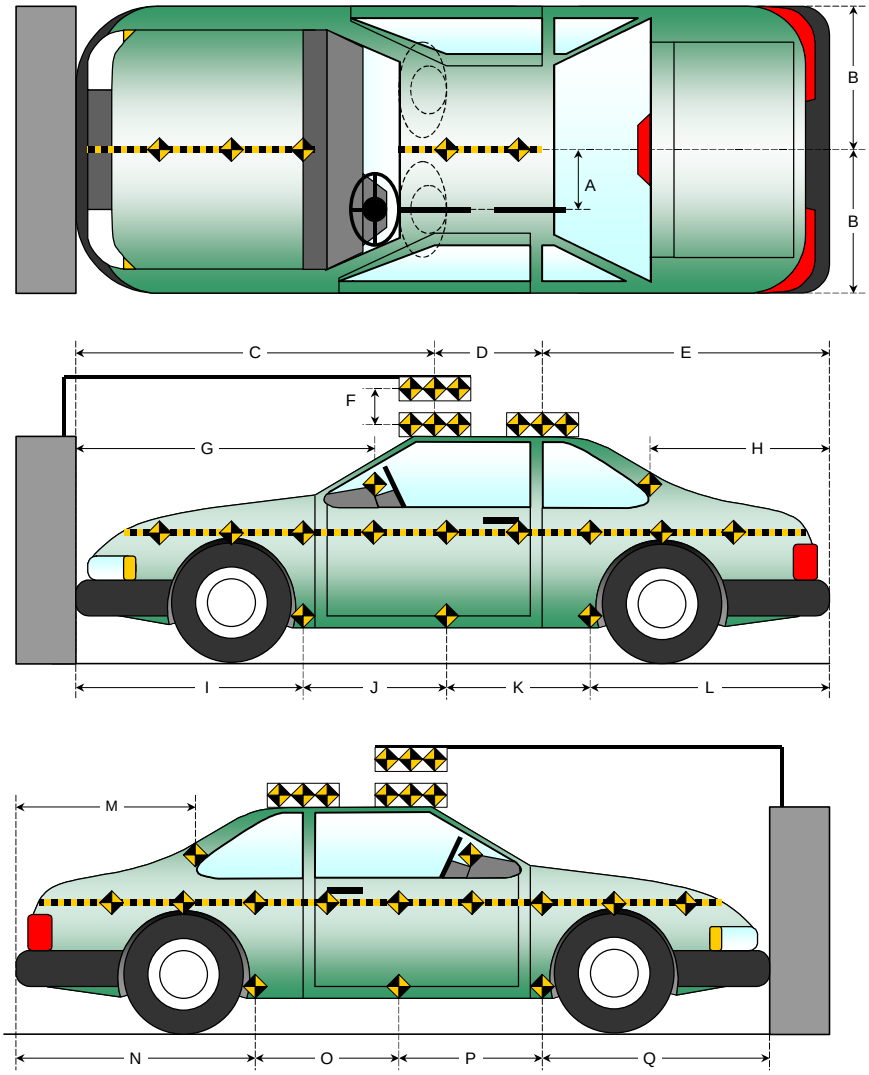
DATA SHEET NO. 16

PHOTOGRAPHIC REFERENCE TARGET LOCATIONS

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

Item	Value
A	338
B	895
C	2221
D	610
E	1728
F	318
G	1762
H	1050
I	1526
J	893
K	892
L	1248
M	818
N	1251
O	889
P	889
Q	1530



DATA SHEET NO. 17

VEHICLE INTRUSION MEASUREMENTS

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

DOOR OPENING WIDTH

Item	Description	Units	Pre-Test	Post-Test	Difference
A	Left Side Upper	mm	1045	1044	1
B	Left Side Lower	mm	934	935	-1
D	Right Side Upper	mm	1052	1042	10
E	Right Side Lower	mm	934	930	4

WHEELBASE MEASUREMENTS

Item	Description	Units	Pre-Test	Post-Test	Difference
C	Left Side Wheelbase	mm	2744	2620	124
F	Right Side Wheelbase	mm	2742	2642	100

DATA SHEET NO. 17...(continued)

VEHICLE INTRUSION MEASUREMENTS

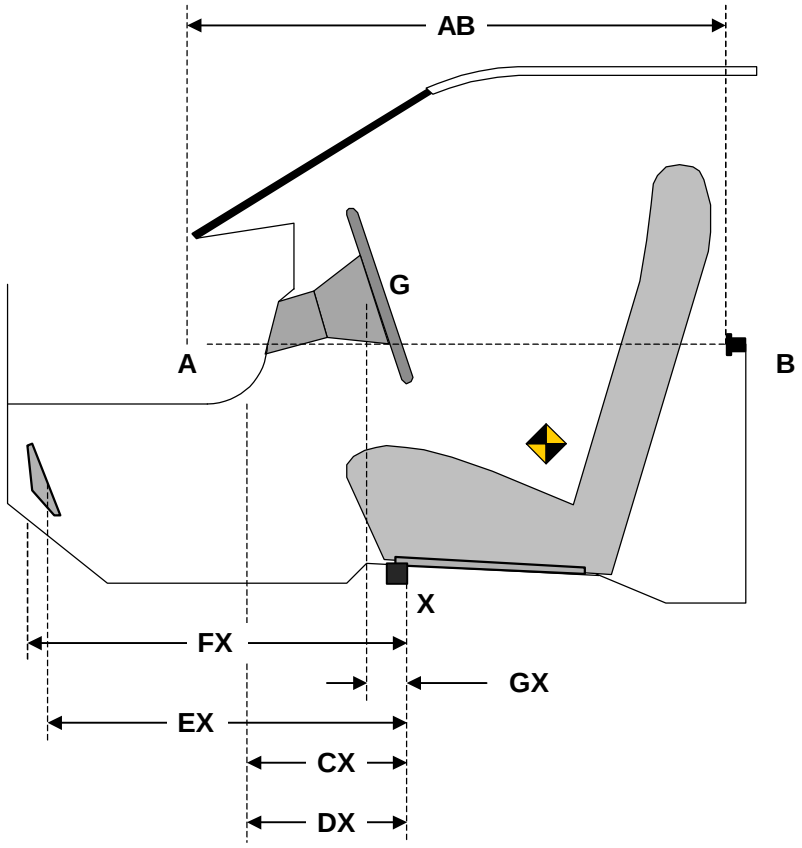
Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

DRIVER COMPARTMENT INTRUSION

Item	Description	Units	Pre-Test	Post-Test	Difference
AB	Door Opening (Inside window jam)	mm	1045	1044	1
CX	Left Knee Bolster to X	mm	368	359	9
DX	Right Knee Bolster to X	mm	364	370	-6
EX	Brake Pedal to X	mm	595	503	92
FX	Foot Rest to X	mm	606	593	13
GX	Center of Steering Column Wheel Hub to X	mm	51	75	-24

X = Left Front Seat Front Outboard Anchor Bolt Head



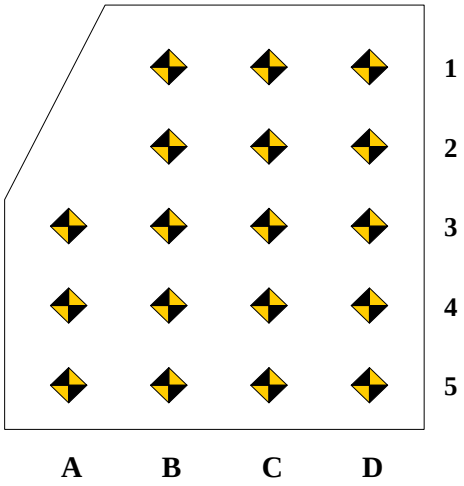
DRIVER COMPARTMENT

DATA SHEET NO. 17...(continued)

VEHICLE INTRUSION MEASUREMENTS

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001



Measurement reference point for X and Z axis is the forward outboard seat mounting bolt.

Columns A through D are evenly spaced.

Rows 1 and 2 are on the toe kick portion of the floor pan. Rows 3, 4, and 5 are located on the most level portion of the floor pan.

Row 3 will be at the intersection of the toe kick and the level sections of the floor pan.

DRIVER FLOOR PAN X-AXIS

	Pre-Test				Post-Test				Difference			
	A	B	C	D	A	B	C	D	A	B	C	D
1	N/A	804	795	796	N/A	709	679	710	N/A	95	116	86
2	N/A	685	677	671	N/A	636	611	625	N/A	49	66	46
3	552	551	545	540	548	539	515	514	4	12	30	26
4	309	310	305	301	307	309	300	304	2	1	5	-3
5	69	69	68	69	69	69	68	68	0	0	0	1

DRIVER FLOOR PAN Z-AXIS

	Pre-Test				Post-Test				Difference			
	A	B	C	D	A	B	C	D	A	B	C	D
1	N/A	137	139	110	N/A	198	209	217	N/A	61	70	117
2	N/A	25	14	6	N/A	101	86	85	N/A	76	72	79
3	-35	-46	-45	-73	-10	-19	-17	-47	20	27	28	26
4	-27	-51	-44	-46	-21	-69	-100	-53	6	18	56	13
5	-42	-54	-63	-56	-28	-52	-70	-56	14	2	-7	0

DATA SHEET NO. 17...(continued)

VEHICLE INTRUSION MEASUREMENTS

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

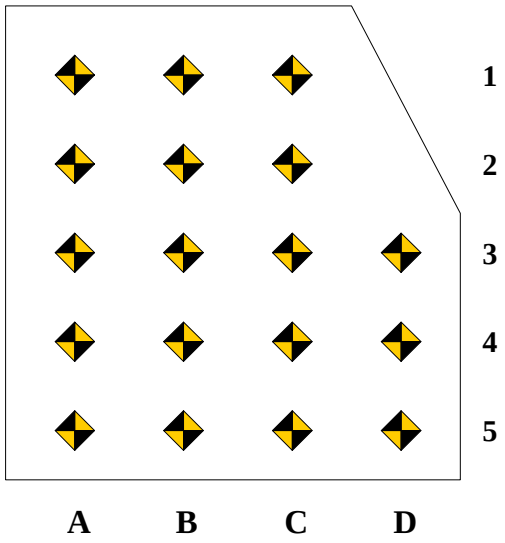
Test Program: NCAP Test Date: January 18, 2001

Measurement reference point for X and Z axis is the forward outboard seat mounting bolt.

Columns A through D are evenly spaced.

Rows 1 and 2 are on the toe kick portion of the floor pan. Rows 3, 4, and 5 are located on the most level portion of the floor pan.

Row 3 will be at the intersection of the toe kick and the level sections of the floor pan.



PASSENGER FLOOR PAN X-AXIS

	Pre-Test				Post-Test				Difference			
	A	B	C	D	A	B	C	D	A	B	C	D
1	754	745	742	N/A	686	672	677	N/A	68	73	67	N/A
2	642	634	634	N/A	597	584	607	N/A	45	50	26	N/A
3	500	497	499	497	494	487	494	498	6	10	5	-1
4	294	296	296	291	289	291	297	291	5	5	-1	0
5	89	90	90	91	89	91	90	91	0	-1	0	1

PASSENGER FLOOR PAN Z-AXIS

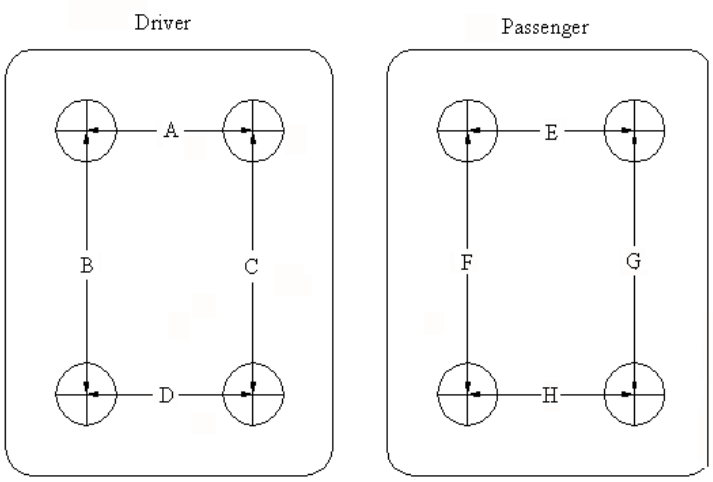
	Pre-Test				Post-Test				Difference			
	A	B	C	D	A	B	C	D	A	B	C	D
1	86	71	76	N/A	137	150	146	N/A	51	79	70	N/A
2	3	-5	-4	N/A	36	45	35	N/A	33	50	39	N/A
3	-47	-52	-52	-25	-55	-65	-58	-12	-8	-13	-6	13
4	-48	-52	-50	-32	-75	-80	-59	-24	-27	-28	-9	8
5	-53	-56	-54	-40	-57	-54	-53	-33	-4	2	1	7

DATA SHEET NO. 17...(continued)

VEHICLE INTRUSION MEASUREMENTS

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001



UNDERBODY FLOORBOARD DEFORMATION

MEASUREMENT	PRE TEST	POST TEST	DIFFERENCE
A	363	371	-8
B	293	290	3
C	299	283	16
D	421	410	11
E	317	324	-7
F	308	314	-6
G	281	285	-4
H	423	420	3

DATA SHEET NO. 18

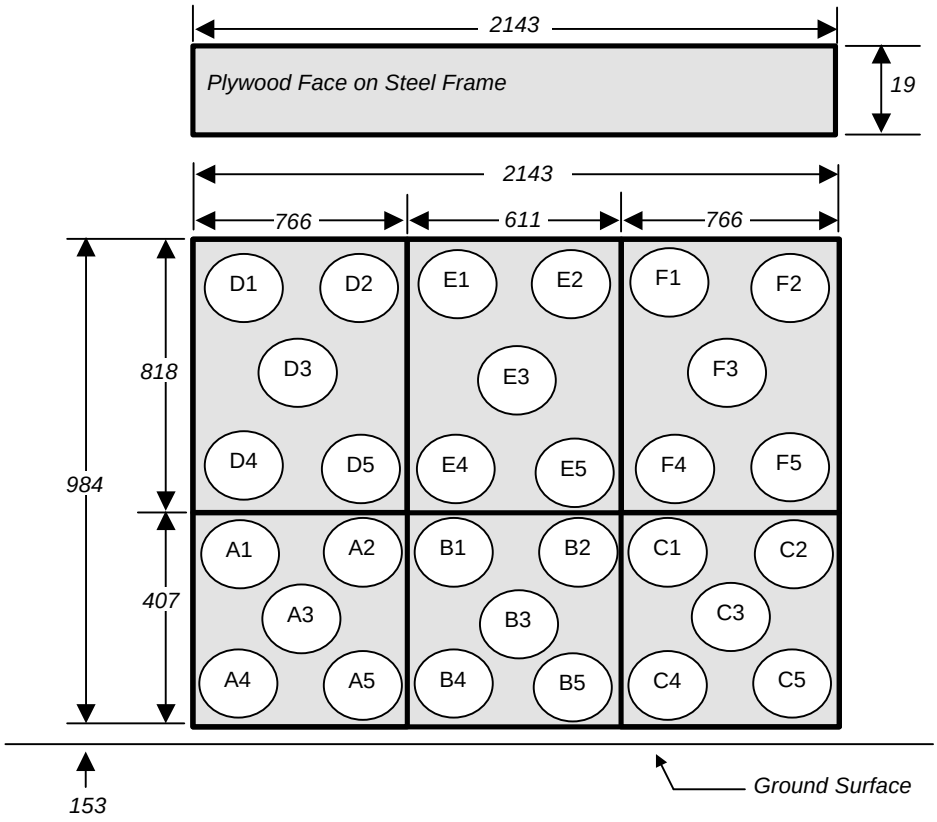
LOAD CELL LOCATIONS ON FIXED BARRIER

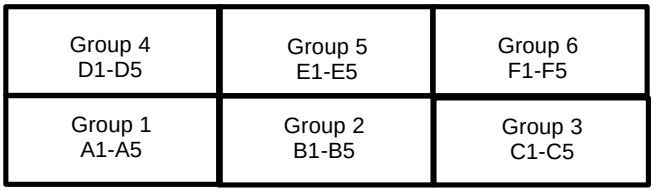
Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

30 Load Cell Rigid Barrier

Load Cell Locations on Fixed Barrier





6 Groups of 5 Load Cells Each

The Data is presented in Appendix C with the following requirements:

1. Data from 30 individual load cells
2. Sum data from 6 groupings shown above (5 cells/group)
3. Total or sum of all 30 individual load cells

DATA SHEET NO. 19

ACCIDENT INVESTIGATION DIVISION DATA

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

VEHICLE INFORMATION

VIN: 1B3EJ46X91N536935 Wheelbase (mm): 2742

Vehicle Size Category: Mid size Test Weight (kg): 1663.8

ACCELEROMETER DATA

Accelerometer Locations: As per measurements on page 13

Cal. Procedure/Interval: MGA procedure / 6 month

Integration Algorithm: Trapezoidal Linearity: >99.9%

Impact Velocity (km/h): 56.3

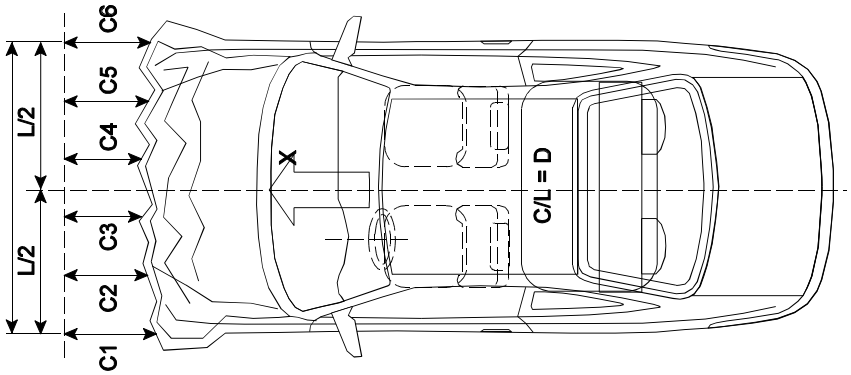
Velocity Change (km/h): 64.1 Time of Separation (msec): 156

CRUSH PROFILE

Collision Deformation Classification: Frontal Midpoint of Damage: Vehicle C/L

Damage Region Length (mm): 1150 Impact Mode: Frontal

No.	Measurement Description	Units	Pre-Test	Post-Test	Difference
C1	Crush zone 1 at left side	mm	4328	3945	383
C2	Crush zone 2 at left side	mm	4451	4056	395
C3	Crush zone 3 at left side	mm	4535	4017	518
C4	Crush zone 4 at right side	mm	4535	3998	537
C5	Crush zone 5 at right side	mm	4451	4010	441
C6	Crush zone 6 at right side	mm	4325	3910	415

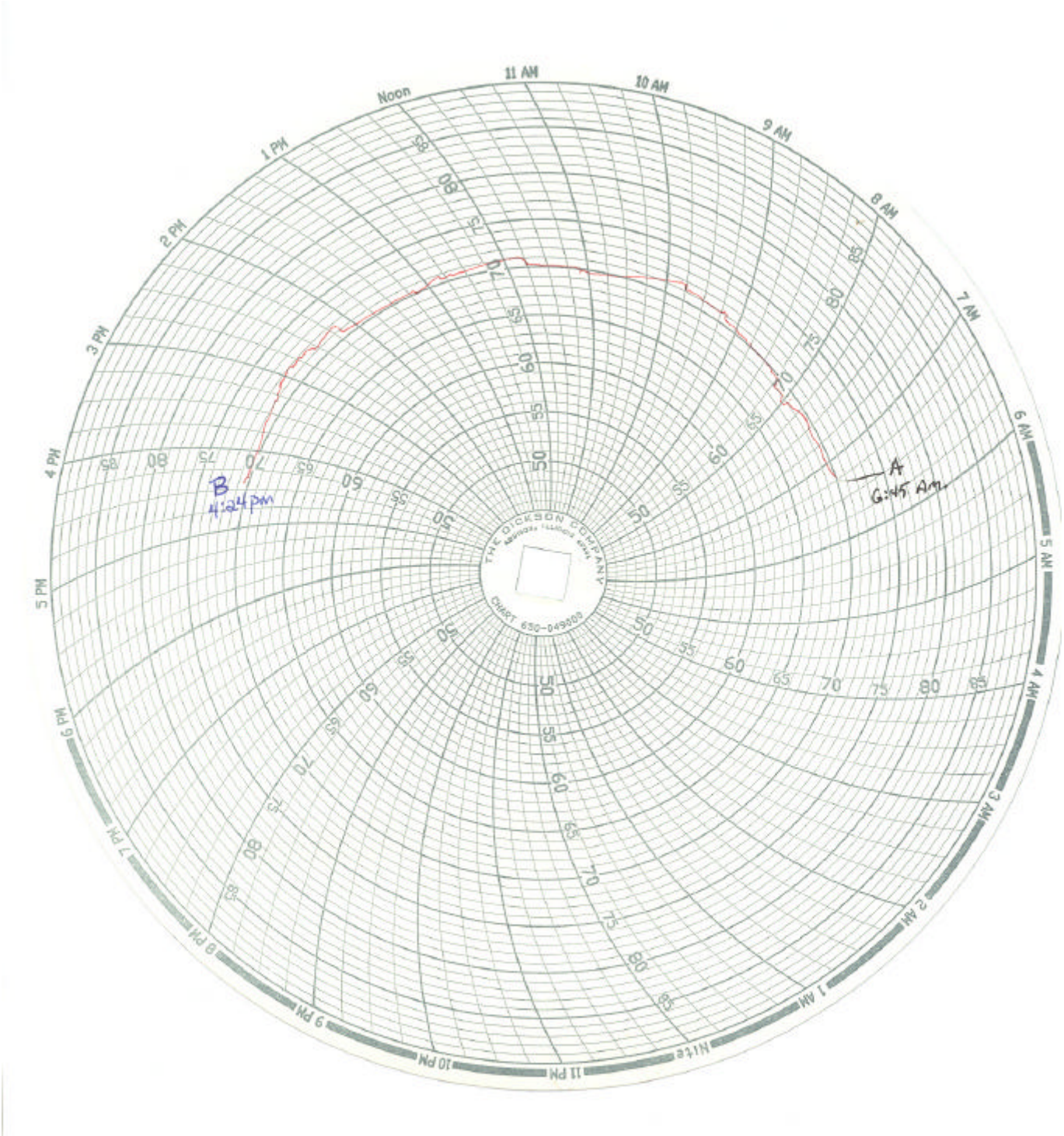


DATA SHEET NO. 20

DUMMY / VEHICLE TEMPERATURE STABILIZATION CHART

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001



A = Dummies installed in vehicle at 6:45 a.m.

B = Test conducted at 4:24 p.m.

APPENDIX A

PHOTOGRAPHS

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

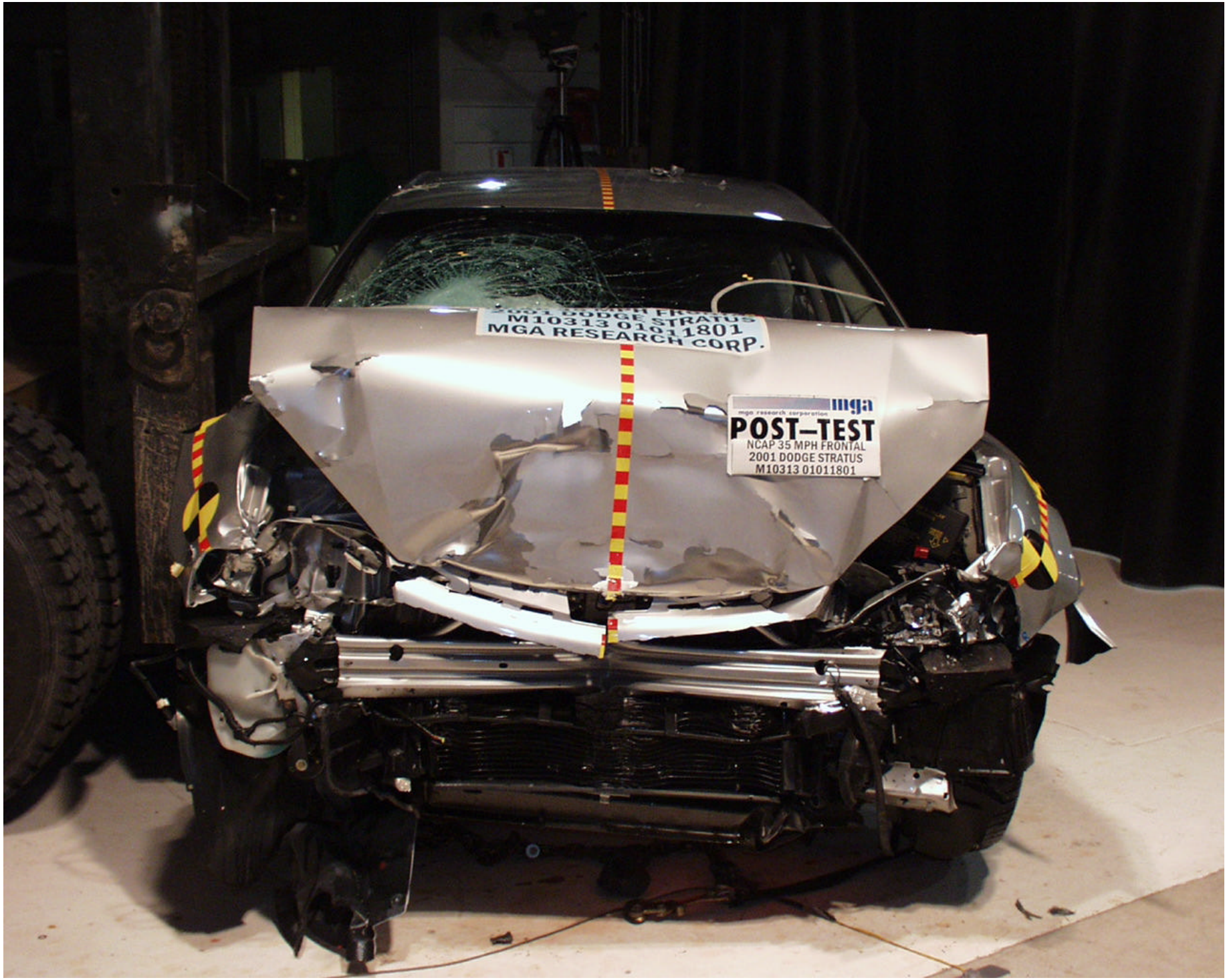


Photo No. A-2 - Post-Test Front View of Test Vehicle



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

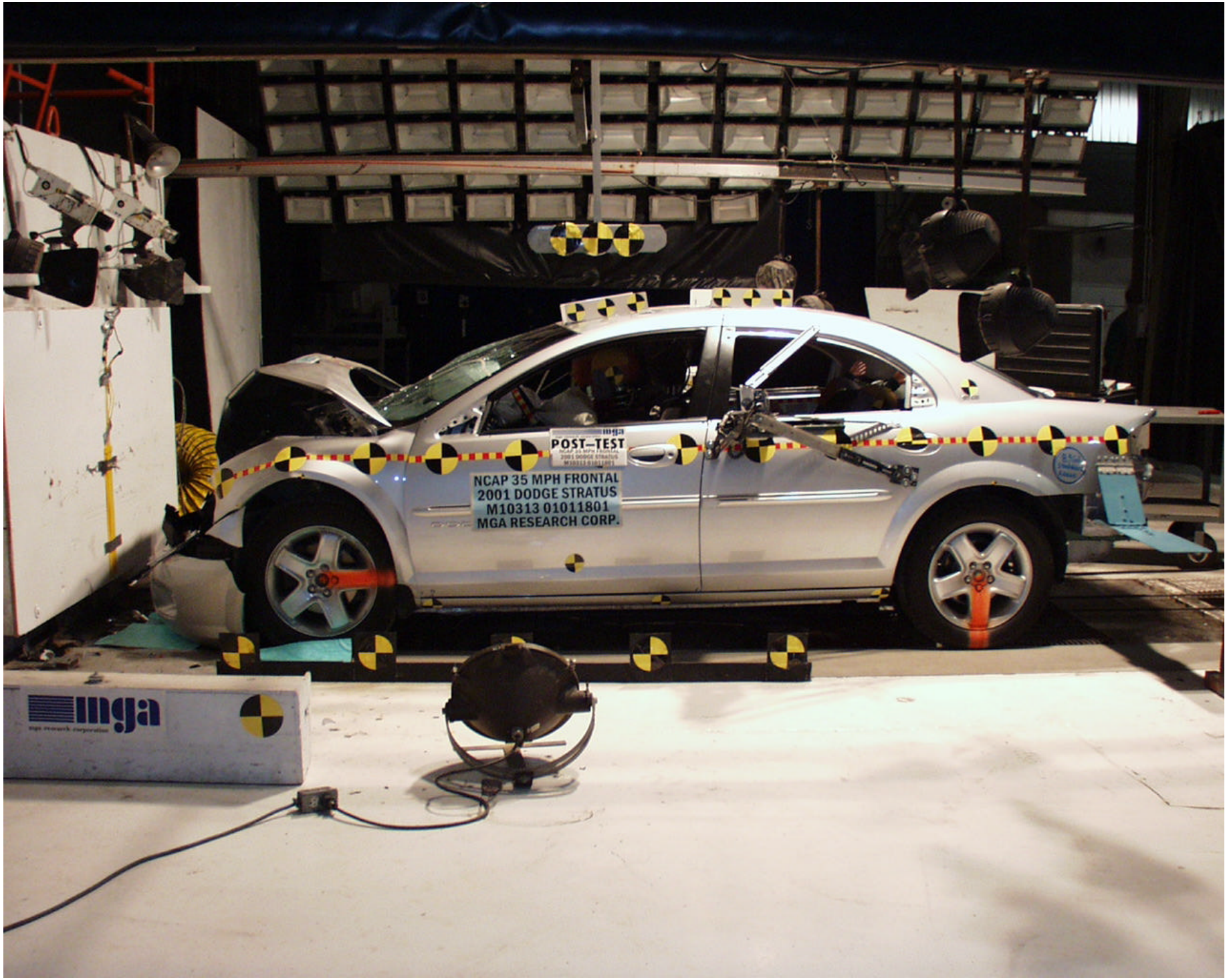


Photo No. A-6 - Post-Test Left Side View of Test Vehicle



Photo No. A-7 - Pre-Test Left Rear Three-Quarter View of Test Vehicle

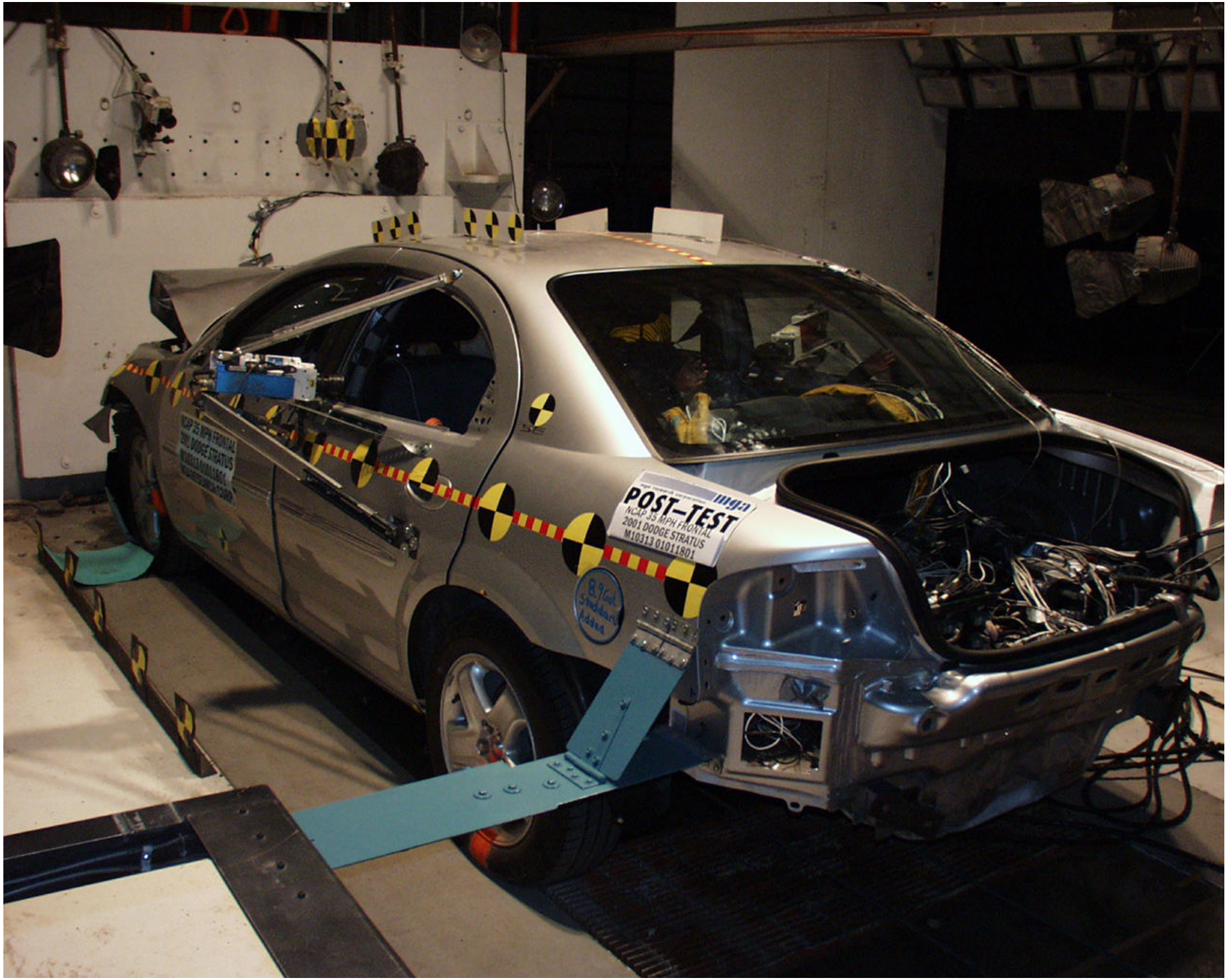


Photo No. A-8 - Post-Test Left Rear Three-Quarter View of Test Vehicle



Photo No. A-9 - Pre-Test Right Side View of Test Vehicle

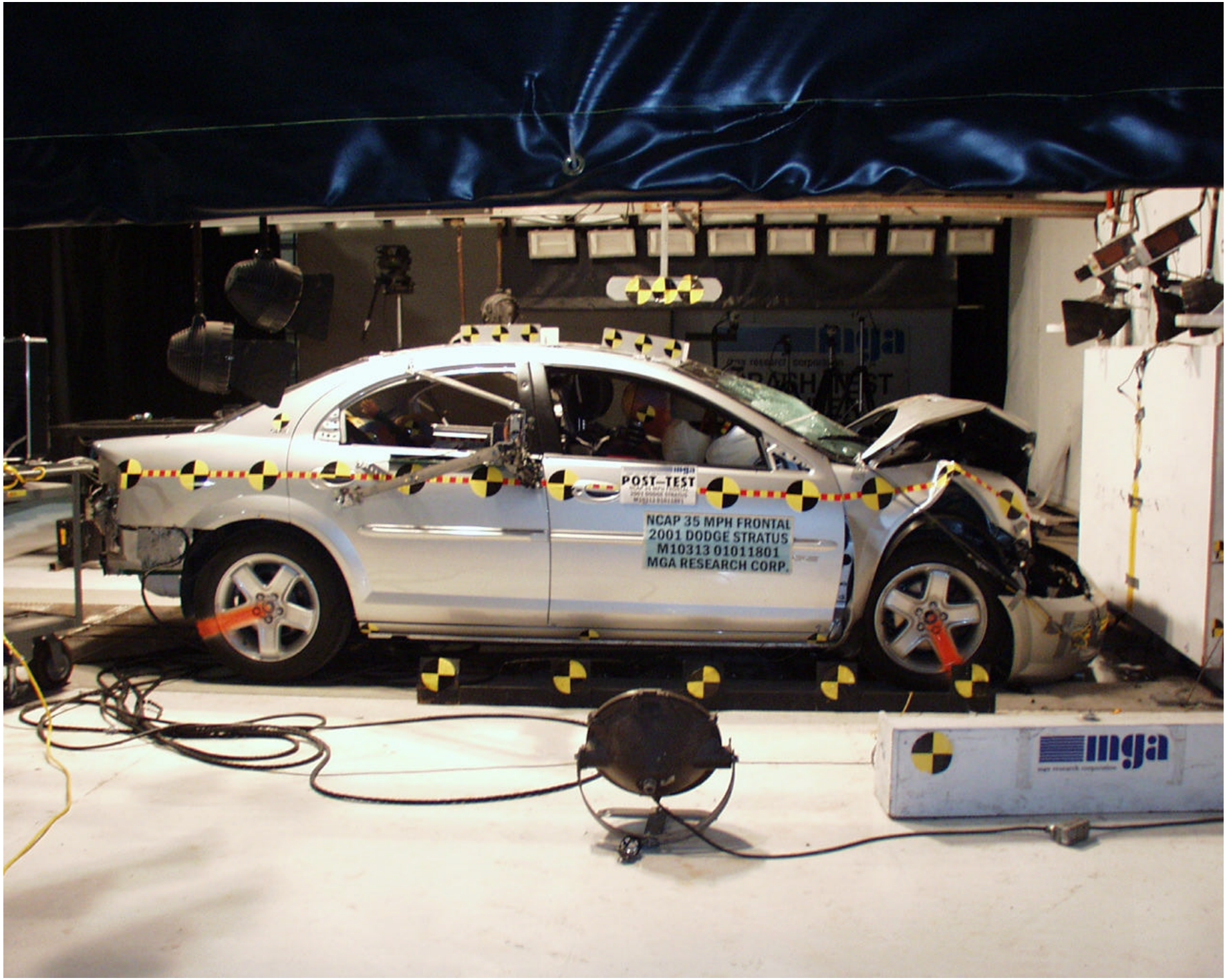


Photo No. A-10 - Post-Test Right Side View of Test Vehicle



Photo No. A-11 - Pre-Test Right Front Three-Quarter View of Test Vehicle

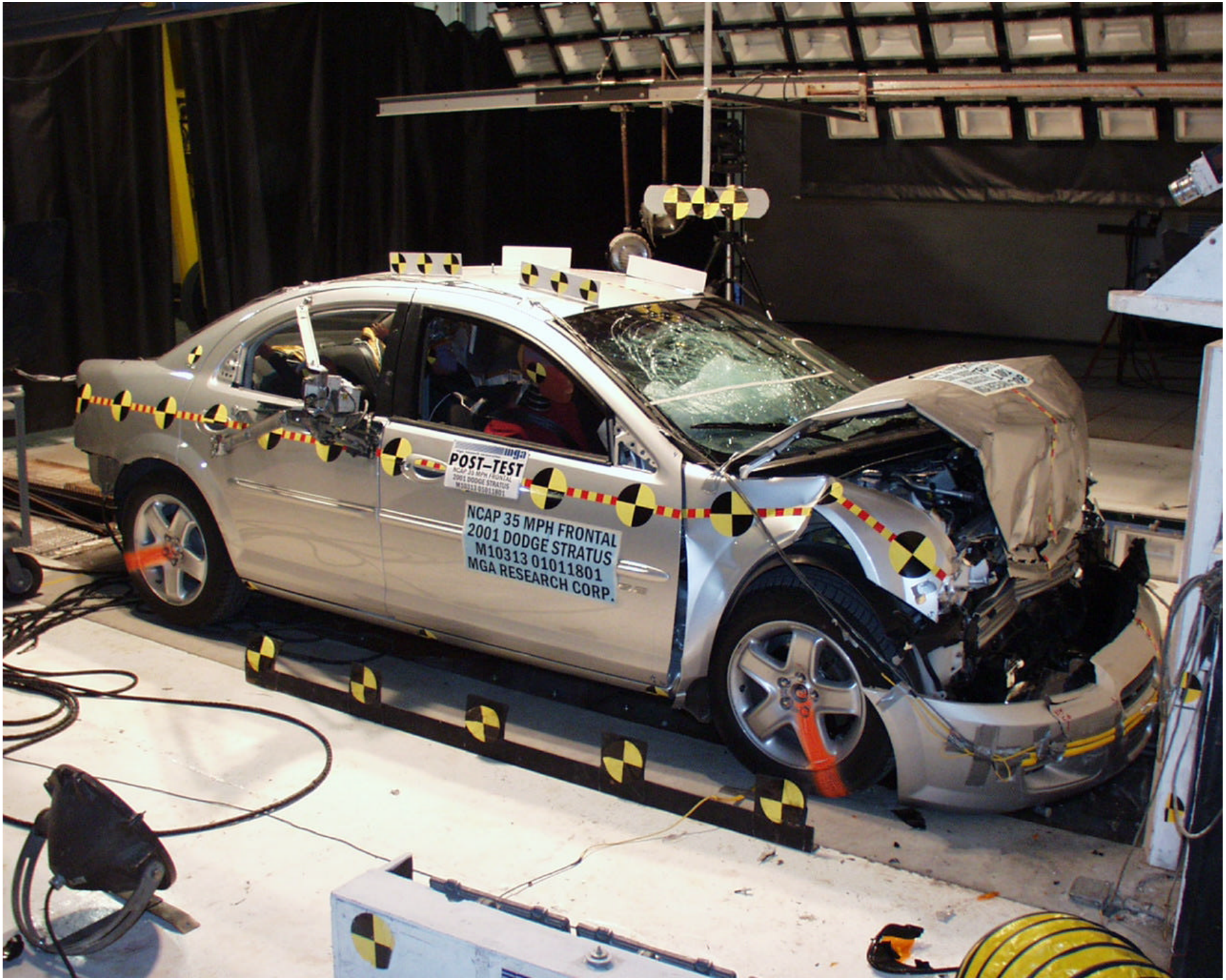


Photo No. A-12 - Post-Test Right Front Three-Quarter View of Test Vehicle



Photo No. A-13 - Pre-Test Fuel Filler Cap View



Photo No. A-14 - Pre-Test Engine Compartment View

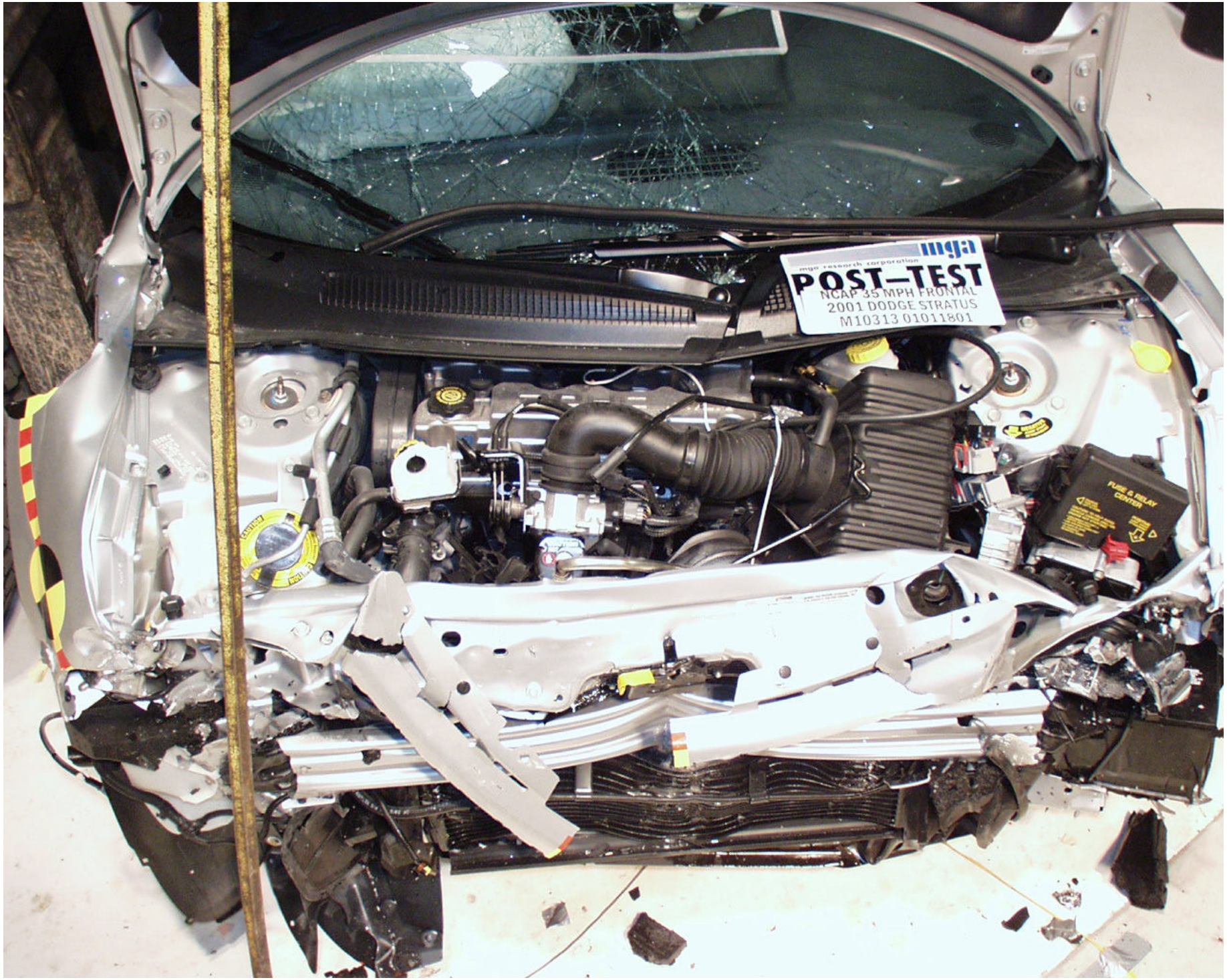


Photo No. A-15 - Post-Test Engine Compartment View



Photo No. A-16 - Pre-Test Front Underbody View

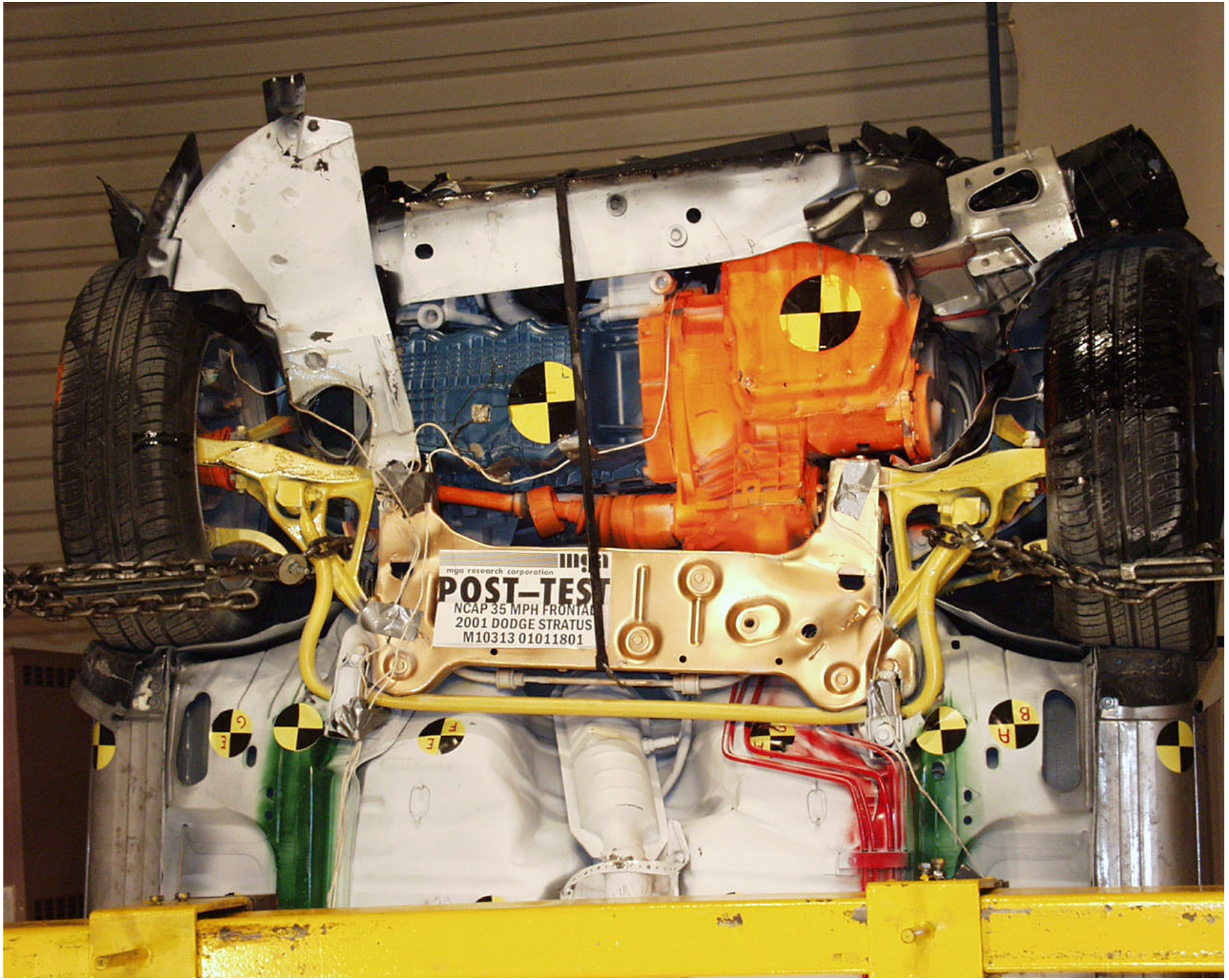


Photo No. A-17 - Post-Test Front Underbody View

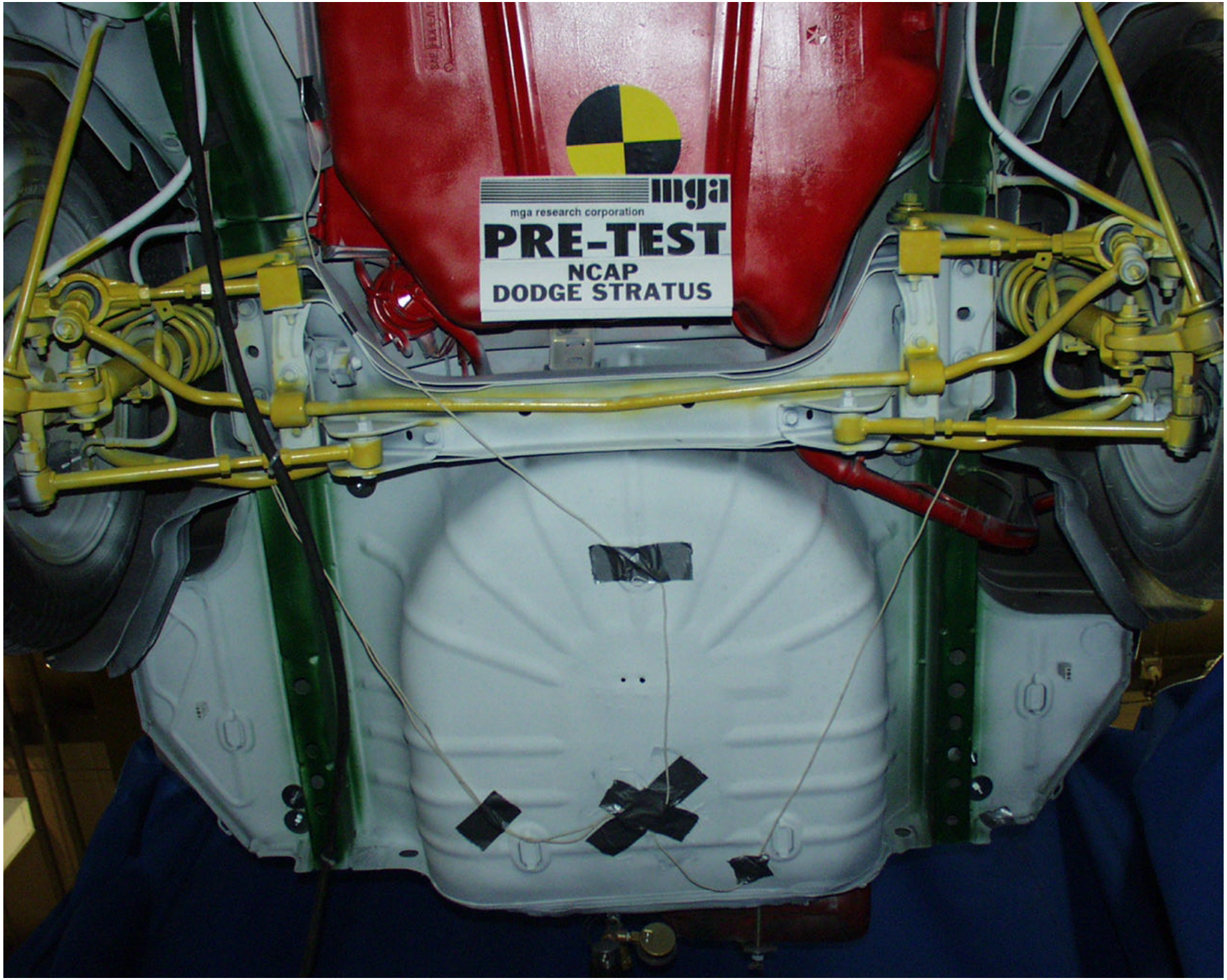


Photo No. A-18 - Pre-Test Rear Underbody View

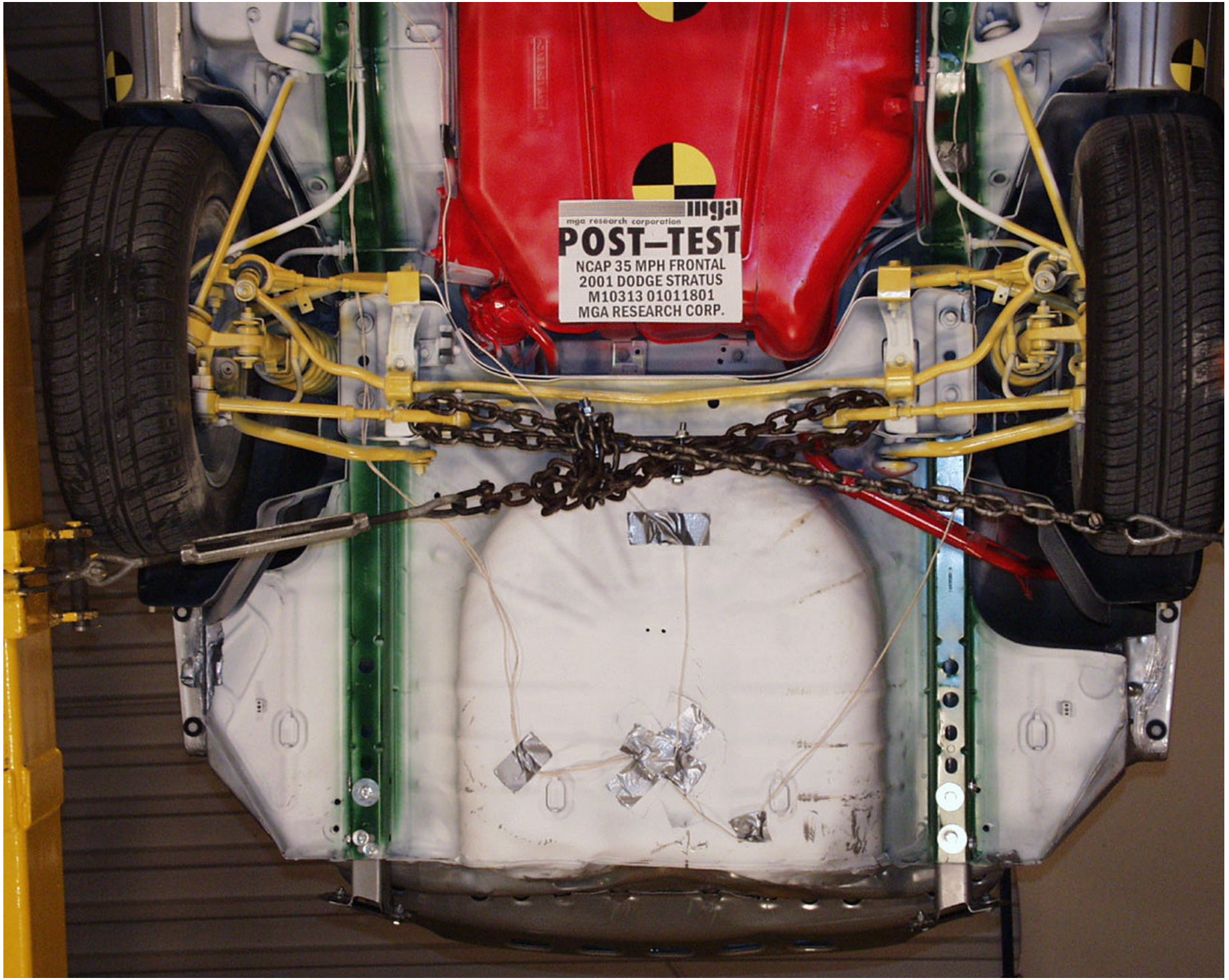


Photo No. A-19 - Post-Test Rear Underbody View



Photo No. A-20 - Pre-Test Windshield View



Photo No. A-21 - Post-Test Windshield View



Photo No. A-22 - Pre-Test Driver Dummy Position Left Side View



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



Photo No. A-24 - Pre-Test Driver Dummy Position Left Side View (Door Open)



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



Photo No. A-26 - Pre-Test Driver Seat Position View



Photo No. A-27 - Post-Test Driver Seat Position View



Photo No. A-28 - Pre-Test Driver Dummy Knee Position



Photo No. A-29 - Post-Test Driver Dummy Knee Position



Photo No. A-30 - Post-Test Driver Airbag Contact

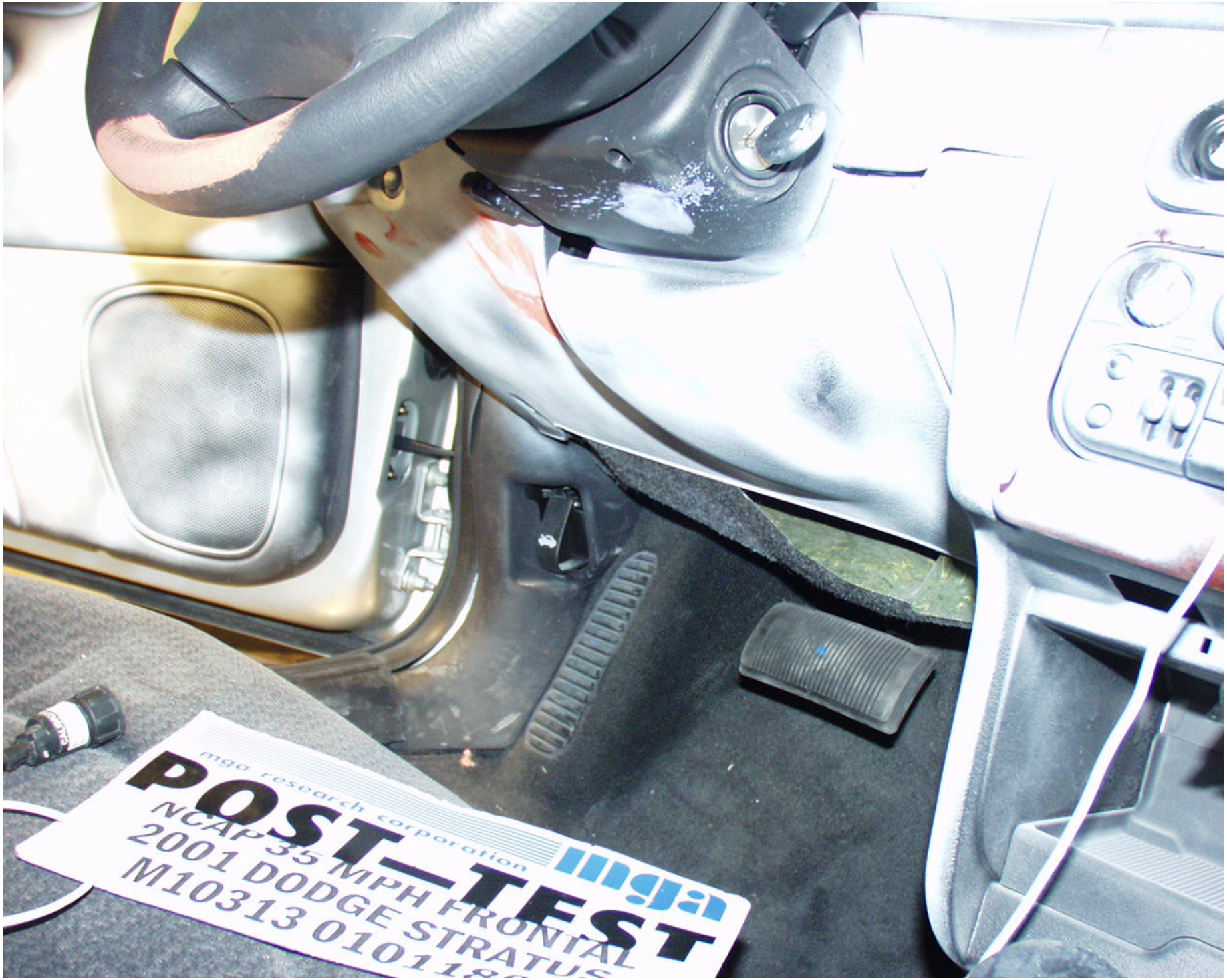


Photo No. A-31 - Post-Test Driver Knee Contact View



Photo No. A-32 - Post-Test Driver Knee Contact View



Photo No. A-33 - Post-Test Driver Head Contact View (headrest)

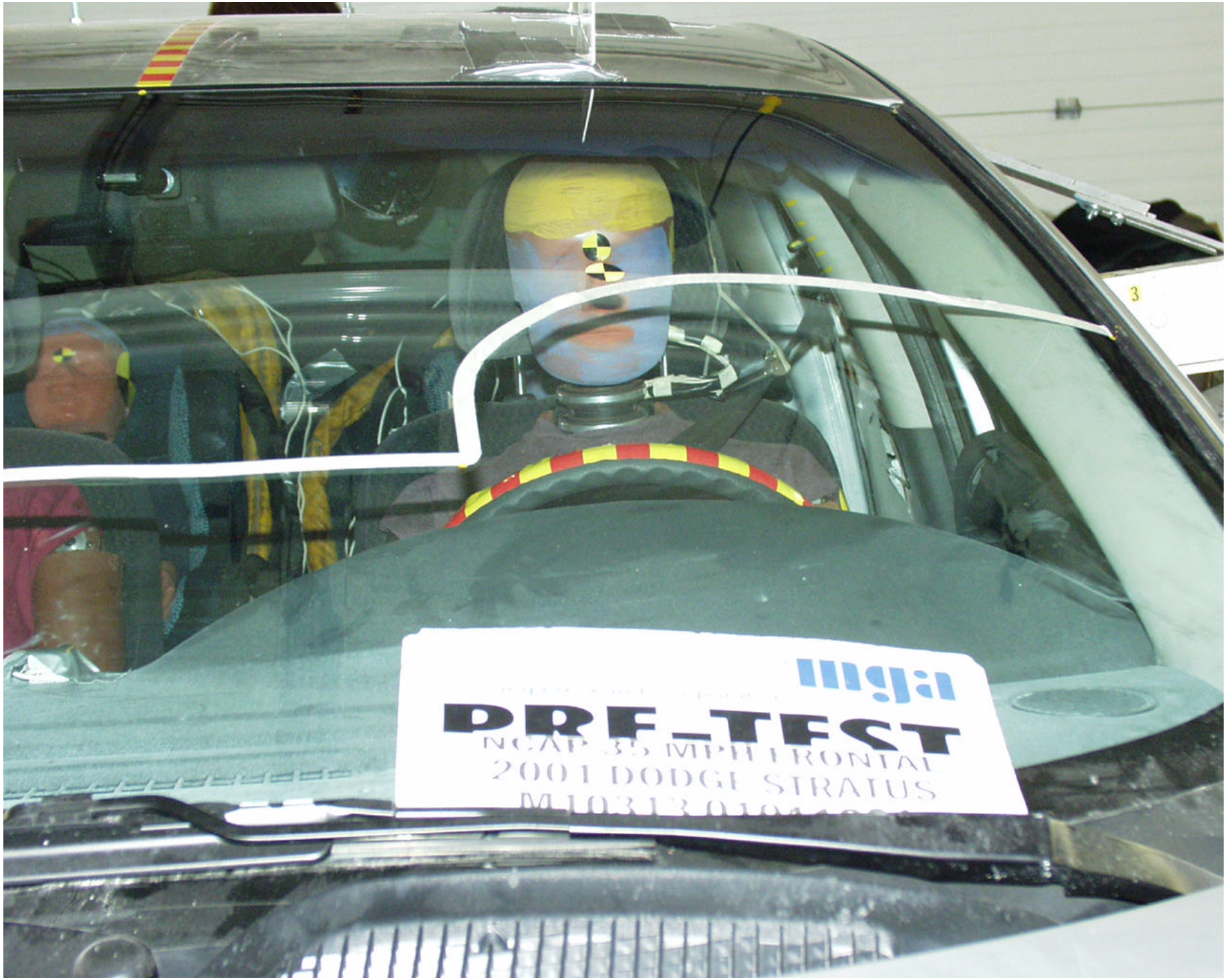


Photo No. A-34 - Pre-Test Driver Windshield View



Photo No. A-35 - Post-Test Driver Windshield View



Photo No. A-36 - Pre-Test Passenger Dummy Position Right Side View

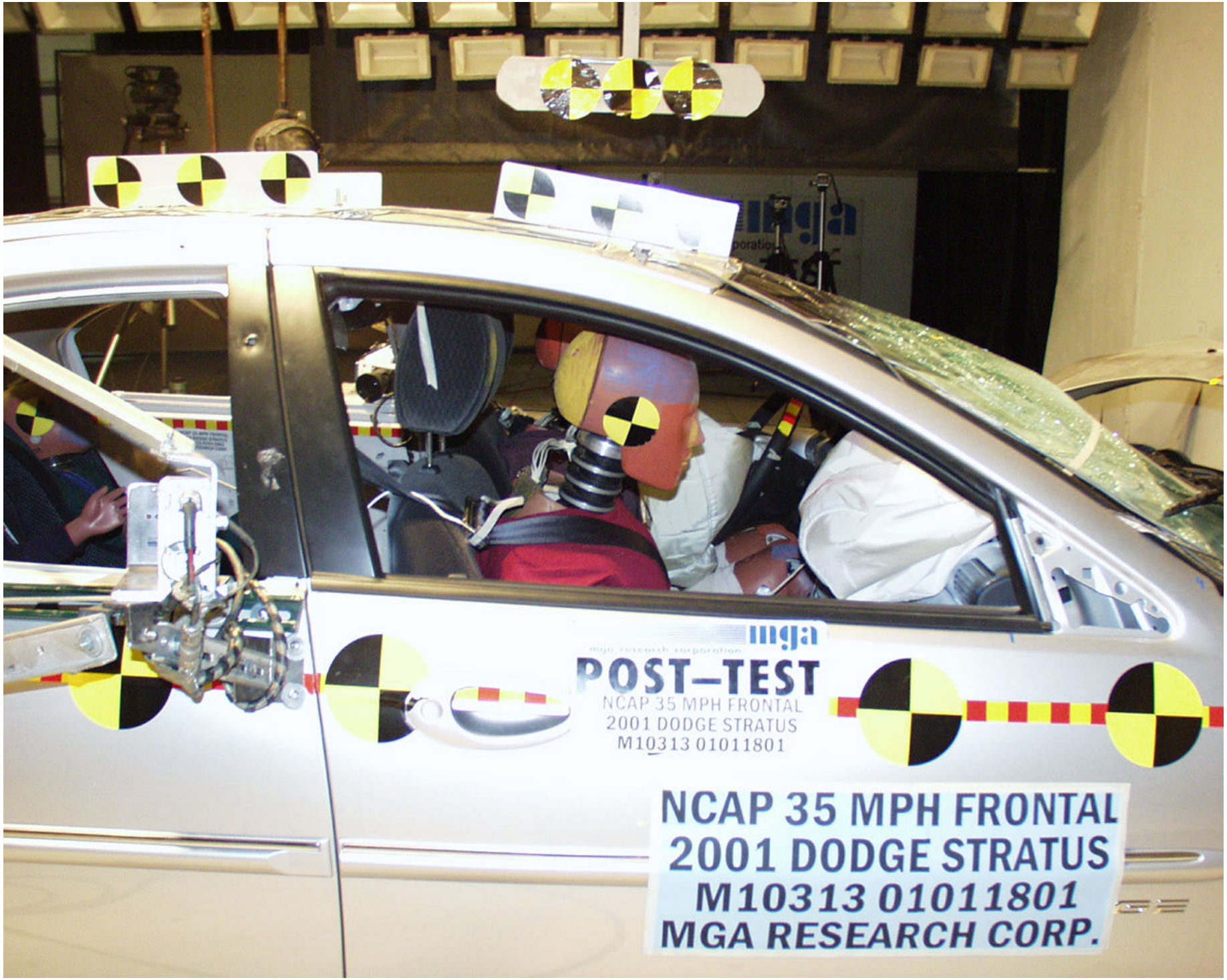


Photo No. A-37 - Post-Test Passenger Dummy Position Right Side View



Photo No. A-38 - Pre-Test Passenger Dummy Position Right Side View (Door Open)



Photo No. A-39 - Post-Test Passenger Dummy Position Right Side View (Door Open)



Photo No. A-40 - Pre-Test Passenger Seat Position View



Photo No. A-41 - Post-Test Passenger Seat Position View



Photo No. A-42 - Pre-Test Passenger Dummy Knee Position

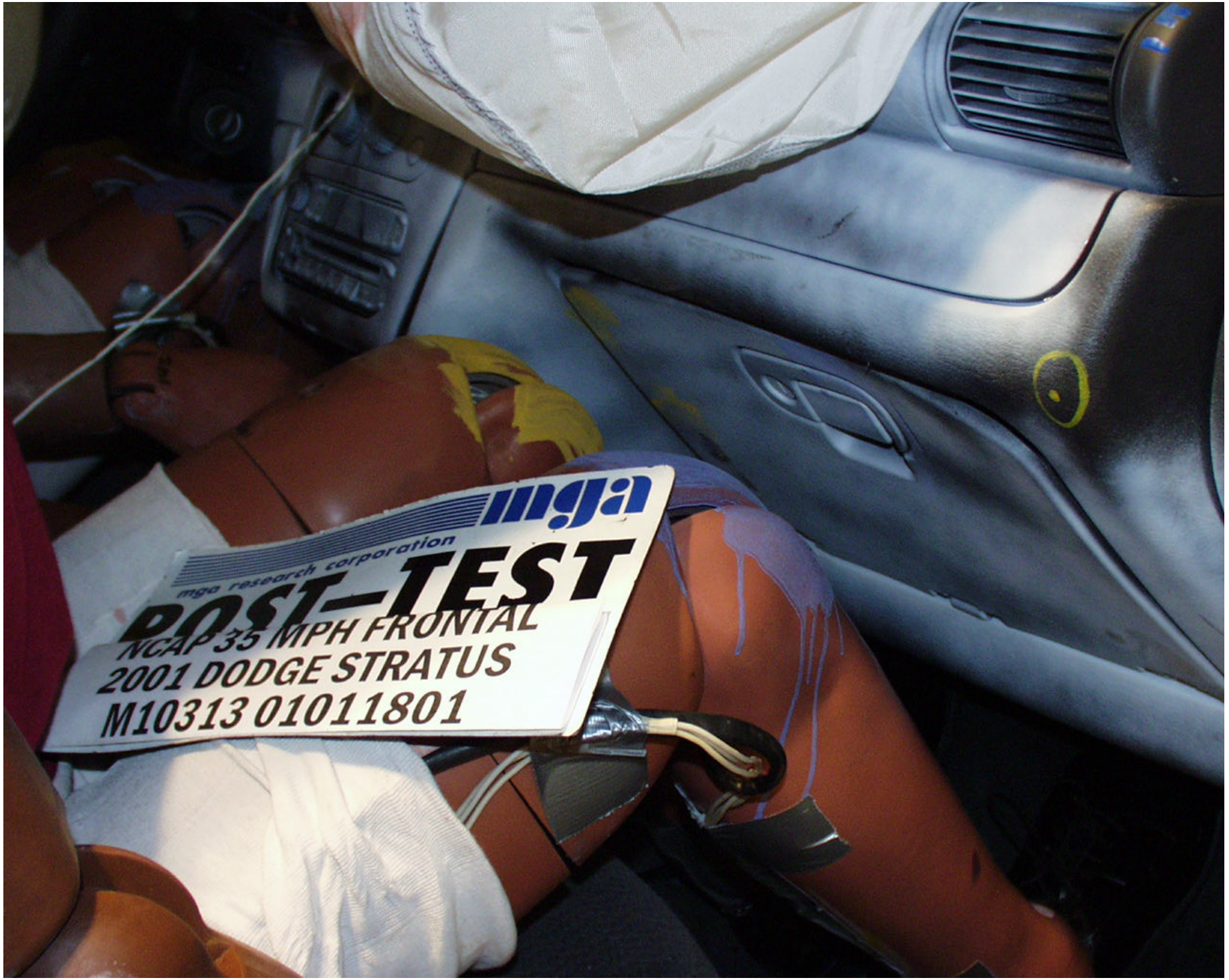


Photo No. A-43 - Post-Test Passenger Dummy Knee Position



Photo No. A-44 - Post-Test Passenger Airbag Contact



Photo No. A-45 - Post-Test Passenger Knee Contact View



Photo No. A-46 - Post-Test Passenger Head Contact View (headrest)



Photo No. A-47 - Pre-Test Passenger Windshield View



Photo No. A-48 - Post-Test Passenger Windshield View



A-49

Photo No. A-49 - Vehicle Certification Label



A-50

Photo No. A-50 - Tire Placard



Photo No. A-51 - Vehicle Impact

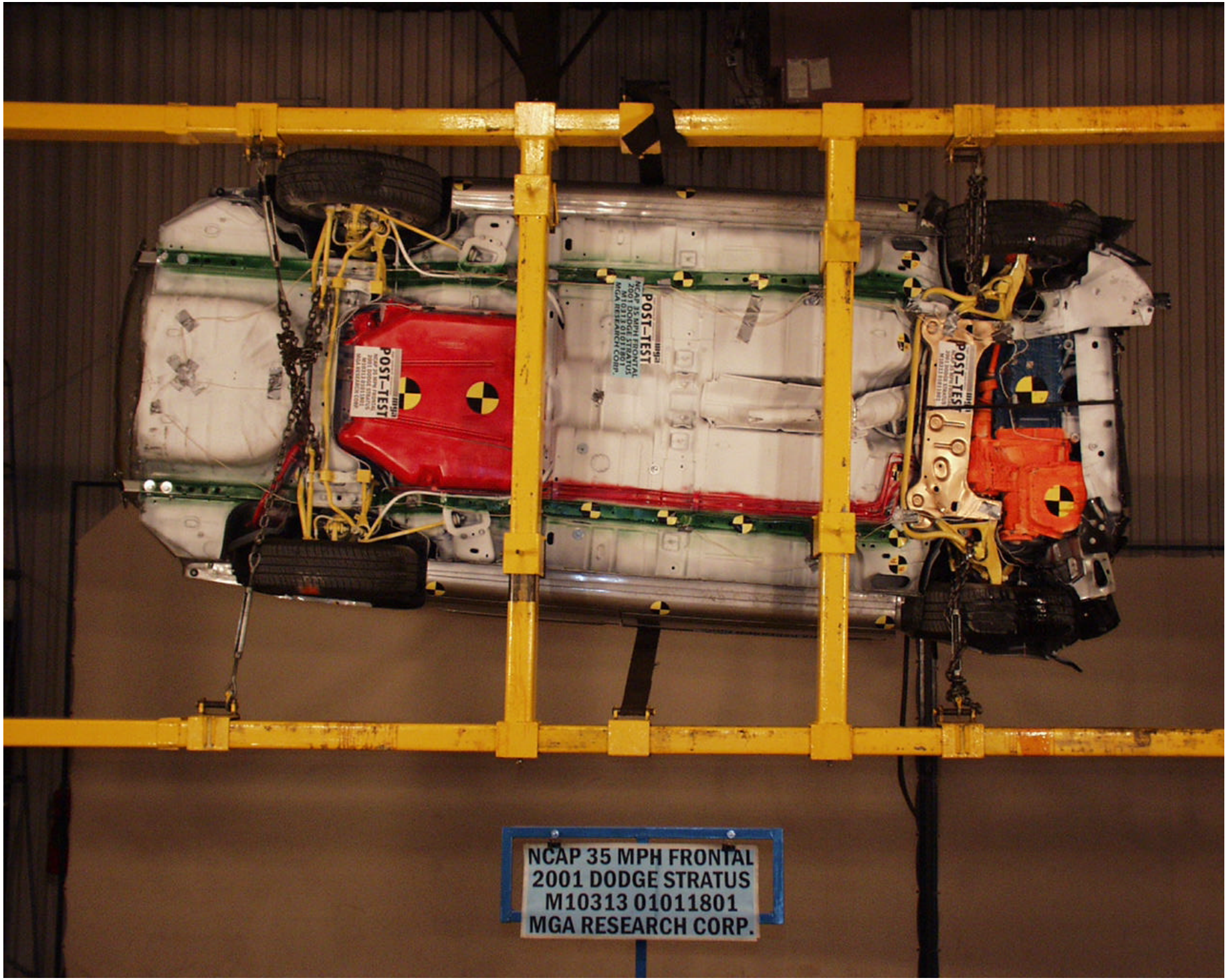


Photo No. A-52 - Rollover 90E

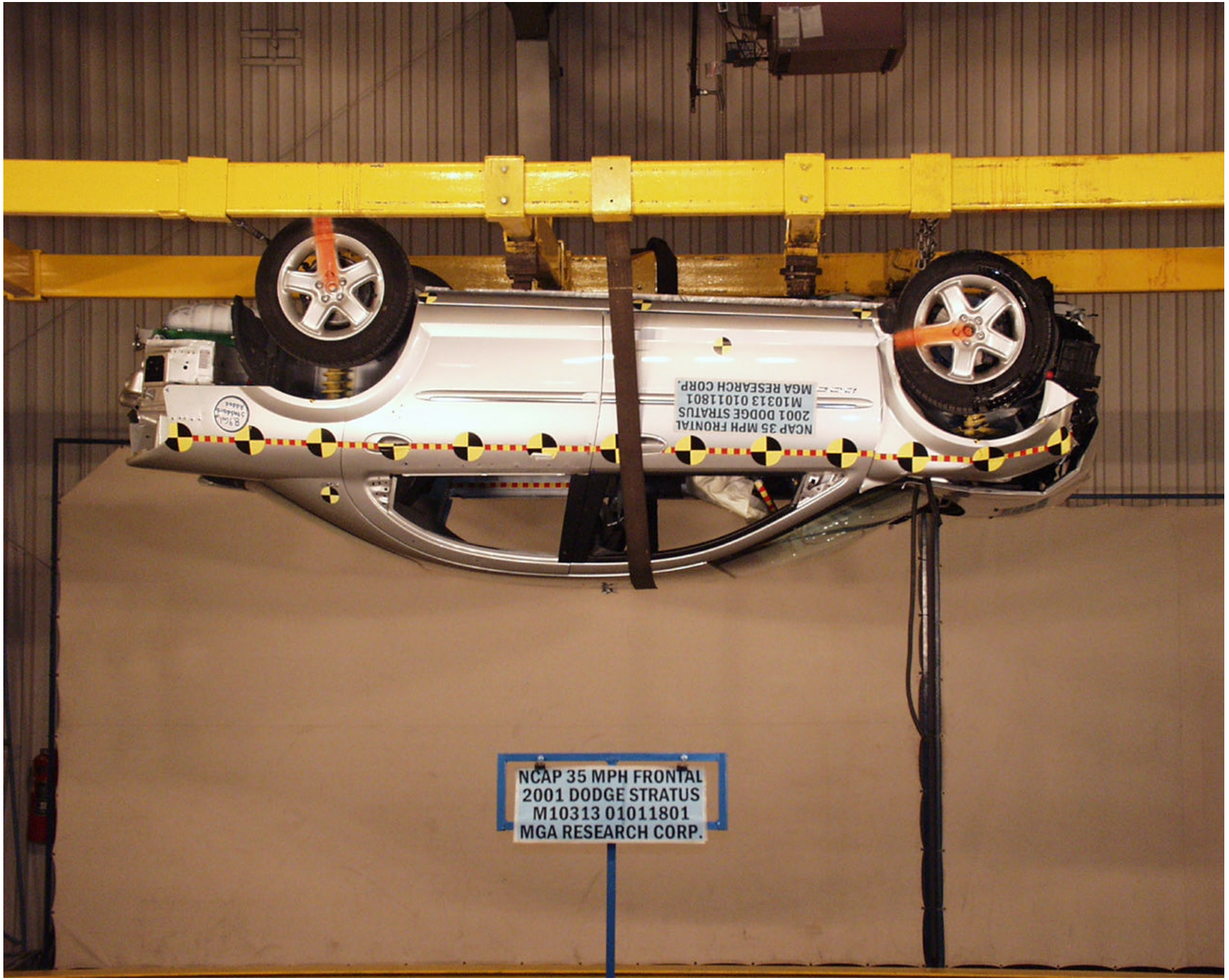


Photo No. A-53 - Rollover 180E



Photo No. A-54 - Rollover 270E



Photo No. A-55 - Rollover 360E

APPENDIX B

DUMMY, VEHICLE, AND BARRIER RESPONSE DATA TRACES

TABLE OF DATA PLOTS

VEHICLE DATA FILTER CHANNEL CLASS

Head Accelerations 1000 (1650 Hz)

Chest Accelerations 180 (300 Hz)

Vehicle Accelerations 60 (100 Hz)

Barrier Load Cells 60 (100 Hz)

Femur Load Cells 600 (1000 Hz)

Lap and Torso Belts 60 (100 Hz)

Tibia Load Cells 600 (1000Hz)

Foot Accelerations 180 (300Hz)

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* No Valid Data After 43 msec.

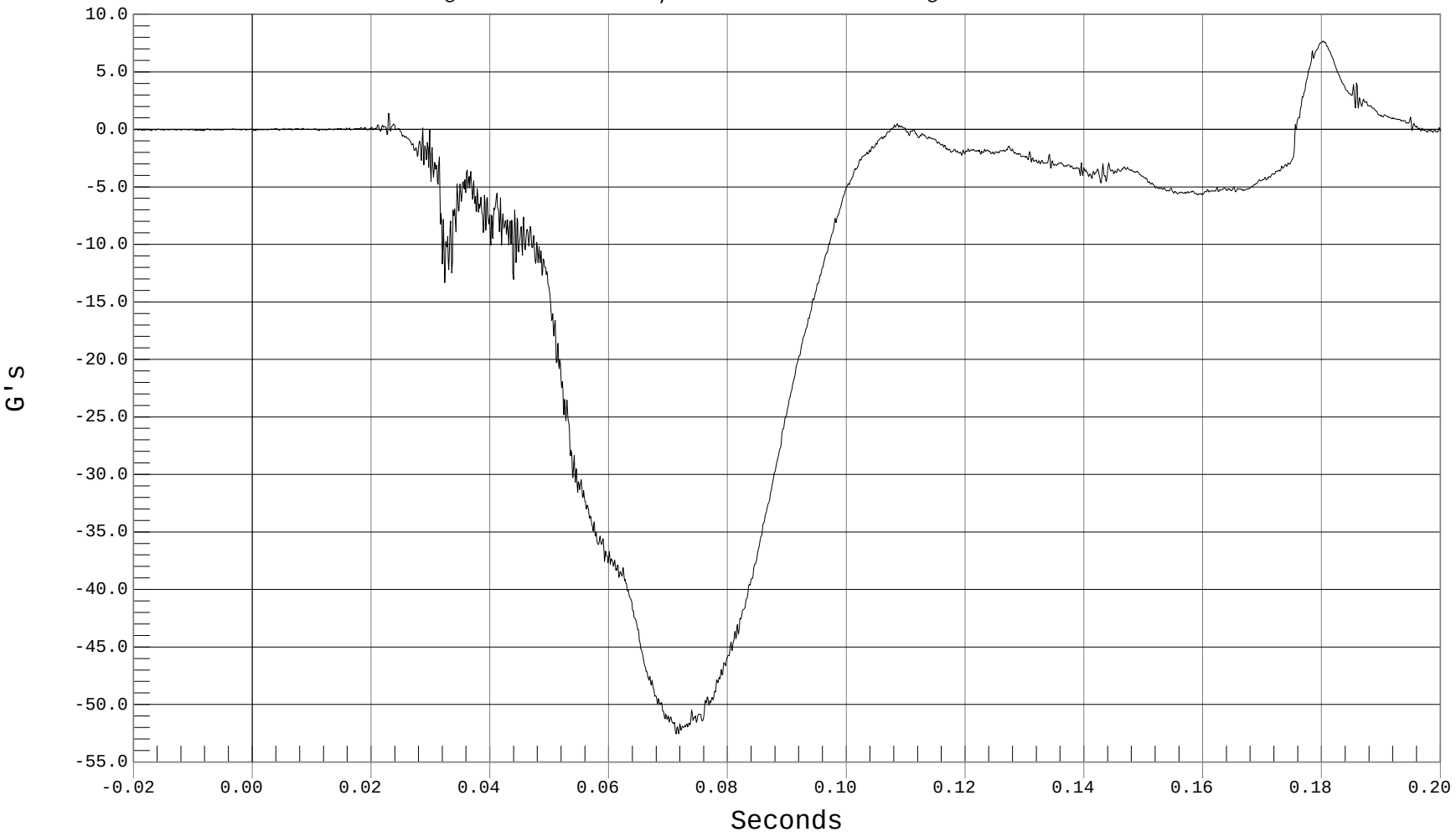
DRIVER HEAD X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 DRIVER HEAD X, B01005AT.A01

Ymin = -52.57 G's @ 0.0714 Seconds, Ymax = 7.67 G's @ 0.1802 Seconds



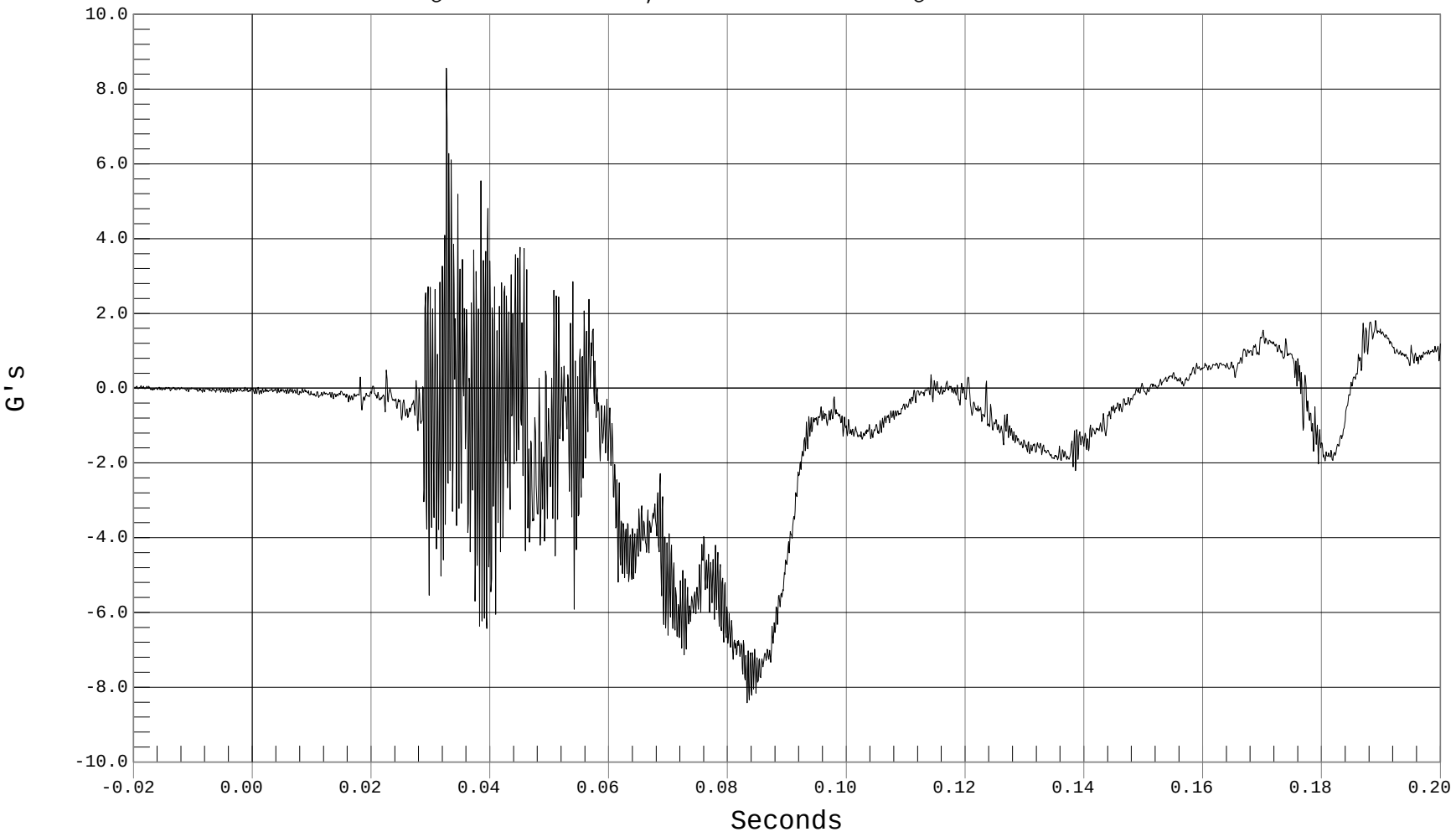
DRIVER HEAD Y ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 DRIVER HEAD Y, b01005AT.A02

Ymin = -8.42 G's @ 0.0833 Seconds, Ymax = 8.56 G's @ 0.0327 Seconds



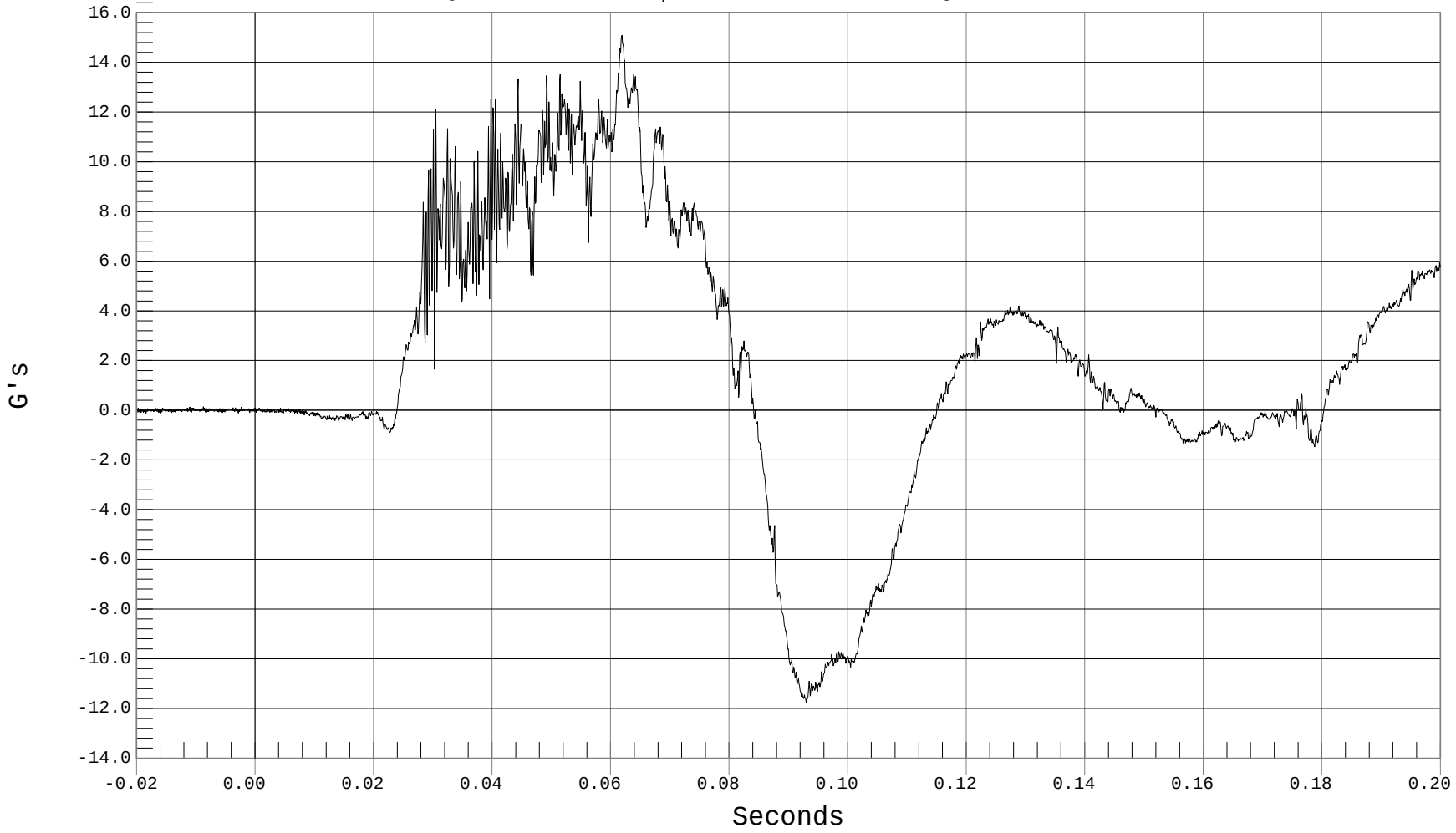
DRIVER HEAD Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 DRIVER HEAD Z, b01005AT.A03

Ymin = -11.78 G's @ 0.0930 Seconds, Ymax = 15.09 G's @ 0.0619 Seconds



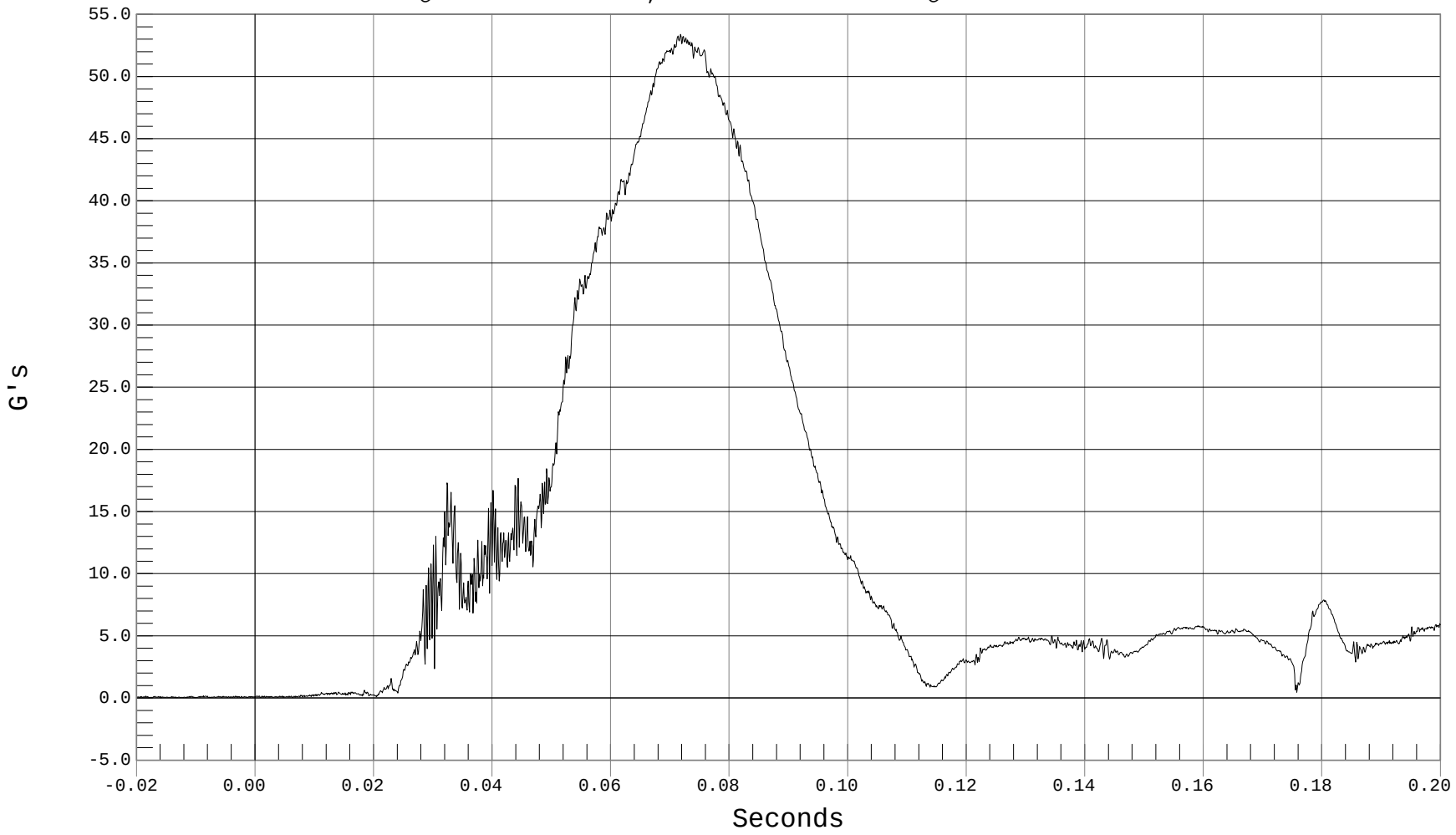
DRIVER HEAD RESULTANT ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 DRIVER HEAD RESULTANT ACCELERATION, b01005AV.A01

Ymin = .01 G's @ -0.0179 Seconds, Ymax = 53.39 G's @ 0.0718 Seconds



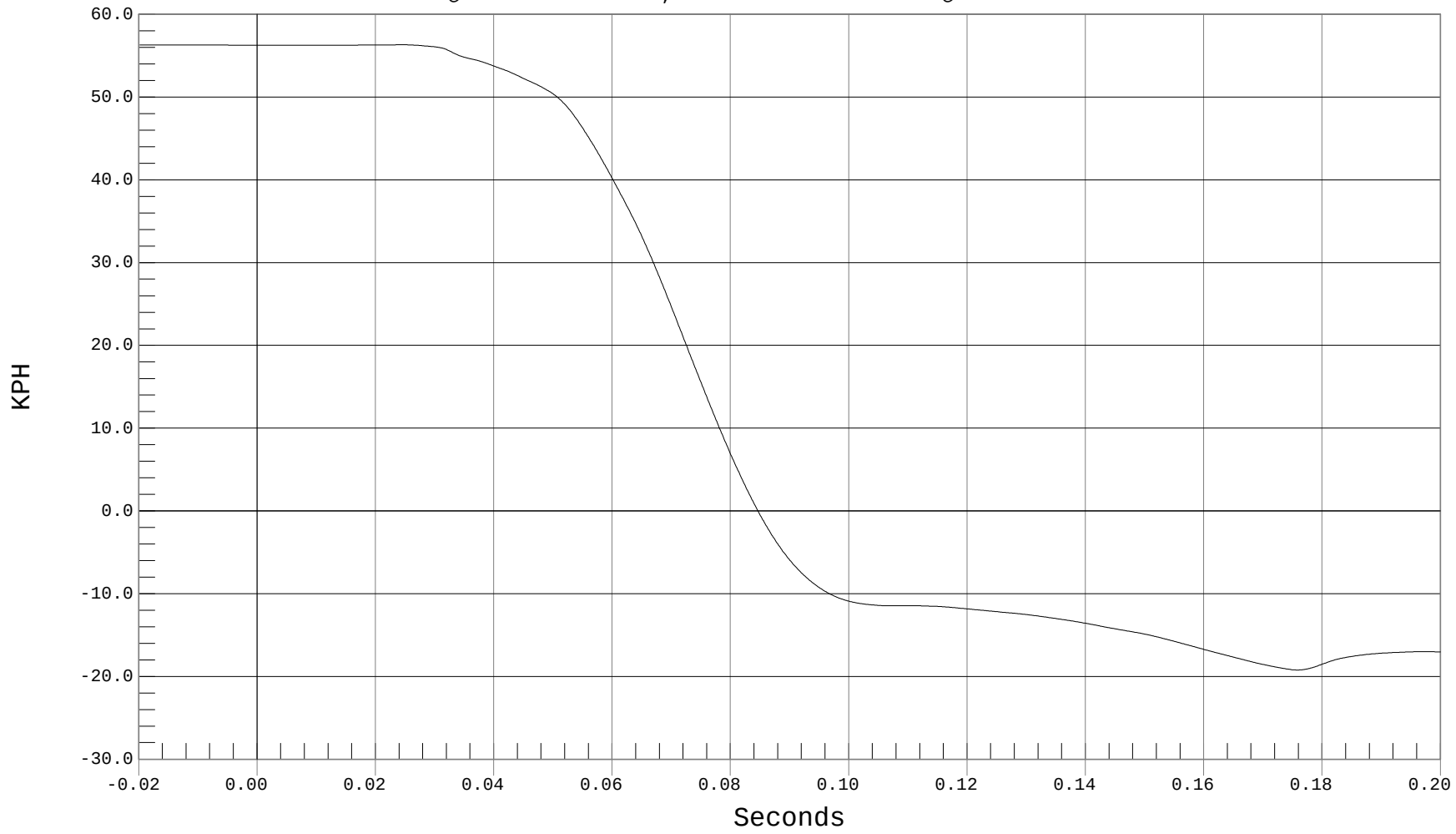
DRIVER HEAD X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 DRIVER HEAD X VELOCITY, b01005AI.V01

Ymin = -19.22 KPH @ 0.1758 Seconds, Ymax = 56.32 KPH @ 0.0245 Seconds



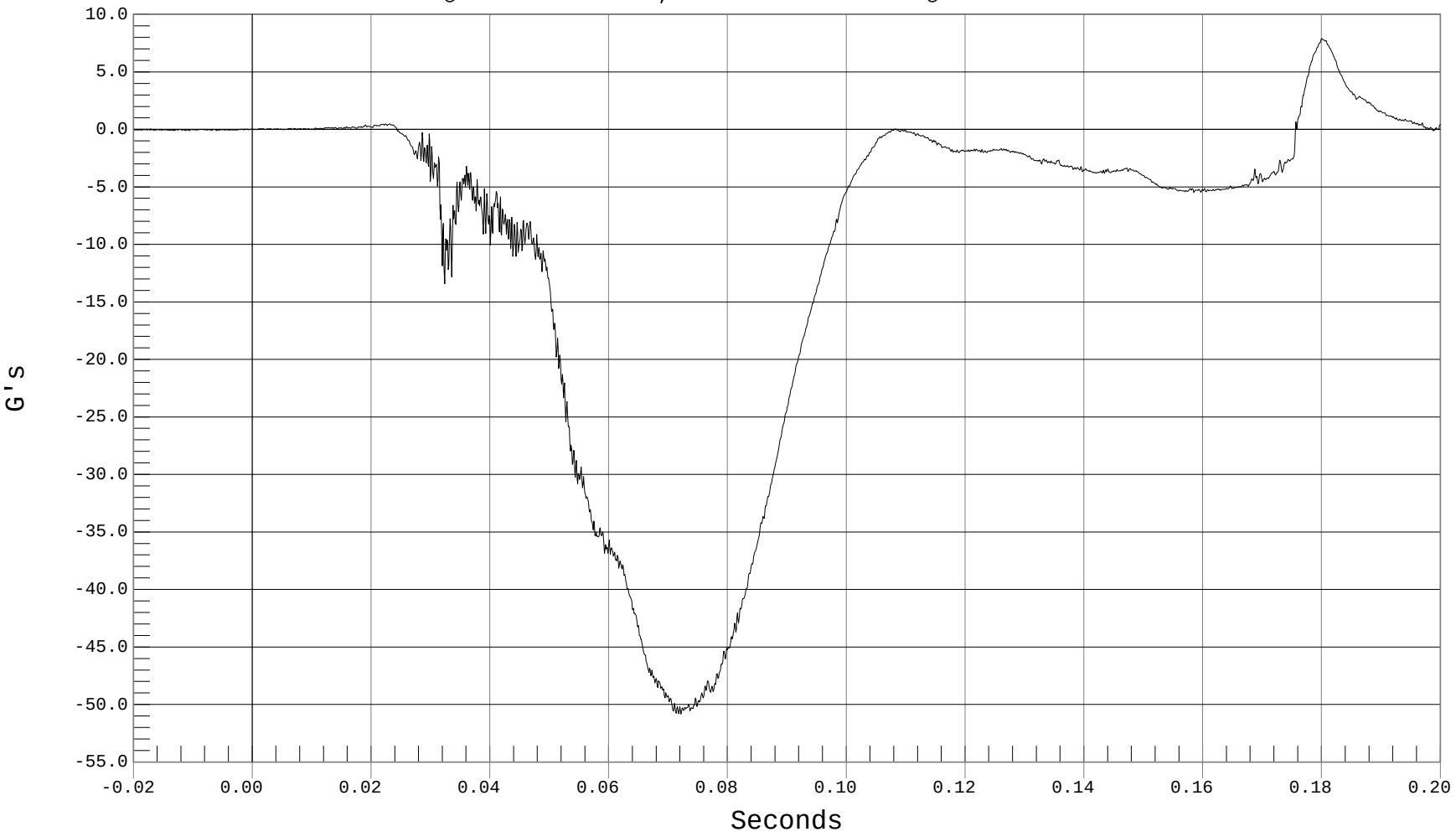
DRIVER HEAD REDUNDANT X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 DRIVER HEAD Xr, b01005AT.A33

Ymin = -50.84 G's @ 0.0722 Seconds, Ymax = 7.87 G's @ 0.1800 Seconds



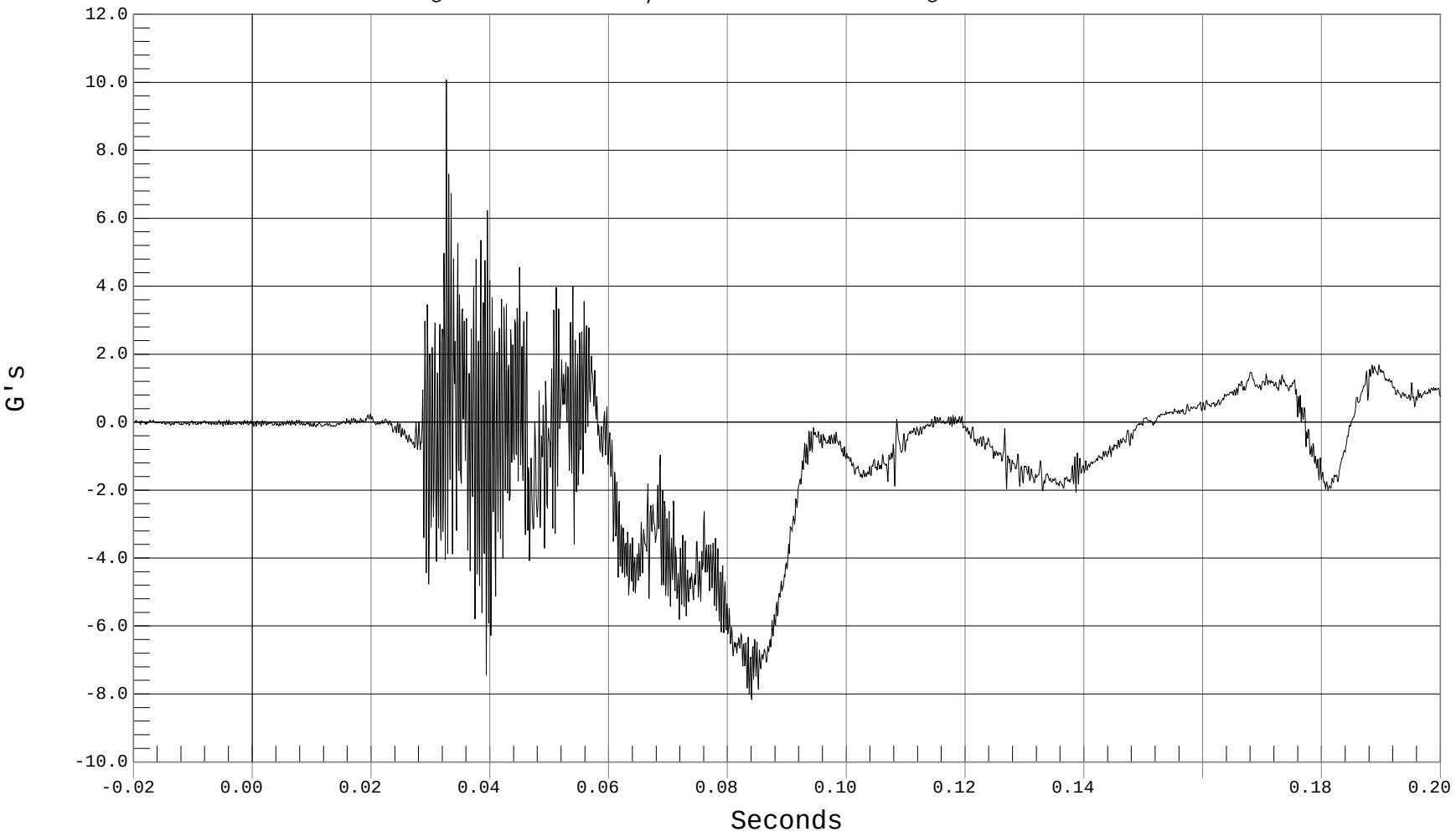
DRIVER HEAD REDUNDANT Y ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 DRIVER HEAD Yr, b01005AT.A34

Ymin = -8.16 G's @ 0.0841 Seconds, Ymax = 10.07 G's @ 0.0327 Seconds



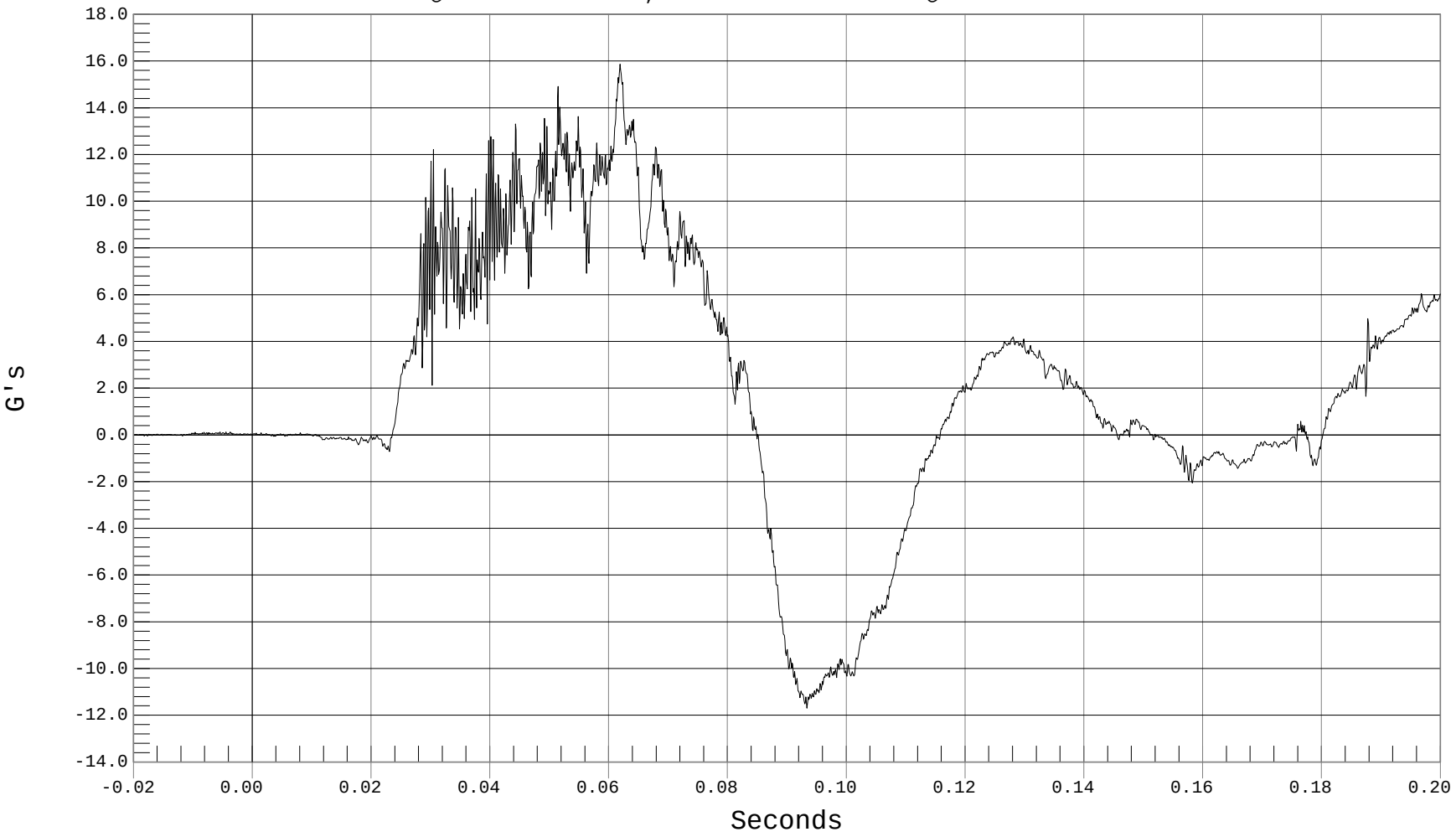
DRIVER HEAD REDUNDANT Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 DRIVER HEAD Zr, b01005AT.A35

Ymin = -11.7 G's @ 0.0934 Seconds, Ymax = 15.87 G's @ 0.0619 Seconds



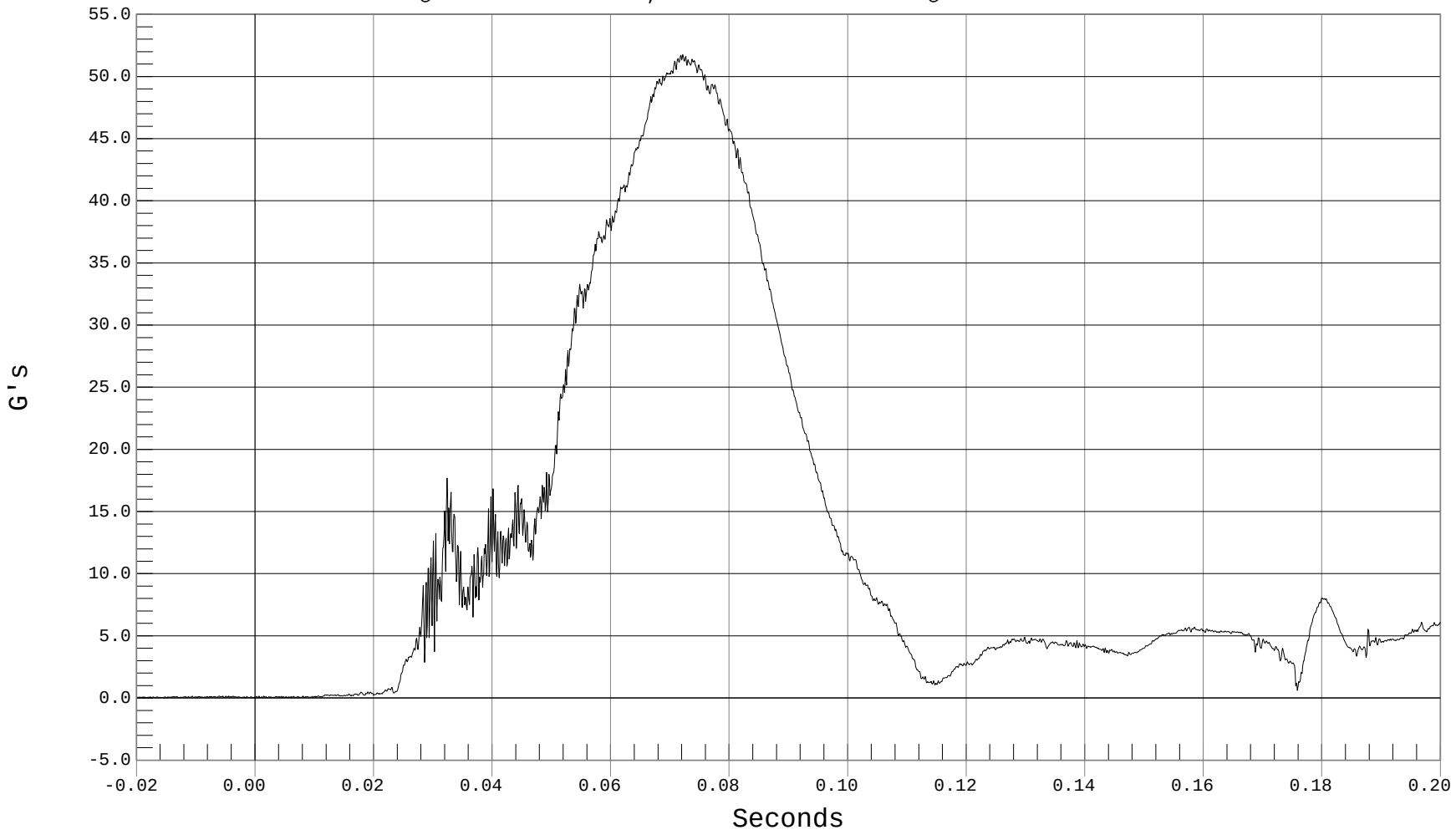
DRIVER HEAD REDUNDANT RESULTANT ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 DRIVER HEAD REDUNDANT RESULTANT ACCELERATION, b01005AV.A33

Ymin = .01 G's @ -0.0016 Seconds, Ymax = 51.75 G's @ 0.0722 Seconds



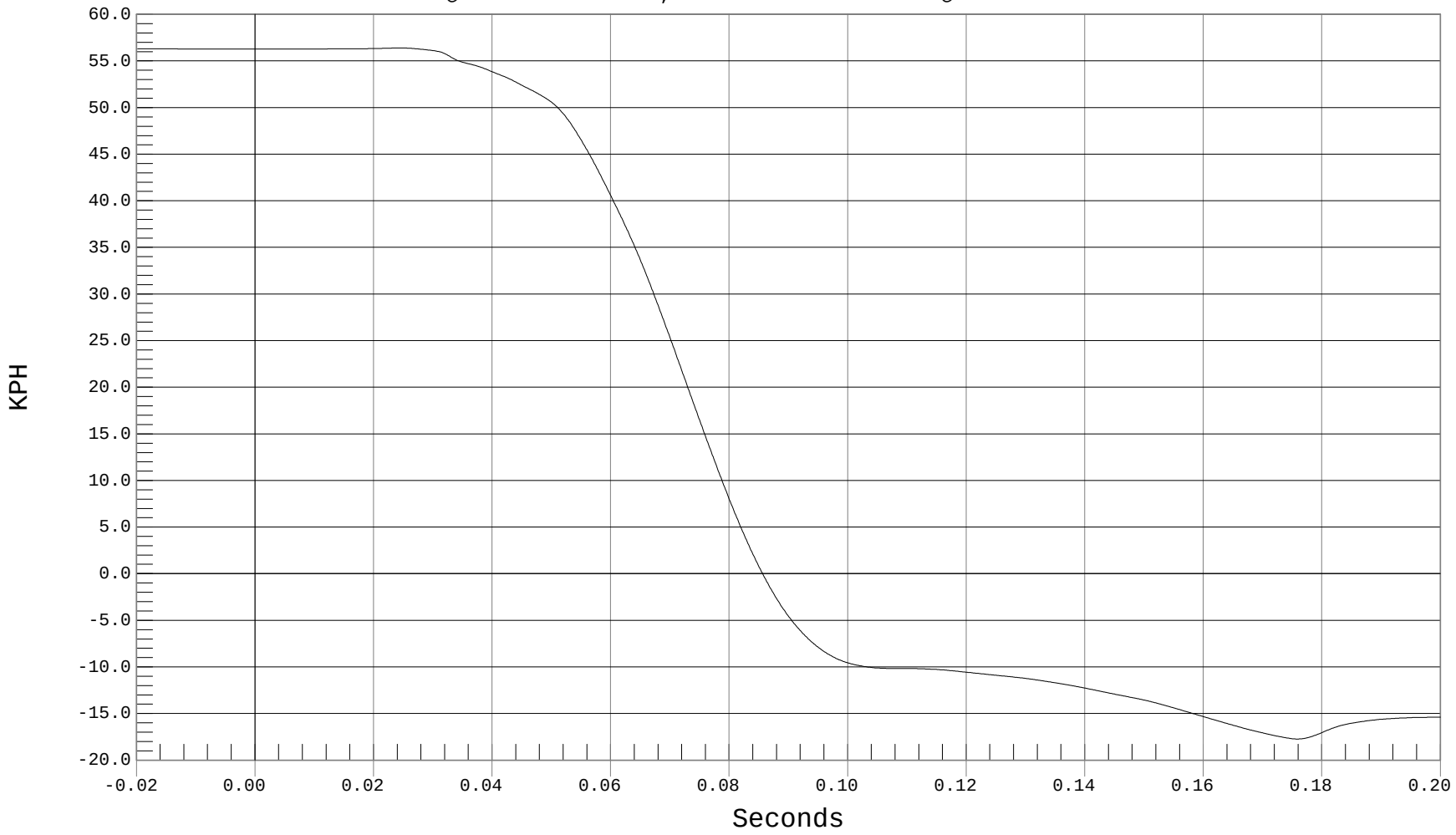
DRIVER HEAD REDUNDANT X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 DRIVER HEAD REDUNDANT X VELOCITY, b01005AI.V33

Ymin = -17.74 KPH @ 0.1759 Seconds, Ymax = 56.39 KPH @ 0.0244 Seconds



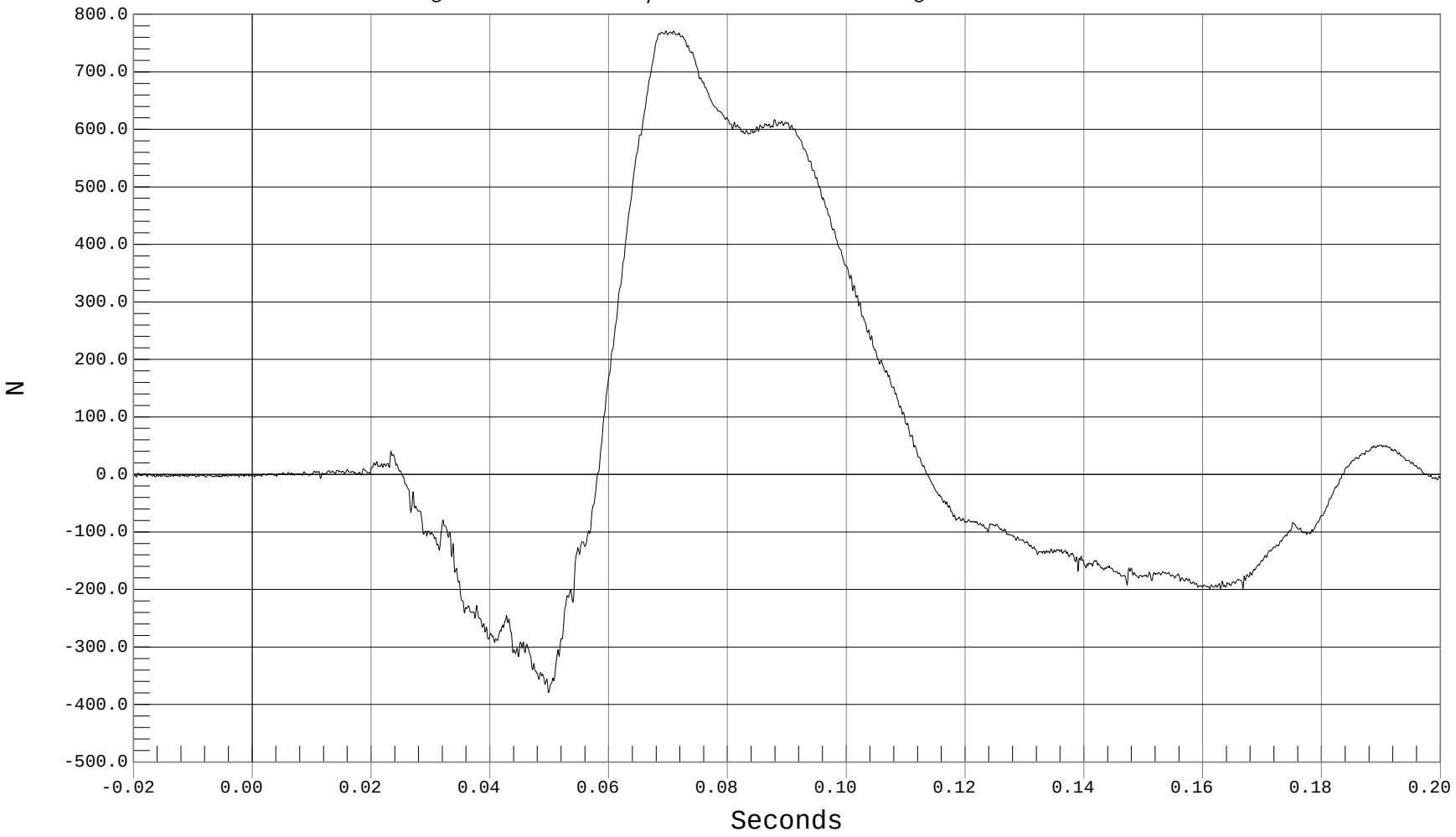
DRIVER NECK FORCE X

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 DRIVER NECK FX, b01005FT.F04

Ymin = -379.36 N @ 0.0499 Seconds, Ymax = 771.37 N @ 0.0696 Seconds



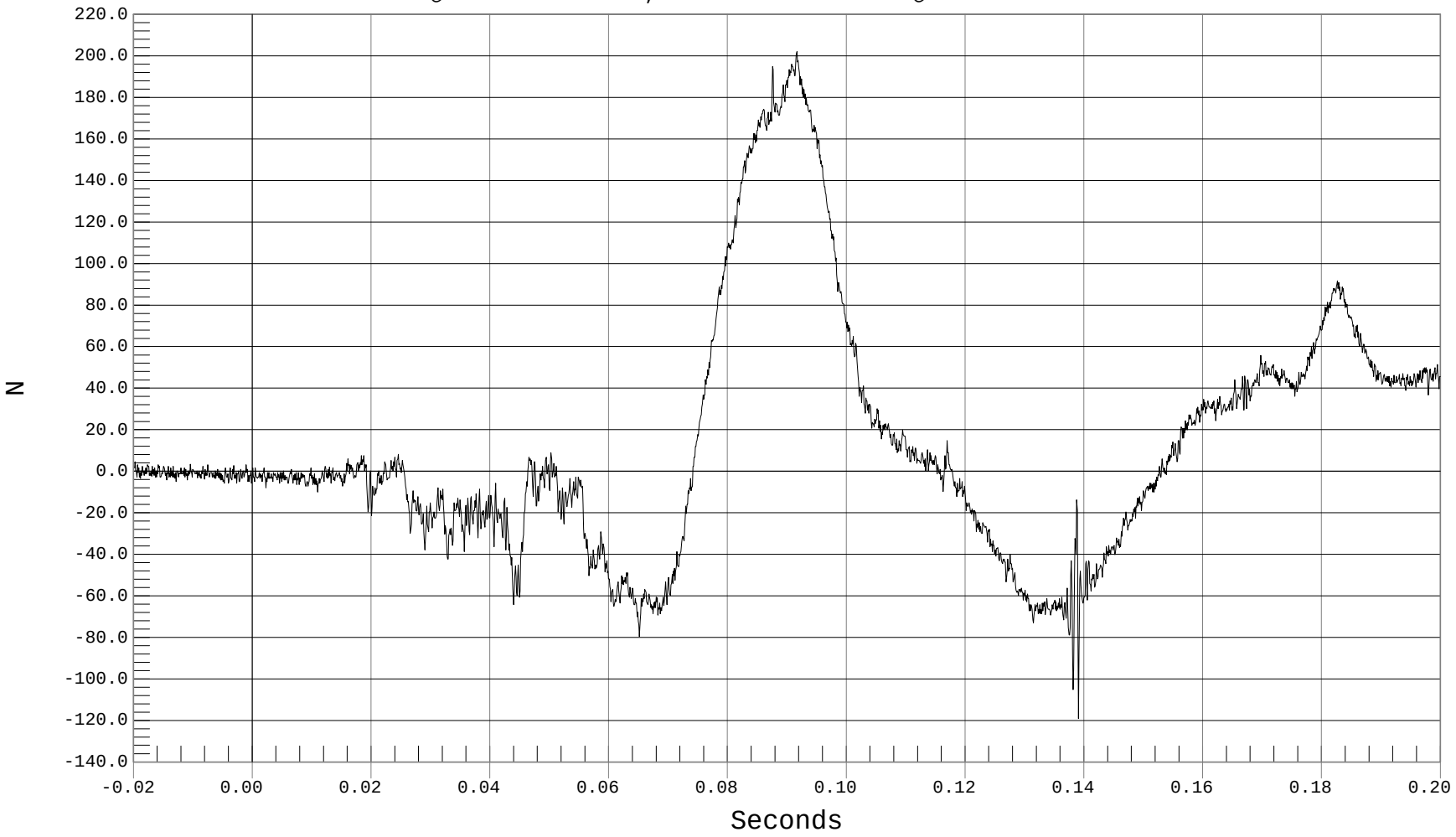
DRIVER NECK FORCE Y

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 DRIVER NECK FY, b01005FT.F05

Ymin = -119.15 N @ 0.1391 Seconds, Ymax = 202.16 N @ 0.0917 Seconds



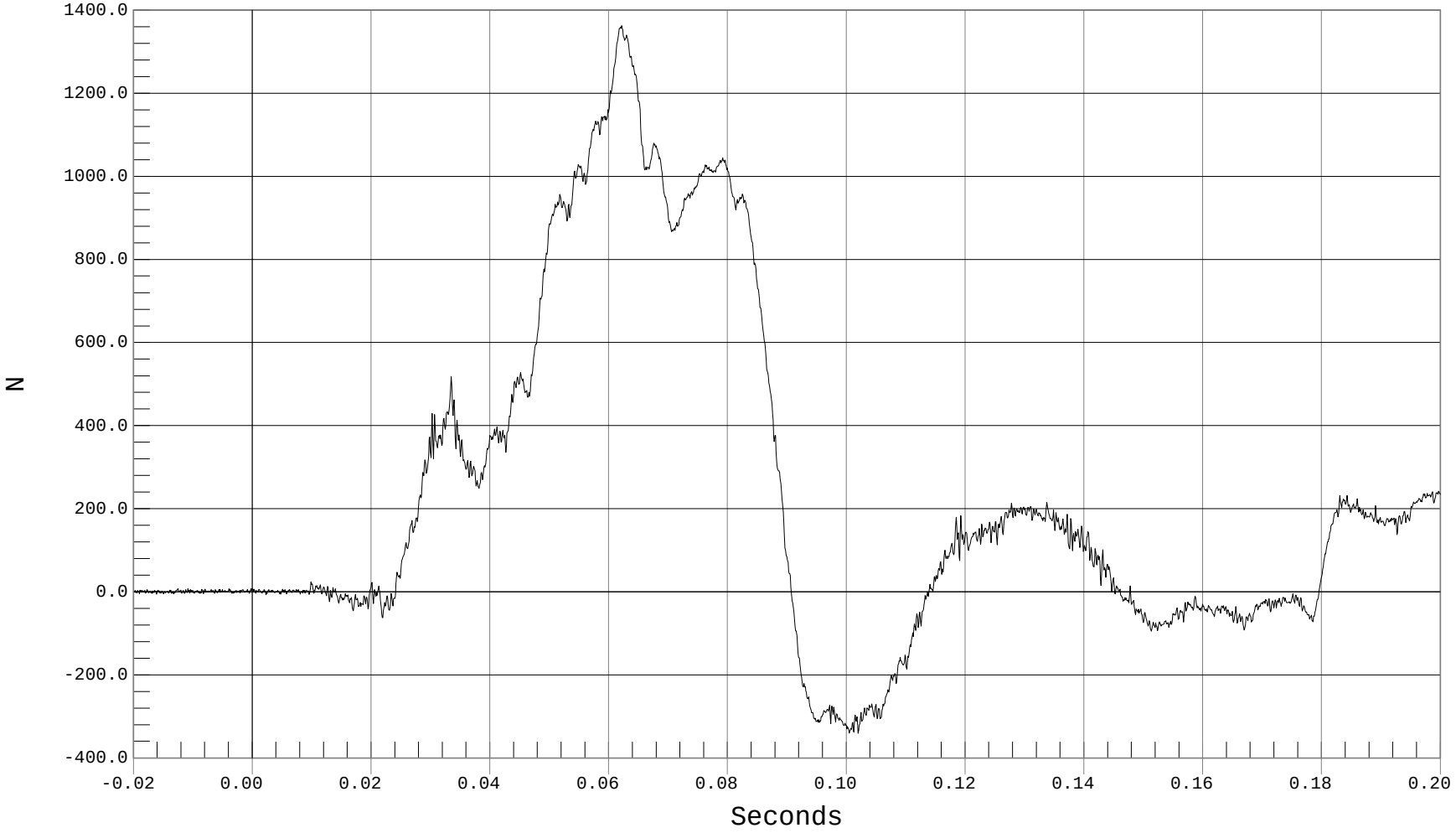
DRIVER NECK FORCE Z

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 DRIVER NECK FZ, b01005FT.F06

Ymin = -340.65 N @ 0.1020 Seconds, Ymax = 1362.9 N @ 0.0622 Seconds



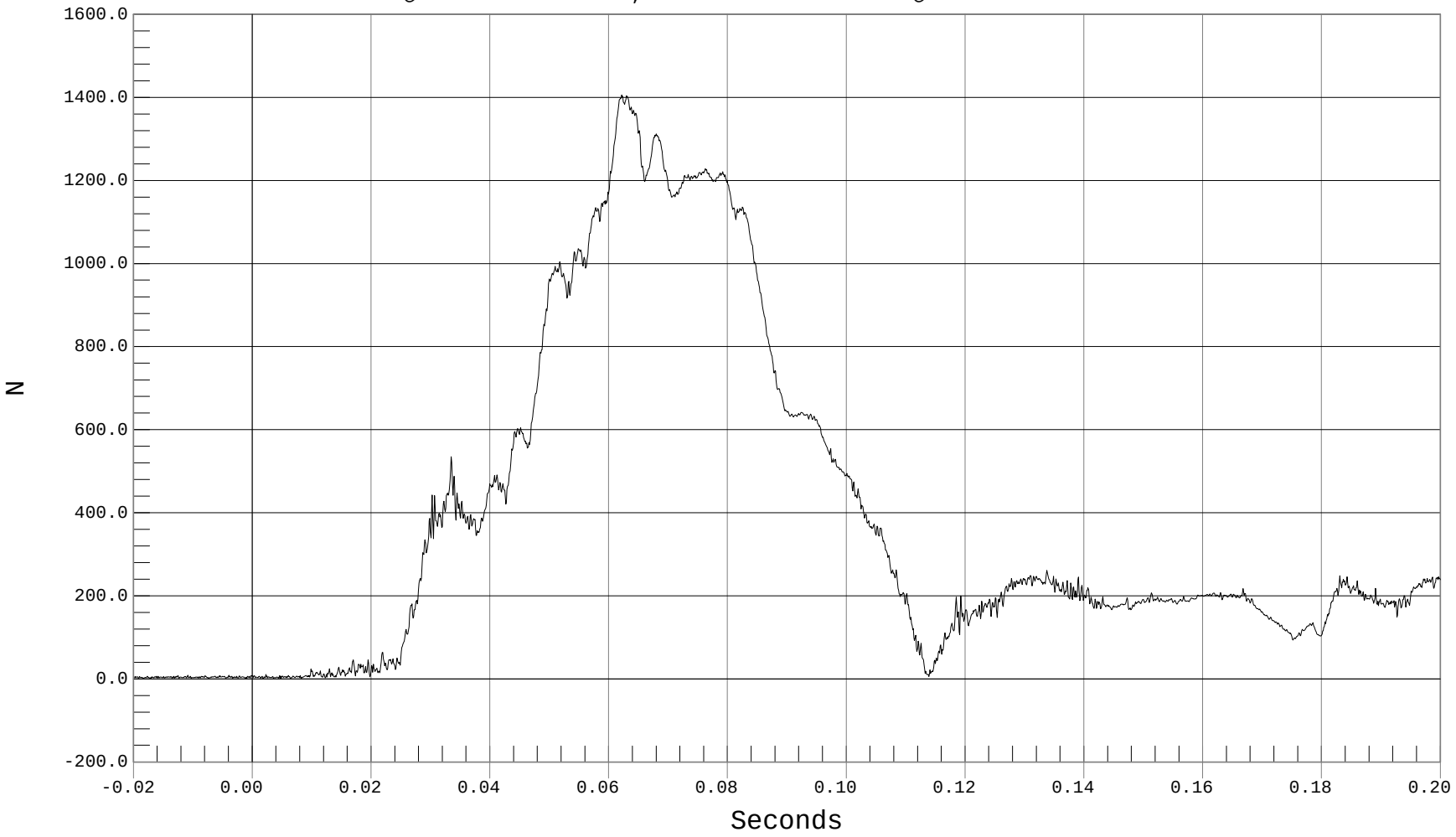
DRIVER NECK FORCE RESULTANT

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 DRIVER NECK FORCE RESULTANT, b01005FV.F04

Ymin = 1.07 N @ -0.0011 Seconds, Ymax = 1405.68 N @ 0.0622 Seconds



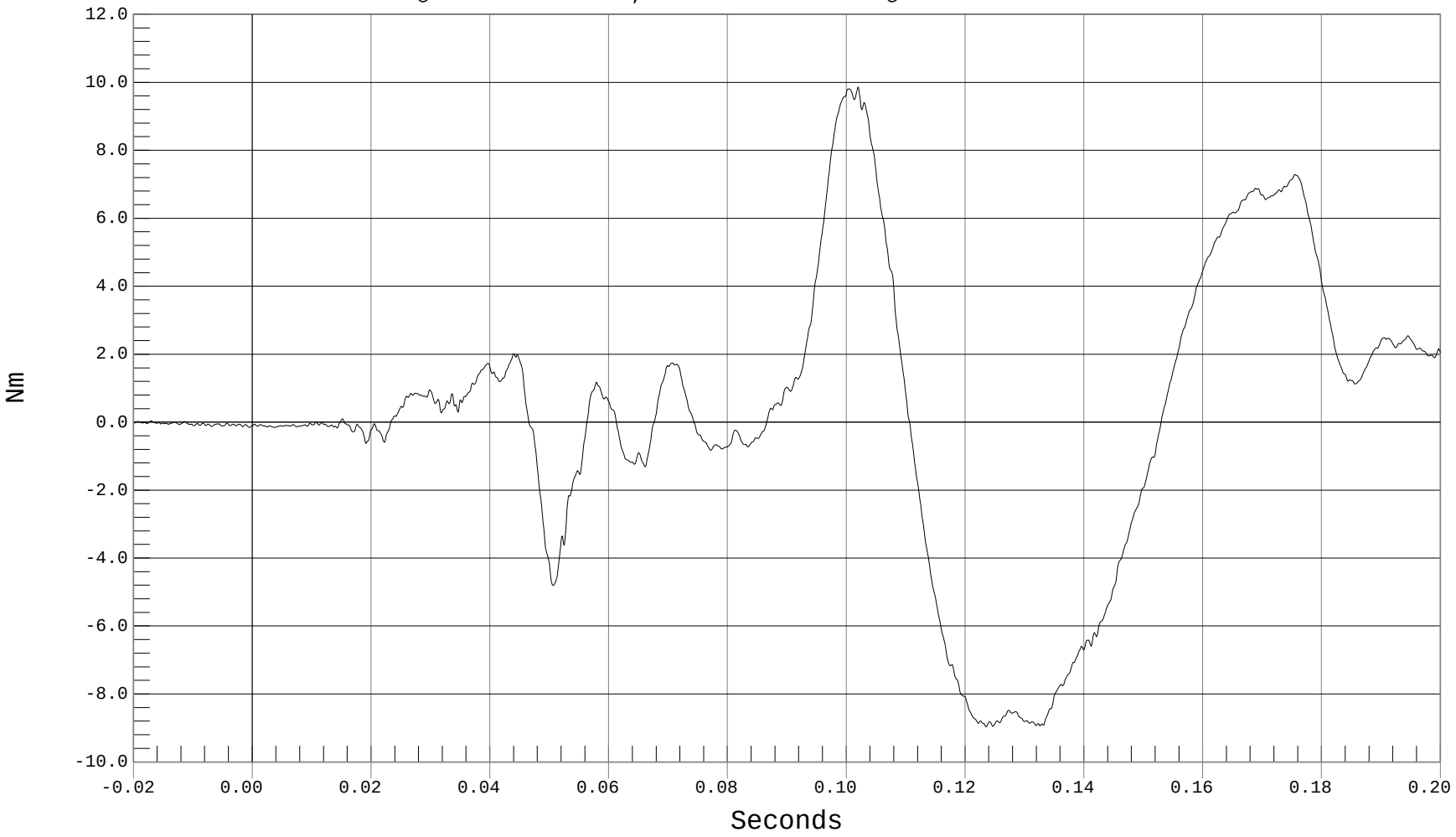
DRIVER NECK MOMENT X

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 DRIVER NECK MX, b01005MF.M07

Ymin = -8.96 Nm @ 0.1236 Seconds, Ymax = 9.86 Nm @ 0.1020 Seconds



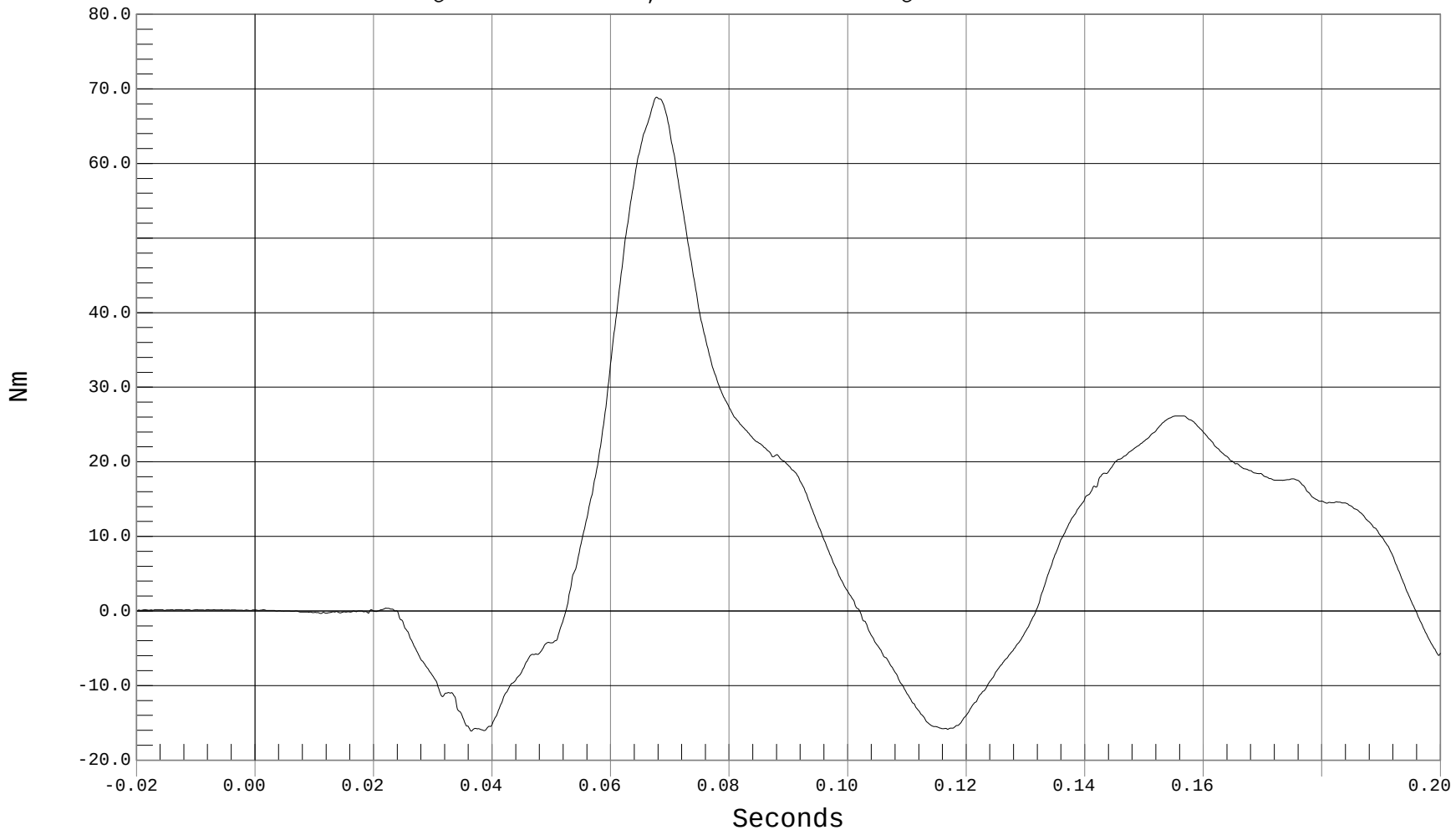
DRIVER NECK MOMENT Y

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 DRIVER NECK MY, b01005MF.M08

Ymin = -16.11 Nm @ 0.0365 Seconds, Ymax = 68.9 Nm @ 0.0678 Seconds



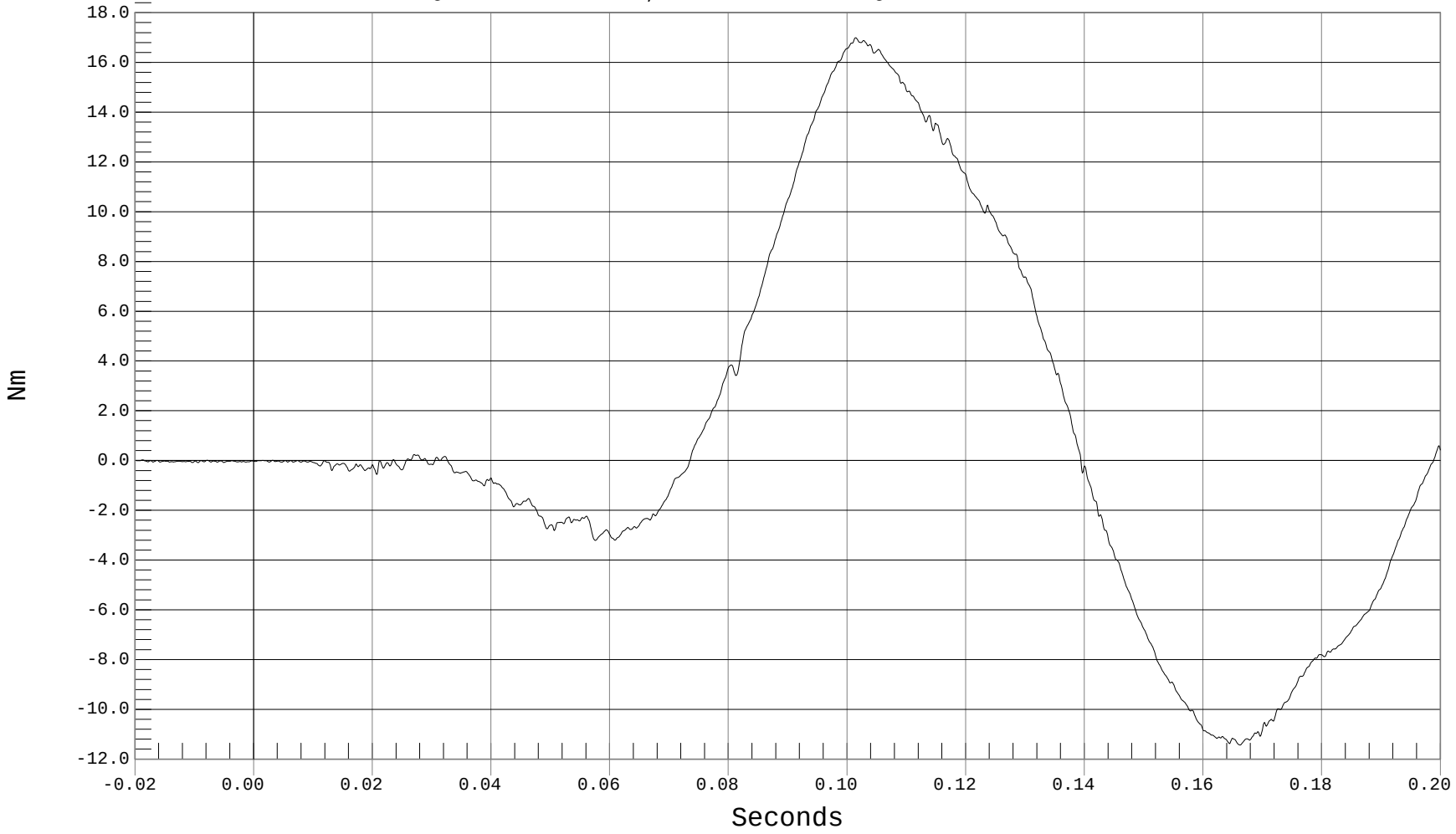
DRIVER NECK MOMENT Z

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 DRIVER NECK MZ, b01005MF.M09

Ymin = -11.44 Nm @ 0.1663 Seconds, Ymax = 17 Nm @ 0.1015 Seconds



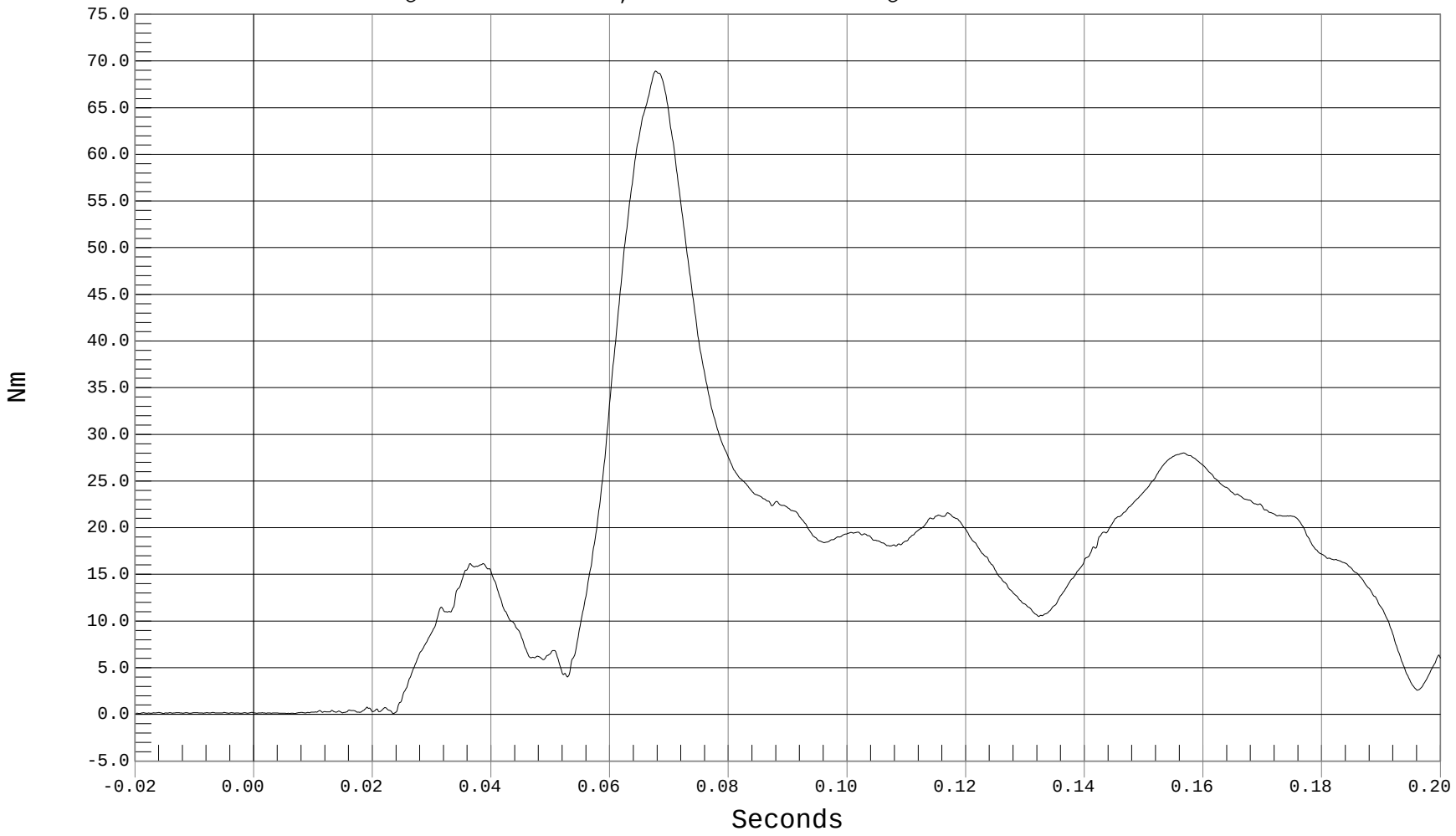
DRIVER NECK MOMENT RESULTANT

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 DRIVER NECK MOMENT RESULTANT, b01005MV.M07

Ymin = .09 Nm @ 0.0070 Seconds, Ymax = 68.93 Nm @ 0.0678 Seconds



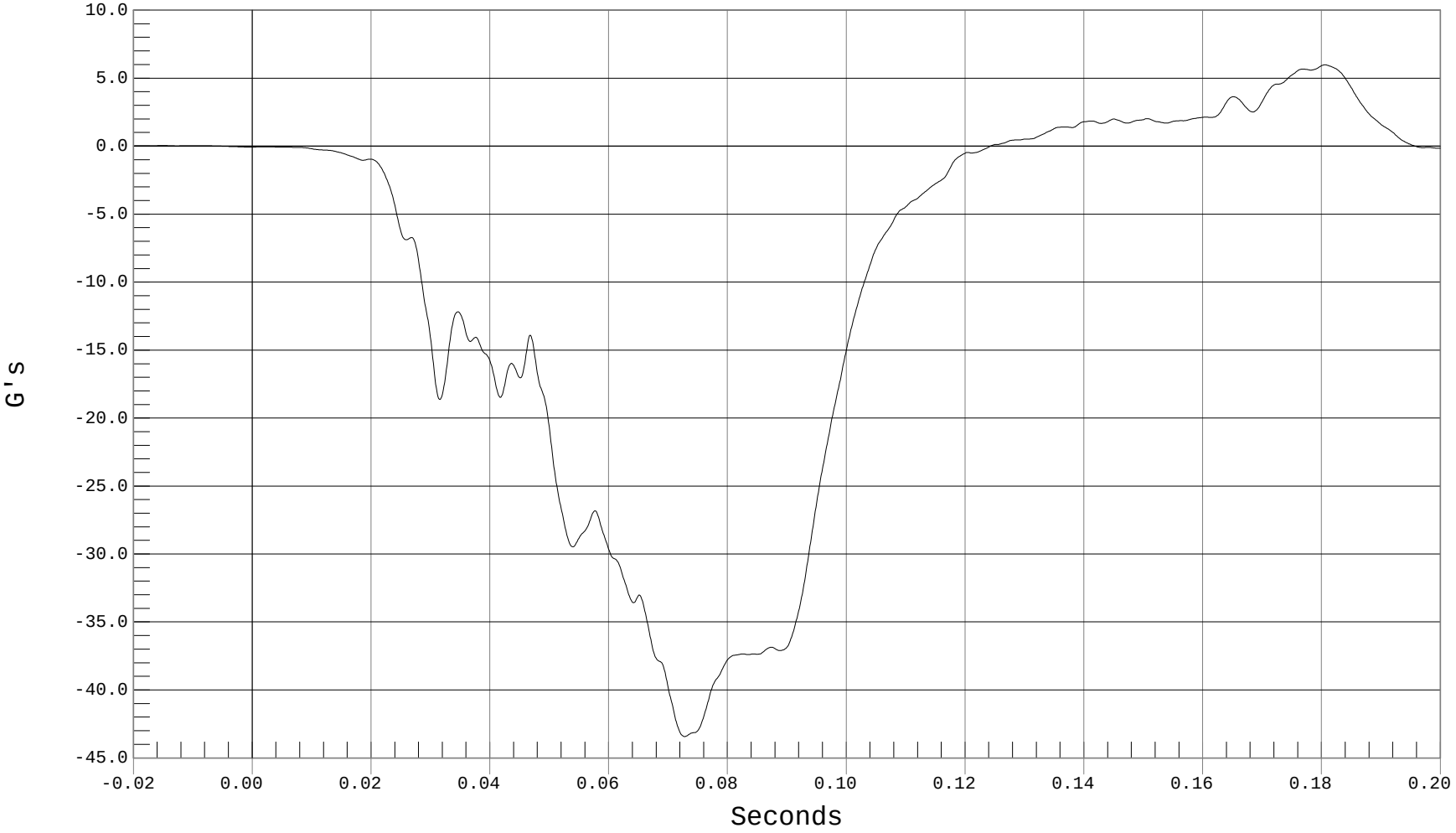
DRIVER CHEST X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 DRIVER CHEST X, b01005AF.A10

Ymin = -43.43 G's @ 0.0728 Seconds, Ymax = 5.98 G's @ 0.1806 Seconds



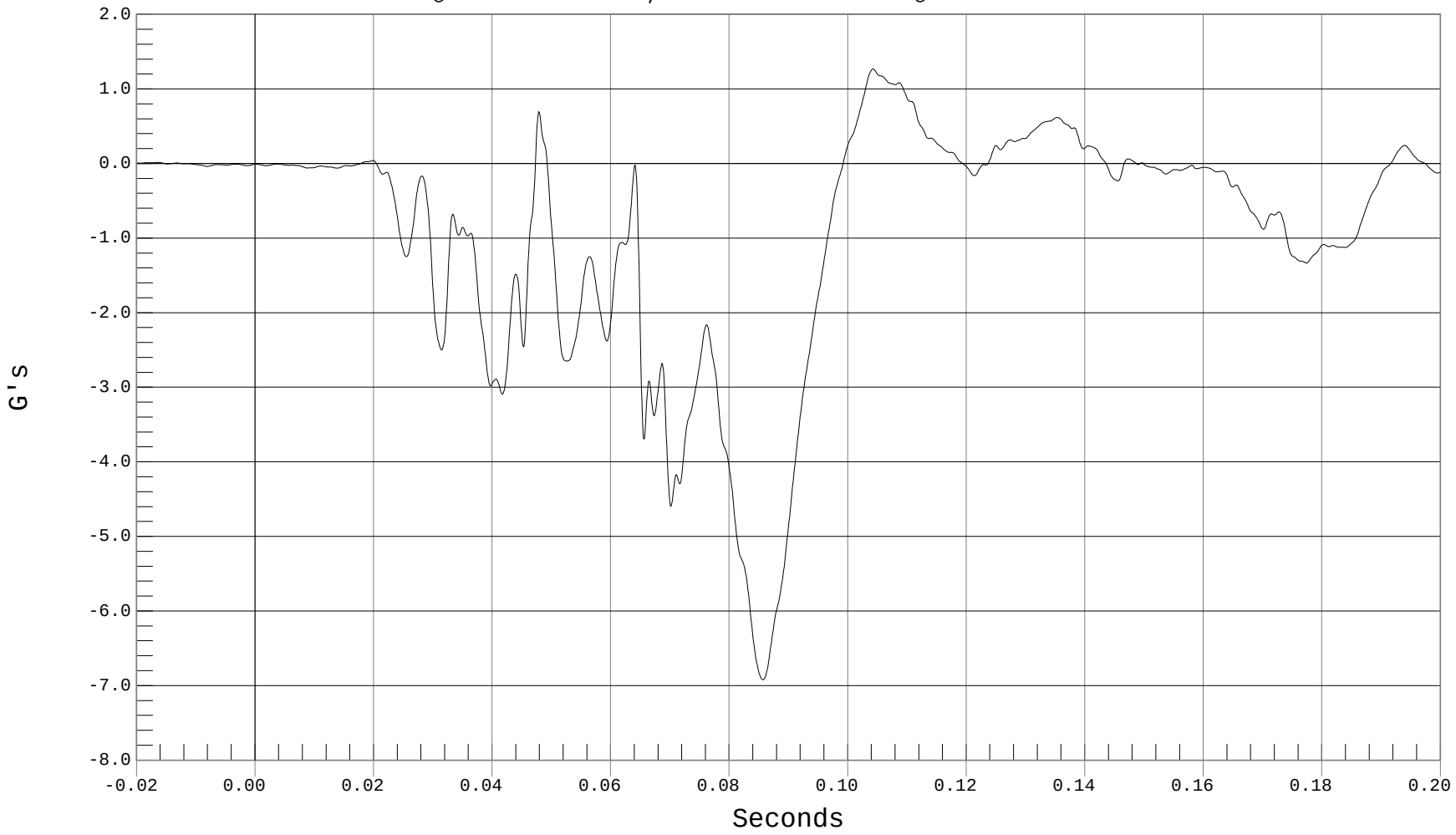
DRIVER CHEST Y ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 DRIVER CHEST Y, b01005AF.A11

Ymin = -6.92 G's @ 0.0857 Seconds, Ymax = 1.27 G's @ 0.1043 Seconds



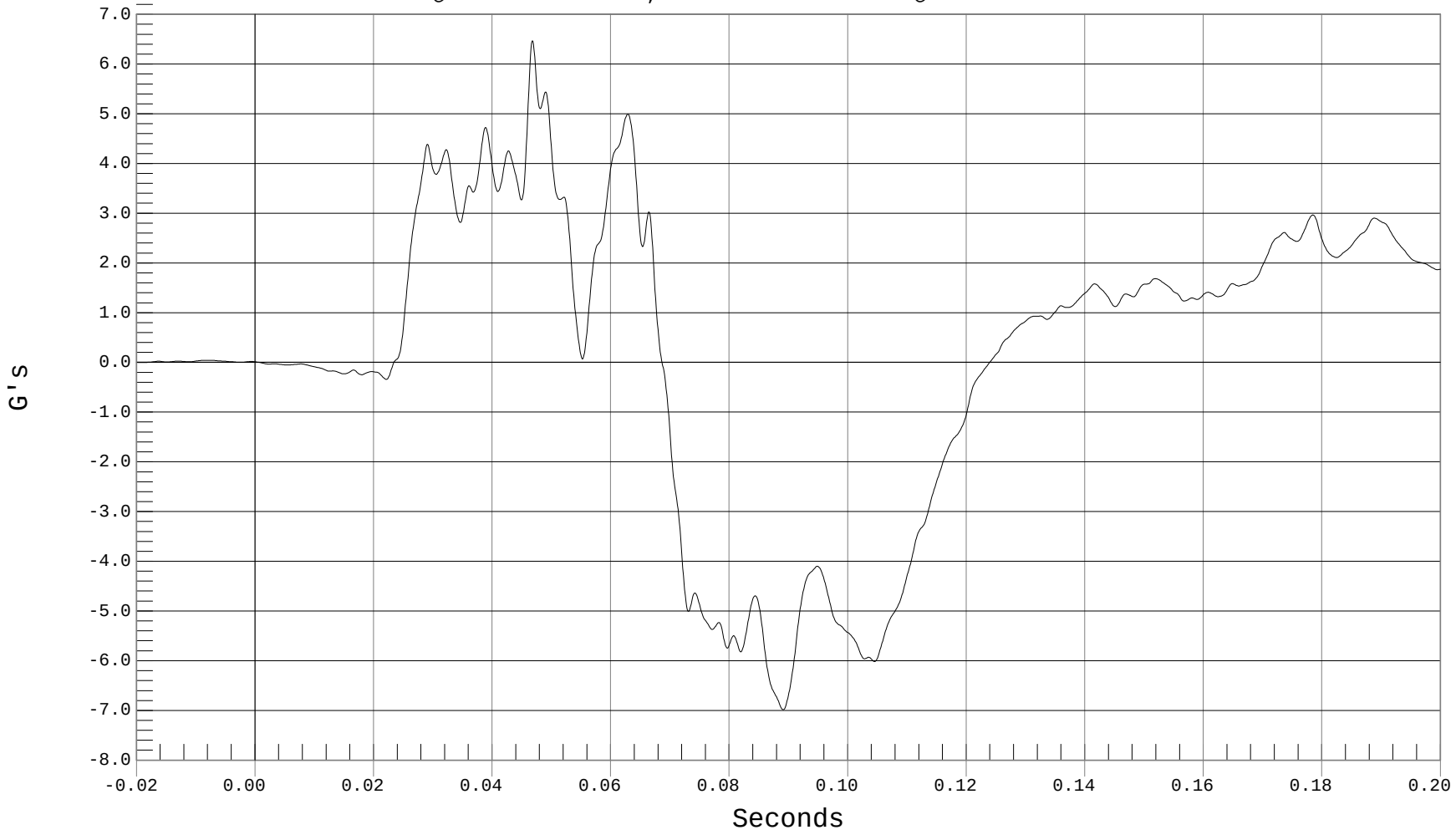
DRIVER CHEST Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 DRIVER CHEST Z, b01005AF.A12

Ymin = -6.99 G's @ 0.0891 Seconds, Ymax = 6.47 G's @ 0.0468 Seconds



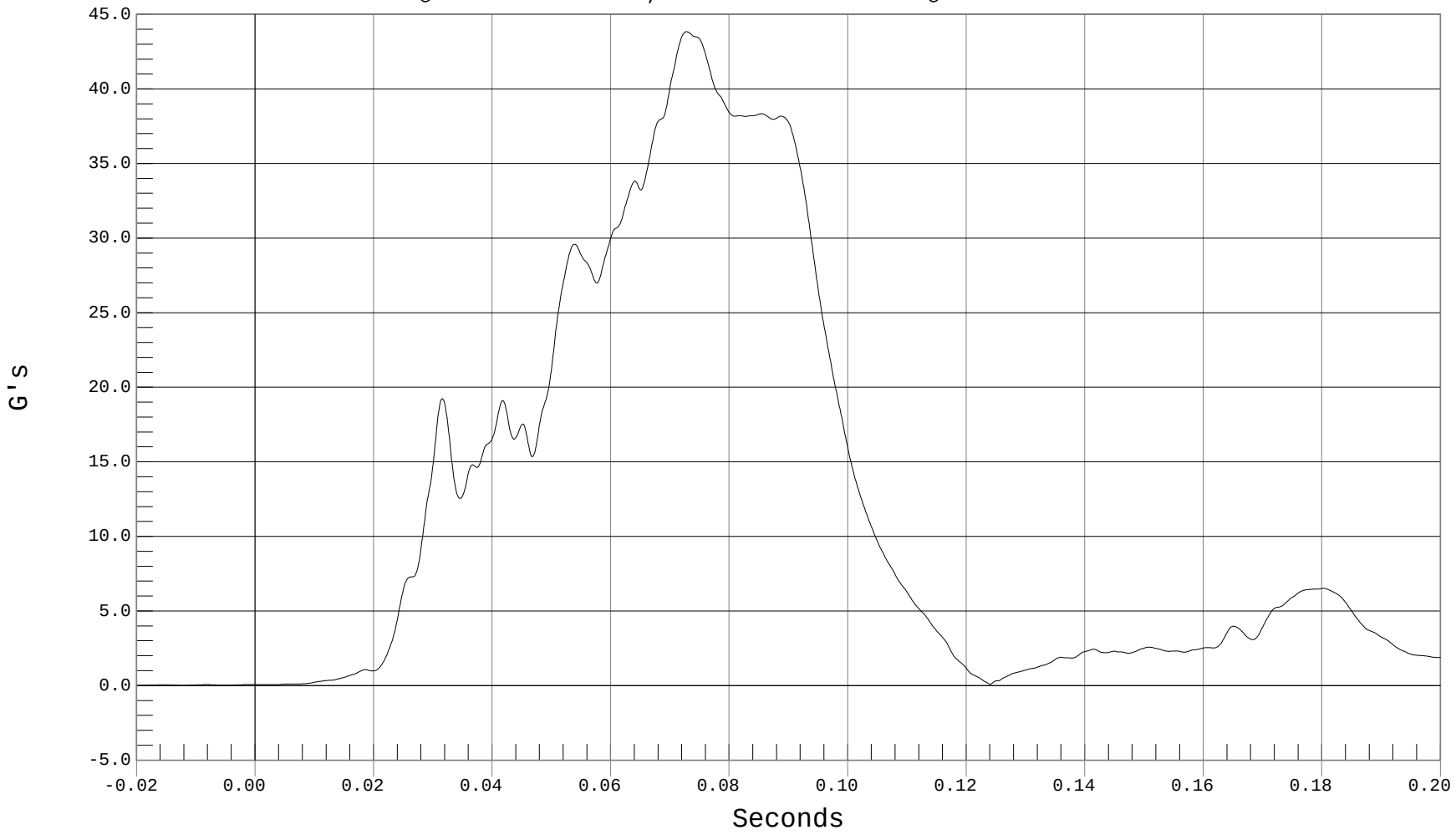
DRIVER CHEST RESULTANT ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 DRIVER CHEST RESULTANT ACCELERATION, b01005AV.A10

Ymin = .02 G's @ -0.0193 Seconds, Ymax = 43.84 G's @ 0.0728 Seconds



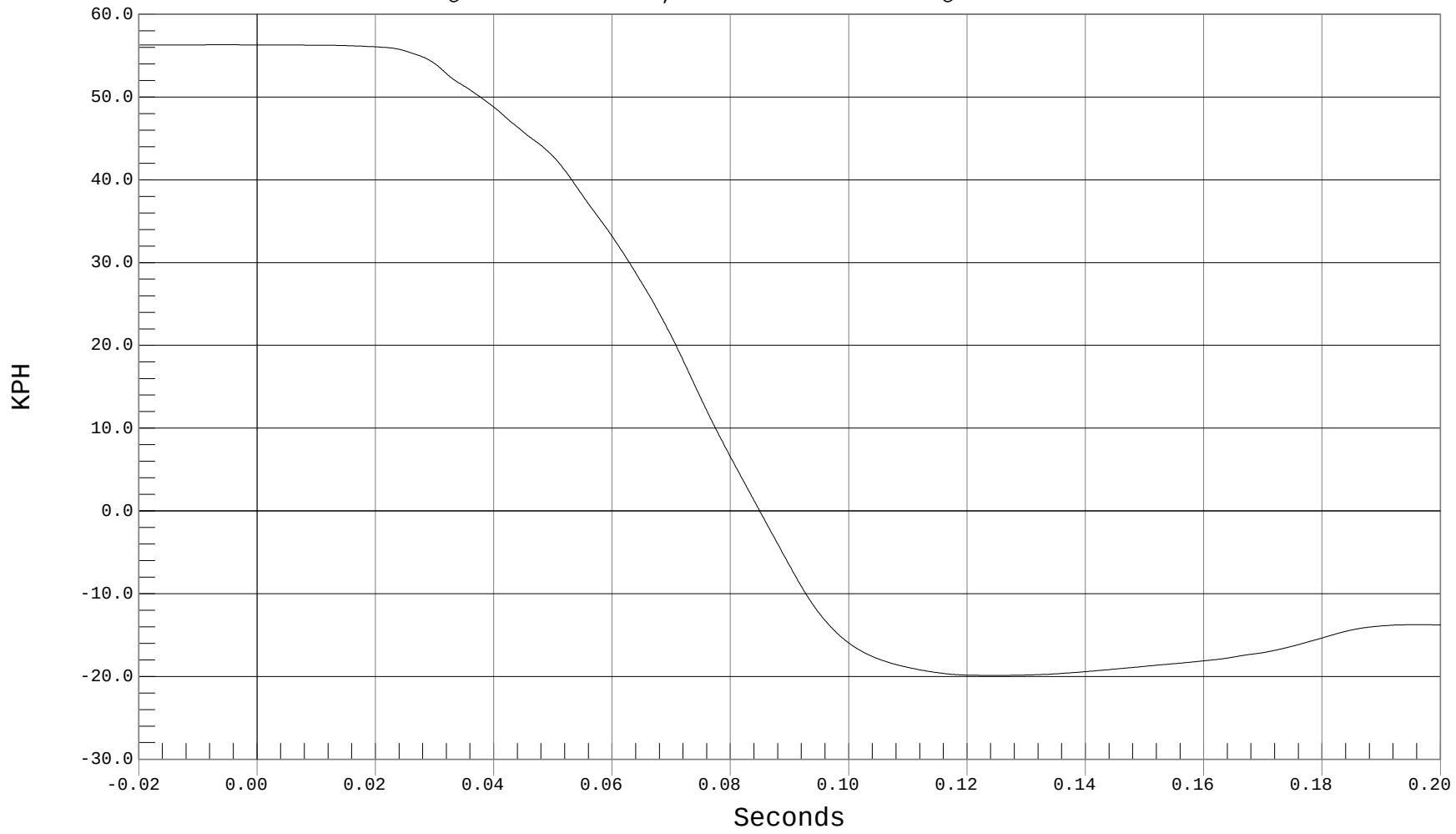
DRIVER CHEST X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 DRIVER CHEST X VELOCITY, b01005AI.V10

Ymin = -19.88 KPH @ 0.1243 Seconds, Ymax = 56.31 KPH @ -0.0058 Seconds



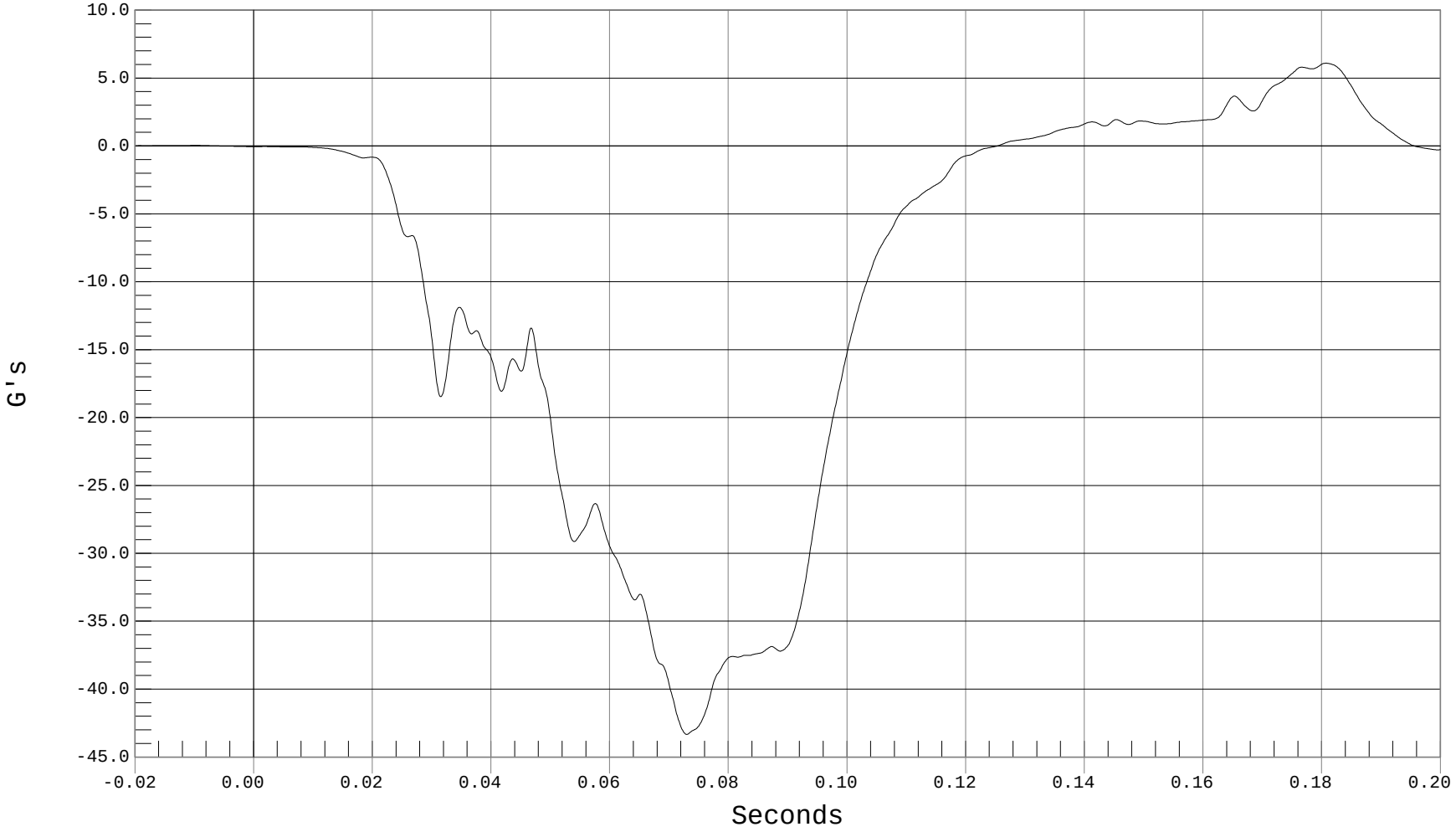
DRIVER CHEST REDUNDANT X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 DRIVER CHEST Xr, b01005AF.A36

Ymin = -43.33 G's @ 0.0730 Seconds, Ymax = 6.1 G's @ 0.1807 Seconds



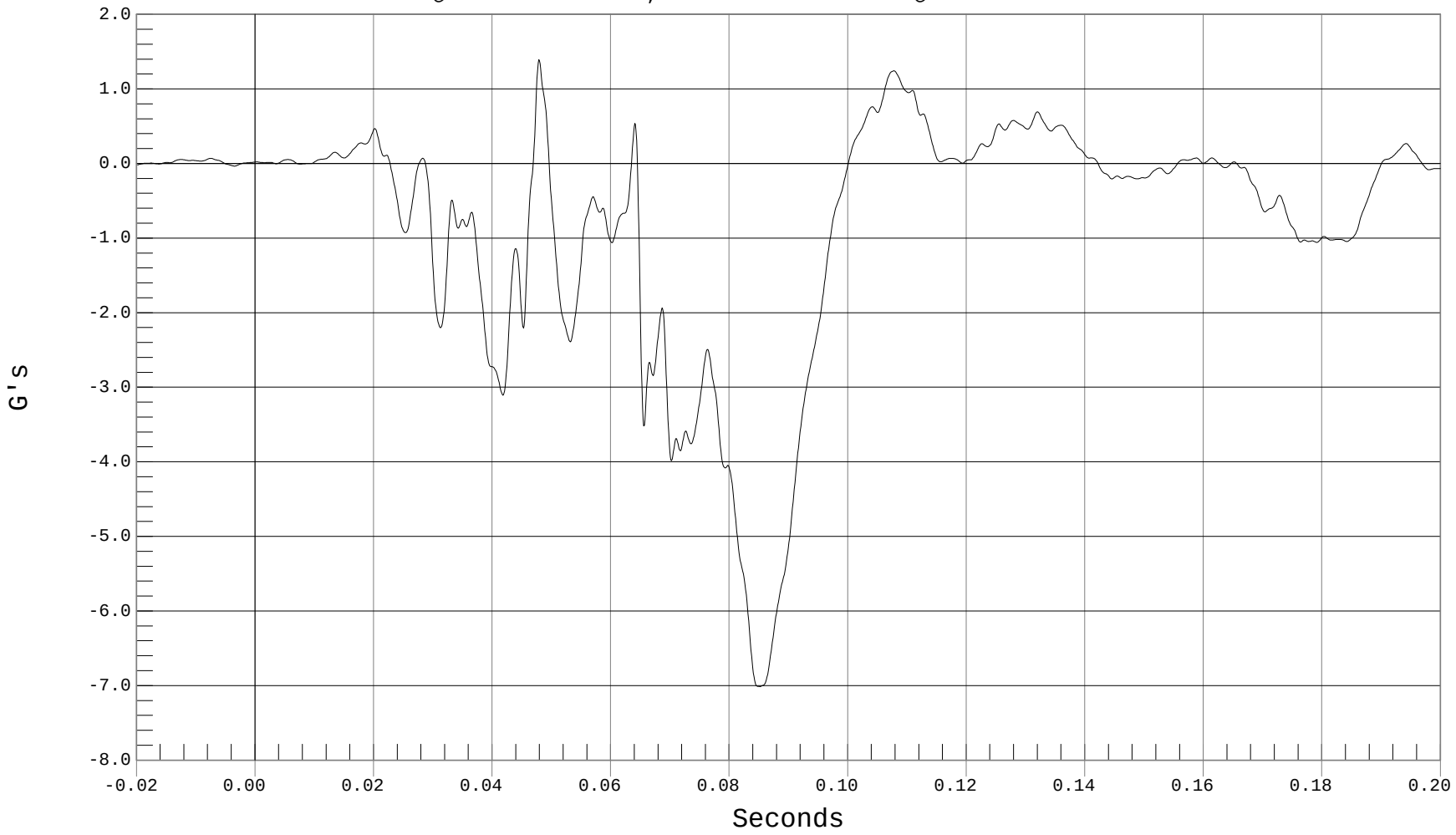
DRIVER CHEST REDUNDANT Y ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 DRIVER CHEST Yr, b01005AF.A37

Ymin = -7.01 G's @ 0.0852 Seconds, Ymax = 1.39 G's @ 0.0479 Seconds



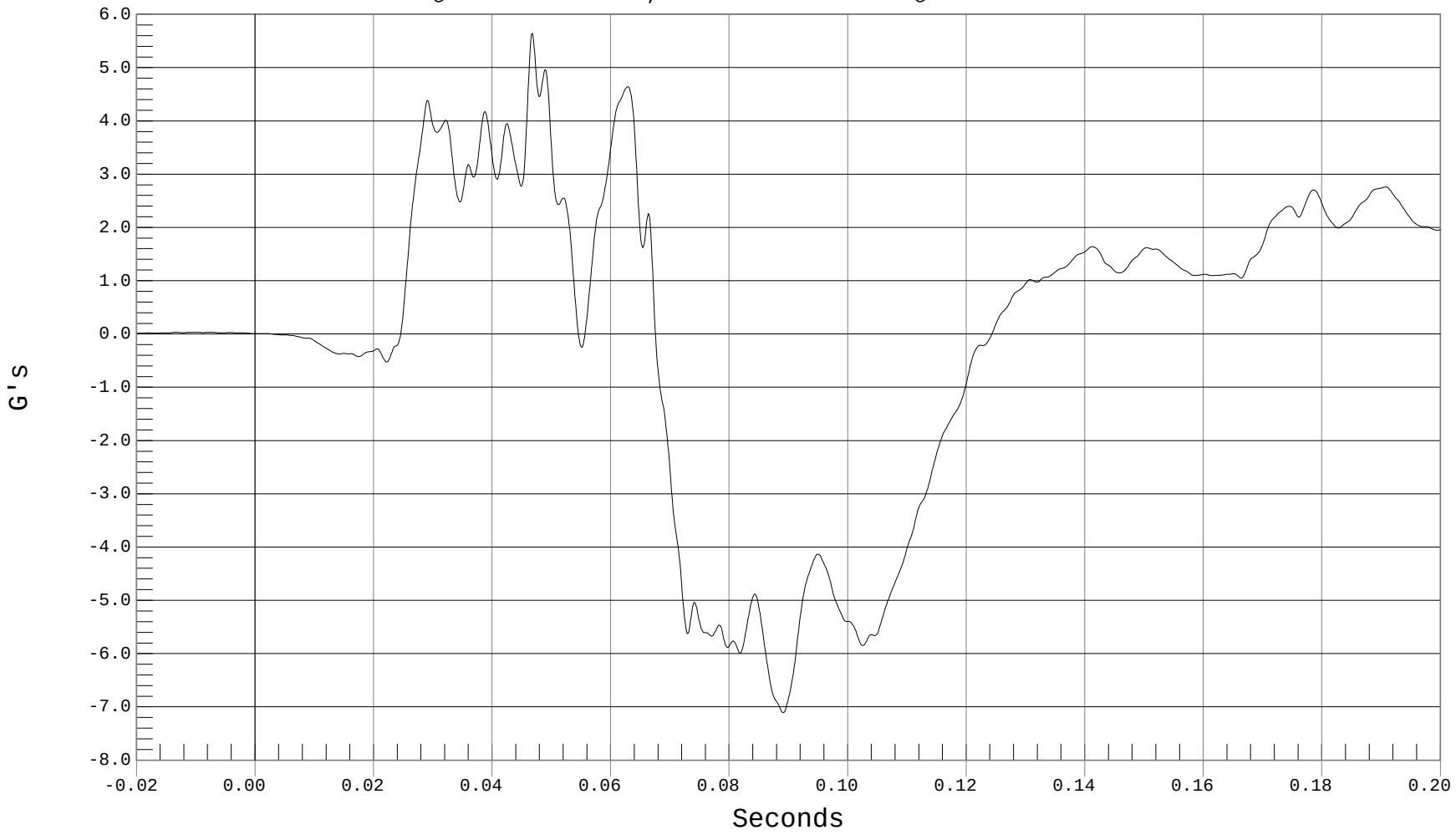
DRIVER CHEST REDUNDANT Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 DRIVER CHEST Zr, b01005AF.A38

Ymin = -7.11 G's @ 0.0891 Seconds, Ymax = 5.64 G's @ 0.0468 Seconds



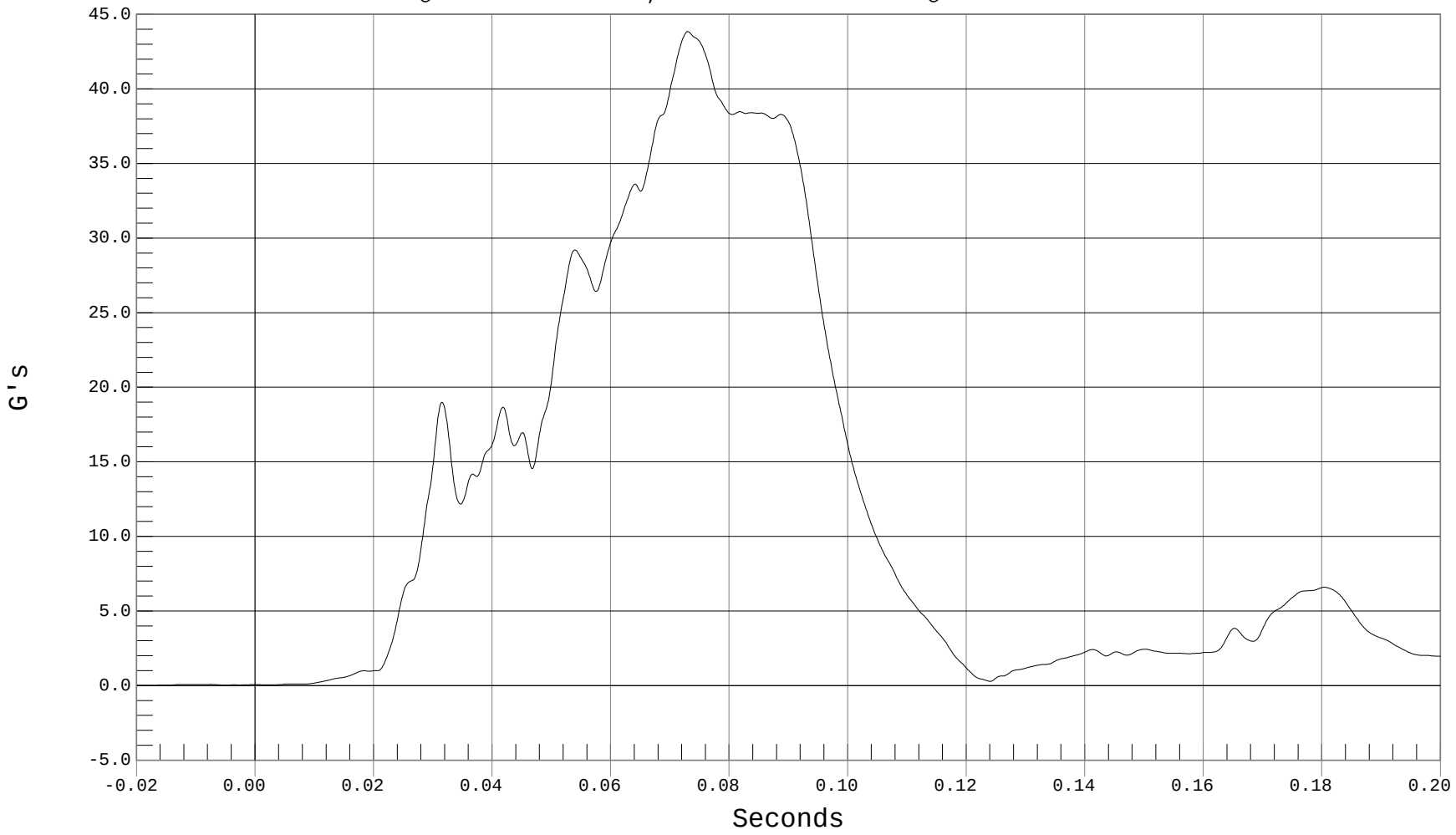
DRIVER CHEST REDUNDANT RESULTANT ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 DRIVER CHEST REDUNDANT RESULTANT ACCELERATION, b01005AV.A36

Ymin = .02 G's @ -0.0189 Seconds, Ymax = 43.85 G's @ 0.0730 Seconds



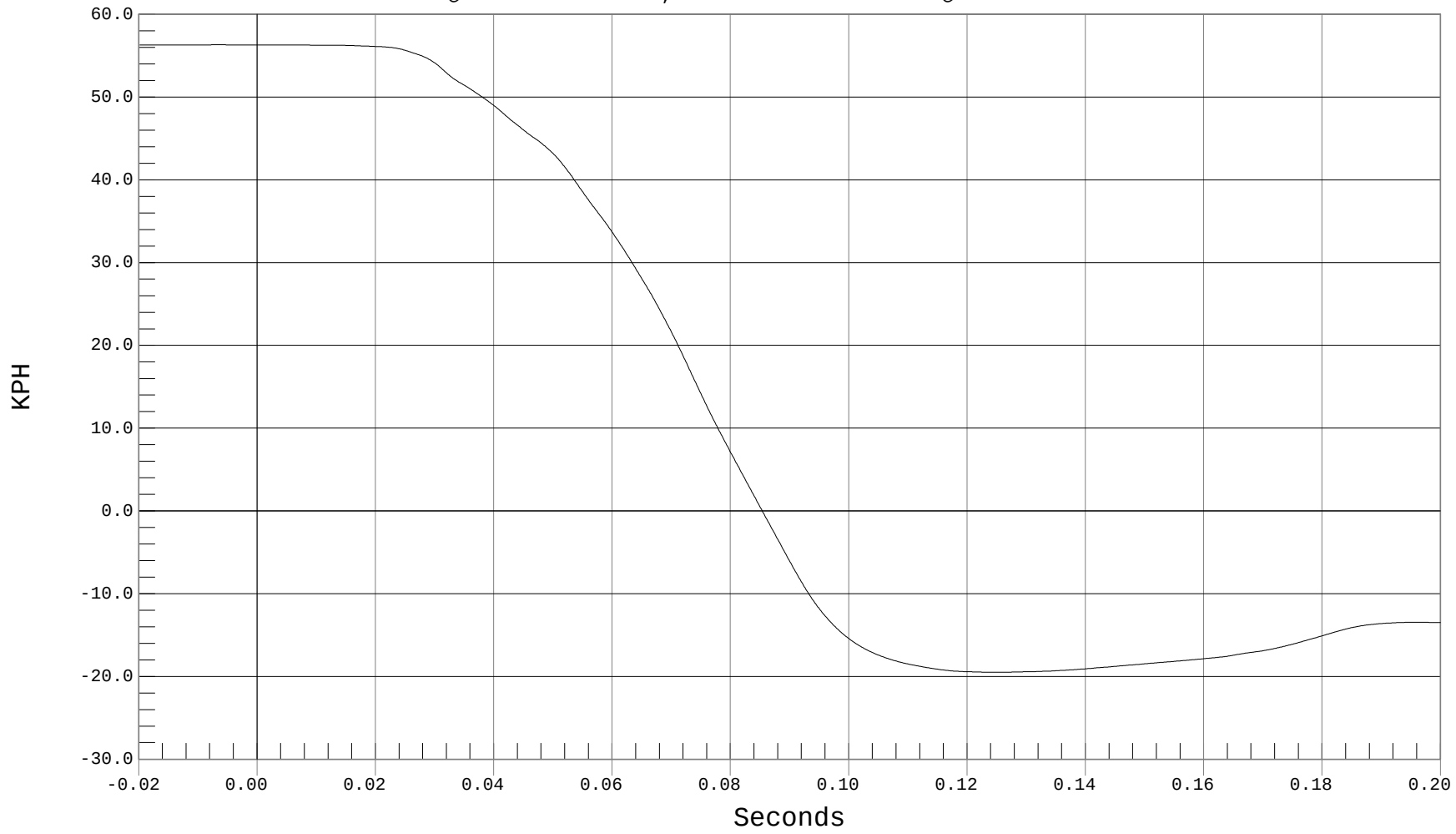
DRIVER CHEST REDUNDANT X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 DRIVER CHEST REDUNDANT X VELOCITY, b01005AI.V36

Ymin = -19.49 KPH @ 0.1254 Seconds, Ymax = 56.31 KPH @ -0.0070 Seconds



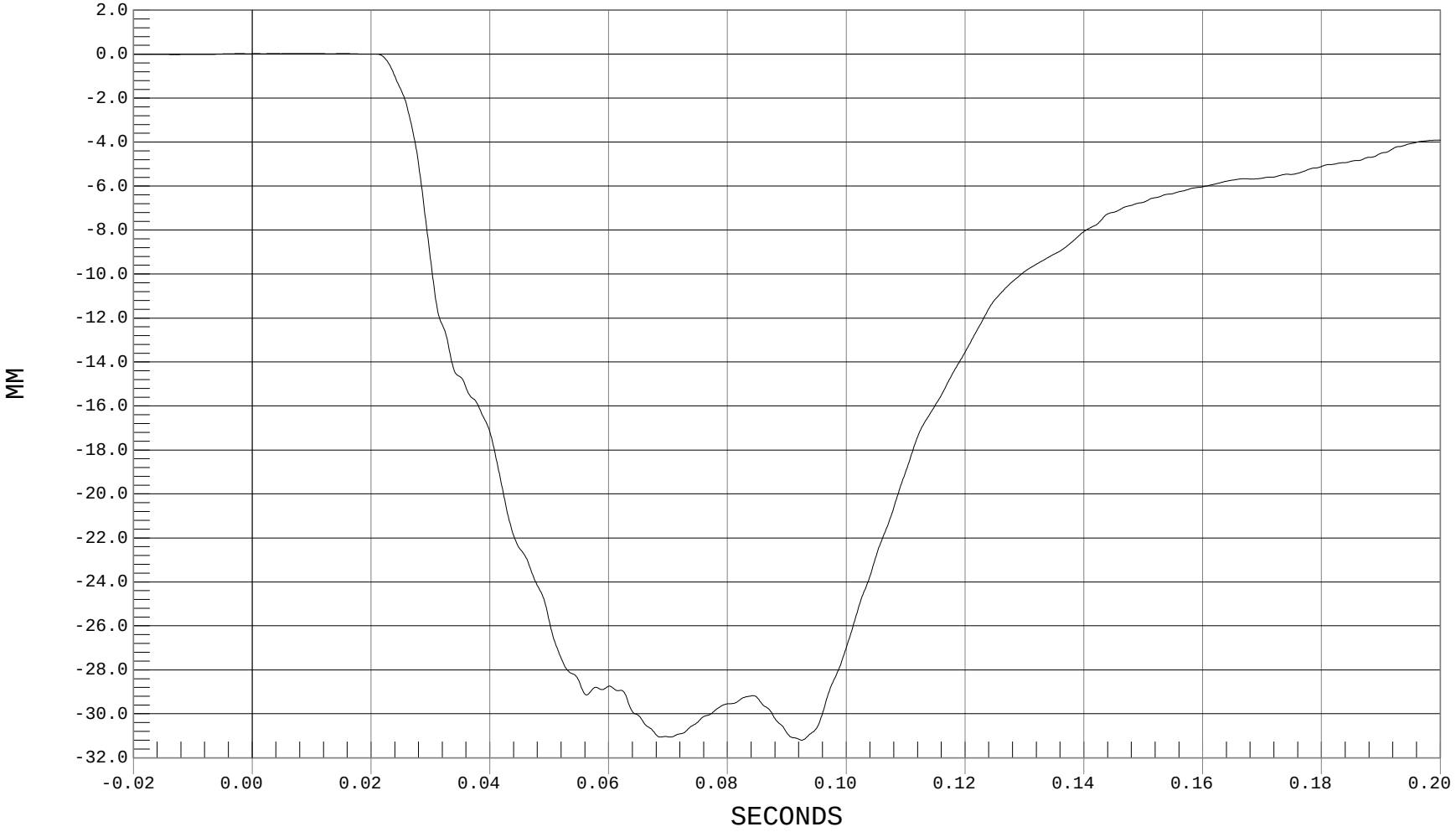
DRIVER CHEST COMPRESSION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 DRIVER CHEST DISPLACEMENT, b01005DF.D13

Ymin = -31.2 MM @ 0.0925 SECONDS, Ymax = .03 MM @ 0.0101 SECONDS



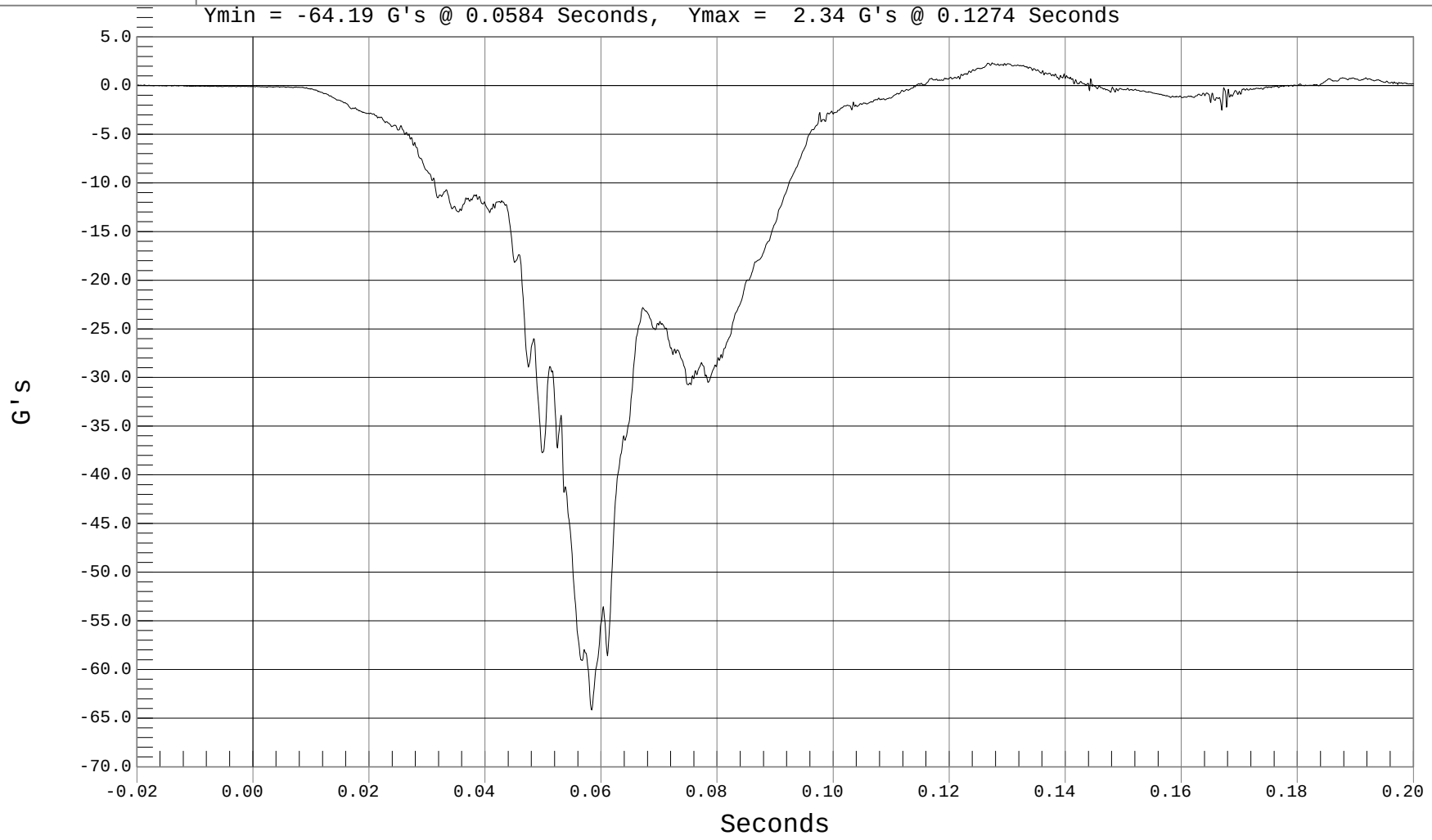
DRIVER PELVIS X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 DRIVER PELVIS X, b01005AT.A14

Ymin = -64.19 G's @ 0.0584 Seconds, Ymax = 2.34 G's @ 0.1274 Seconds



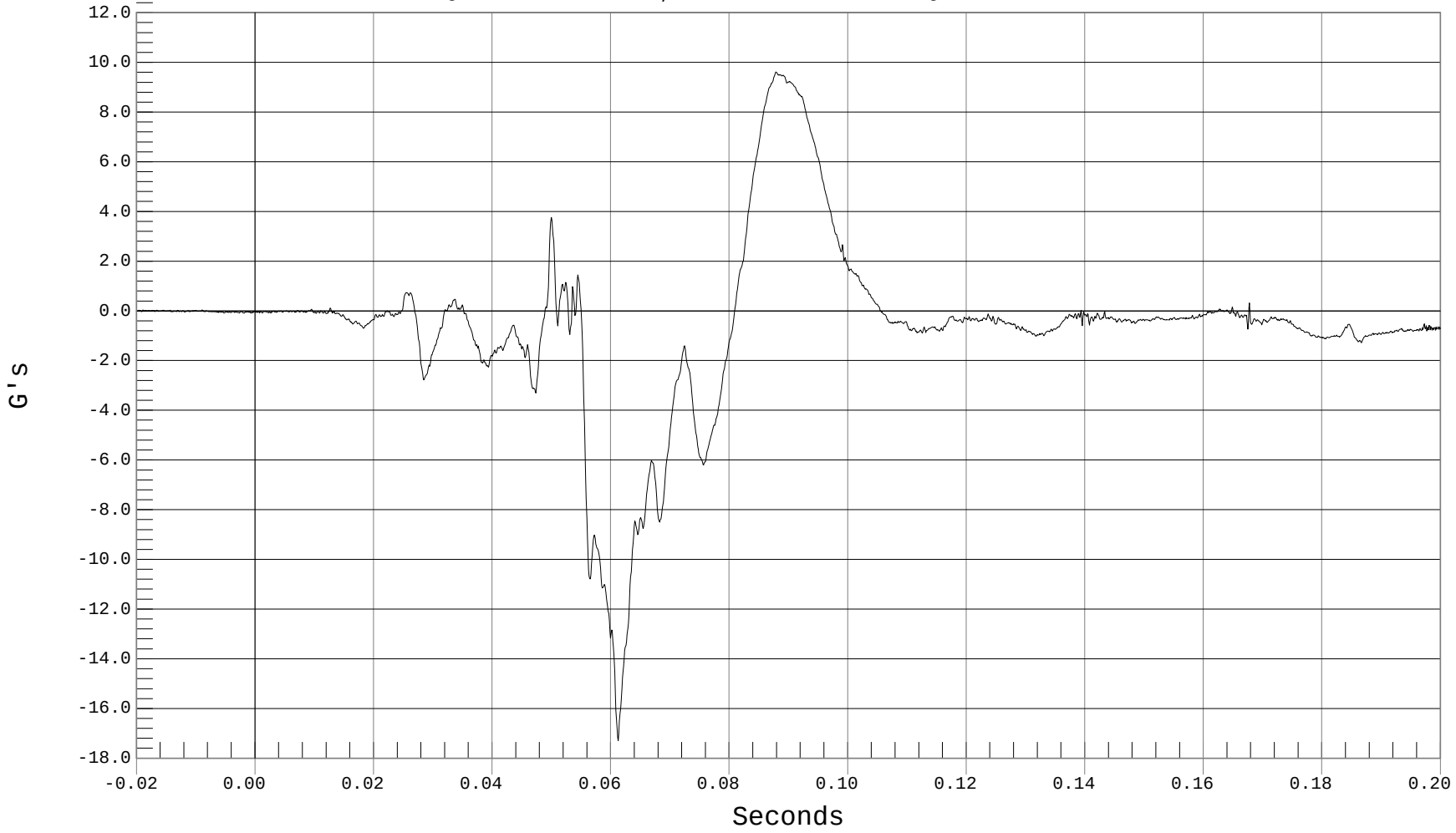
DRIVER PELVIS Y ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 DRIVER PELVIS Y, b01005AT.A15

Ymin = -17.29 G's @ 0.0613 Seconds, Ymax = 9.61 G's @ 0.0879 Seconds



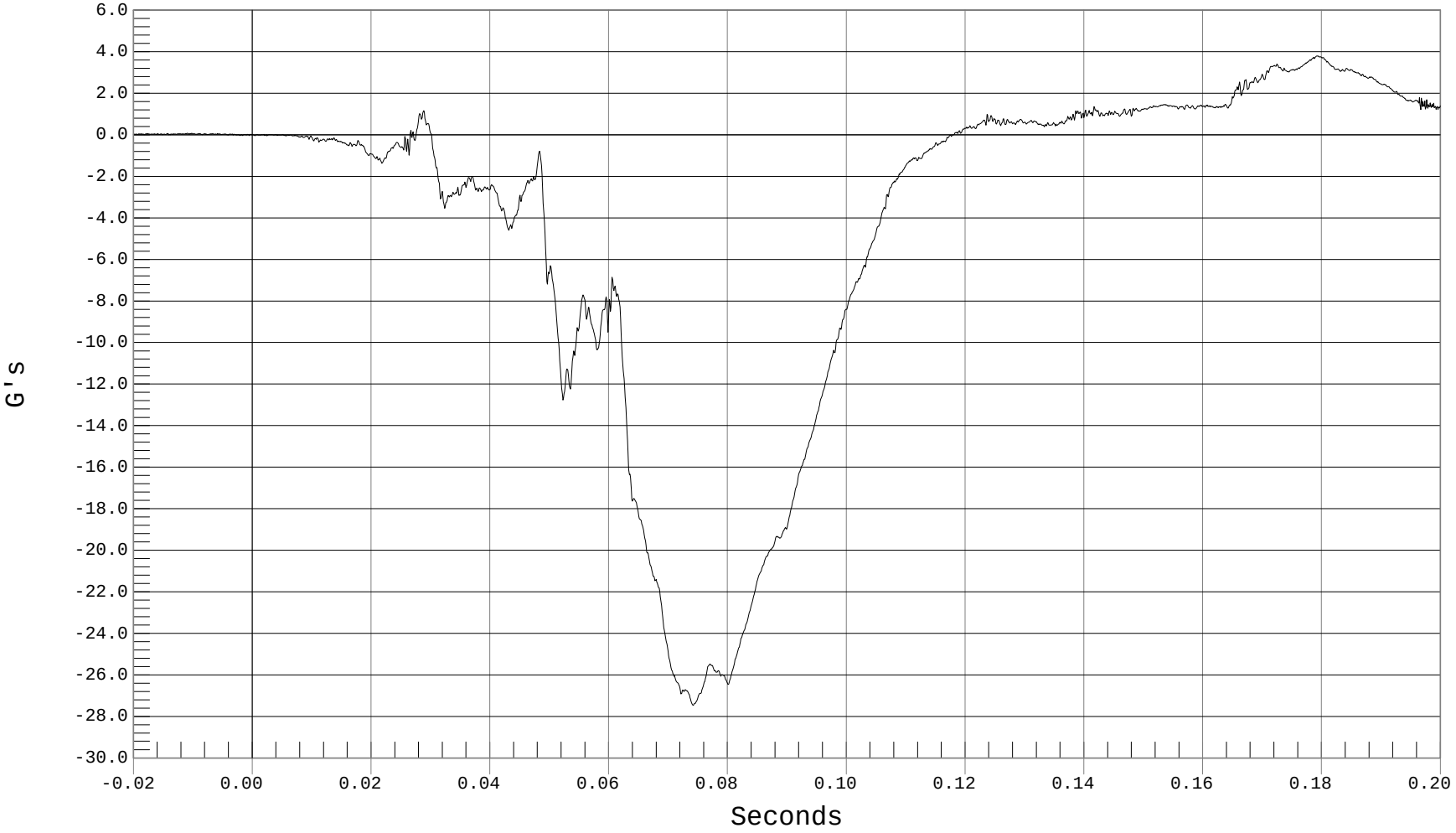
DRIVER PELVIS Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 DRIVER PELVIS Z, b01005AT.A16

Ymin = -27.47 G's @ 0.0742 Seconds, Ymax = 3.8 G's @ 0.1793 Seconds



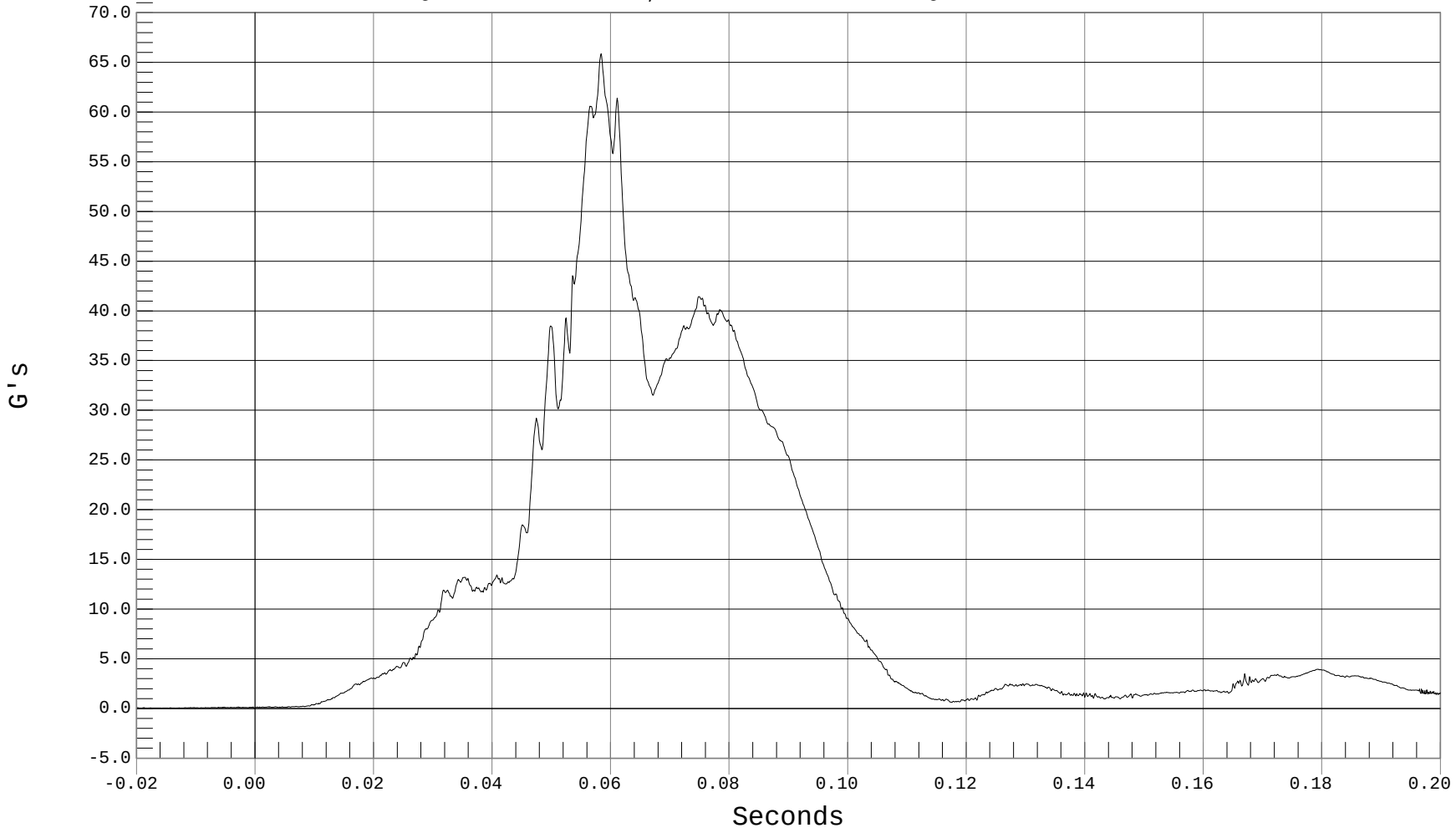
DRIVER PELVIS RESULTANT ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 DRIVER PELVIS RESULTANT ACCELERATION, b01005AV.A14

Ymin = .02 G's @ -0.0182 Seconds, Ymax = 65.85 G's @ 0.0584 Seconds



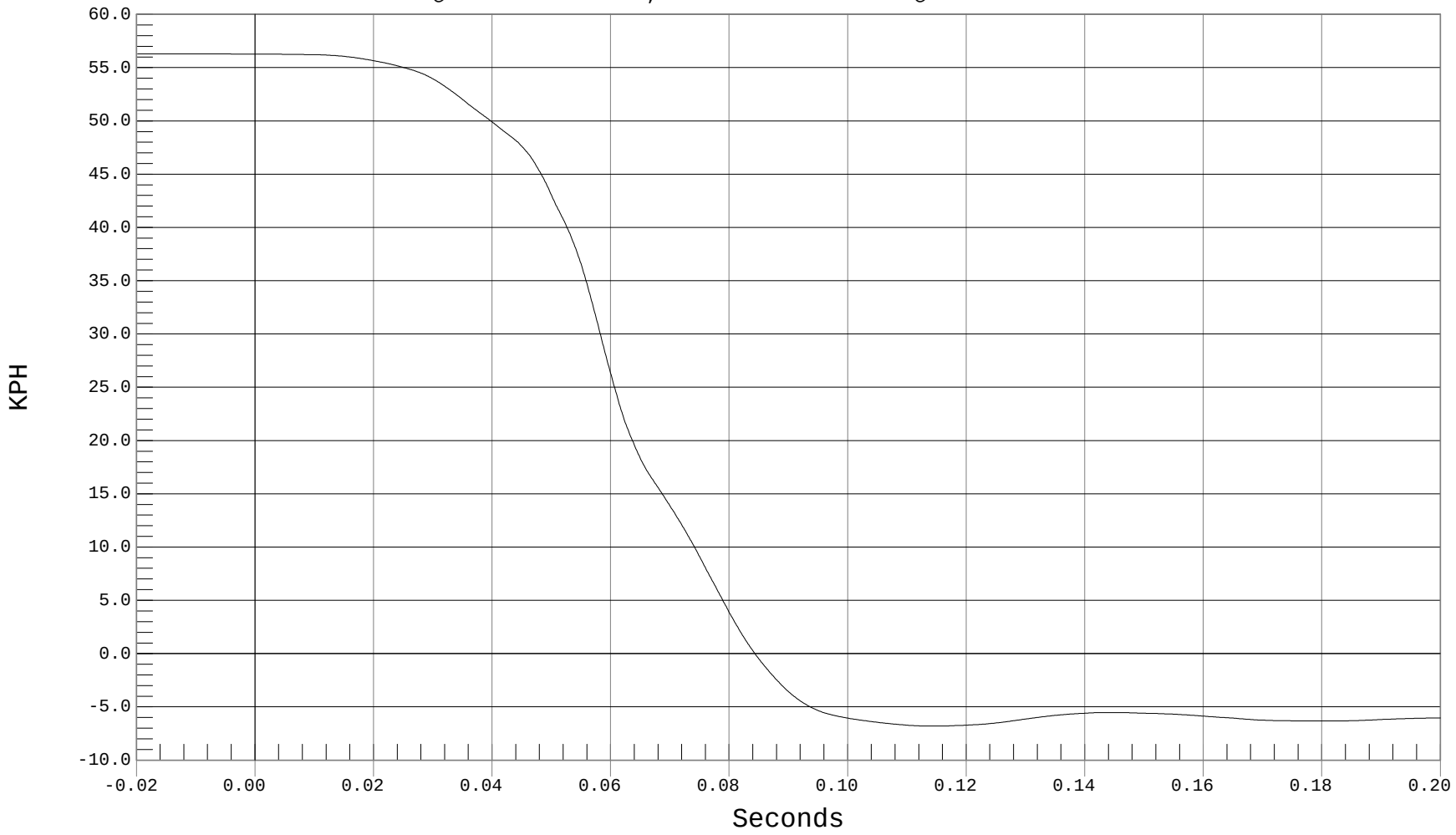
DRIVER PELVIS X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 DRIVER PELVIS X VELOCITY, b01005AI.V14

Ymin = -6.81 KPH @ 0.1143 Seconds, Ymax = 56.3 KPH @ -0.0175 Seconds



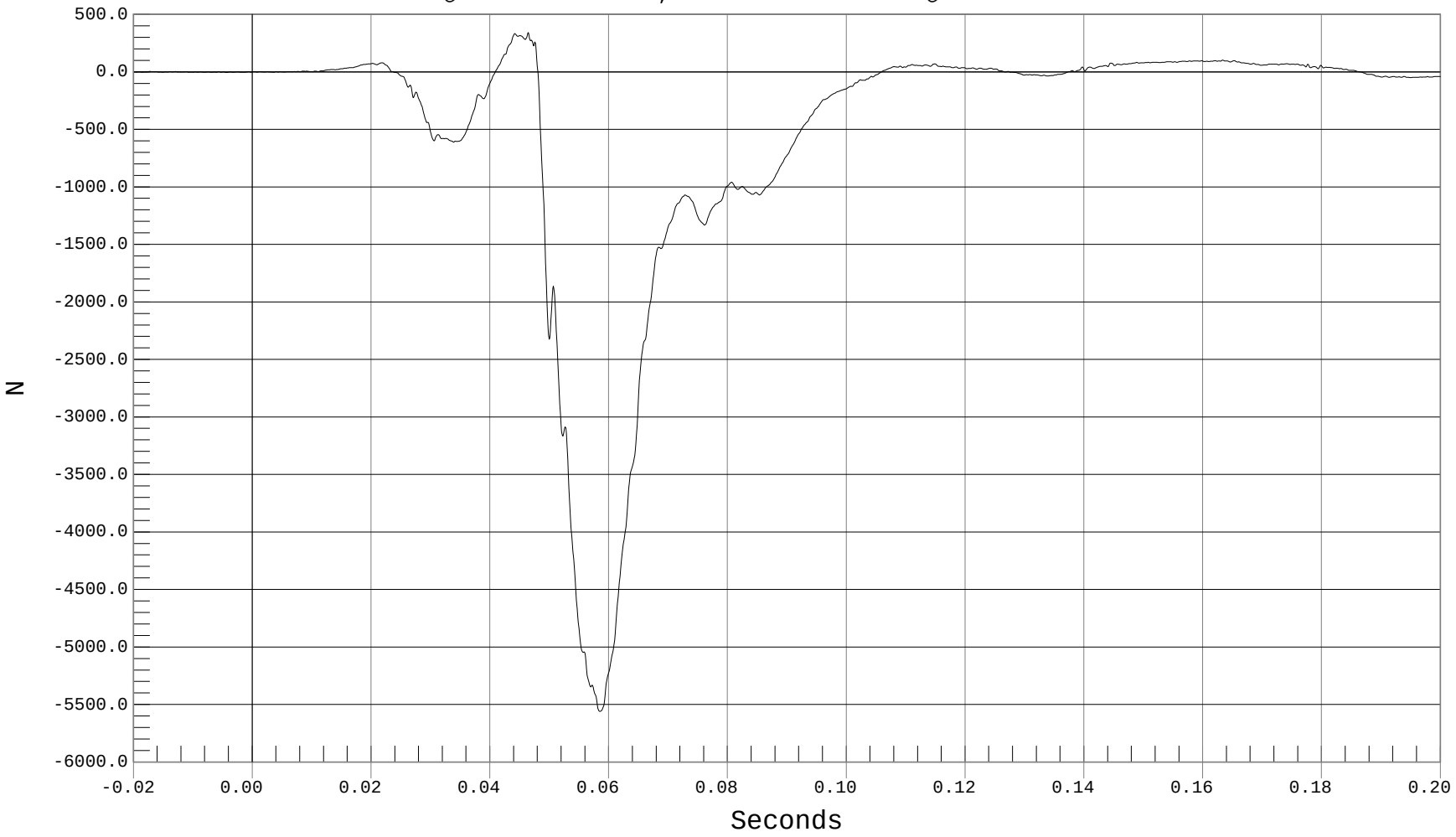
DRIVER LEFT FEMUR FORCE

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 DRIVER LEFT FEMUR, b01005FF.F18

Ymin = -5560.77 N @ 0.0586 Seconds, Ymax = 342.78 N @ 0.0465 Seconds



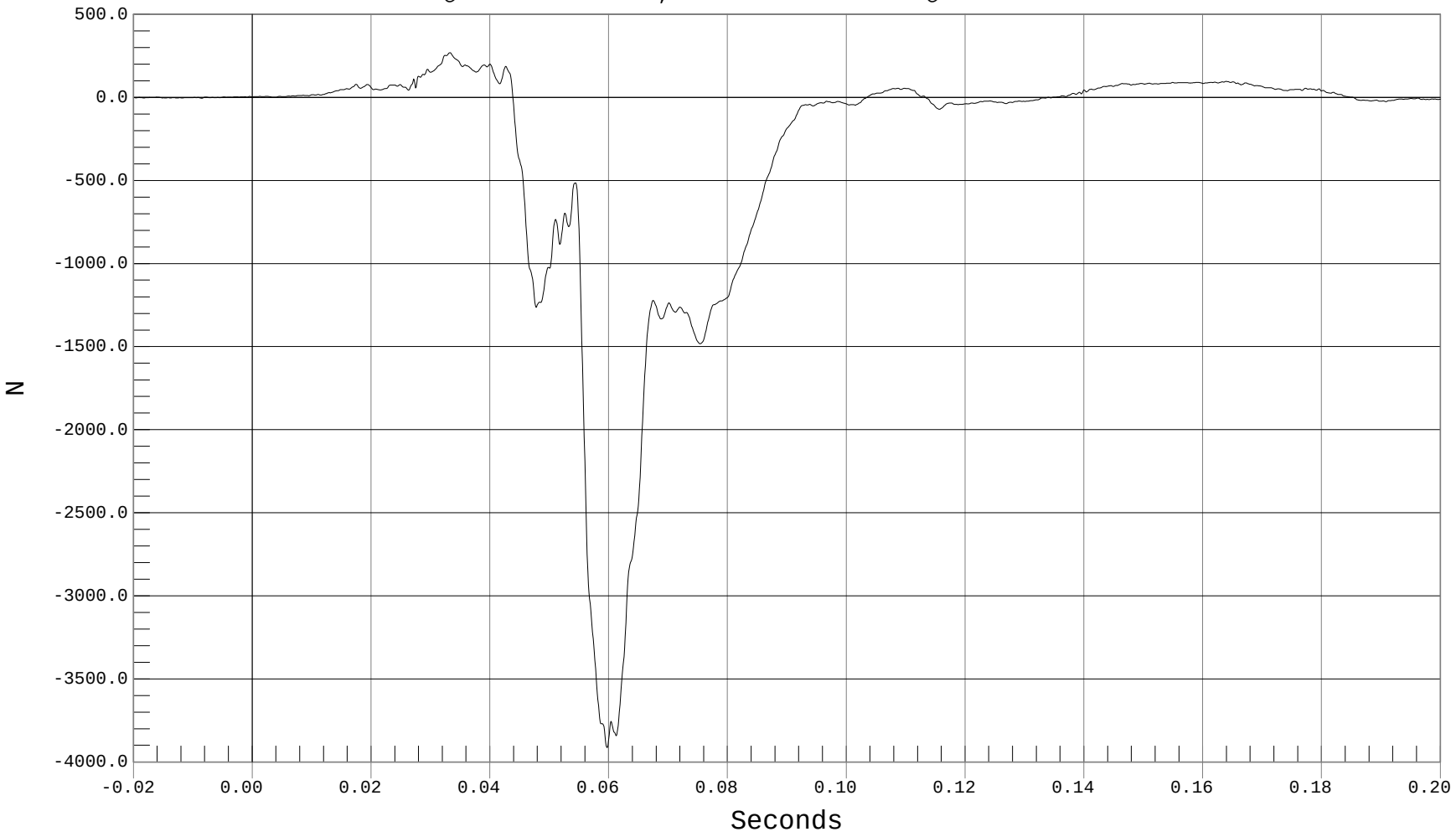
DRIVER RIGHT FEMUR FORCE

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 DRIVER RIGHT FEMUR, b01005FF.F17

Ymin = -3913.09 N @ 0.0597 Seconds, Ymax = 269.63 N @ 0.0333 Seconds



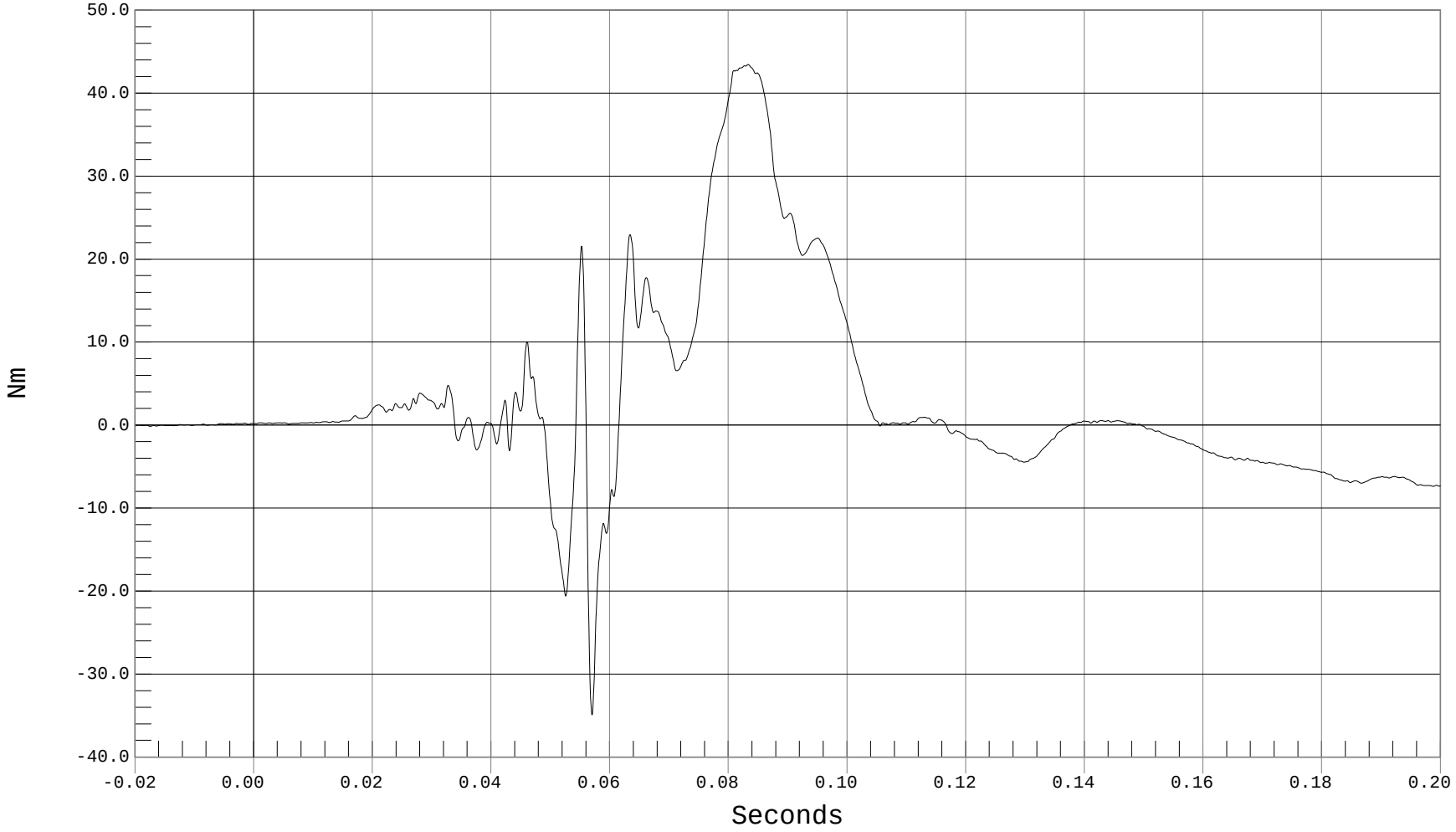
DRIVER LEFT UPPER TIBIA MOMENT X

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 DRIVER LEFT UPPER TIBIA MX, b01005MF.M75

Ymin = -34.9 Nm @ 0.0570 Seconds, Ymax = 43.46 Nm @ 0.0833 Seconds



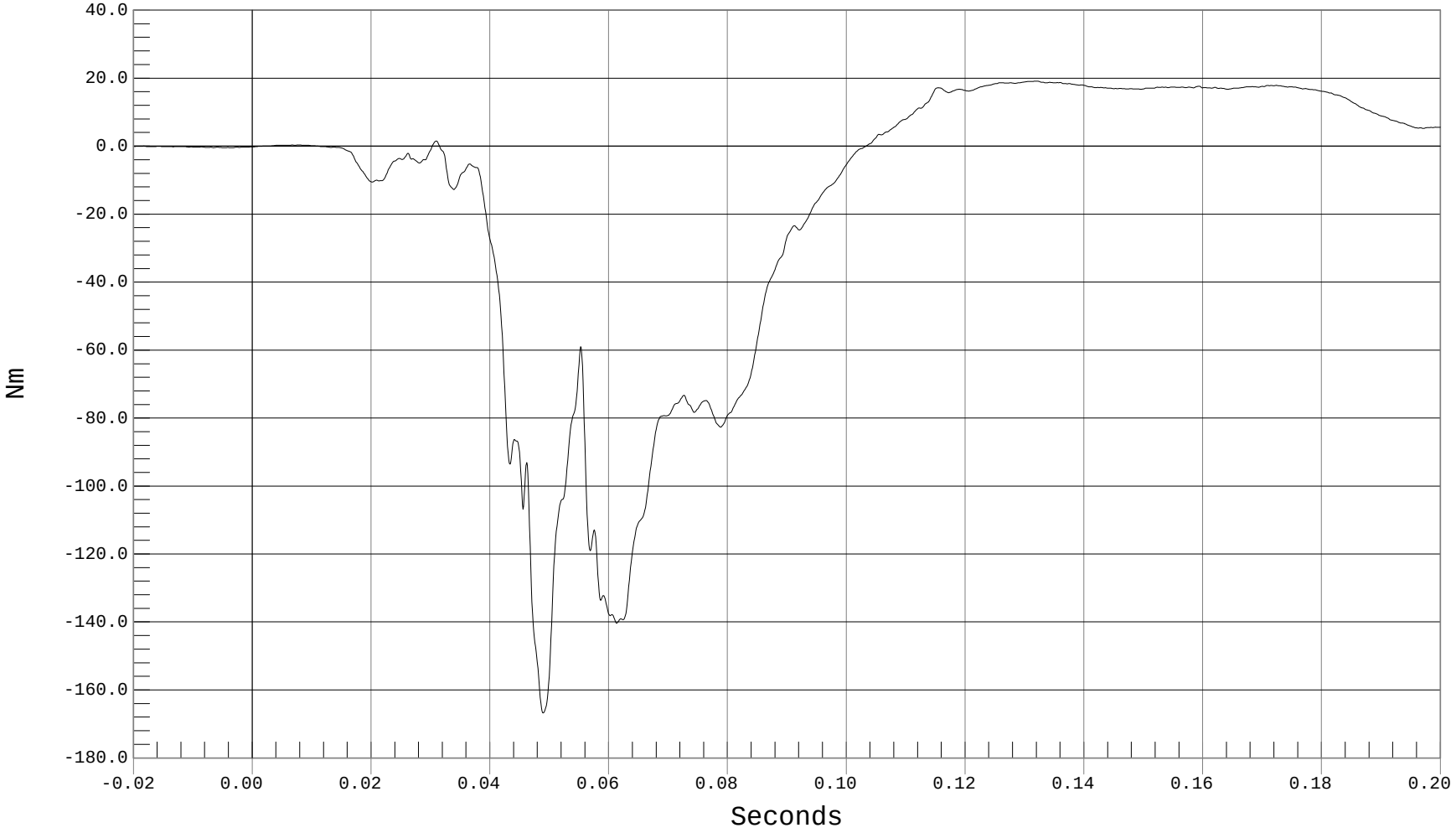
DRIVER LEFT UPPER TIBIA MOMENT Y

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 DRIVER LEFT UPPER TIBIA MY, b01005MF.M76

Ymin = -166.75 Nm @ 0.0490 Seconds, Ymax = 19.14 Nm @ 0.1320 Seconds



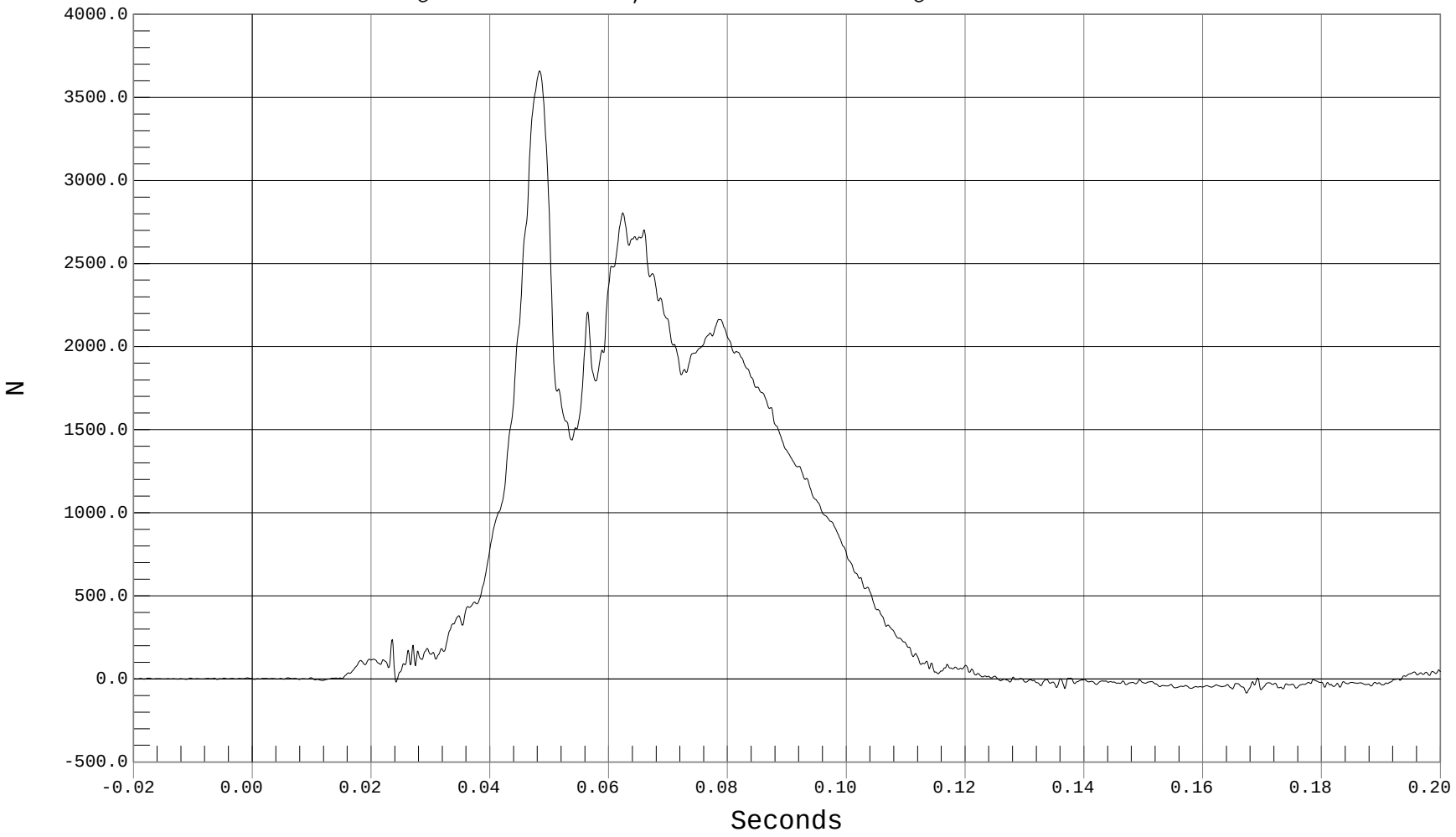
DRIVER LEFT UPPER TIBIA FORCE Z

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 DRIVER LEFT UPPER TIBIA FZ, b01005FF.F77

Ymin = -85.85 N @ 0.1674 Seconds, Ymax = 3659.66 N @ 0.0484 Seconds



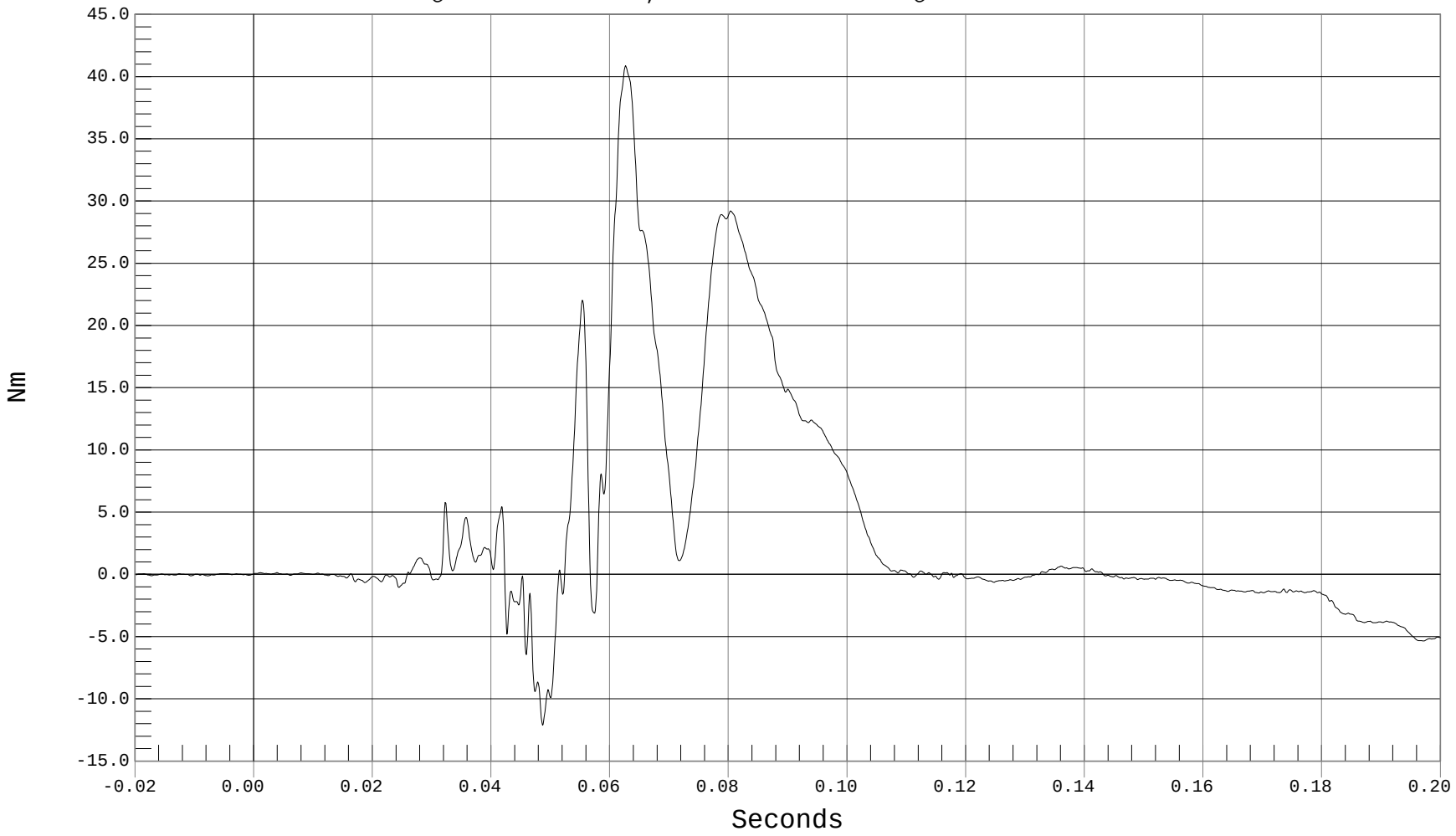
DRIVER LEFT LOWER TIBIA MOMENT X

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 DRIVER LEFT LOWER TIBIA MX, b01005MF.M78

Ymin = -12.12 Nm @ 0.0487 Seconds, Ymax = 40.88 Nm @ 0.0627 Seconds



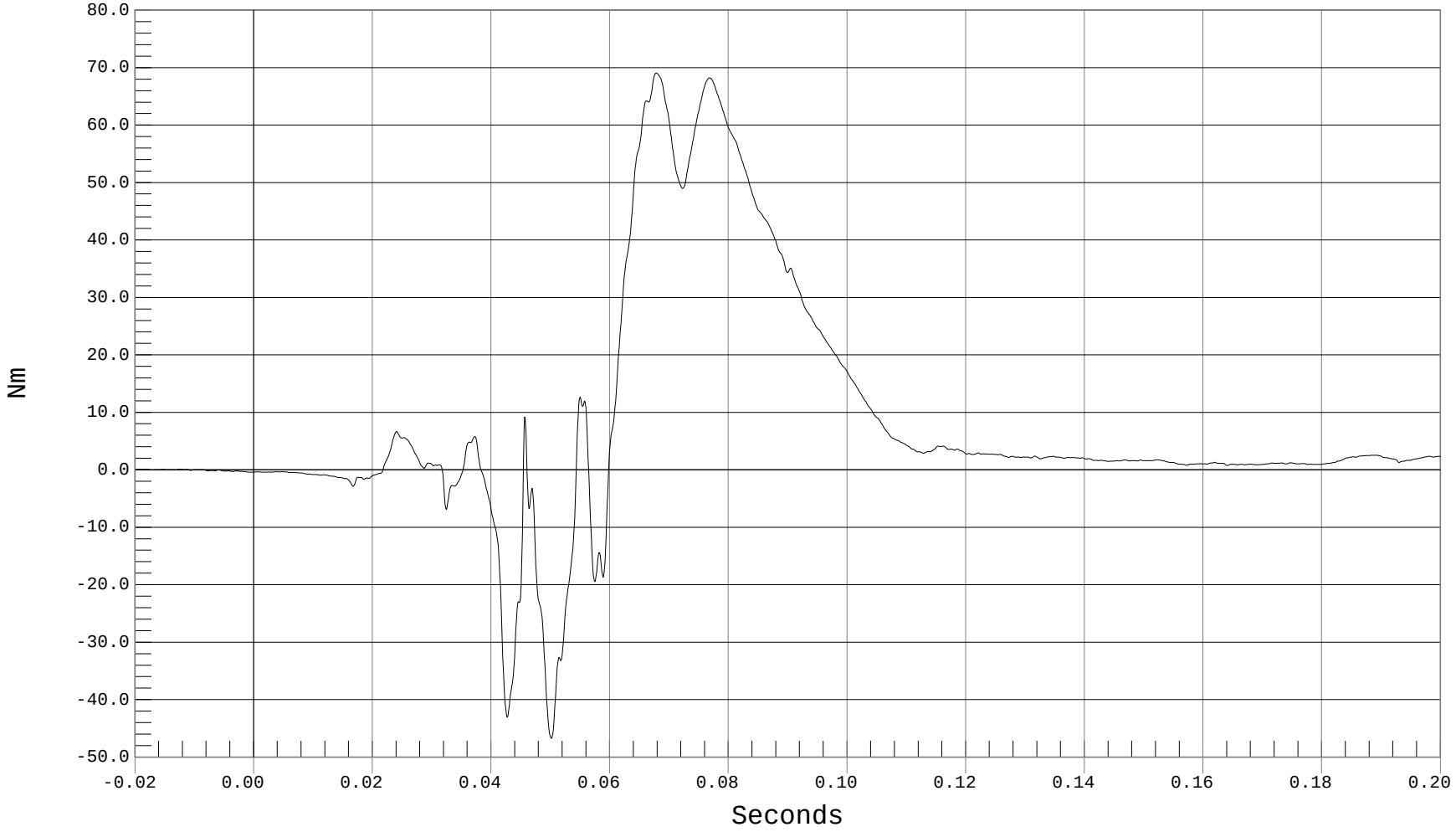
DRIVER LEFT LOWER TIBIA MOMENT Y

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 DRIVER LEFT LOWER TIBIA MY, b01005MF.M79

Ymin = -46.74 Nm @ 0.0502 Seconds, Ymax = 69.05 Nm @ 0.0678 Seconds



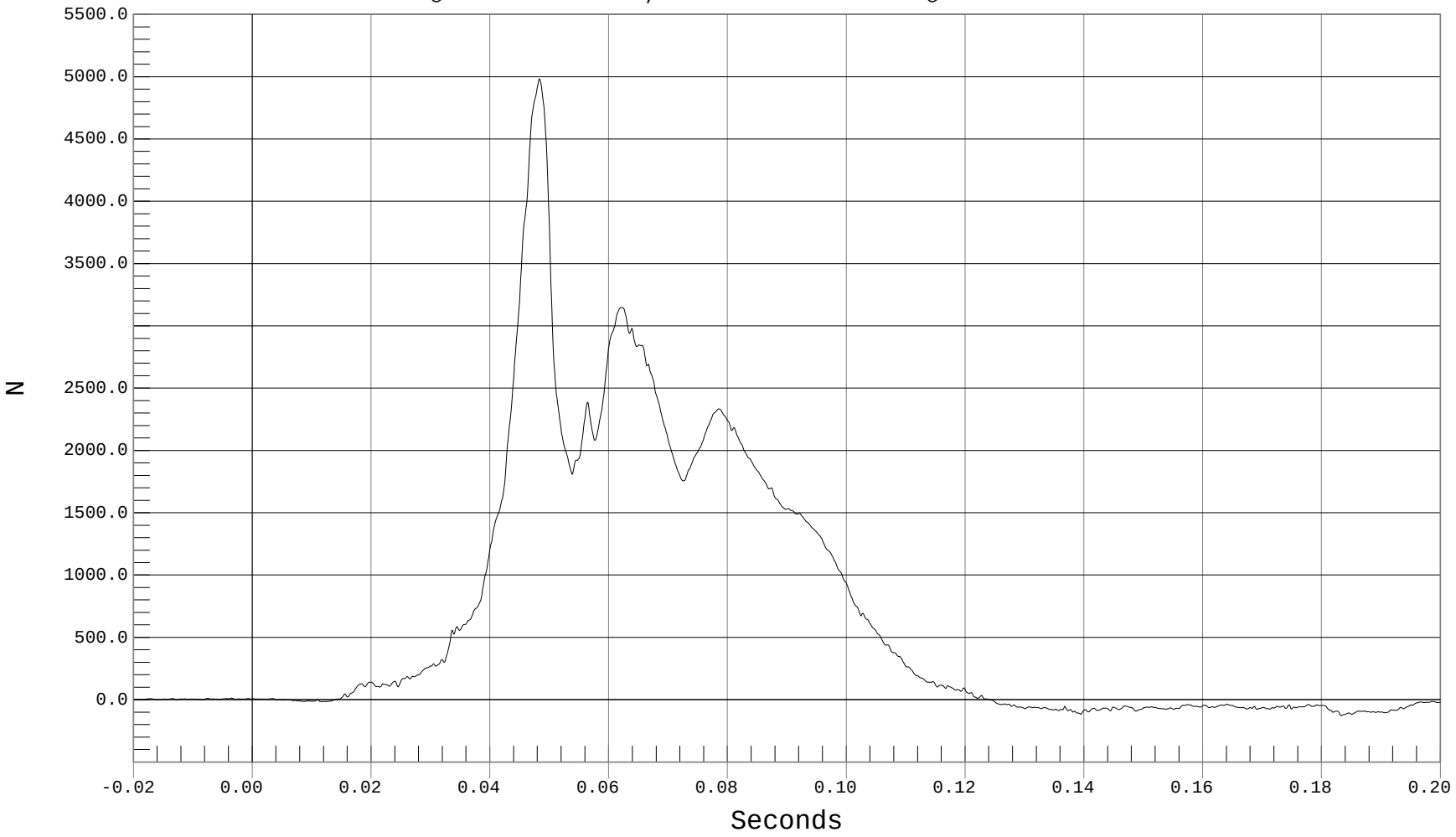
DRIVER LEFT LOWER TIBIA FORCE Z

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 DRIVER LEFT LOWER TIBIA FZ, b01005FF.F80

Ymin = -128.78 N @ 0.1833 Seconds, Ymax = 4982.08 N @ 0.0484 Seconds



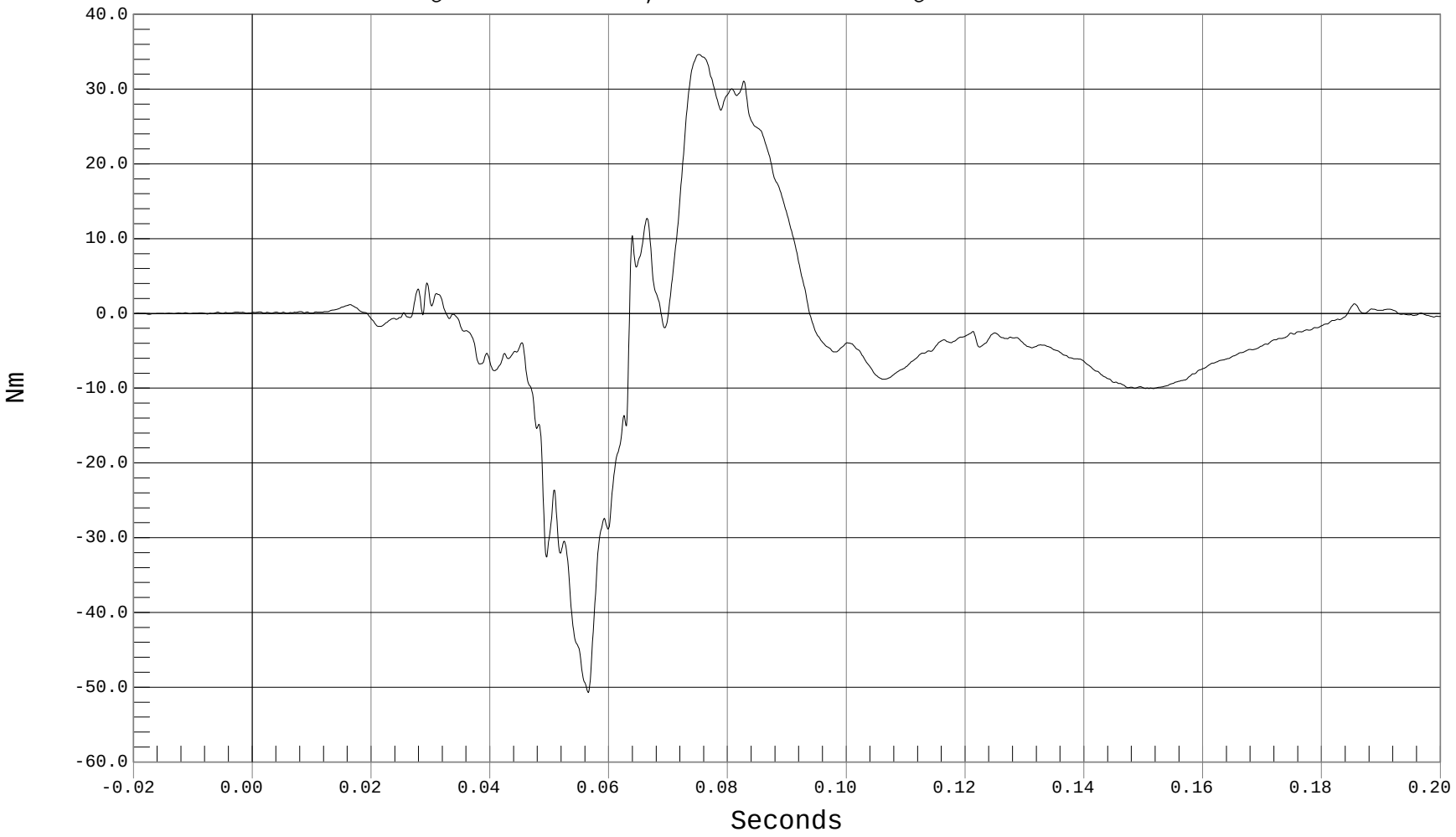
DRIVER RIGHT UPPER TIBIA MOMENT X

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 DRIVER RIGHT UPPER TIBIA MX, b01005MF.M69

Ymin = -50.72 Nm @ 0.0566 Seconds, Ymax = 34.64 Nm @ 0.0752 Seconds



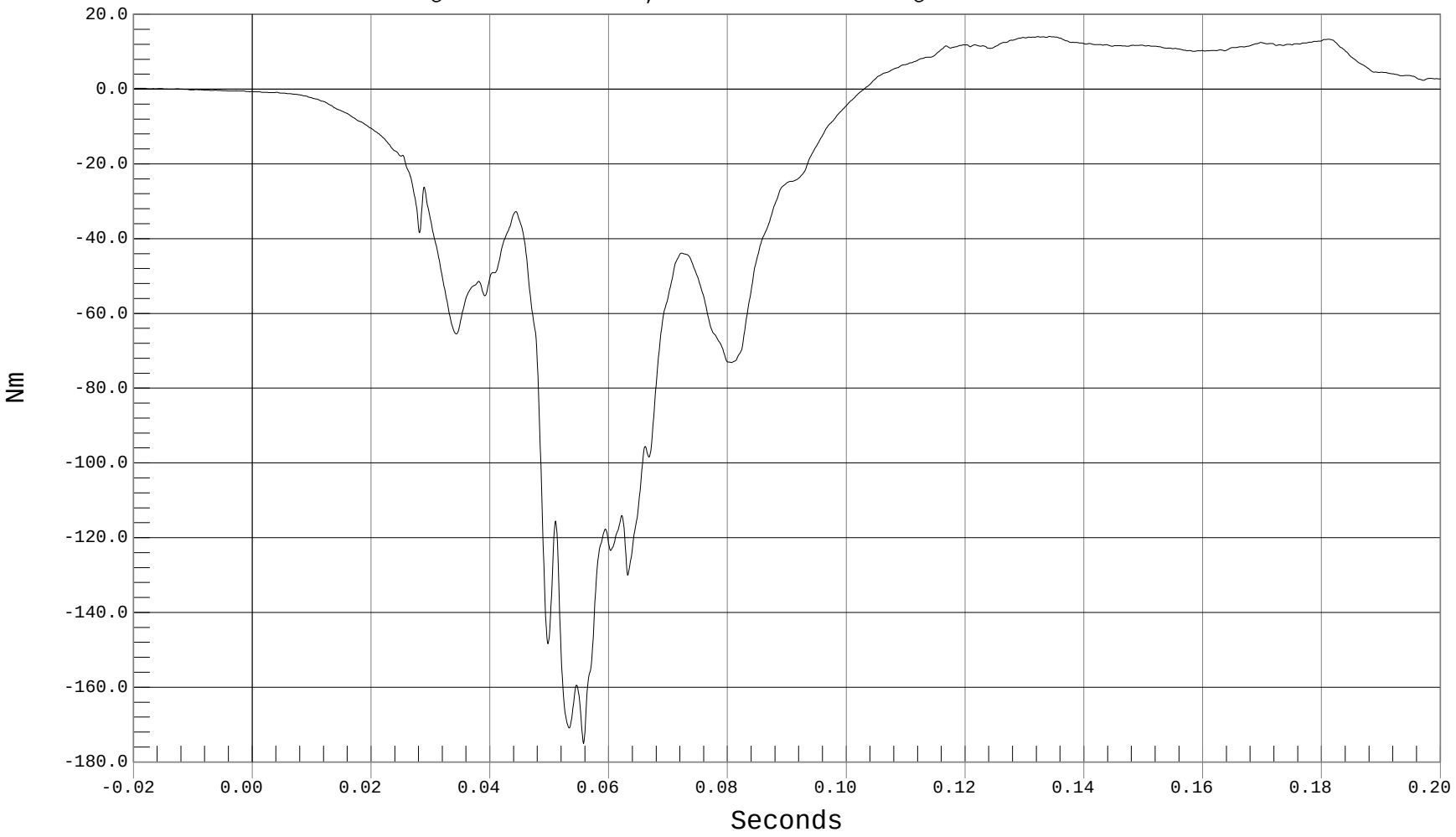
DRIVER RIGHT UPPER TIBIA MOMENT Y

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 DRIVER RIGHT UPPER TIBIA MY, b01005MF.M70

Ymin = -175.1 Nm @ 0.0558 Seconds, Ymax = 14.11 Nm @ 0.1342 Seconds



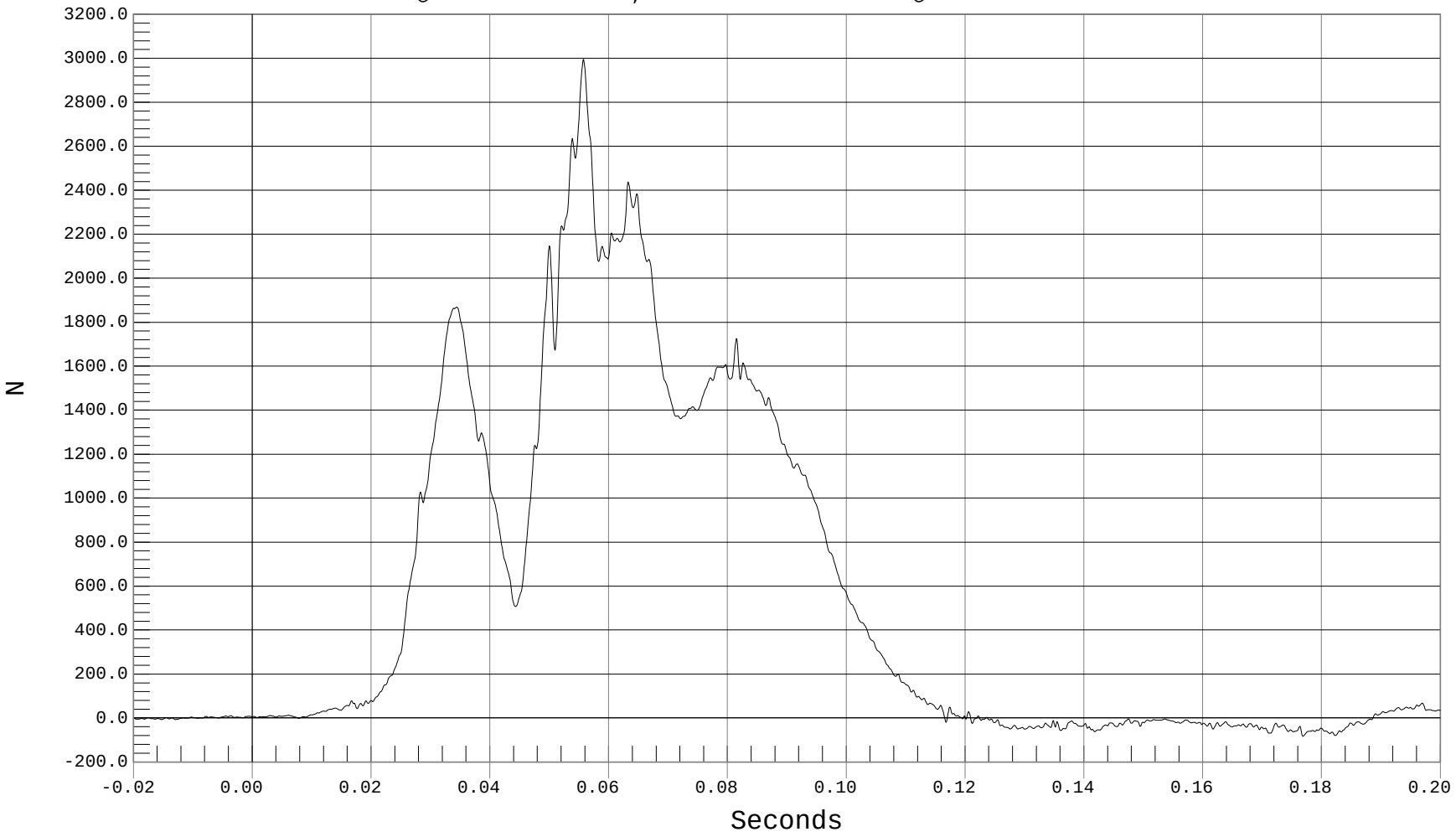
DRIVER RIGHT UPPER TIBIA FORCE Z

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 DRIVER RIGHT UPPER TIBIA FZ, b01005FF.F71

Ymin = -83.02 N @ 0.1769 Seconds, Ymax = 2995.47 N @ 0.0558 Seconds



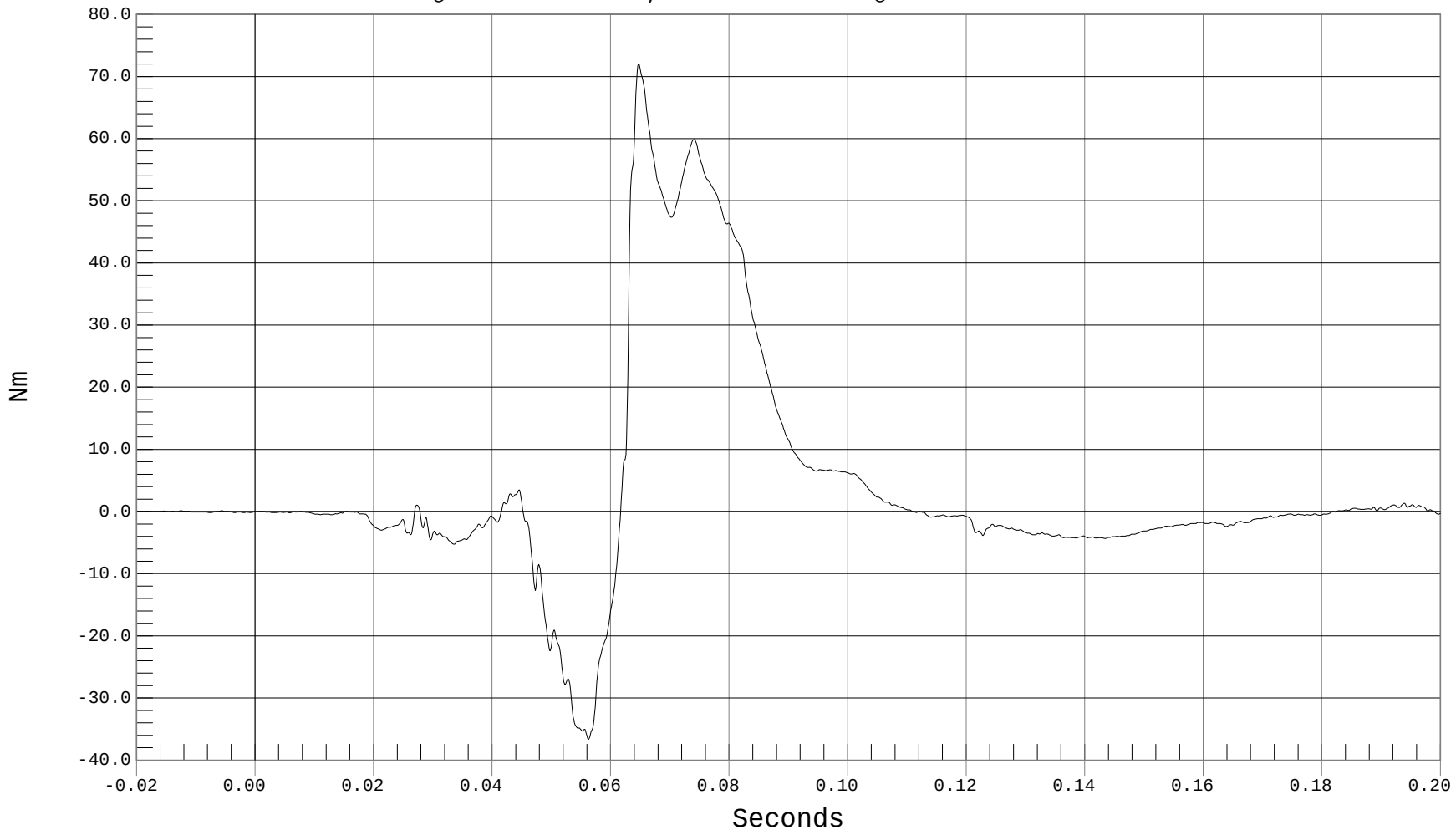
DRIVER RIGHT LOWER TIBIA MOMENT X

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 DRIVER RIGHT LOWER TIBIA MX, b01005MF.M72

Ymin = -36.67 Nm @ 0.0563 Seconds, Ymax = 72 Nm @ 0.0647 Seconds



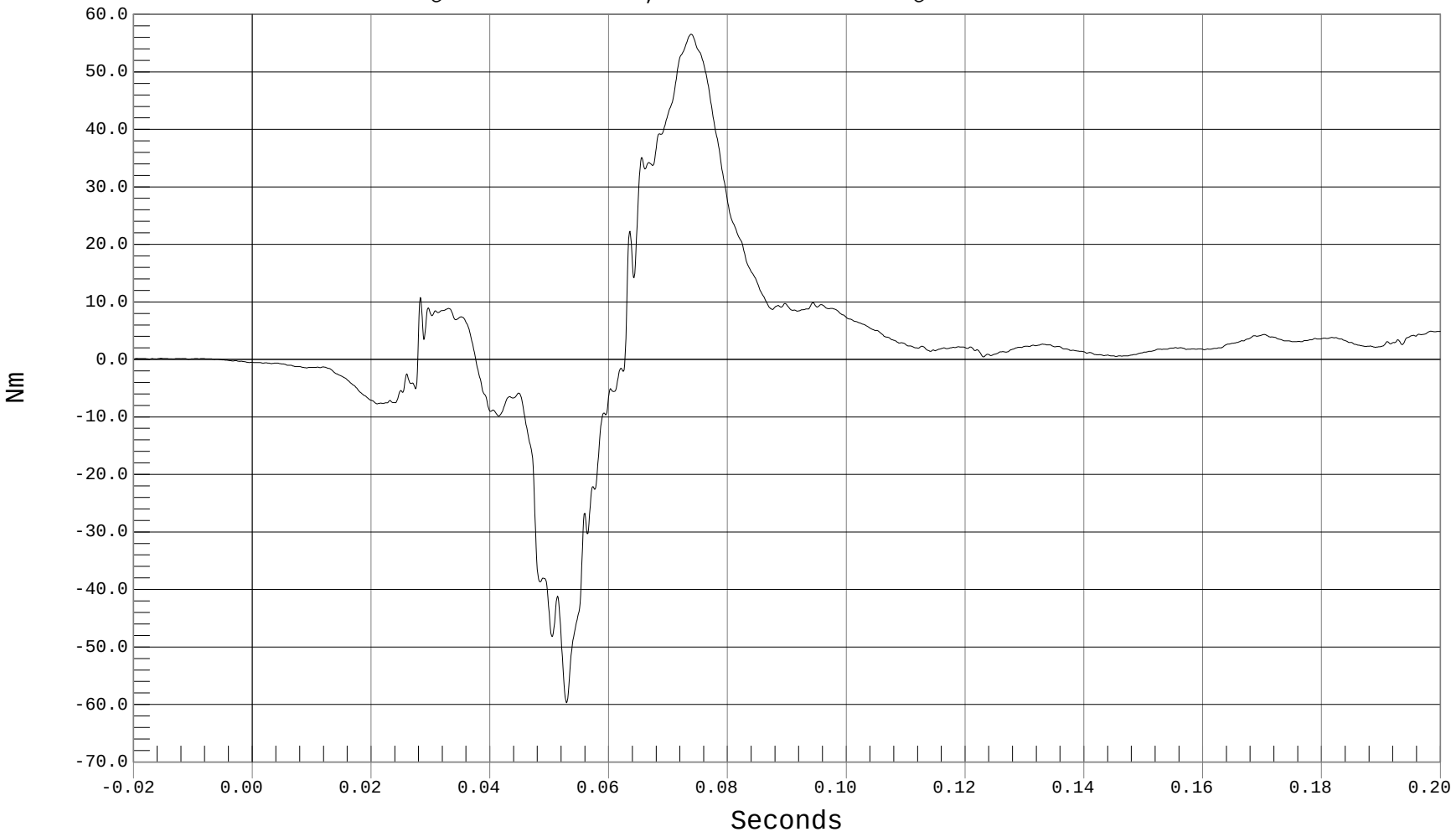
DRIVER RIGHT LOWER TIBIA MOMENT Y

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 DRIVER RIGHT LOWER TIBIA MY, b01005MF.M73

Ymin = -59.73 Nm @ 0.0529 Seconds, Ymax = 56.54 Nm @ 0.0739 Seconds



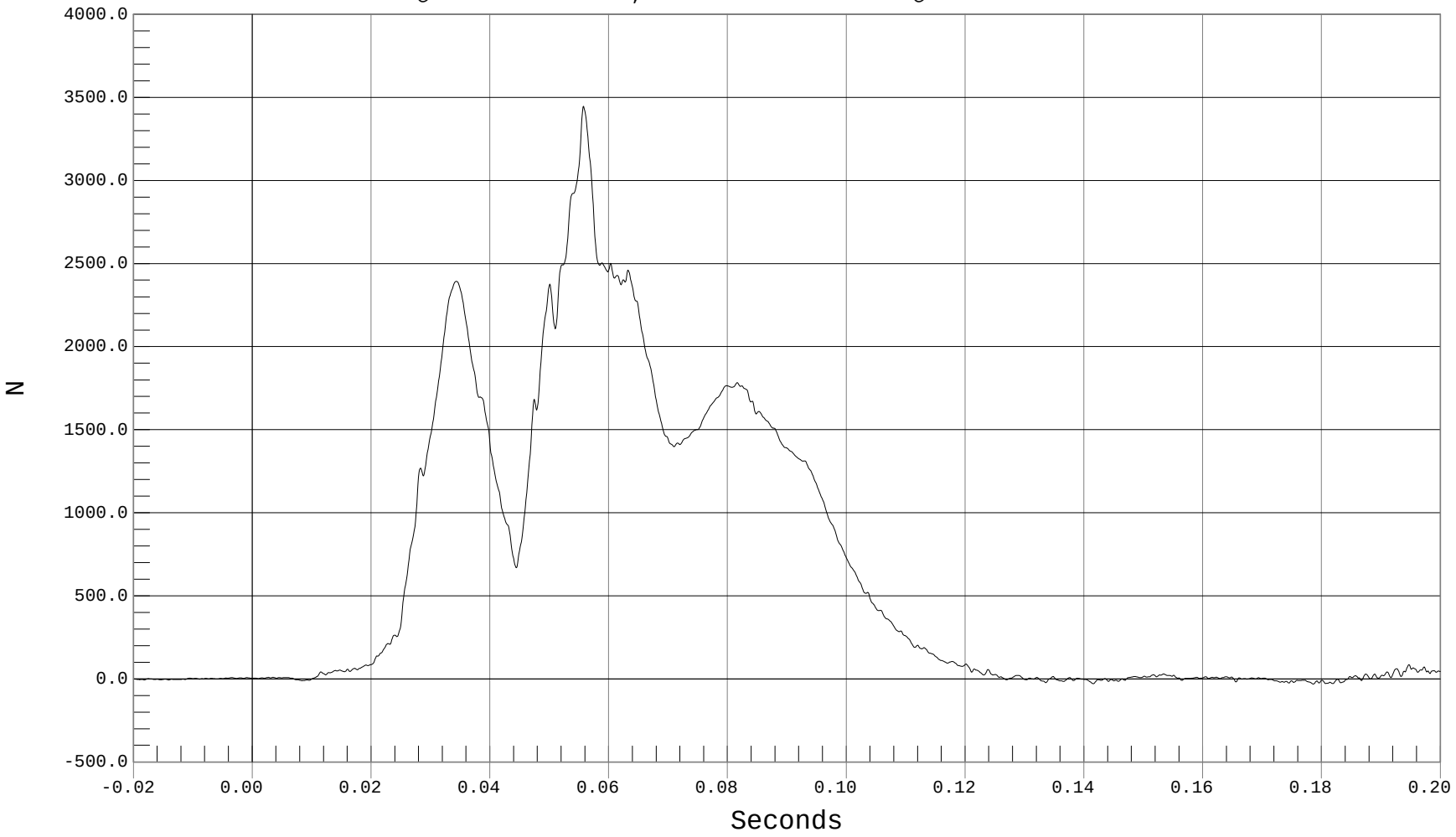
DRIVER RIGHT LOWER TIBIA FORCE Z

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 DRIVER RIGHT LOWER TIBIA FZ, b01005FF.F74

Ymin = -31.07 N @ 0.1786 Seconds, Ymax = 3446.84 N @ 0.0558 Seconds



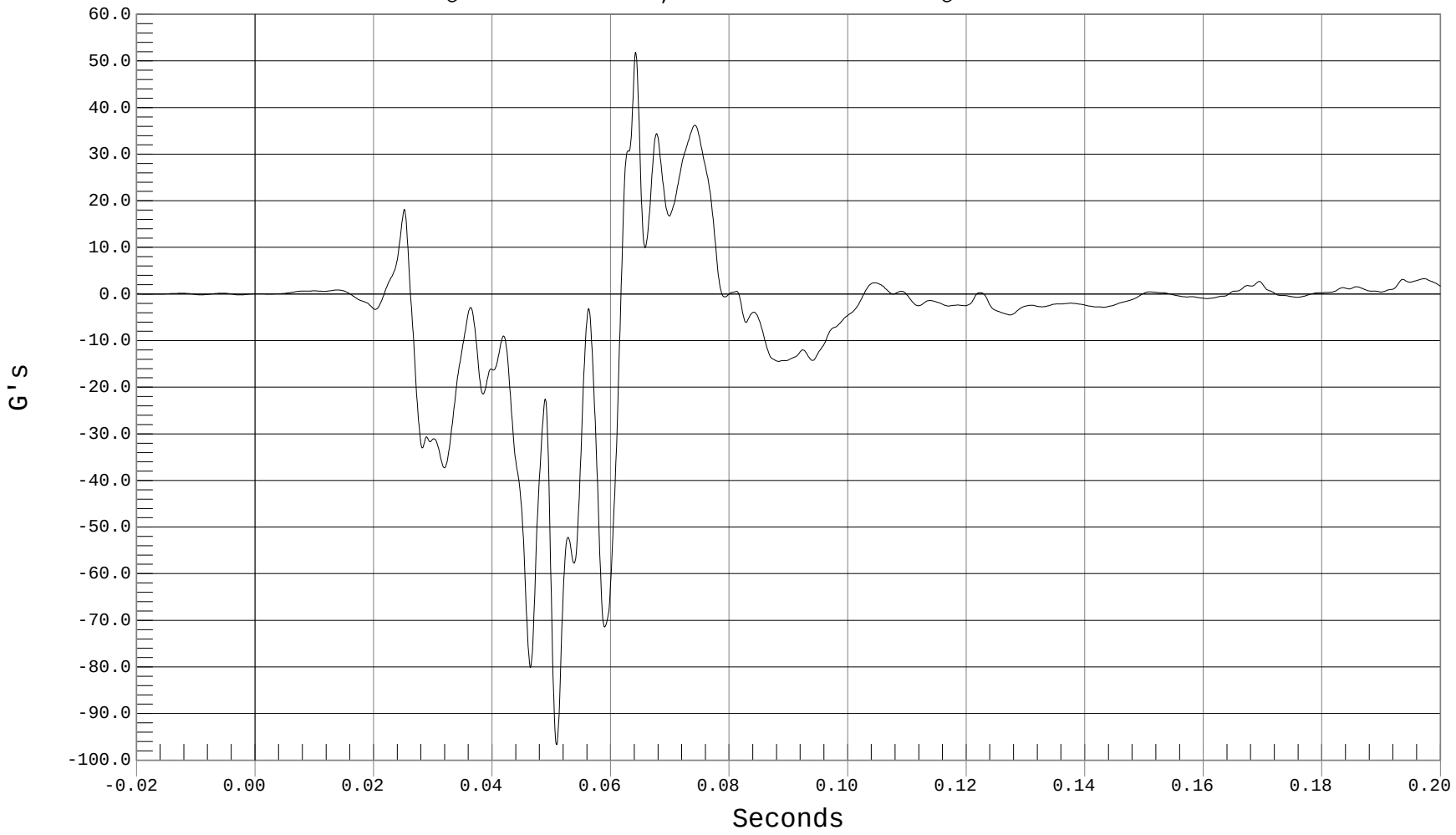
DRIVER LEFT FOOT @ BALL Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 DRIVER LEFT FOOT @ BALL Z, b01005AF.A12

Ymin = -96.72 G's @ 0.0509 Seconds, Ymax = 51.85 G's @ 0.0642 Seconds



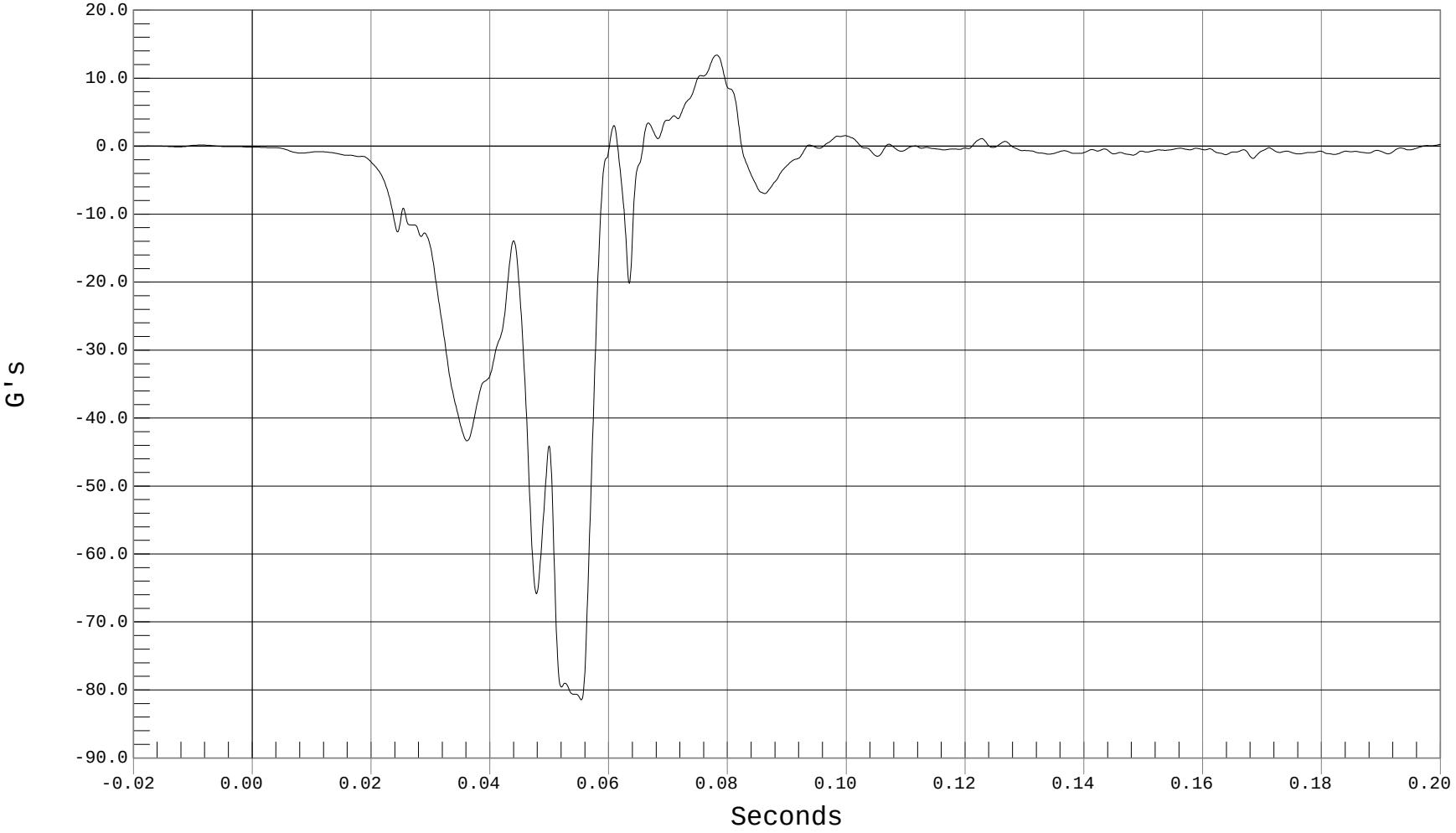
DRIVER LEFT FOOT @ HEEL X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 DRIVER LEFT FOOT @ HEEL X, b01005AF.A10

Ymin = -81.46 G's @ 0.0554 Seconds, Ymax = 13.39 G's @ 0.0782 Seconds



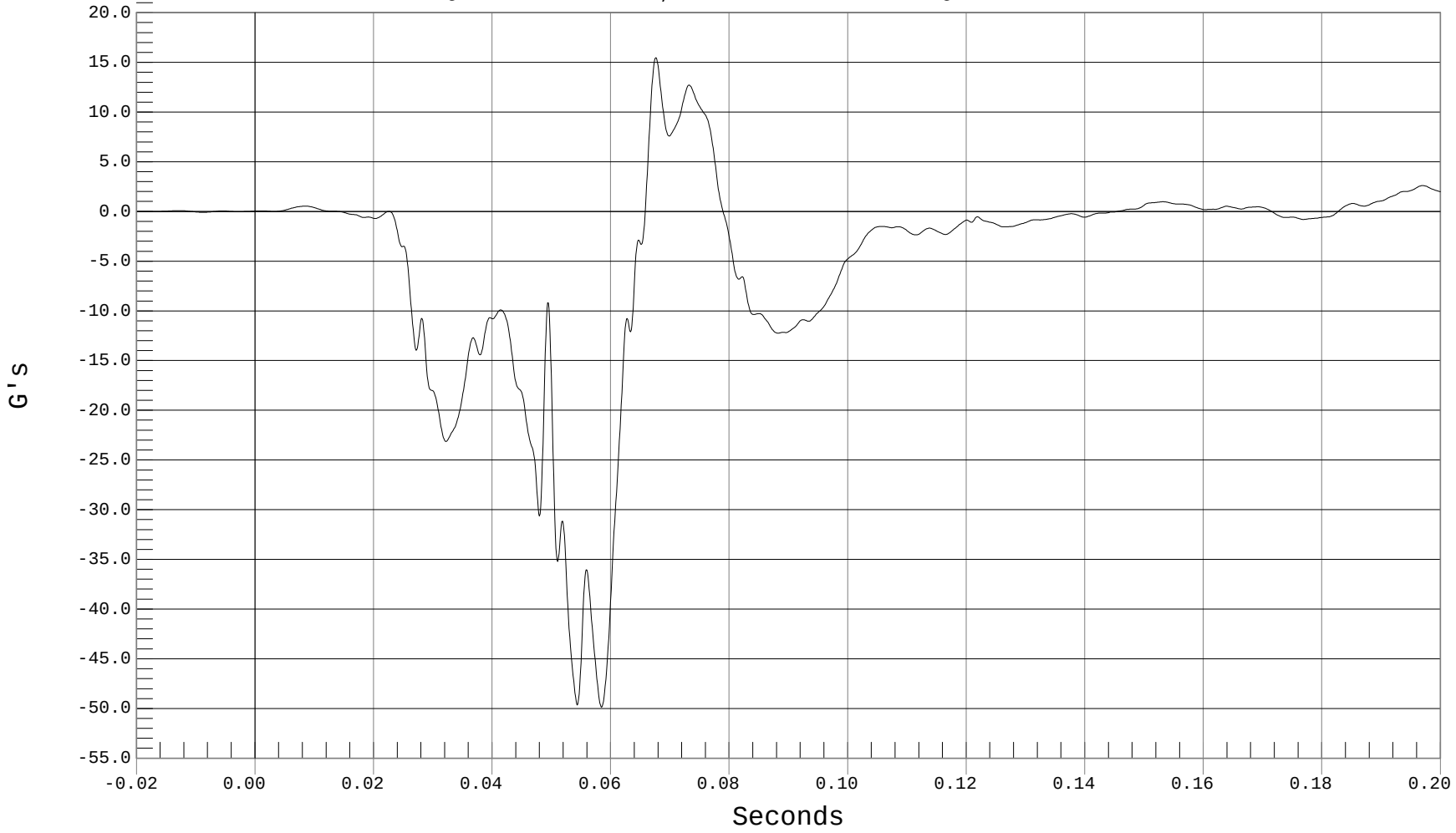
DRIVER LEFT FOOT @ HEEL Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 DRIVER LEFT FOOT @ HEEL Z, b01005AF.A11

Ymin = -49.88 G's @ 0.0585 Seconds, Ymax = 15.48 G's @ 0.0676 Seconds



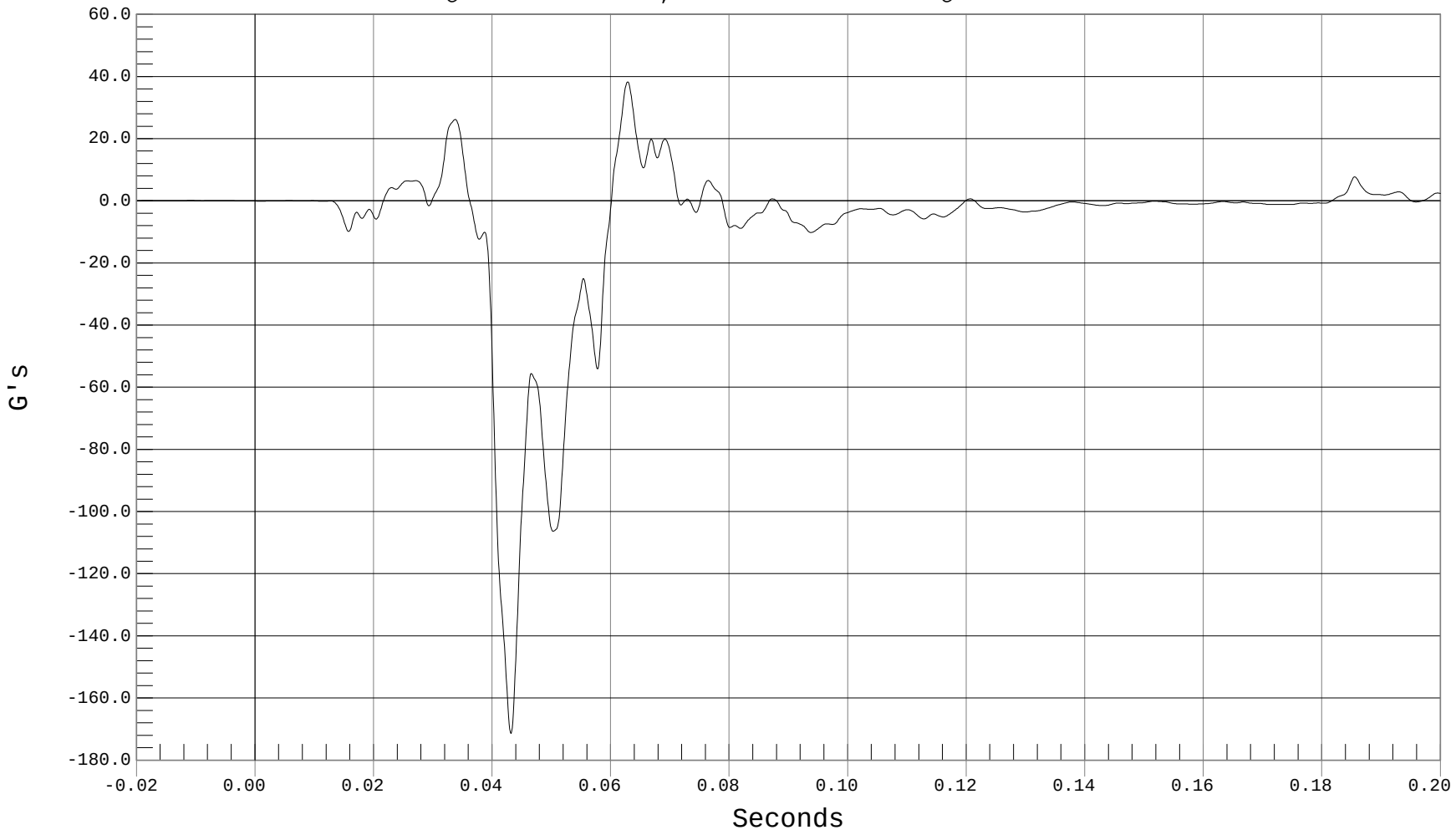
DRIVER RIGHT FOOT @ BALL Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 DRIVER RIGHT FOOT @ BALL Z, b01005AF.A95

Ymin = -171.4 G's @ 0.0432 Seconds, Ymax = 38.28 G's @ 0.0629 Seconds



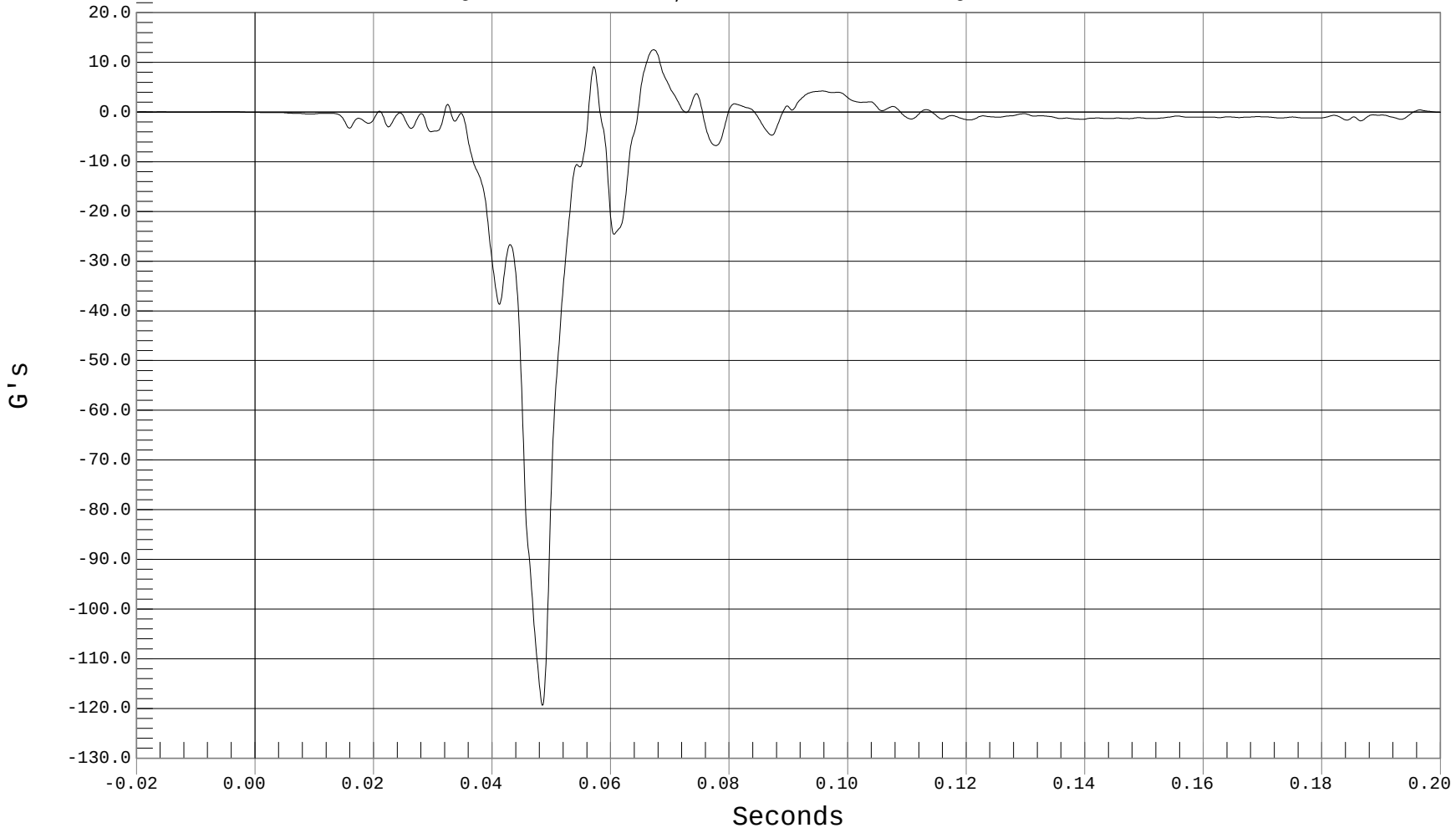
DRIVER RIGHT FOOT @ HEEL X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 DRIVER RIGHT FOOT @ HEEL X, b01005AF.A93

Ymin = -119.39 G's @ 0.0485 Seconds, Ymax = 12.55 G's @ 0.0673 Seconds



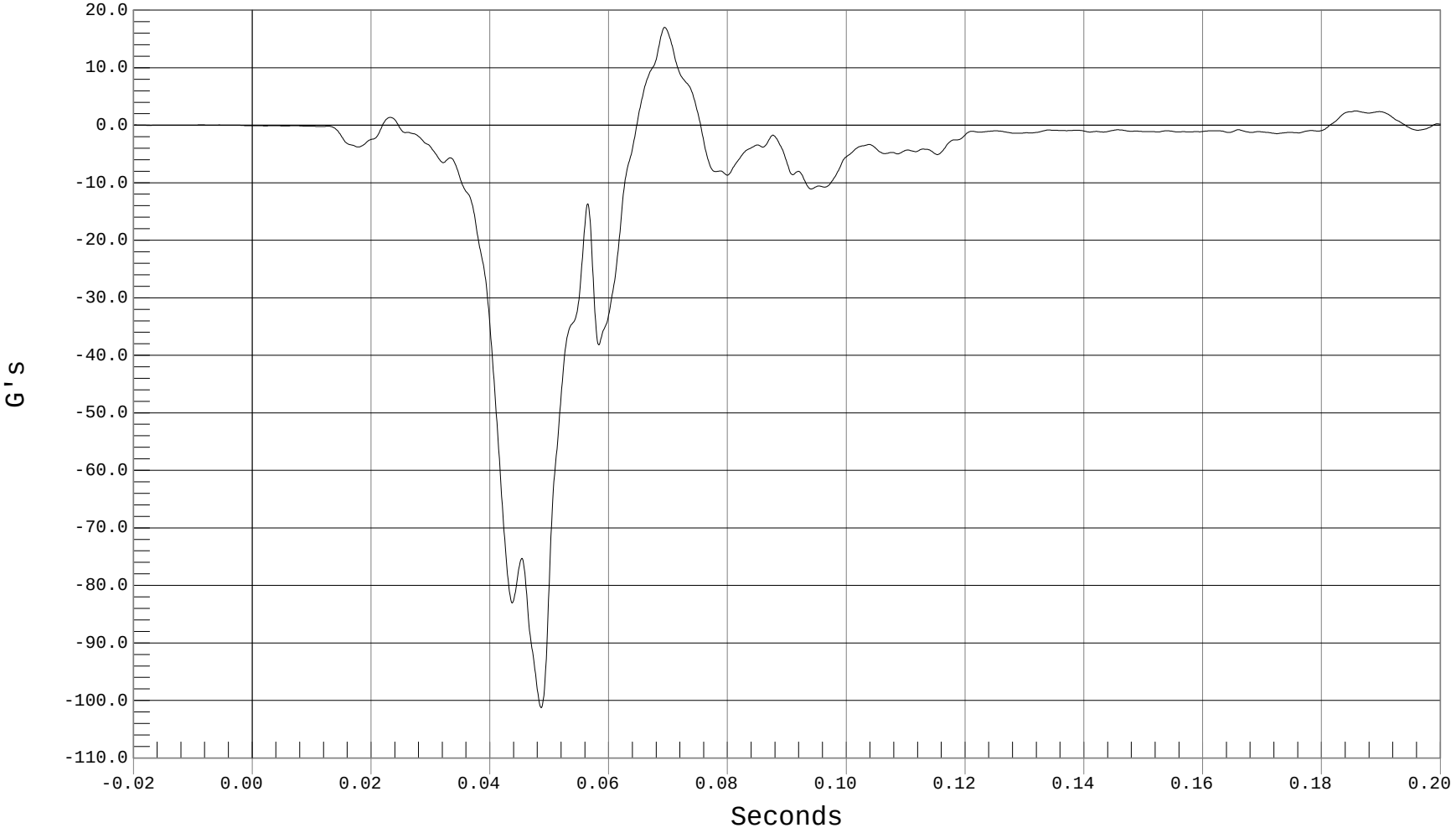
DRIVER RIGHT FOOT @ HEEL Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 DRIVER RIGHT FOOT @ HEEL Z, b01005AF.A94

Ymin = -101.25 G's @ 0.0487 Seconds, Ymax = 17.01 G's @ 0.0694 Seconds



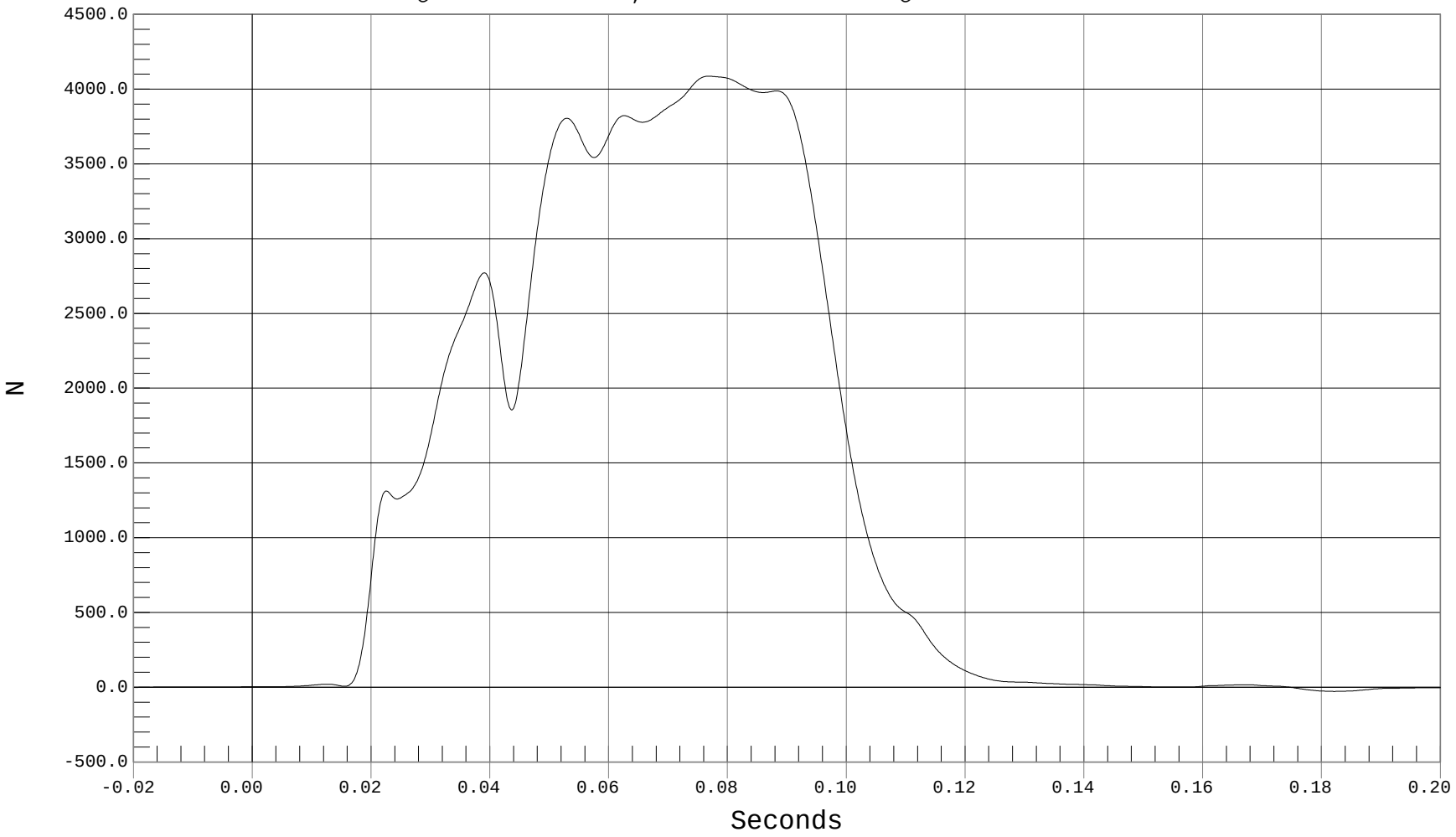
DRIVER SHOULDER BELT FORCE

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 DRIVER SHOULDER BELT, b01005FF.F65

Ymin = -28.09 N @ 0.1822 Seconds, Ymax = 4086.2 N @ 0.0768 Seconds



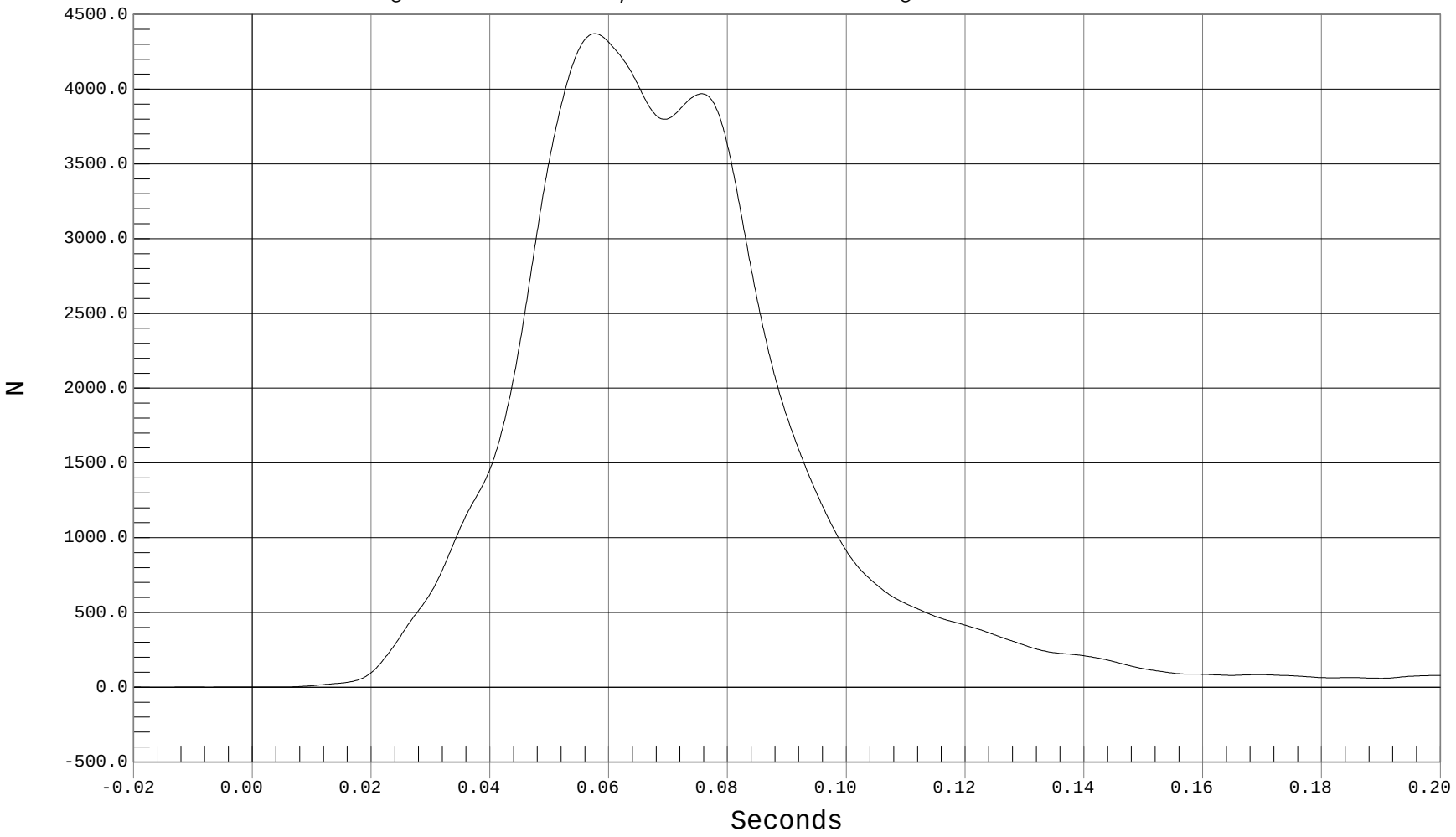
DRIVER LAP BELT FORCE

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 DRIVER LAP BELT, b01005FF.F66

Ymin = -.62 N @ -0.0168 Seconds, Ymax = 4371.38 N @ 0.0577 Seconds



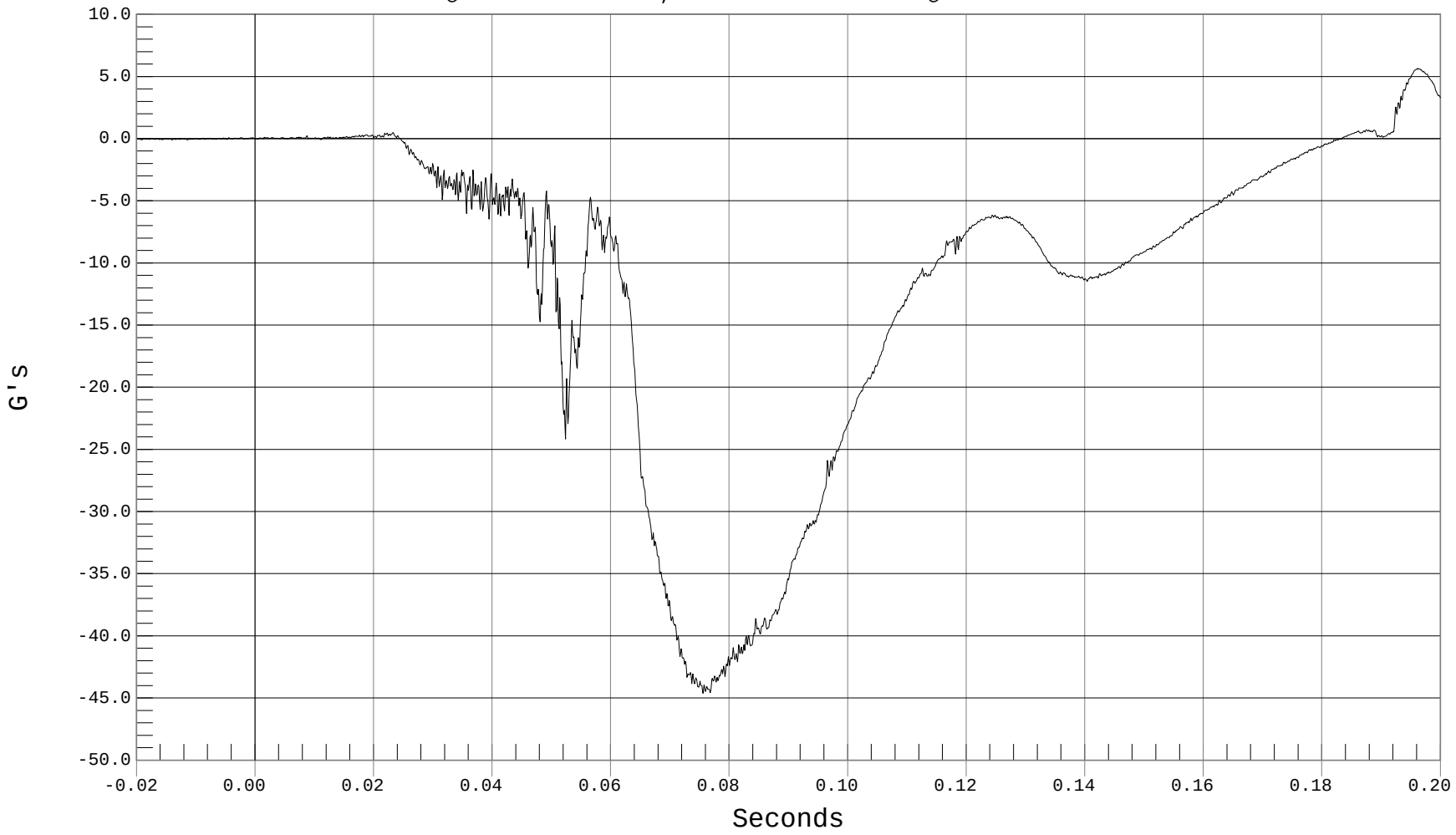
PASSENGER HEAD X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 PASSENGER HEAD X, b01005AT.A19

Ymin = -44.63 G's @ 0.0756 Seconds, Ymax = 5.65 G's @ 0.1962 Seconds



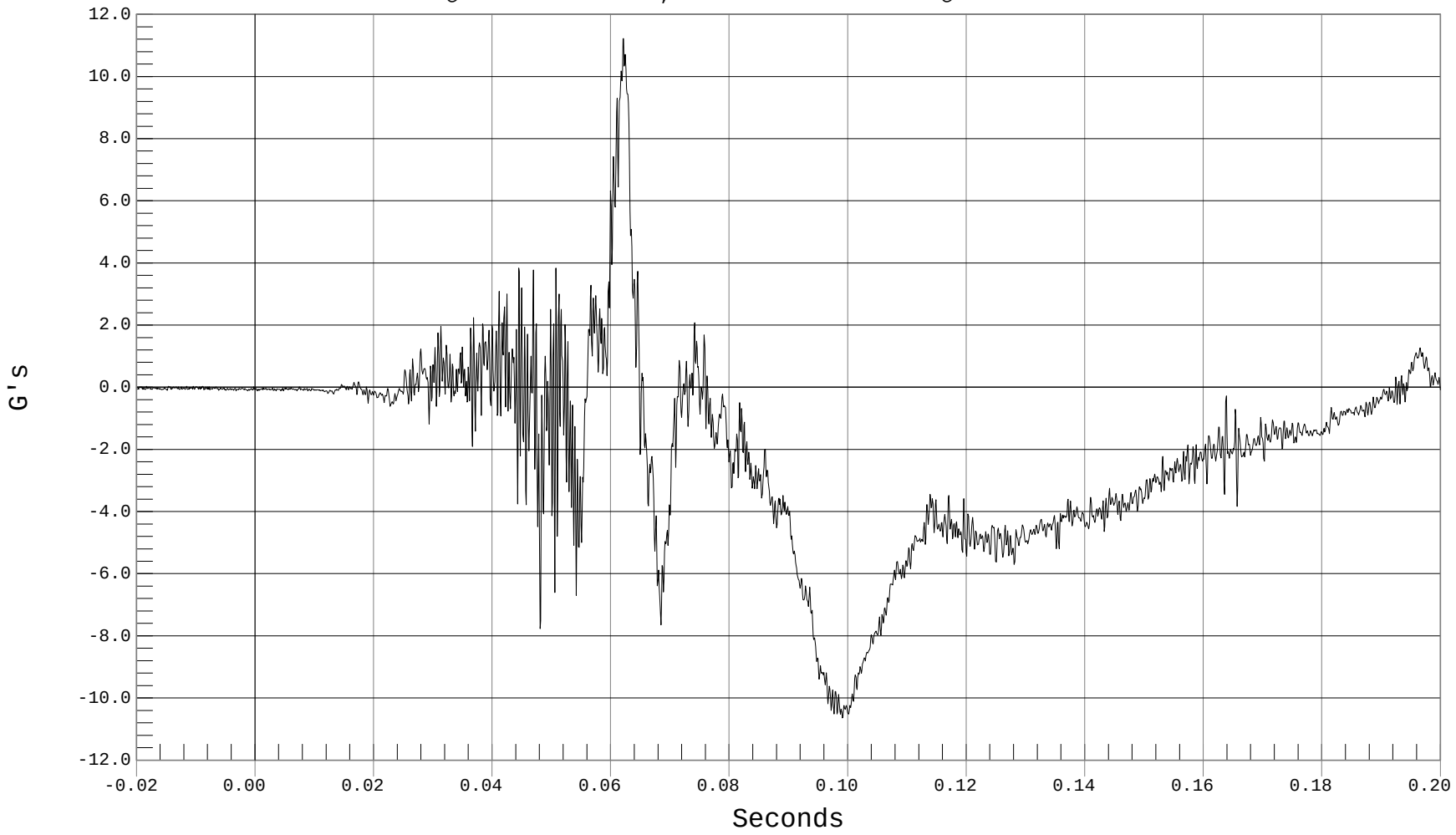
PASSENGER HEAD Y ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 PASSENGER HEAD Y, b01005AT.A20

Ymin = -10.65 G's @ 0.0991 Seconds, Ymax = 11.22 G's @ 0.0621 Seconds



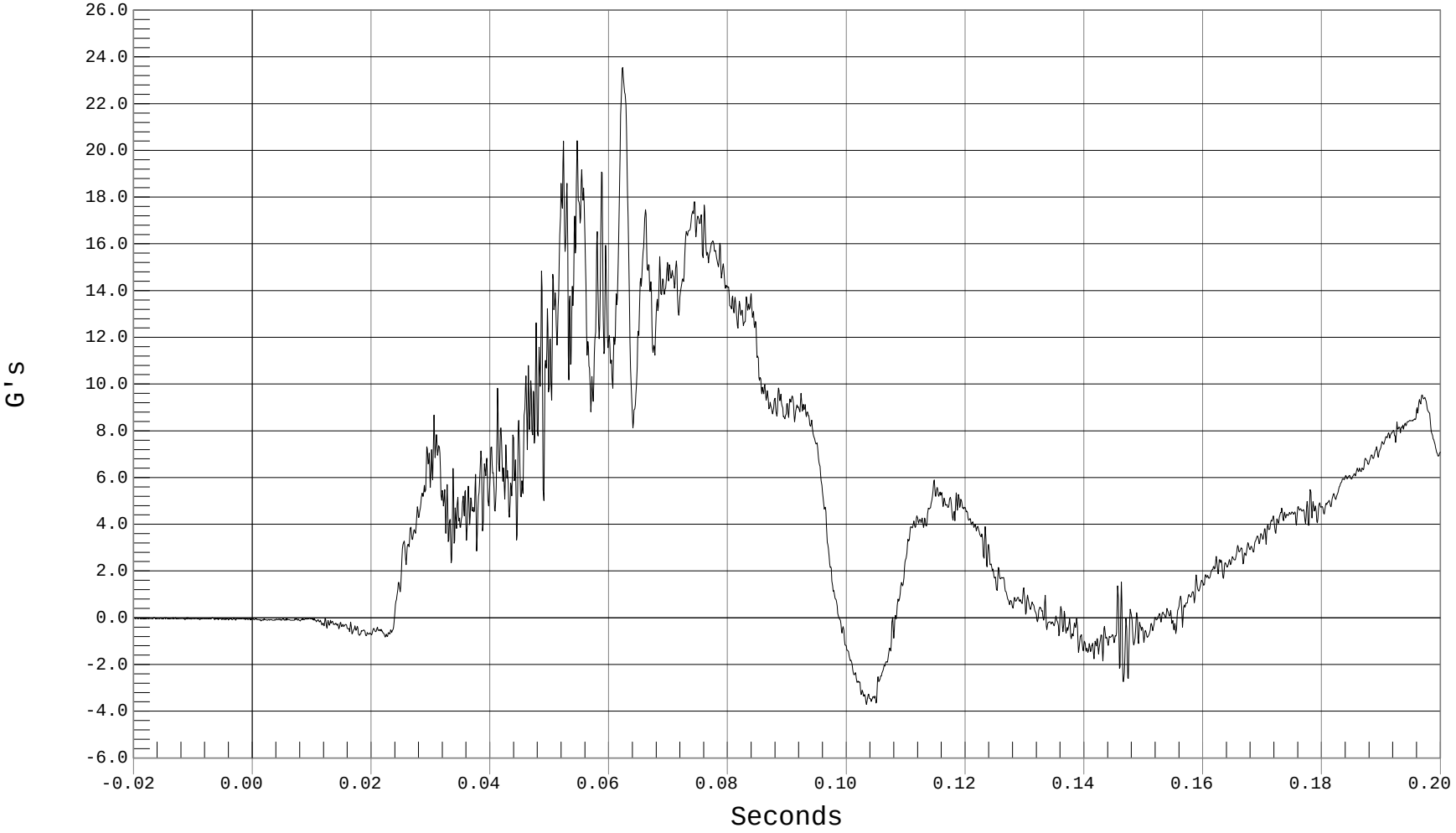
PASSENGER HEAD Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 PASSENGER HEAD Z, b01005AT.A21

Ymin = -3.72 G's @ 0.1034 Seconds, Ymax = 23.55 G's @ 0.0624 Seconds



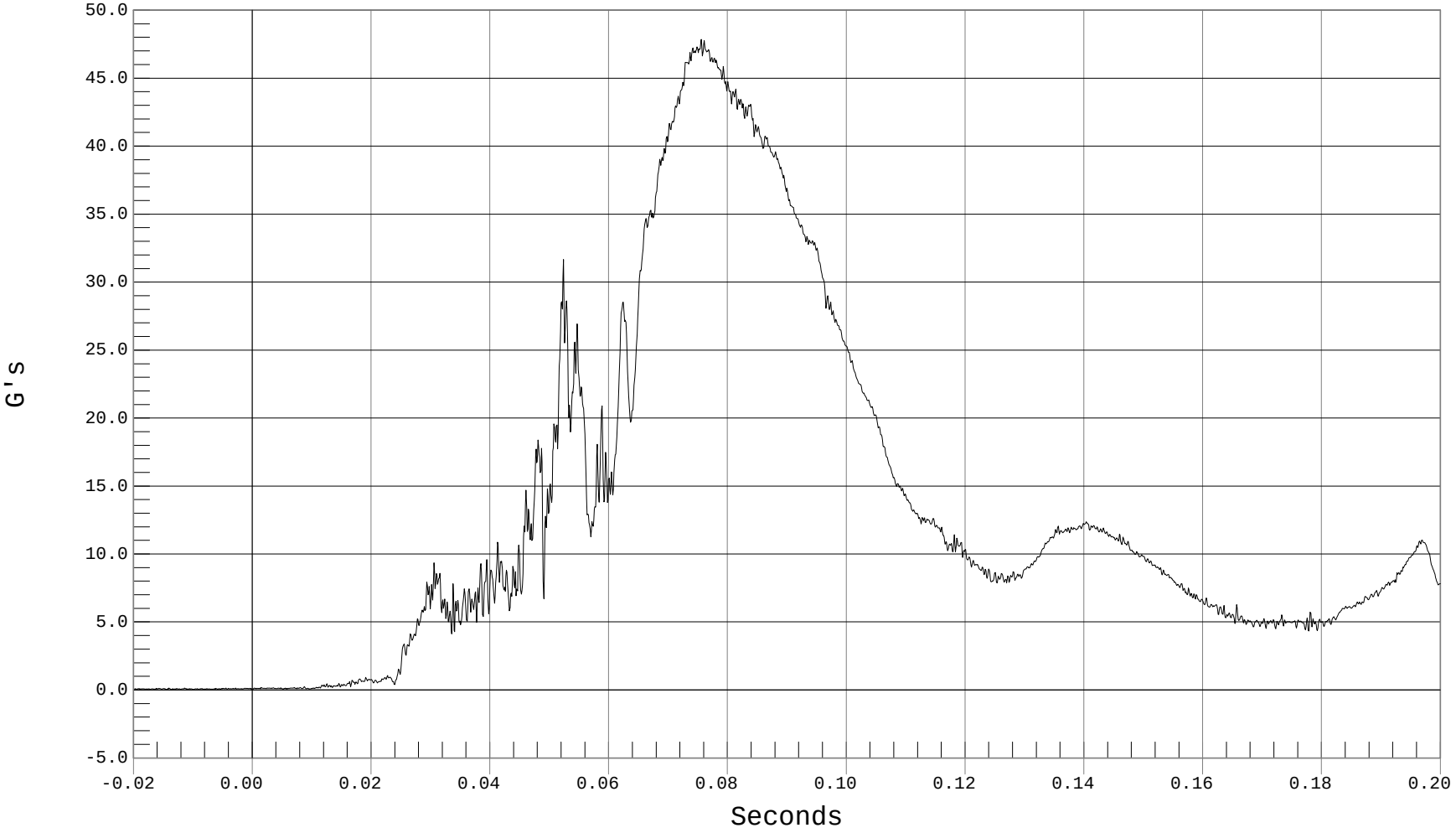
PASSENGER HEAD RESULTANT ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 PASSENGER HEAD RESULTANT ACCELERATION, b01005AV.A19

Ymin = .02 G's @ -0.0195 Seconds, Ymax = 47.84 G's @ 0.0756 Seconds



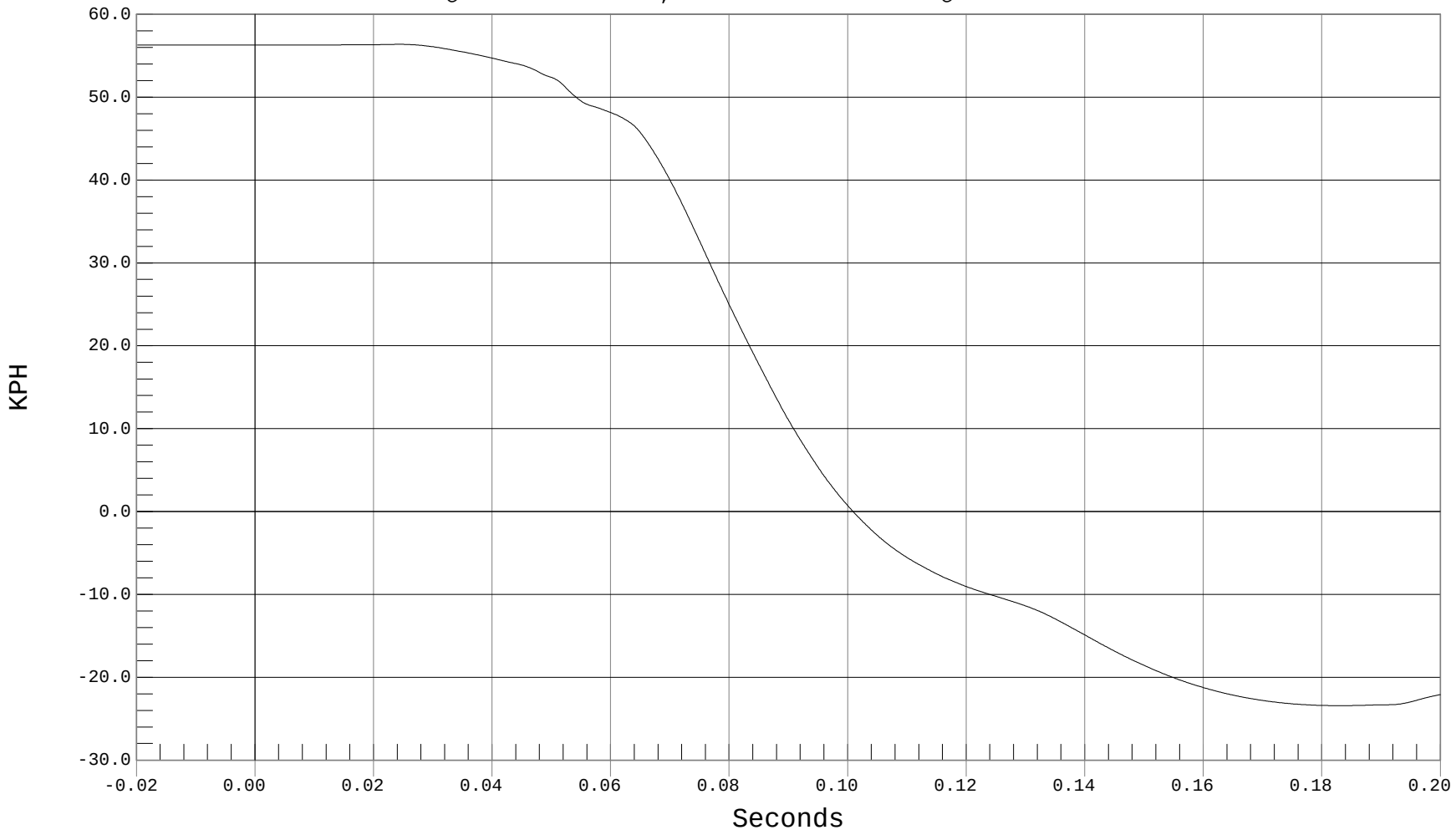
PASSENGER HEAD X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 PASSENGER HEAD X VELOCITY, b01005AI.V19

Ymin = -23.43 KPH @ 0.1832 Seconds, Ymax = 56.38 KPH @ 0.0244 Seconds



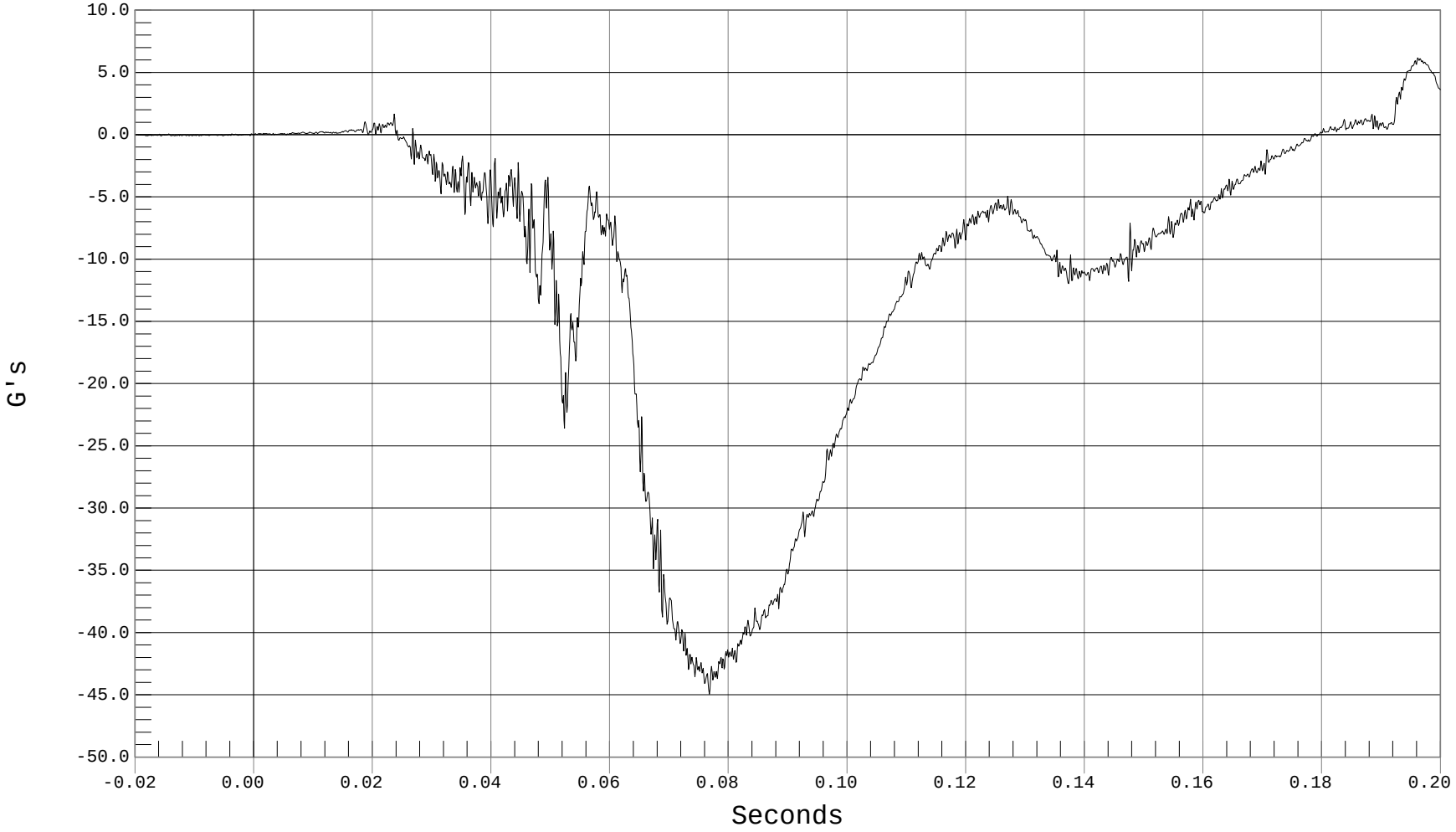
PASSENGER HEAD REDUNDANT X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 PASSENGER HEAD Xr, b01005AT.A41

Ymin = -44.95 G's @ 0.0768 Seconds, Ymax = 6.18 G's @ 0.1962 Seconds



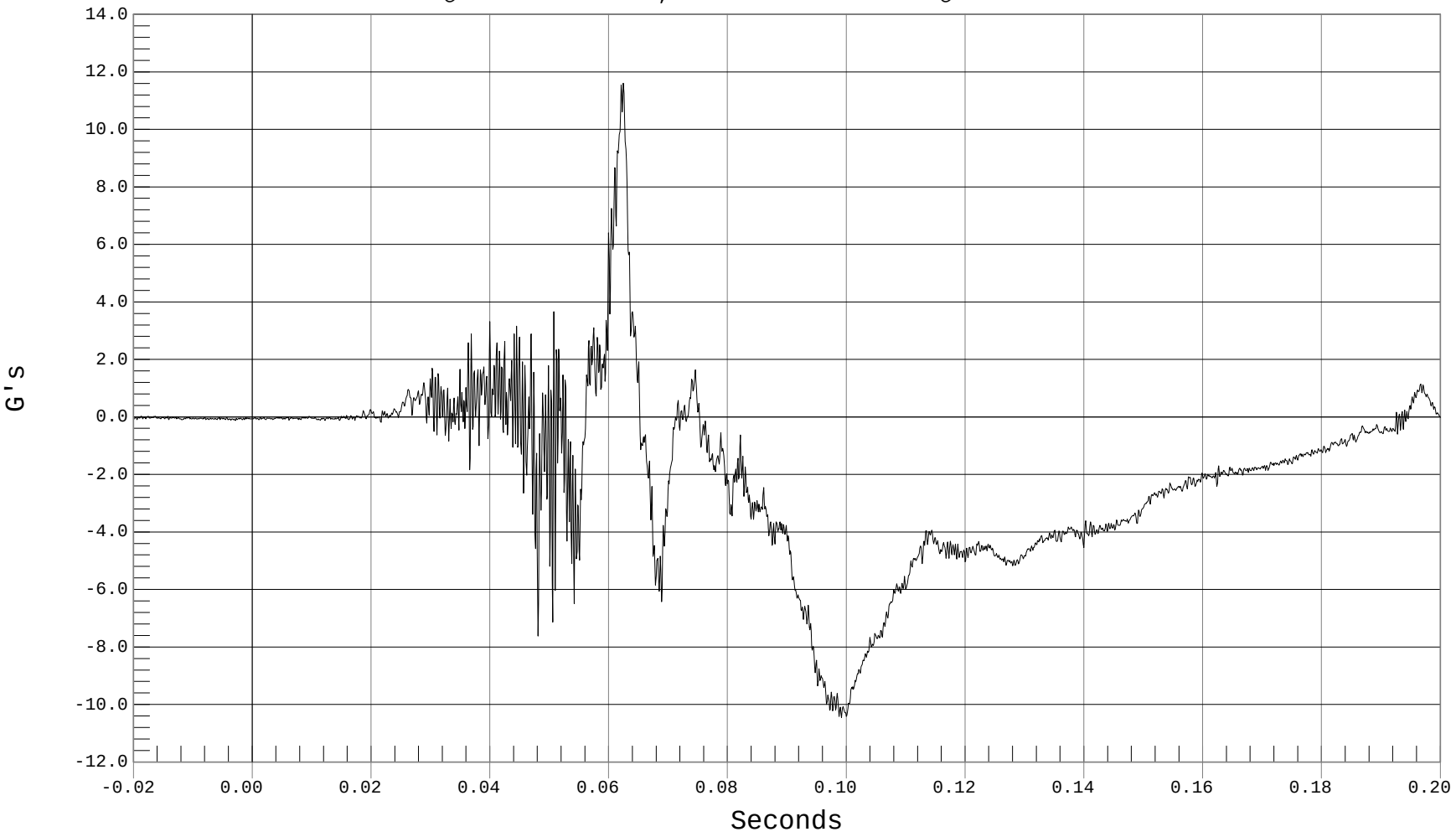
PASSENGER HEAD REDUNDANT Y ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 PASSENGER HEAD Yr, b01005AT.A42

Ymin = -10.45 G's @ 0.0992 Seconds, Ymax = 11.61 G's @ 0.0625 Seconds



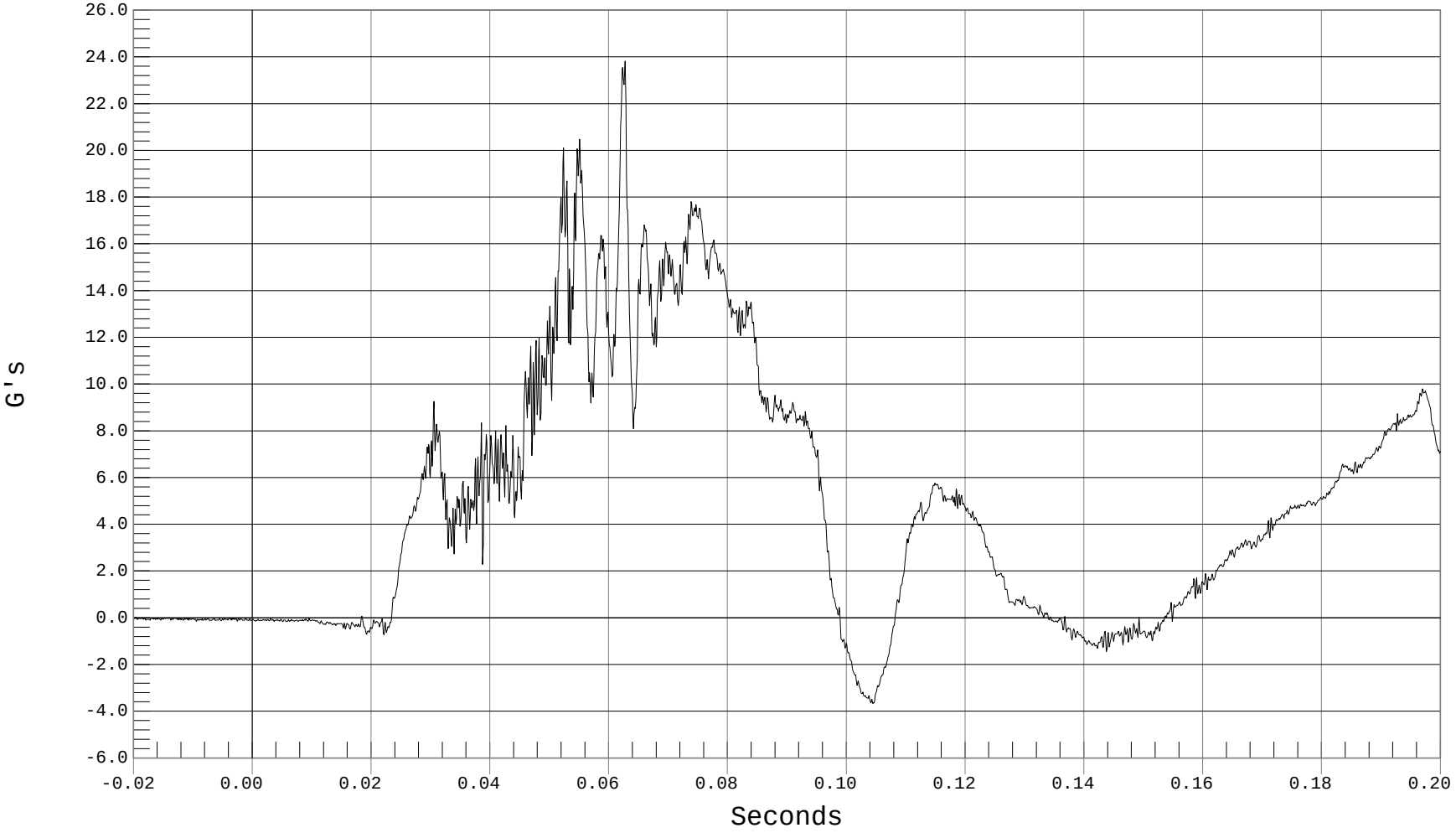
PASSENGER HEAD REDUNDANT Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 PASSENGER HEAD Zr, b01005AT.A43

Ymin = -3.67 G's @ 0.1045 Seconds, Ymax = 23.82 G's @ 0.0628 Seconds



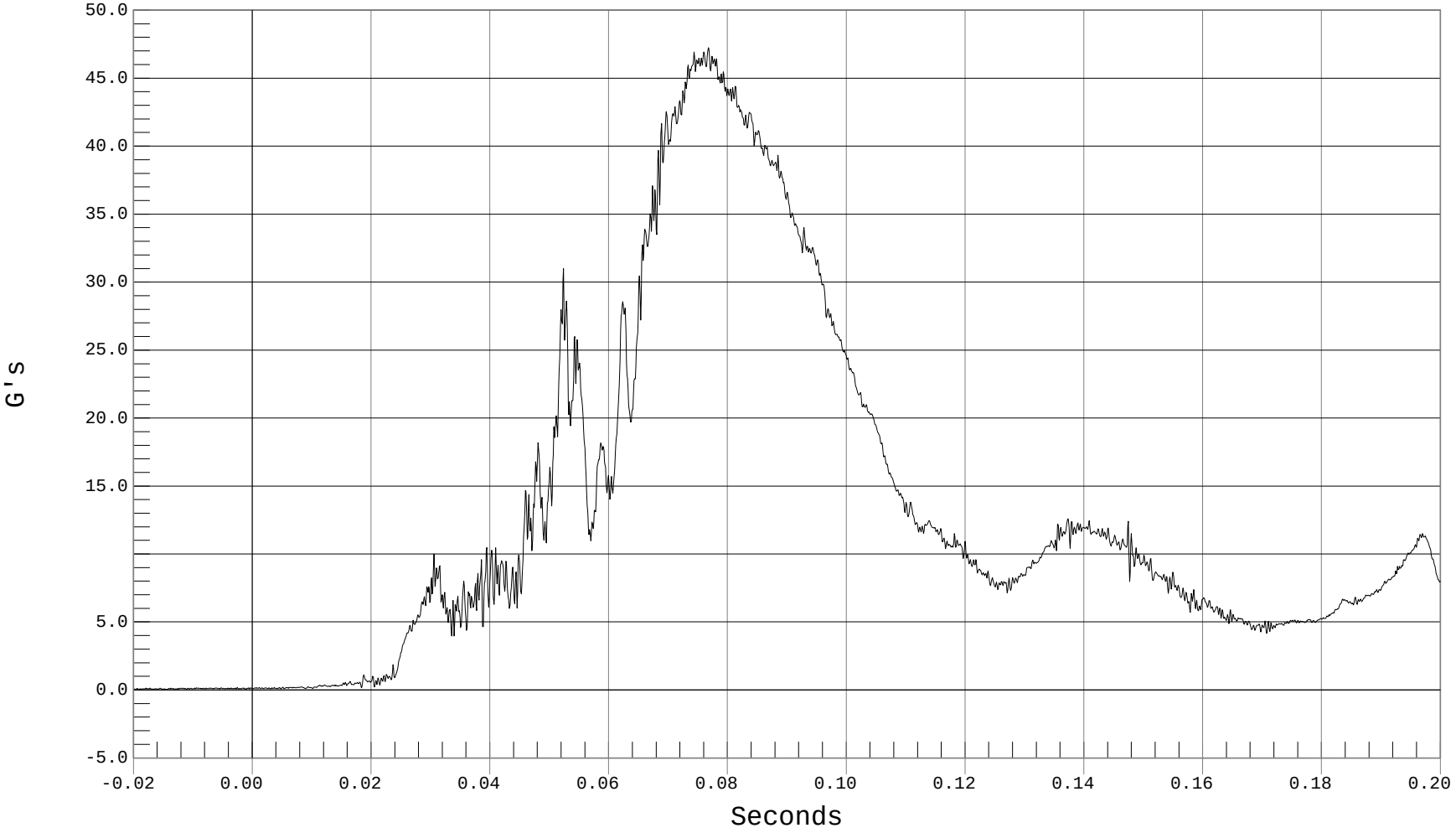
PASSENGER HEAD REDUNDANT RESULTANT ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 PASSENGER HEAD REDUNDANT RESULTANT ACCELERATION, b01005AV.A41

Ymin = .01 G's @ -0.0151 Seconds, Ymax = 47.24 G's @ 0.0768 Seconds



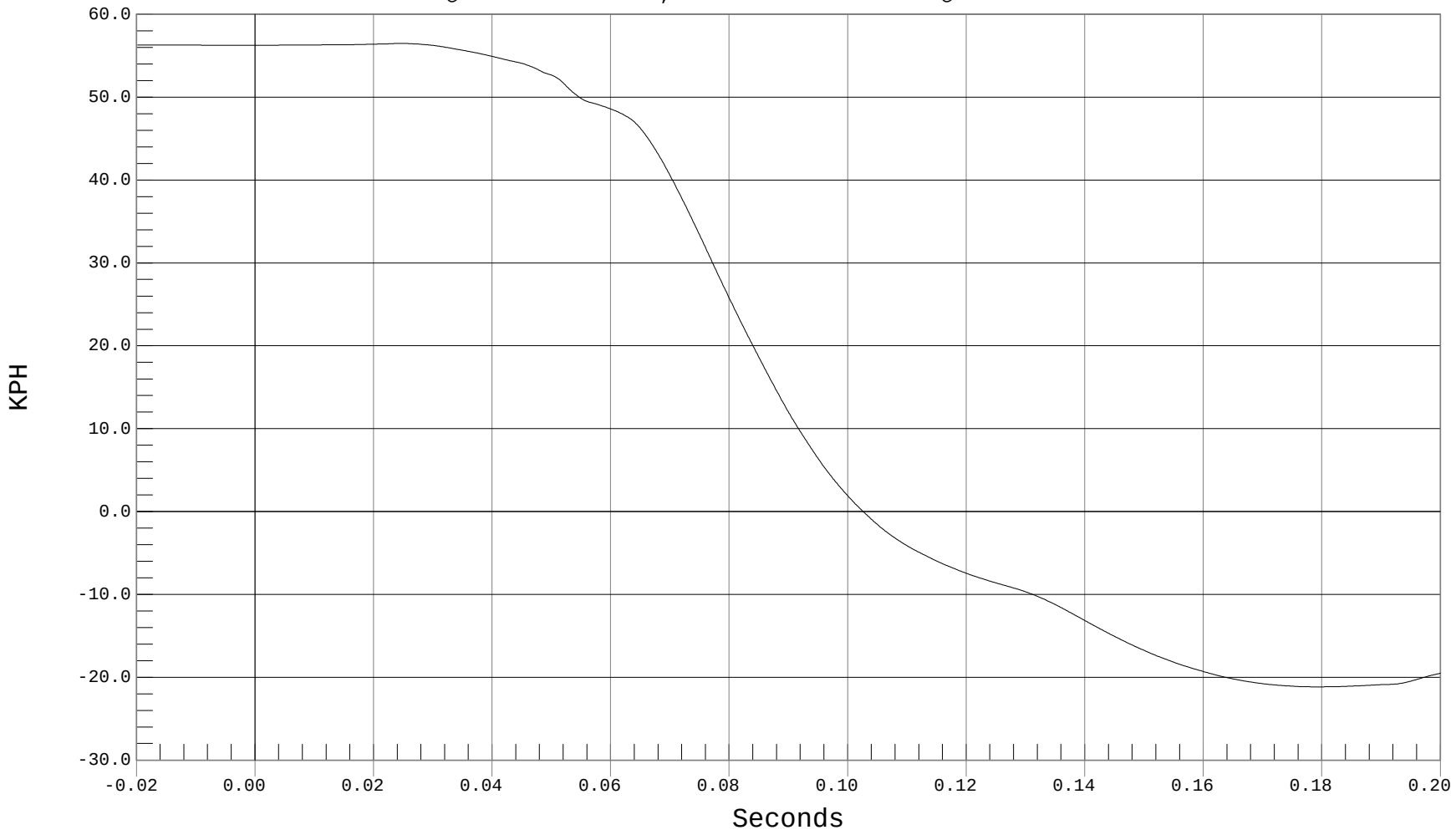
PASSENGER HEAD REDUNDANT X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 PASSENGER HEAD REDUNDANT X VELOCITY, b01005AI.V41

Ymin = -21.16 KPH @ 0.1792 Seconds, Ymax = 56.49 KPH @ 0.0245 Seconds



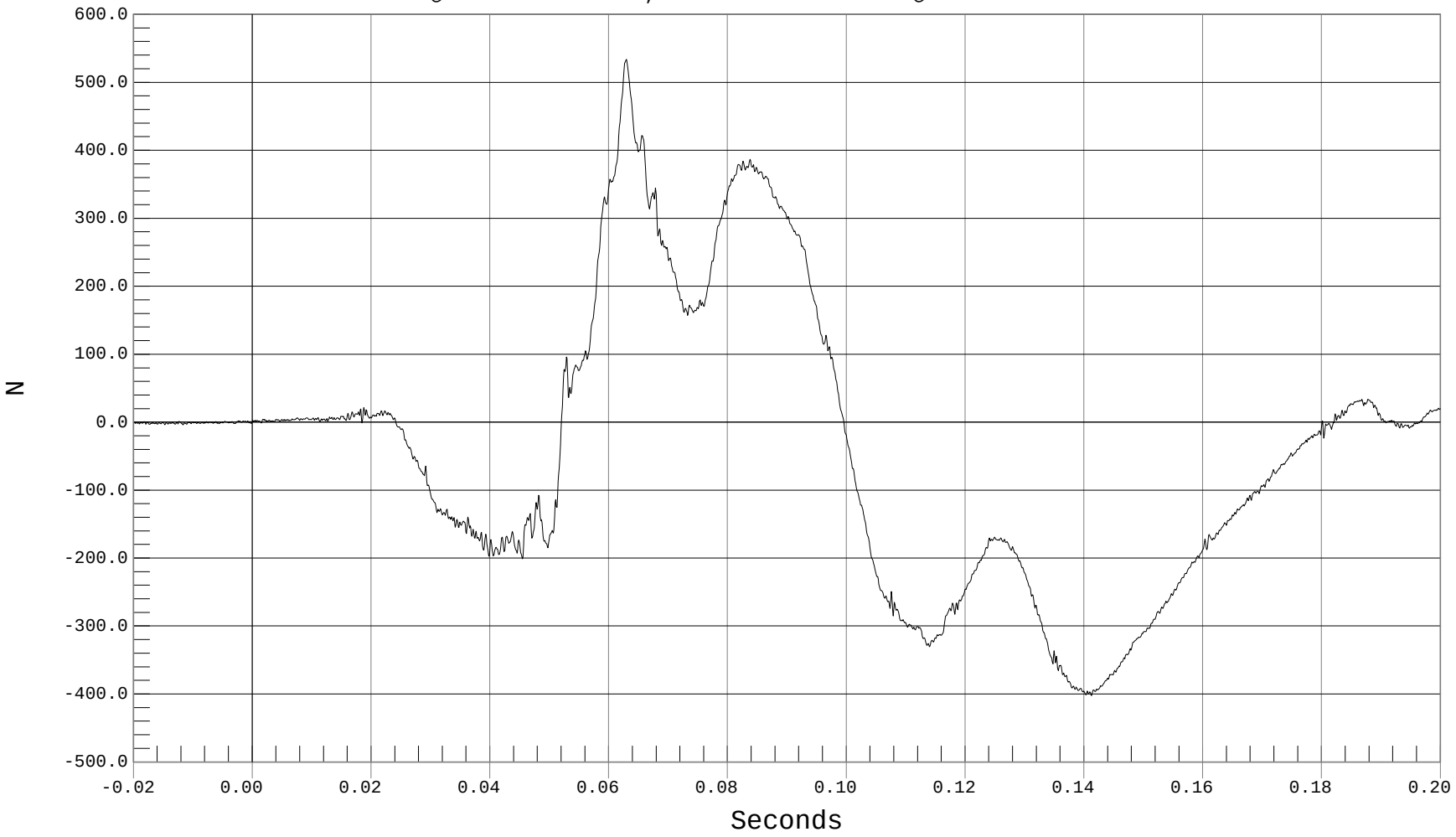
PASSENGER NECK FORCE X

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 PASSENGER NECK FX, b01005FT.F44

Ymin = -402.35 N @ 0.1413 Seconds, Ymax = 533.72 N @ 0.0630 Seconds



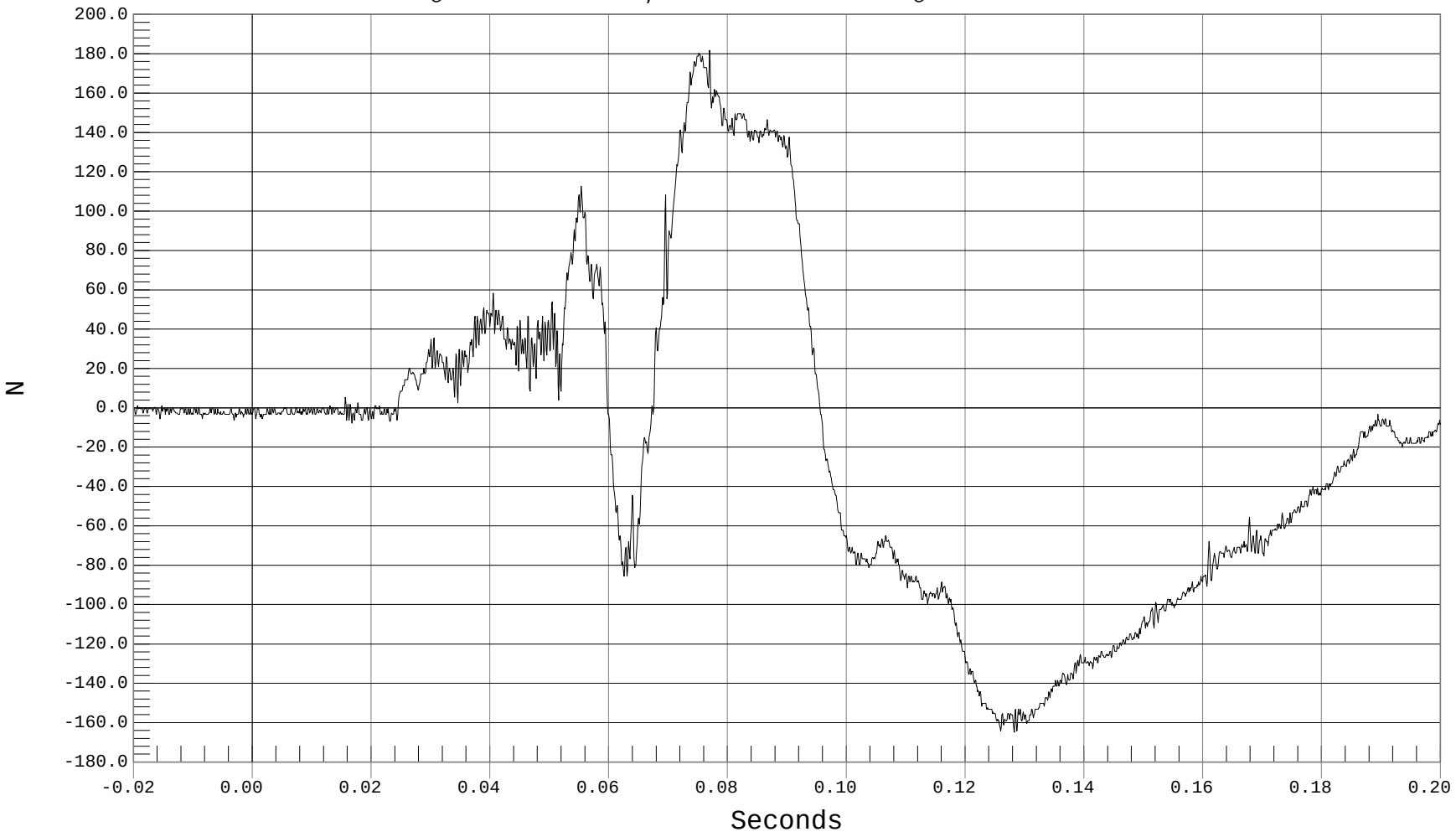
PASSENGER NECK FORCE Y

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 PASSENGER NECK FY, b01005FT.F45

Ymin = -164.92 N @ 0.1283 Seconds, Ymax = 181.72 N @ 0.0770 Seconds



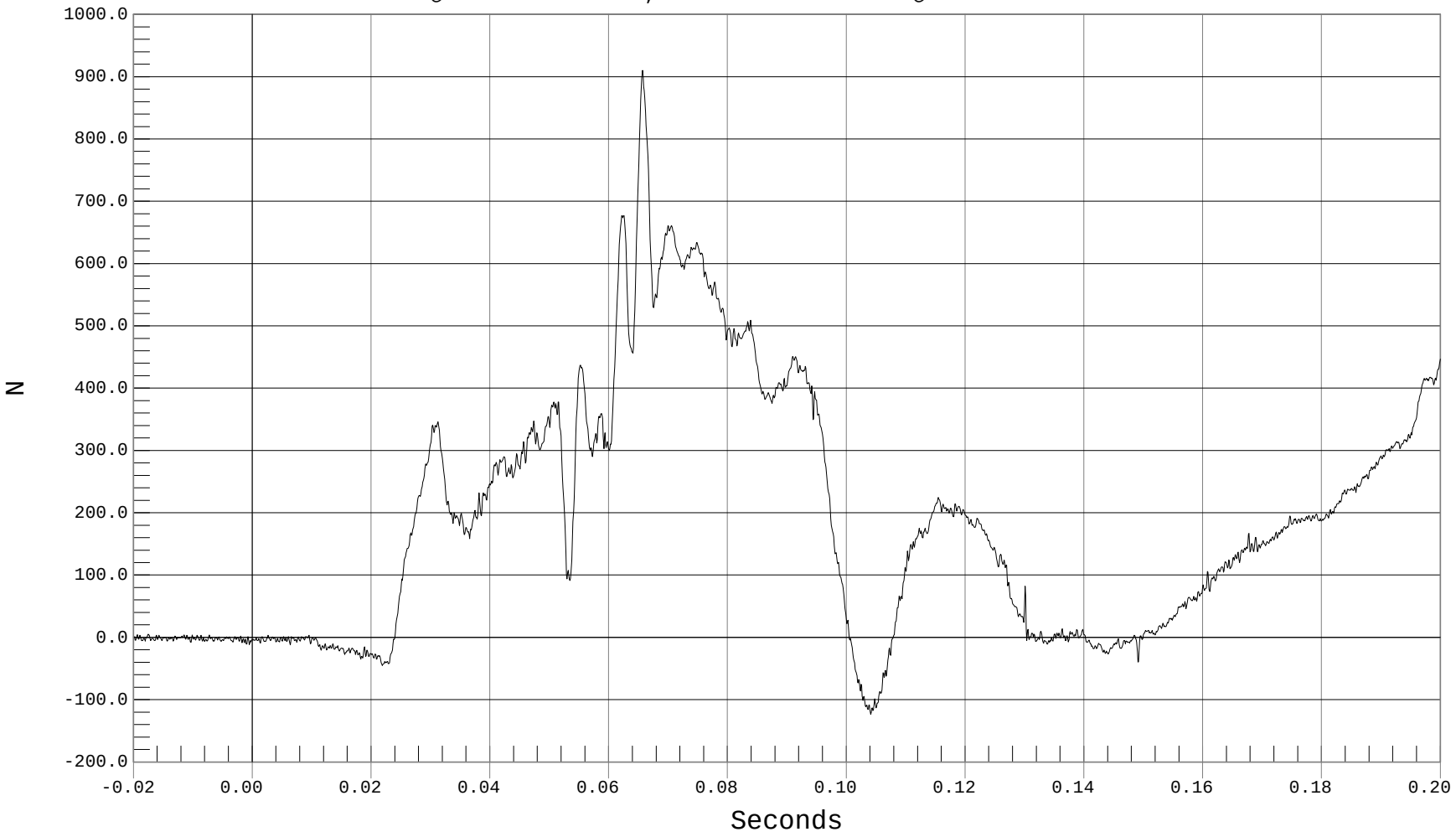
PASSENGER NECK FORCE Z

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 PASSENGER NECK FZ, b01005FT.F46

Ymin = -123.58 N @ 0.1041 Seconds, Ymax = 910.08 N @ 0.0657 Seconds



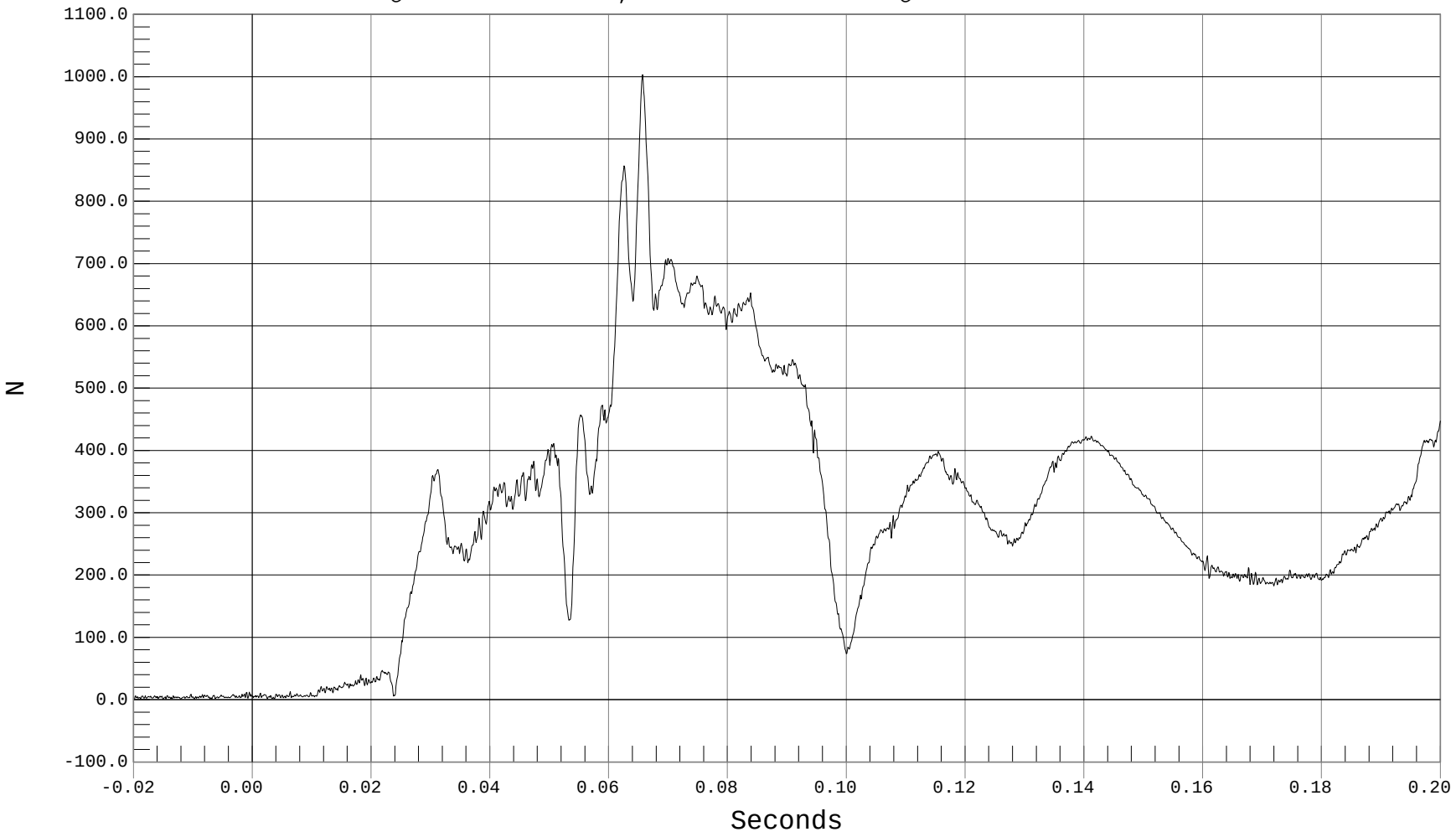
PASSENGER NECK FORCE RESULTANT

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 PASSENGER NECK FORCE RESULTANT, b01005FV.F44

Ymin = .43 N @ -0.0150 Seconds, Ymax = 1003.11 N @ 0.0657 Seconds



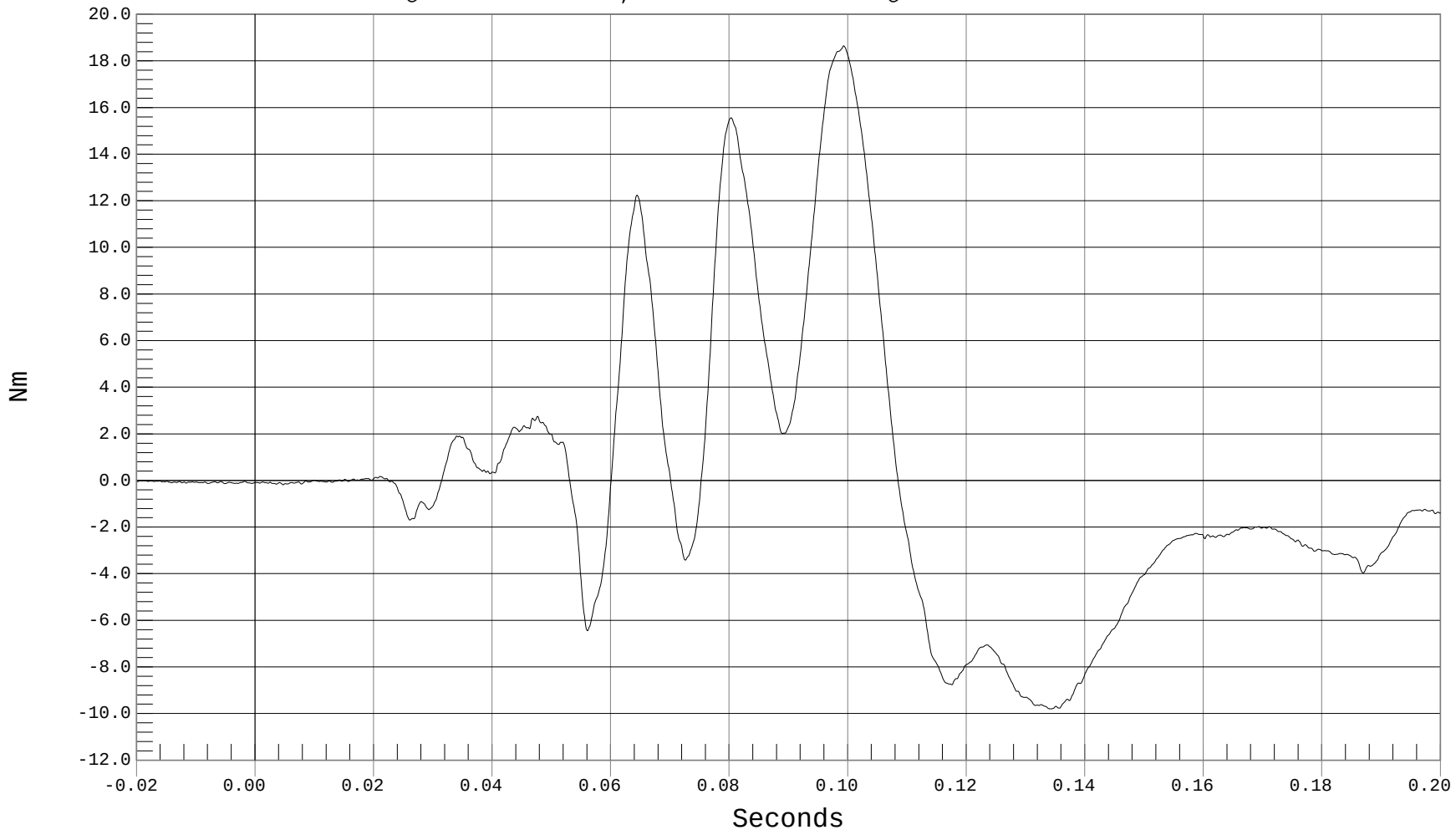
PASSENGER NECK MOMENT X

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 PASSENGER NECK MX, b01005MF.M47

Ymin = -9.8 Nm @ 0.1343 Seconds, Ymax = 18.65 Nm @ 0.0993 Seconds



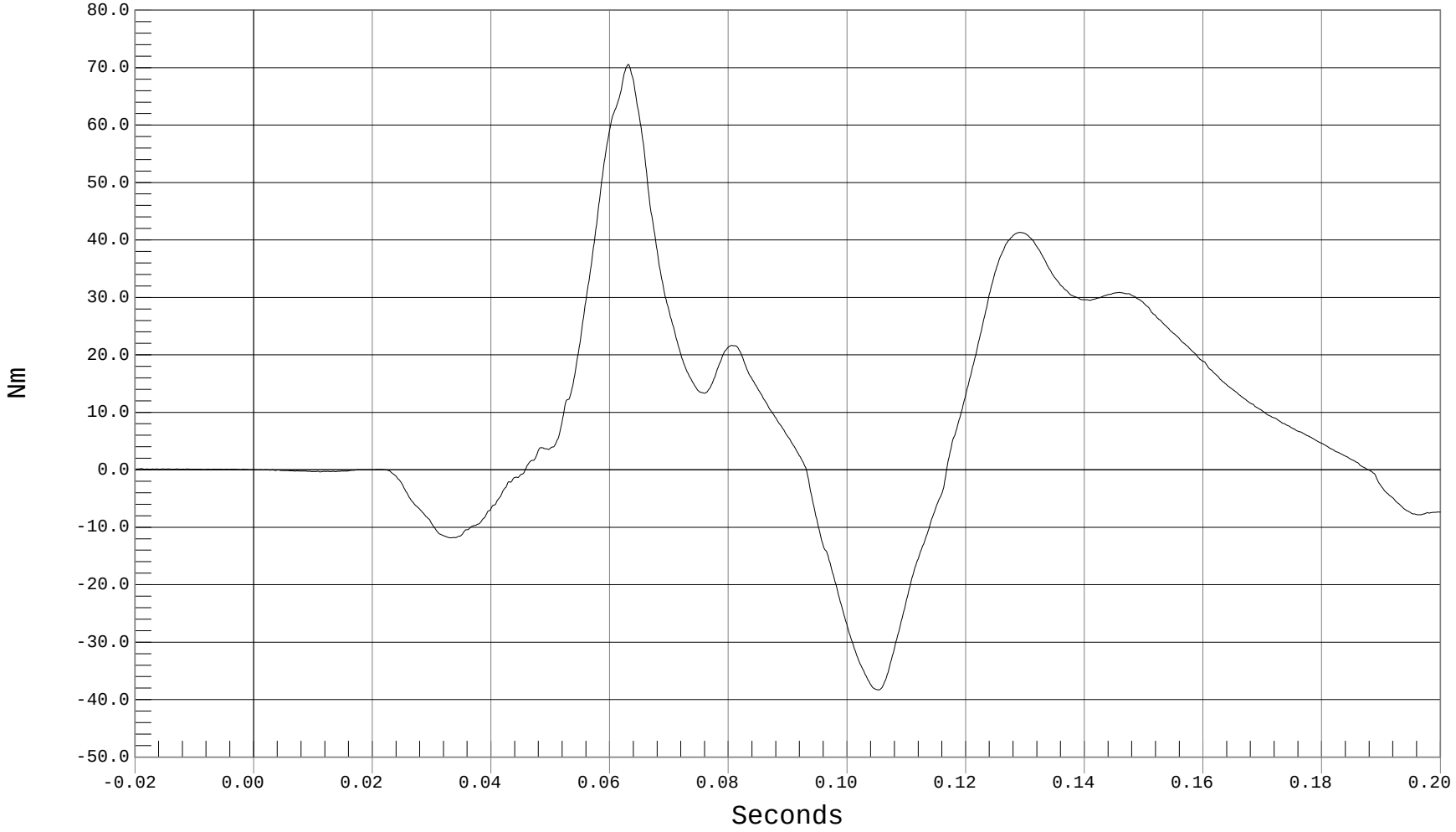
PASSENGER NECK MOMENT Y

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 PASSENGER NECK MY, b01005MF.M48

Ymin = -38.33 Nm @ 0.1053 Seconds, Ymax = 70.56 Nm @ 0.0632 Seconds



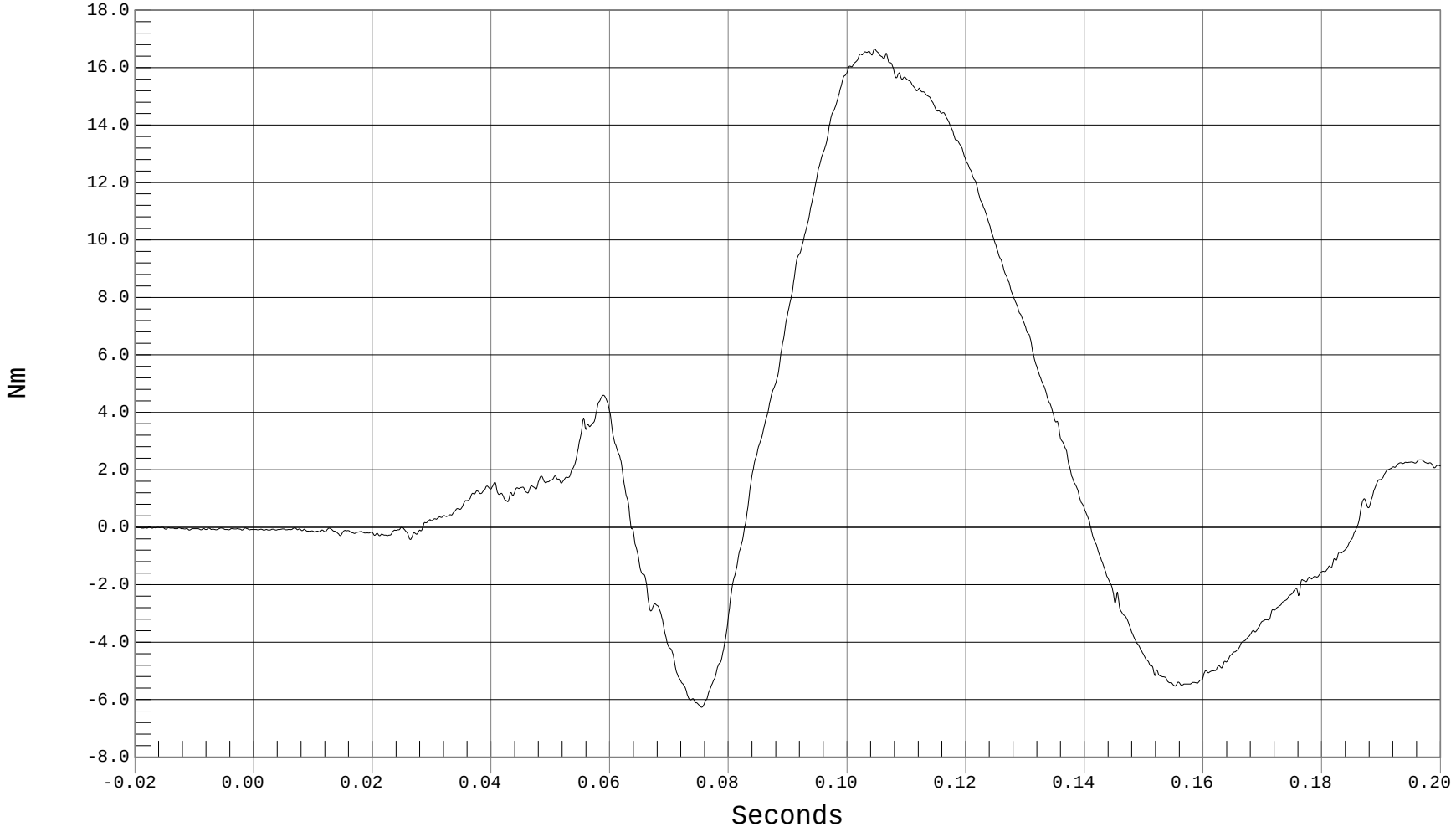
PASSENGER NECK MOMENT Z

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 PASSENGER NECK MZ, b01005MF.M49

Ymin = -6.27 Nm @ 0.0755 Seconds, Ymax = 16.64 Nm @ 0.1047 Seconds



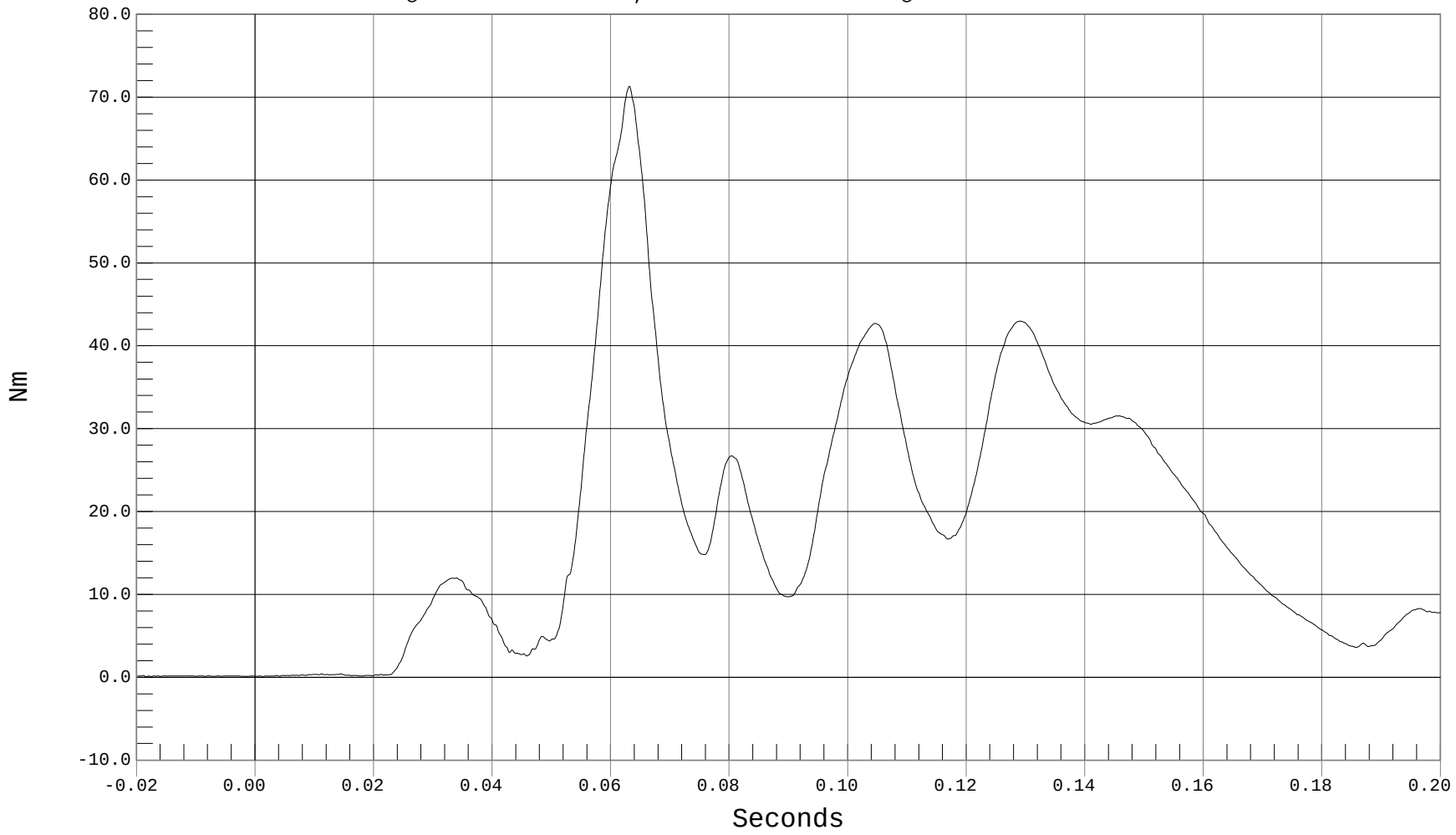
PASSENGER NECK MOMENT RESULTANT

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 PASSENGER NECK MOMENT RESULTANT, b01005MV.M47

Ymin = .08 Nm @ -0.0183 Seconds, Ymax = 71.34 Nm @ 0.0632 Seconds



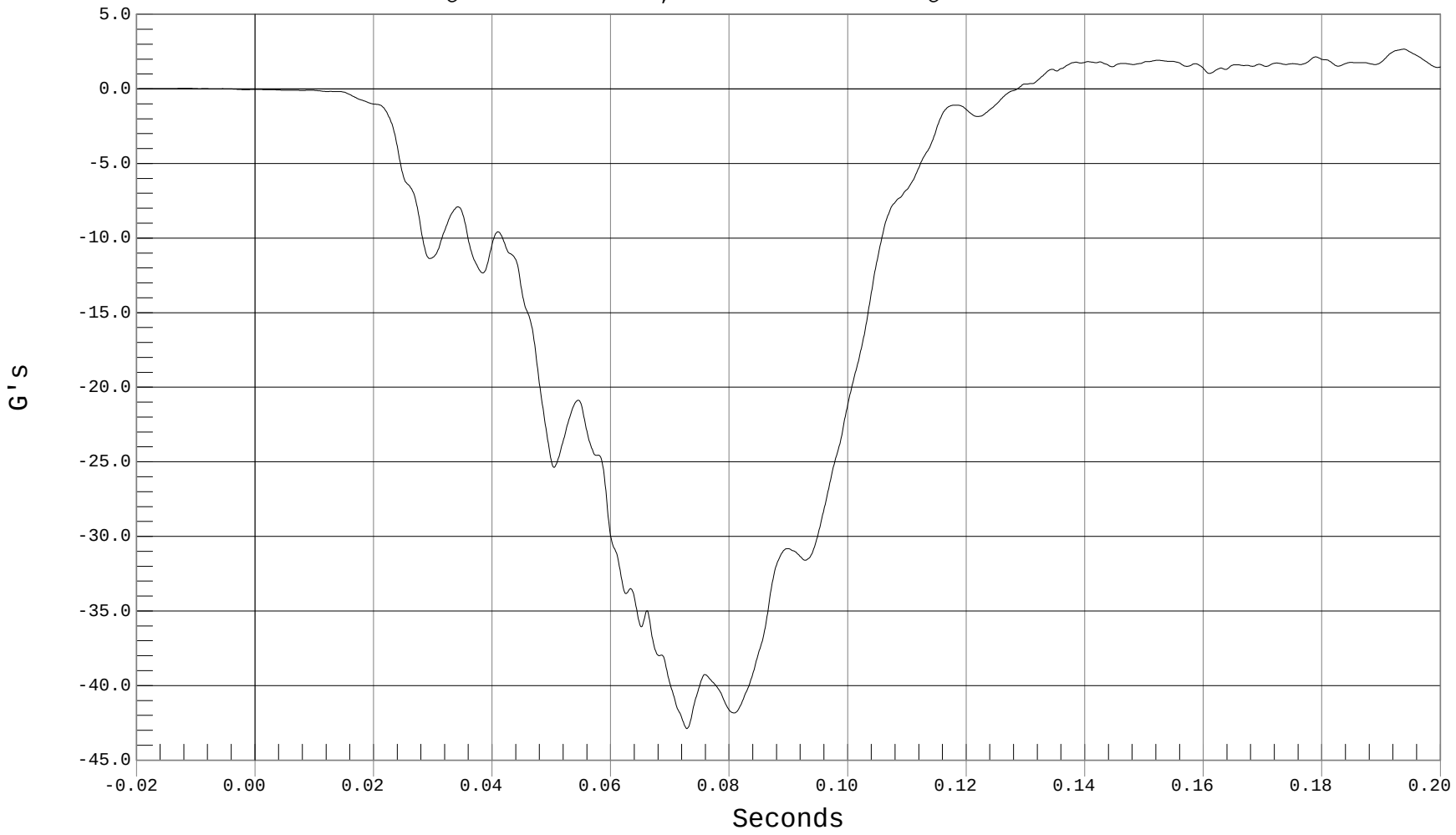
PASSENGER CHEST X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 PASSENGER CHEST X, b01005AF.A22

Ymin = -42.88 G's @ 0.0729 Seconds, Ymax = 2.67 G's @ 0.1938 Seconds



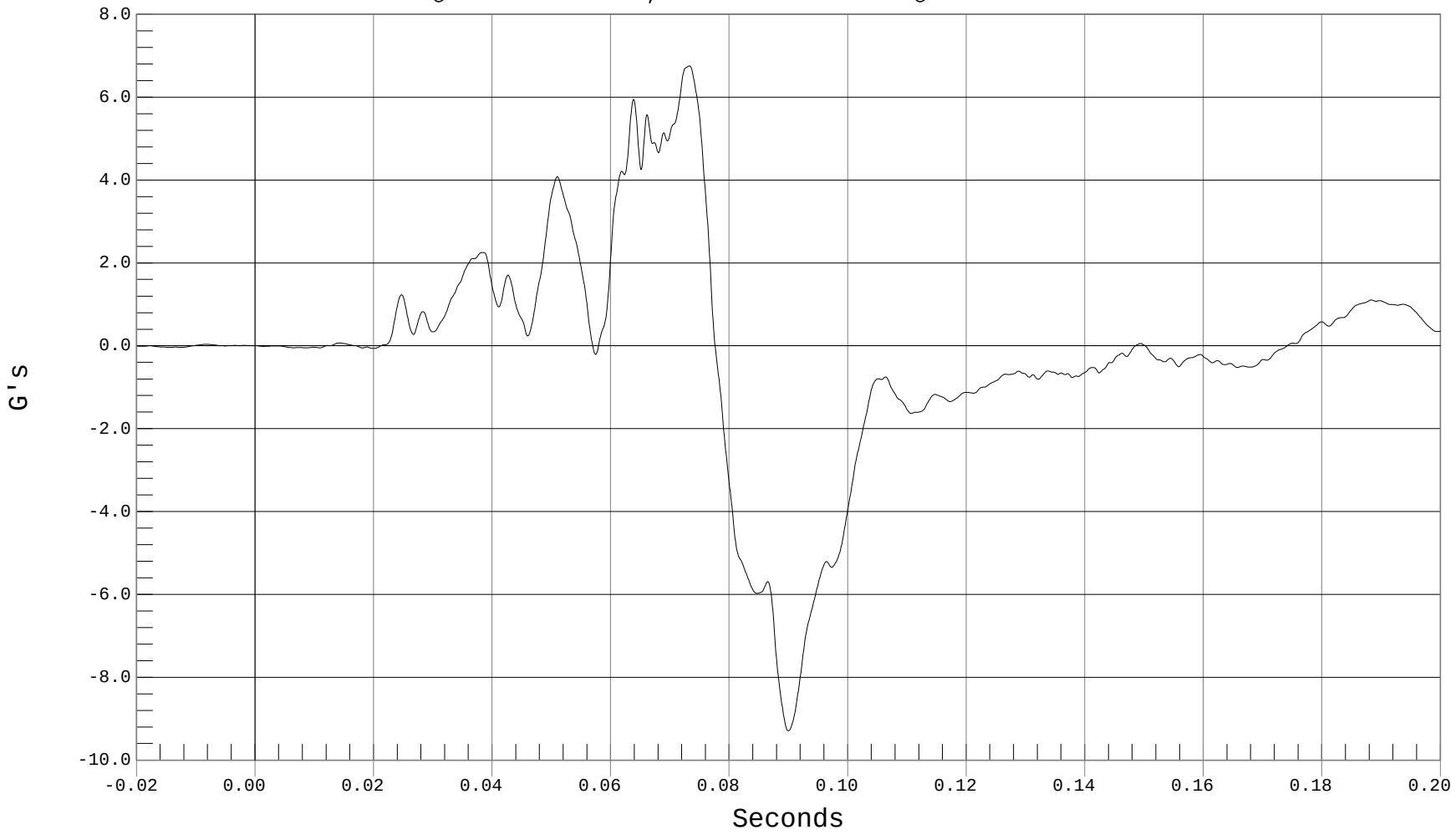
PASSENGER CHEST Y ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 PASSENGER CHEST Y, b01005AF.A23

Ymin = -9.29 G's @ 0.0900 Seconds, Ymax = 6.76 G's @ 0.0733 Seconds



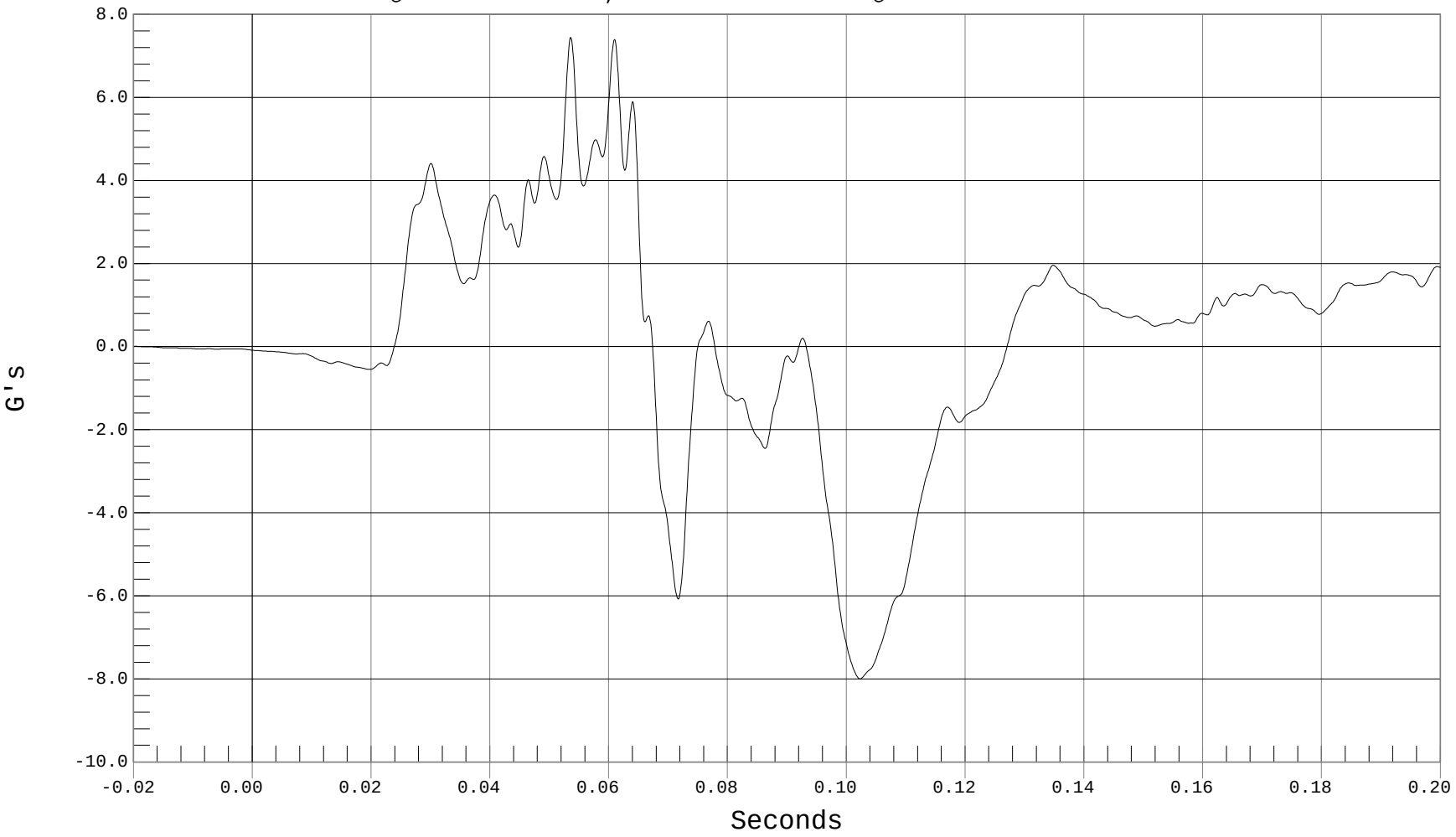
PASSENGER CHEST Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 PASSENGER CHEST Z, b01005AF.A24

Ymin = -8 G's @ 0.1023 Seconds, Ymax = 7.45 G's @ 0.0536 Seconds



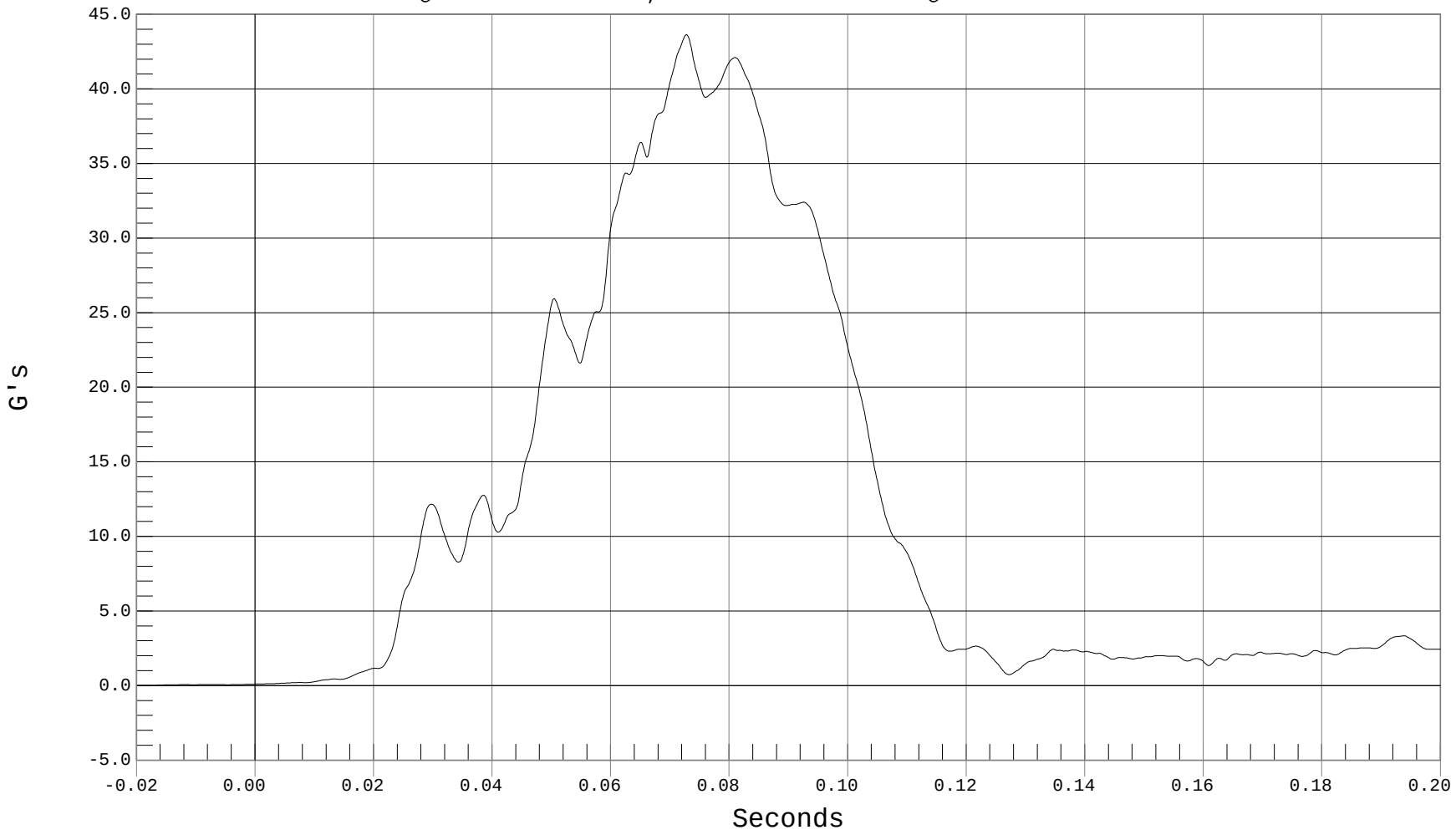
PASSENGER CHEST RESULTANT ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 PASSENGER CHEST RESULTANT ACCELERATION, b01005AV.A22

Ymin = .01 G's @ -0.0198 Seconds, Ymax = 43.64 G's @ 0.0728 Seconds



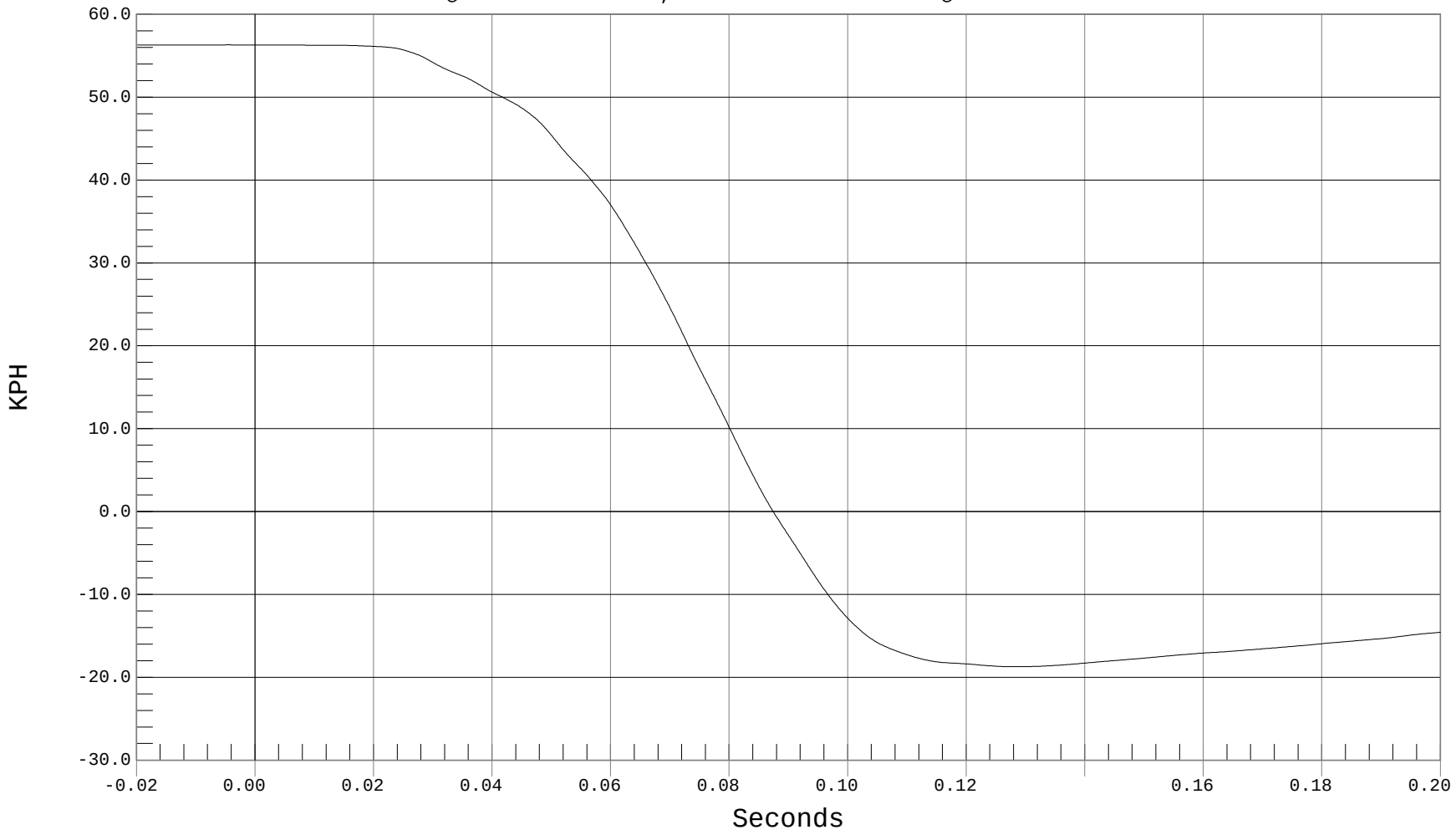
PASSENGER CHEST X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 PASSENGER CHEST X VELOCITY, b01005AI.V22

Ymin = -18.72 KPH @ 0.1286 Seconds, Ymax = 56.31 KPH @ -0.0046 Seconds



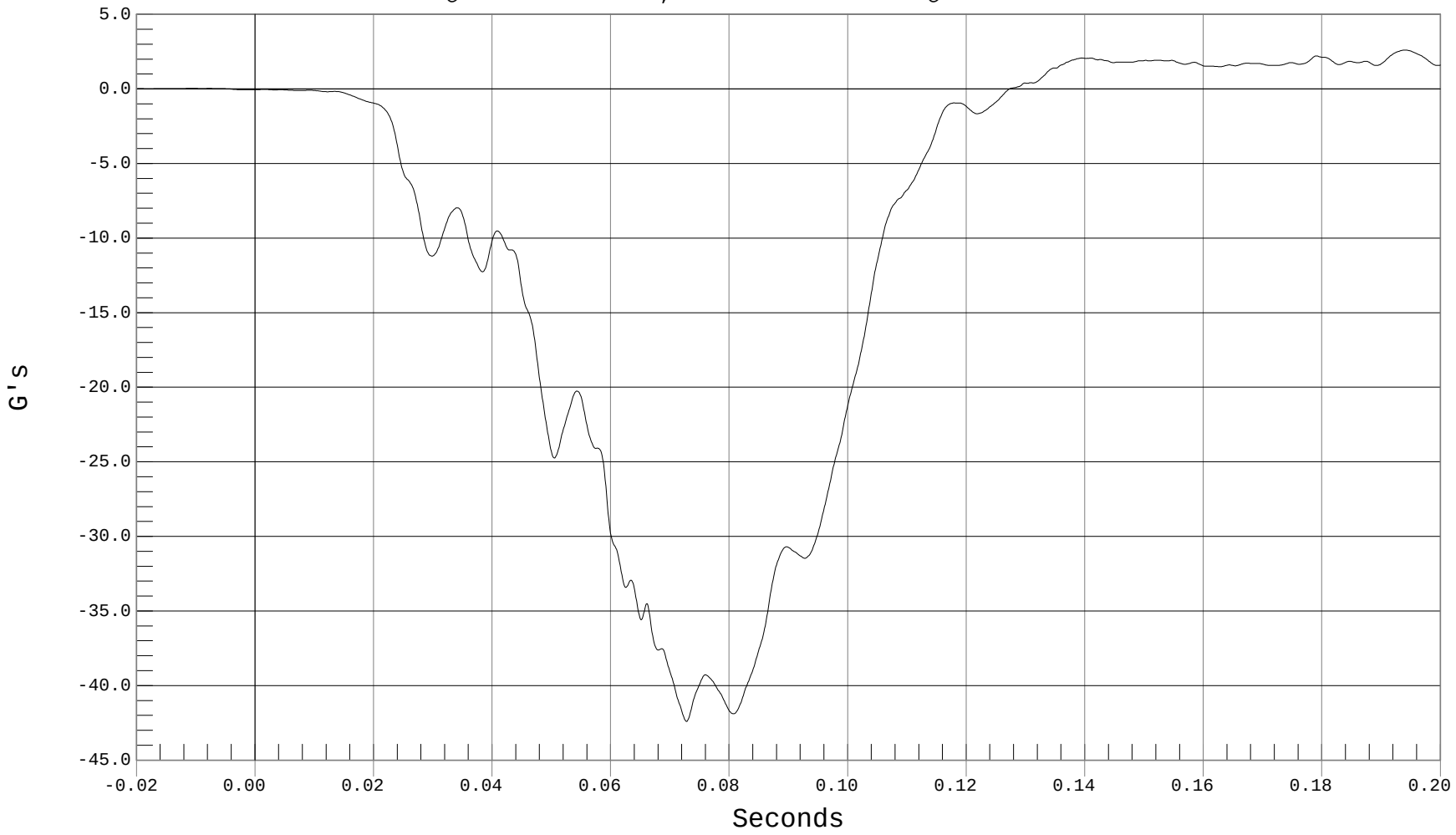
PASSENGER CHEST REDUNDANT X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 PASSENGER CHEST Xr, b01005AF.A50

Ymin = -42.41 G's @ 0.0728 Seconds, Ymax = 2.61 G's @ 0.1941 Seconds



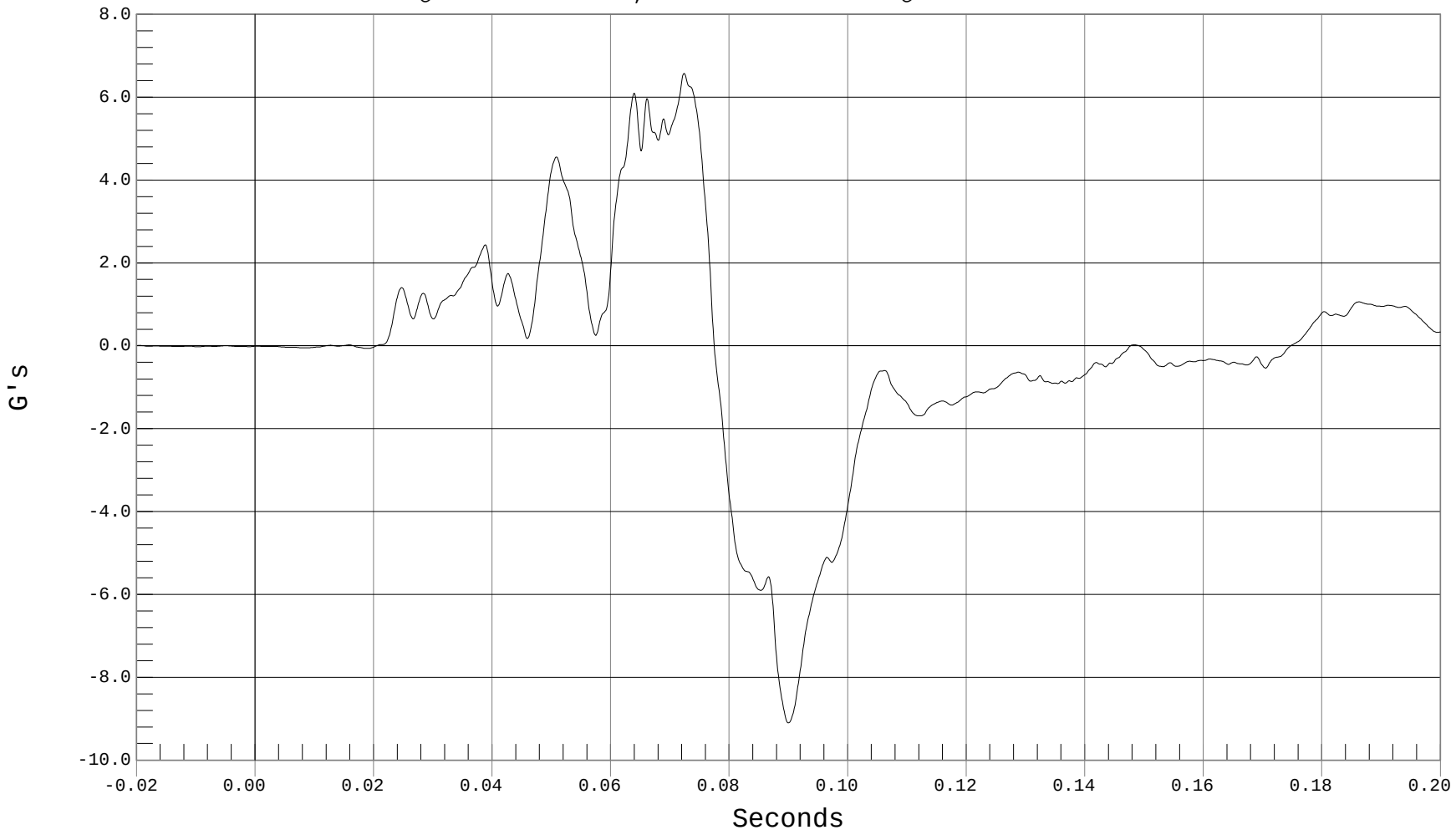
PASSENGER CHEST REDUNDANT Y ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 PASSENGER CHEST Yr, b01005AF.A51

Ymin = -9.1 G's @ 0.0900 Seconds, Ymax = 6.58 G's @ 0.0724 Seconds



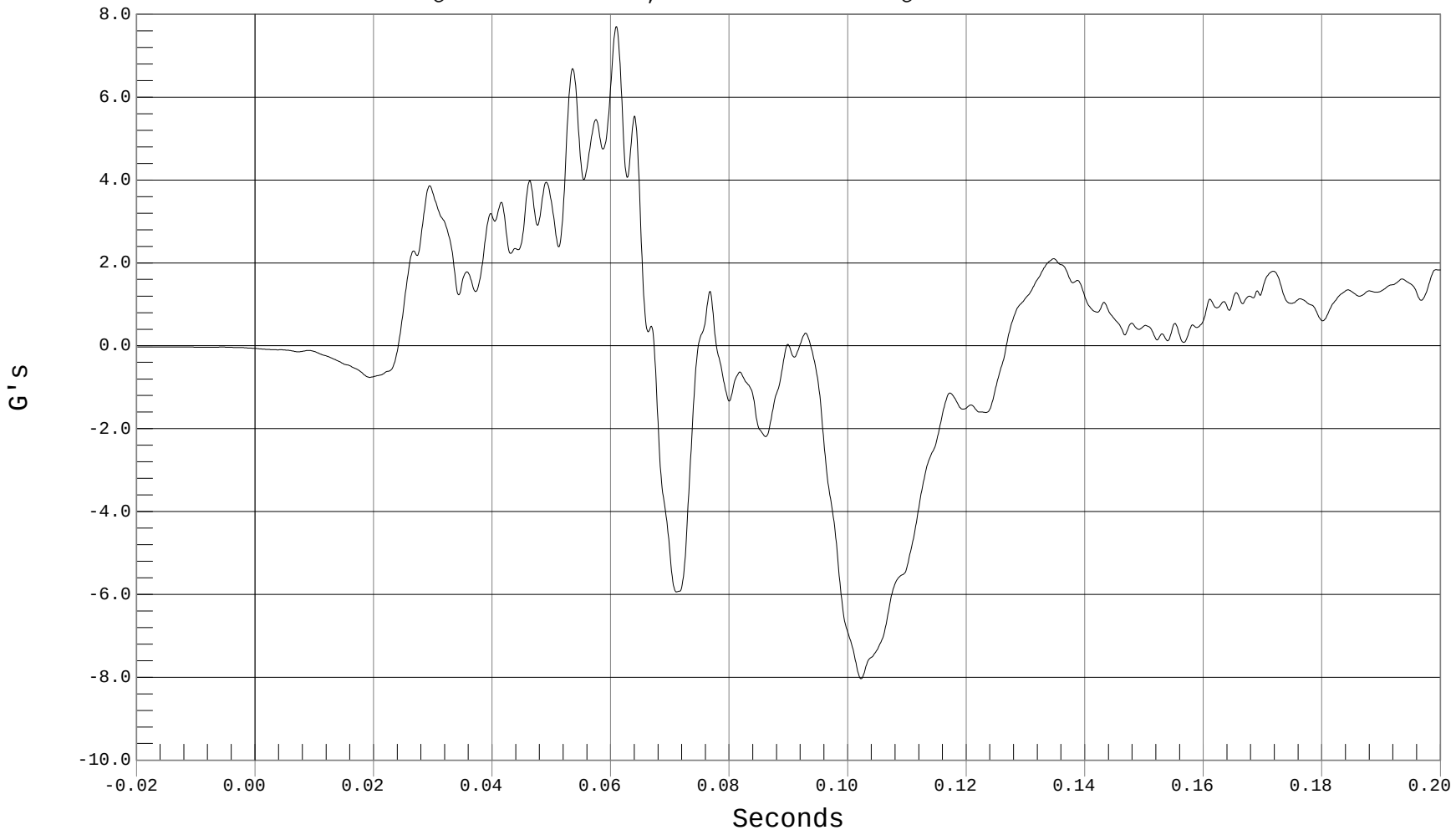
PASSENGER CHEST REDUNDANT Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 PASSENGER CHEST Zr, b01005AF.A52

Ymin = -8.04 G's @ 0.1023 Seconds, Ymax = 7.7 G's @ 0.0610 Seconds



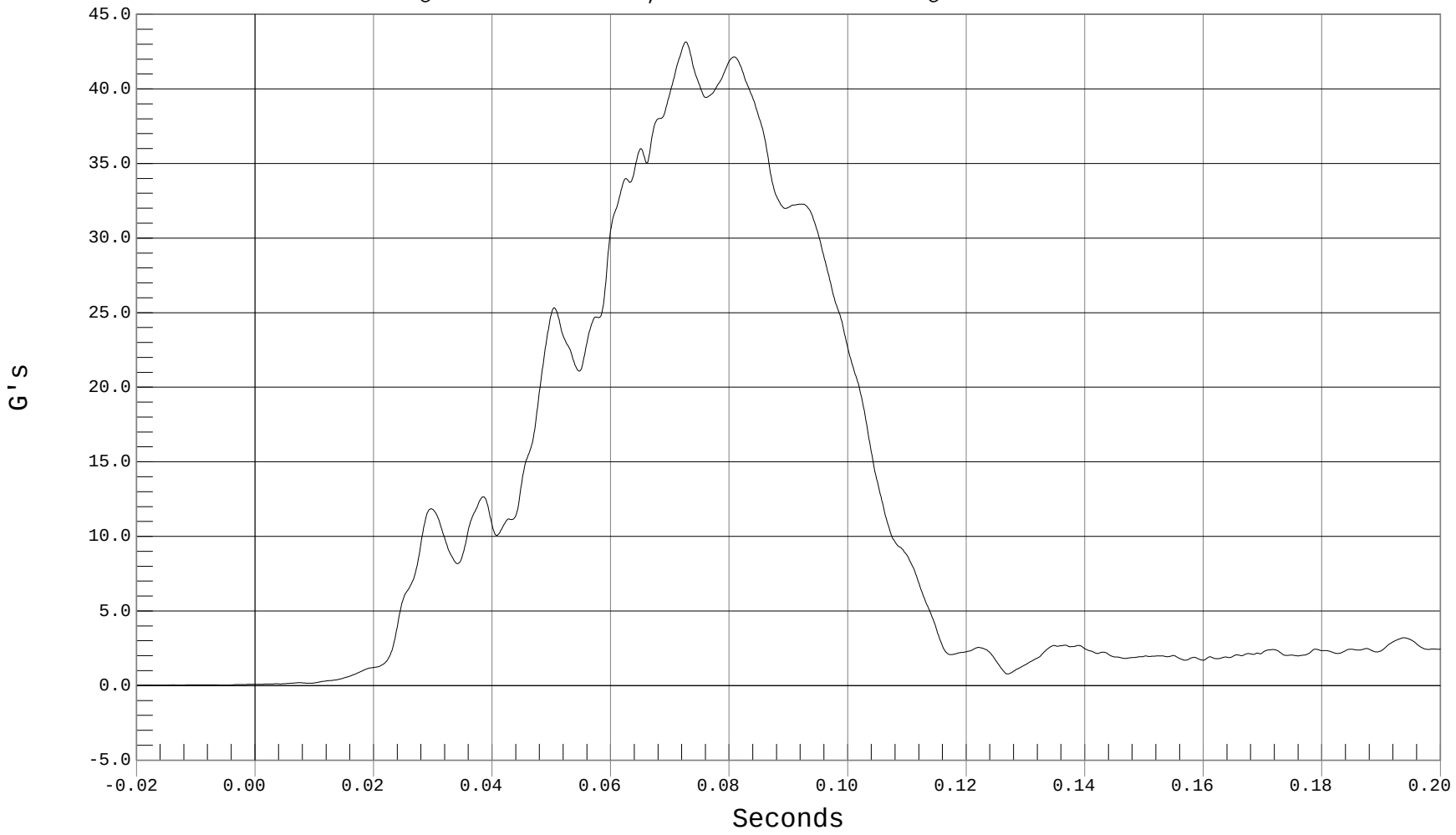
PASSENGER CHEST REDUNDANT RESULTANT ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 PASSENGER CHEST REDUNDANT RESULTANT ACCELERATION, b01005AV.A50

Ymin = .03 G's @ -0.0187 Seconds, Ymax = 43.16 G's @ 0.0727 Seconds



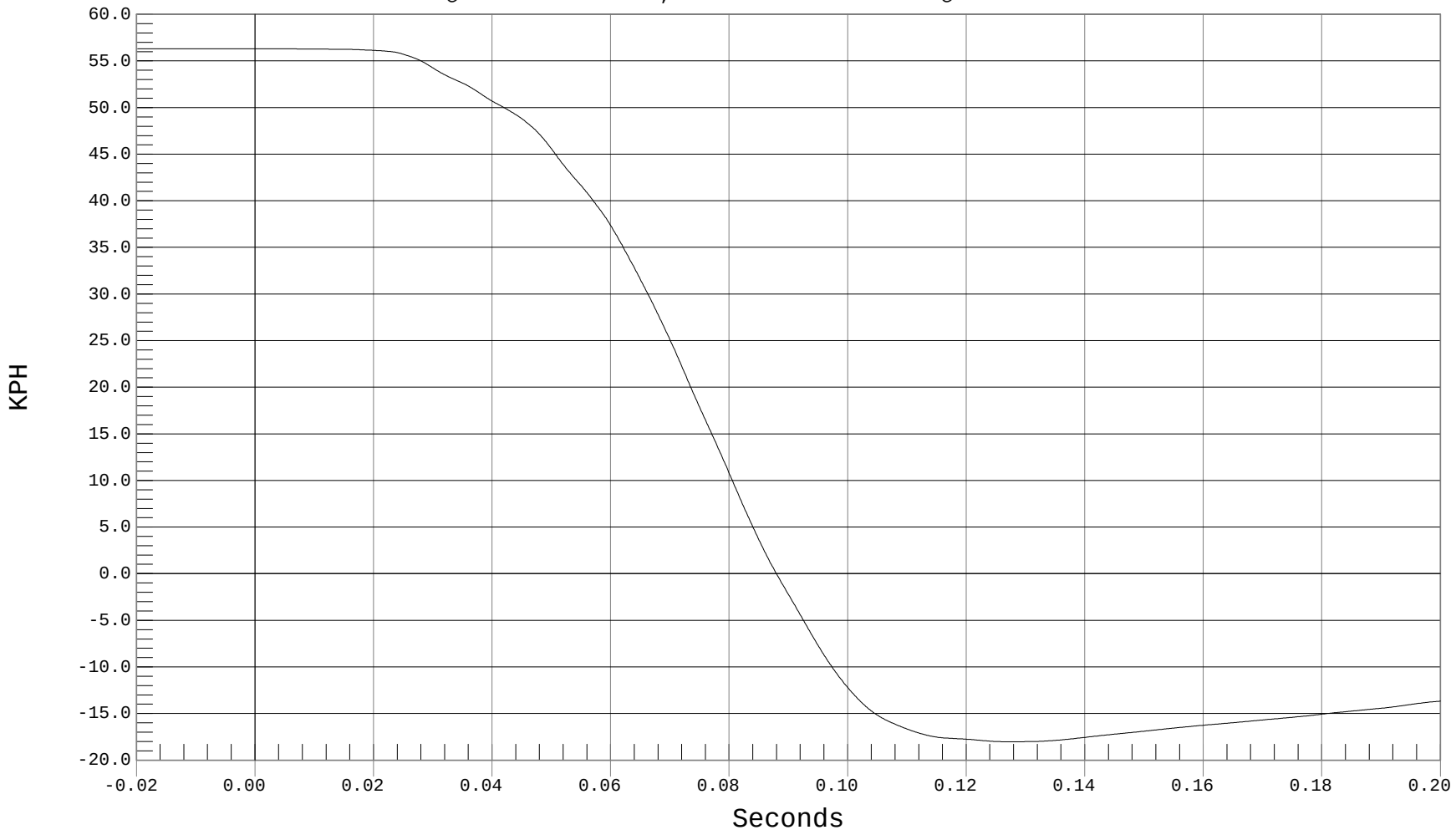
PASSENGER CHEST REDUNDANT X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 PASSENGER CHEST REDUNDANT X VELOCITY, b01005AI.V50

Ymin = -18.03 KPH @ 0.1273 Seconds, Ymax = 56.31 KPH @ -0.0045 Seconds



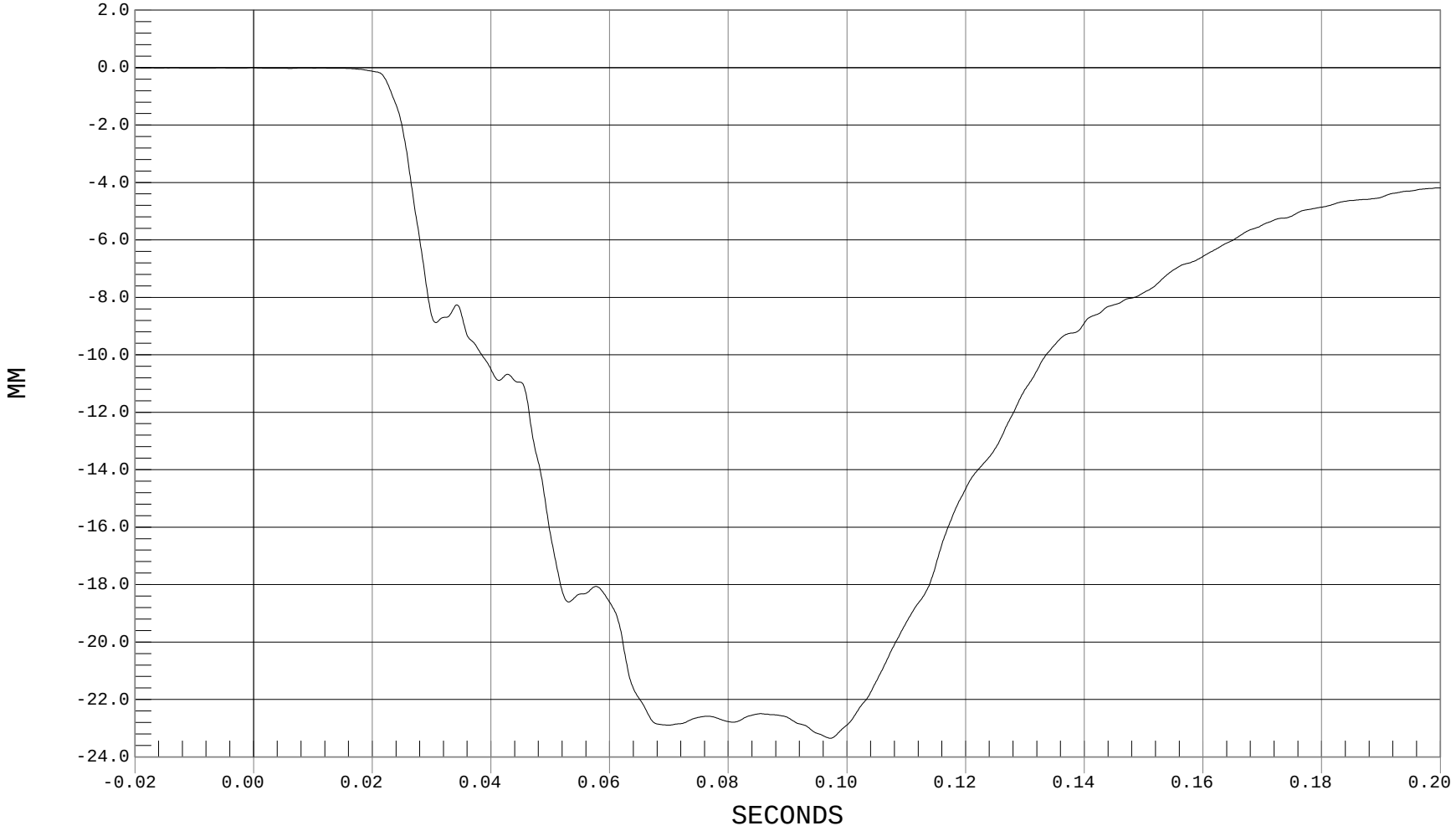
PASSENGER CHEST COMPRESSION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 PASSENGER CHEST DISP, b01005DF.D25

Ymin = -23.35 MM @ 0.0972 SECONDS, Ymax = .01 MM @ -0.0198 SECONDS

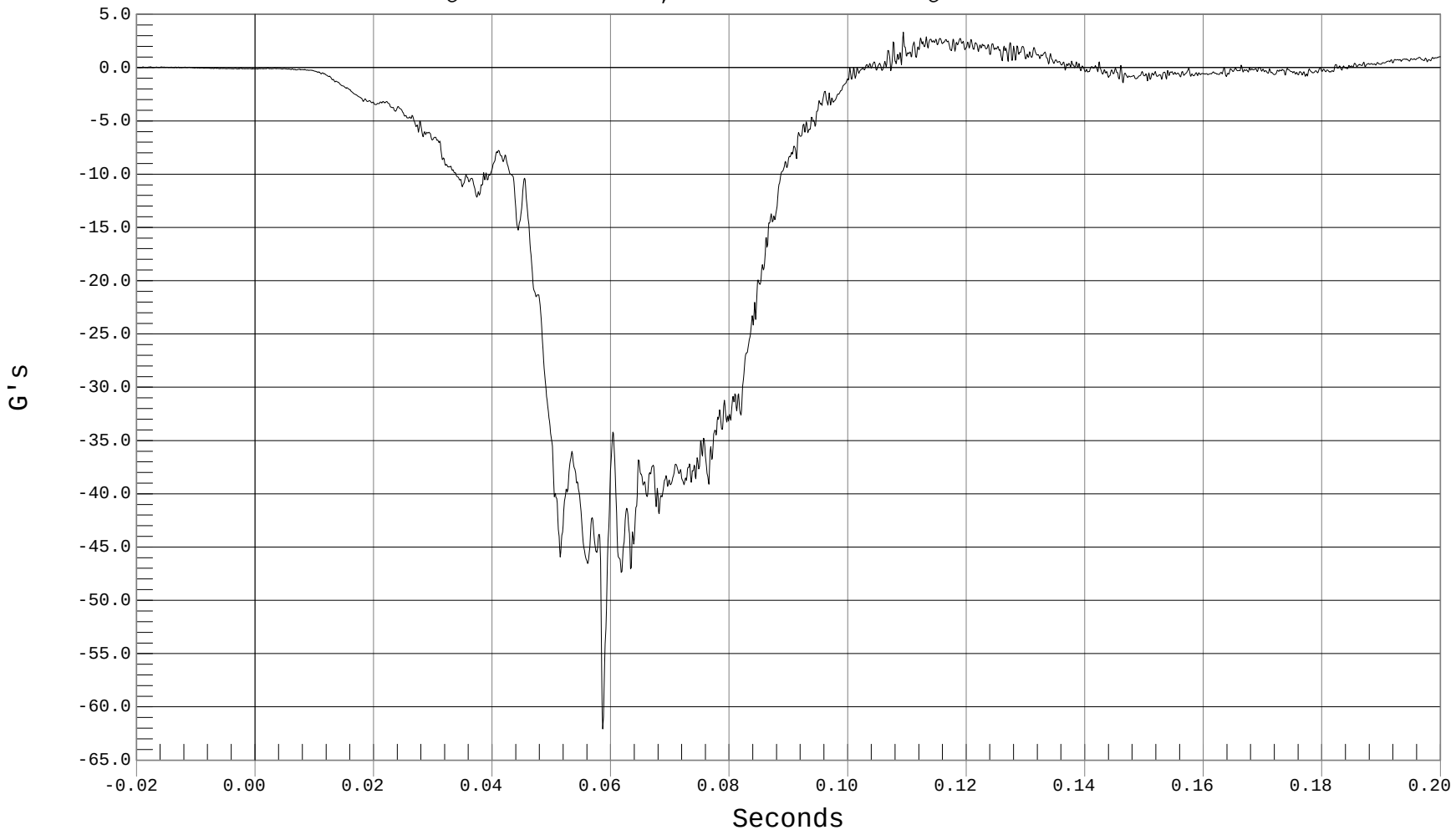


PASSENGER PELVIS X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

Ymin = -62.08 G's @ 0.0587 Seconds, Ymax = 3.31 G's @ 0.1094 Seconds



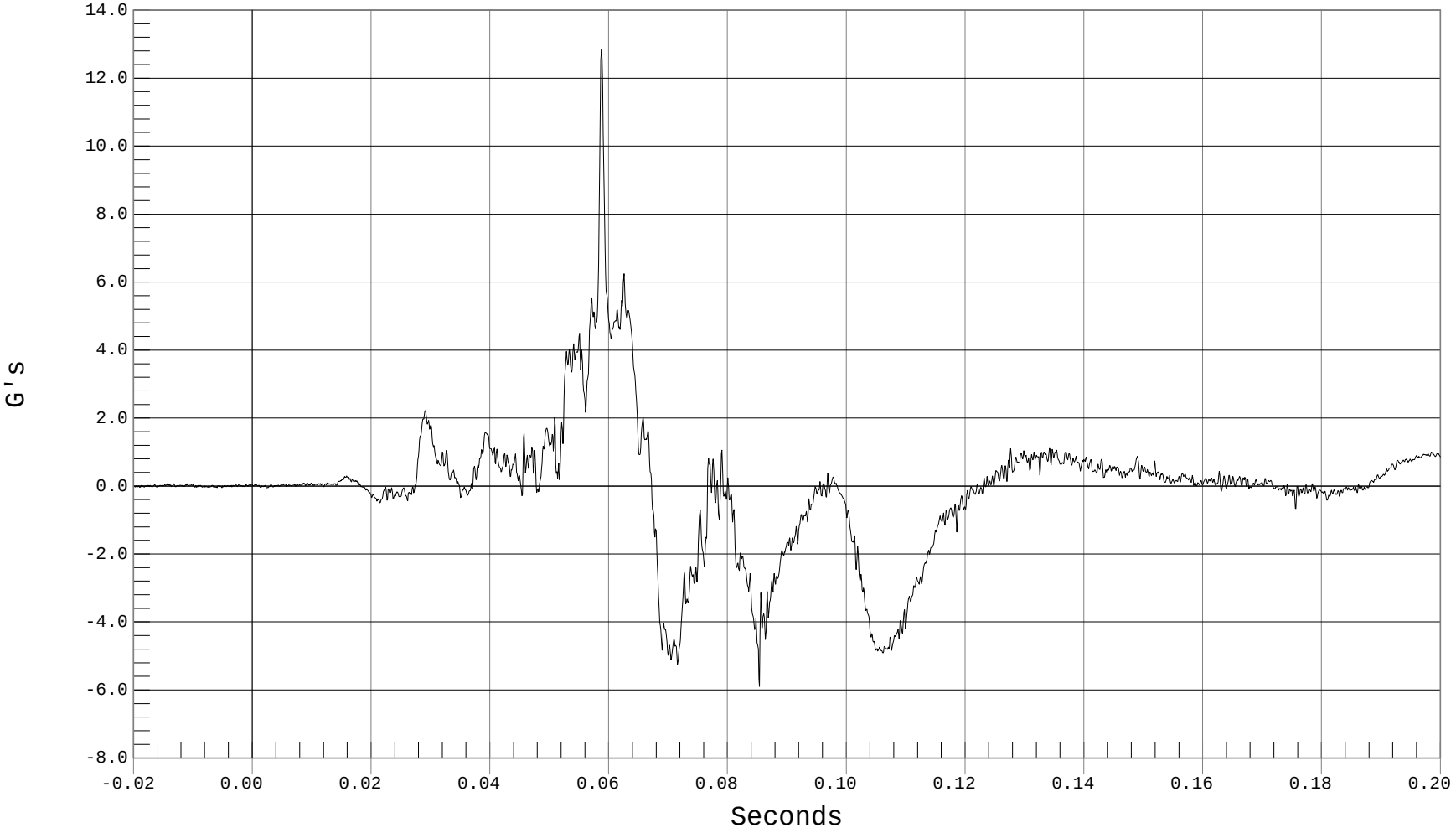
PASSENGER PELVIS Y ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 PASSENGER PELVIS Y, b01005AT.A27

Ymin = -5.9 G's @ 0.0854 Seconds, Ymax = 12.85 G's @ 0.0588 Seconds



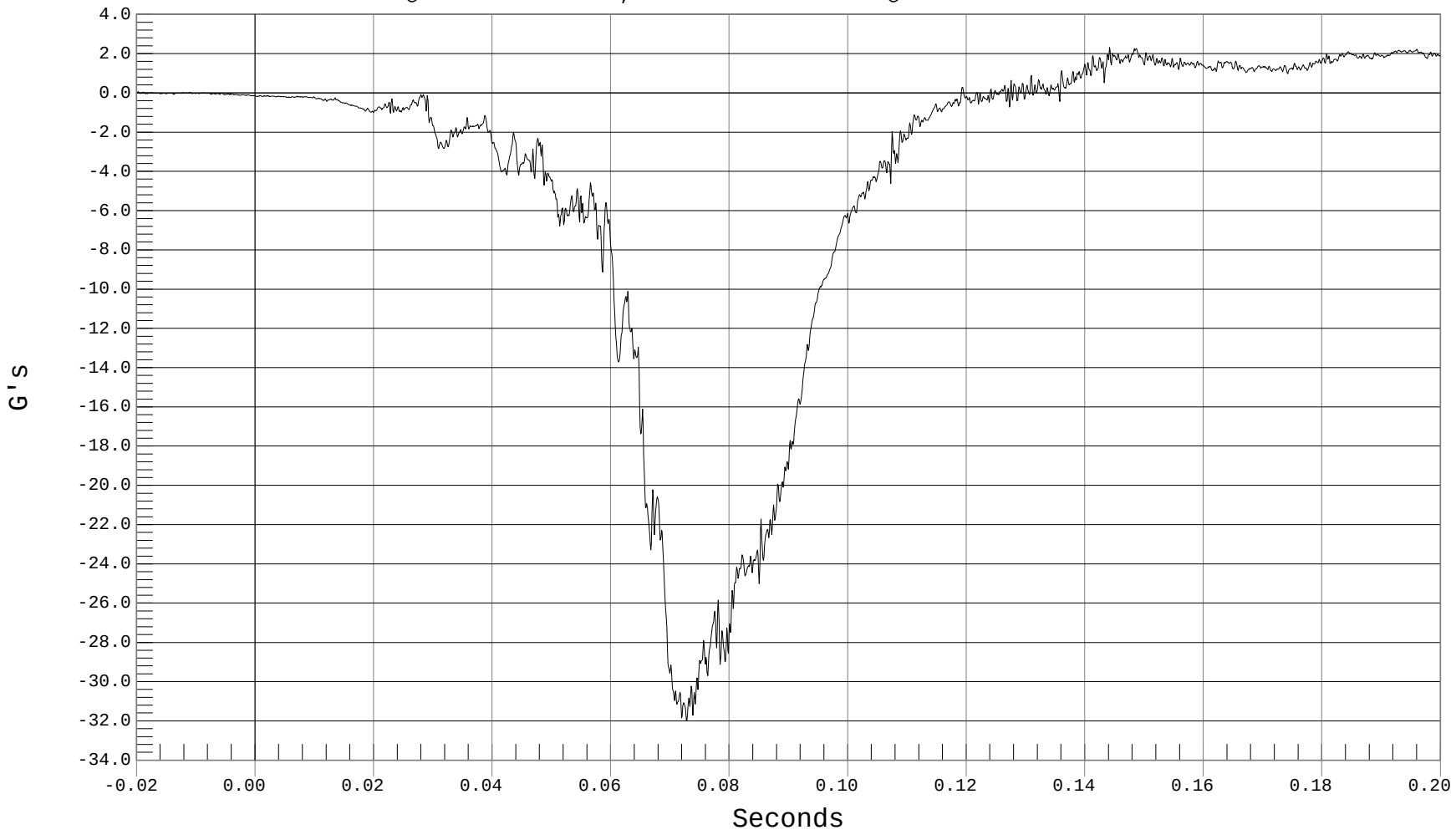
PASSENGER PELVIS Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 PASSENGER PELVIS Z, b01005AT.A28

Ymin = -32 G's @ 0.0728 Seconds, Ymax = 2.32 G's @ 0.1442 Seconds



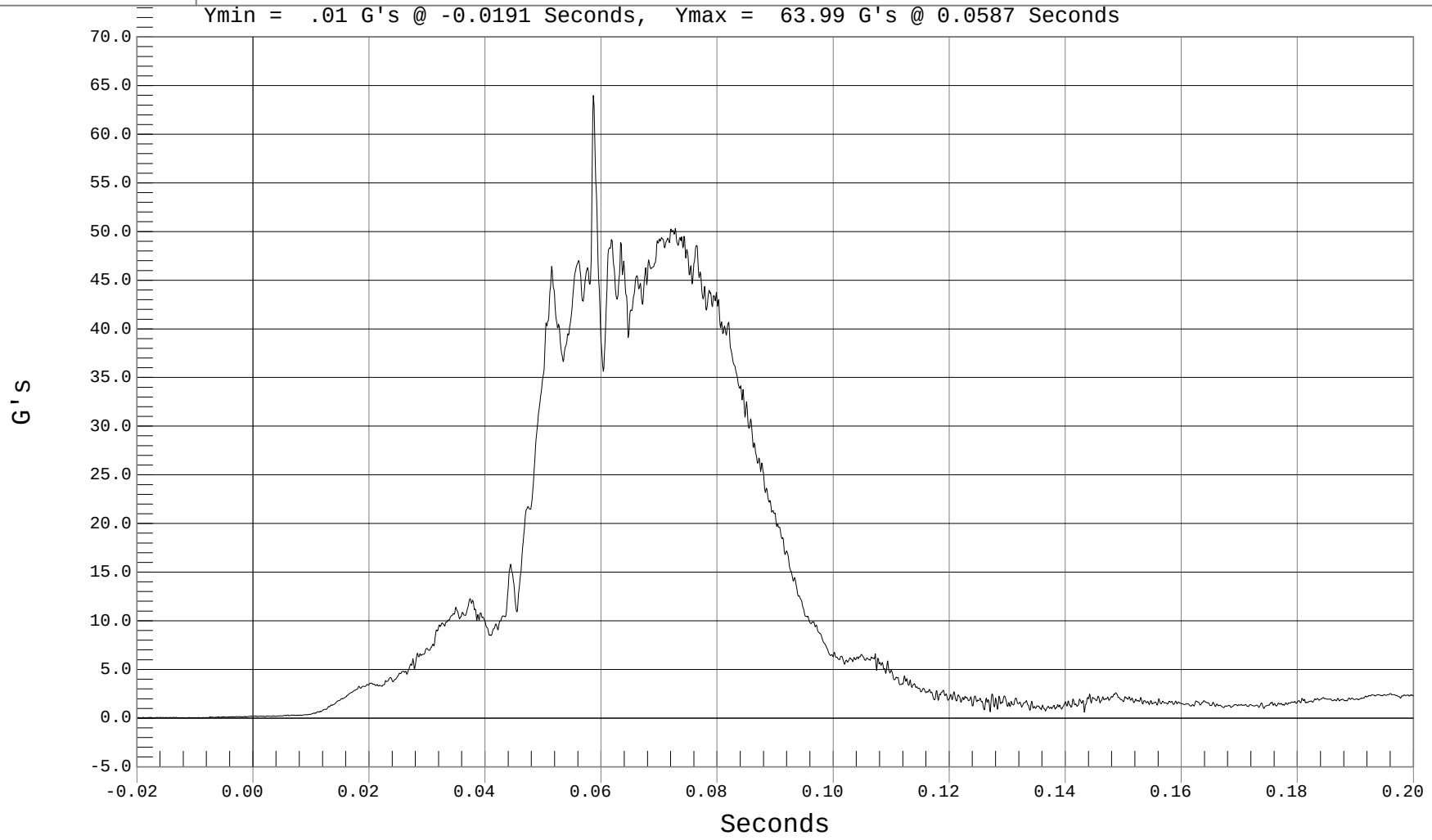
PASSENGER PELVIS RESULTANT ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 PASSENGER PELVIS RESULTANT ACCELERATION, b01005AV.A26

Ymin = .01 G's @ -0.0191 Seconds, Ymax = 63.99 G's @ 0.0587 Seconds



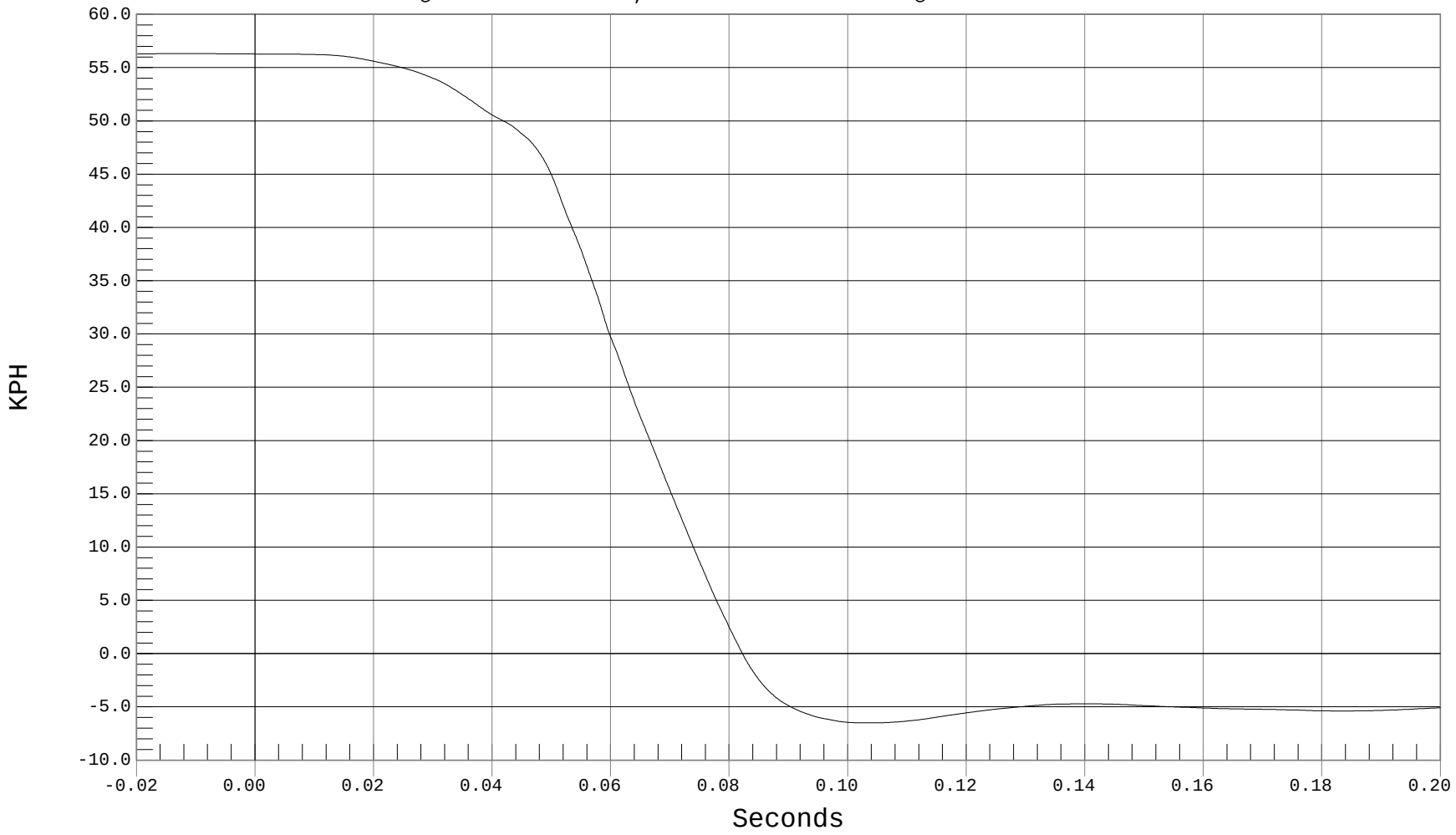
PASSENGER PELVIS X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 PASSENGER PELVIS X VELOCITY, b01005AI.V26

Ymin = -6.5 KPH @ 0.1029 Seconds, Ymax = 56.31 KPH @ -0.0106 Seconds



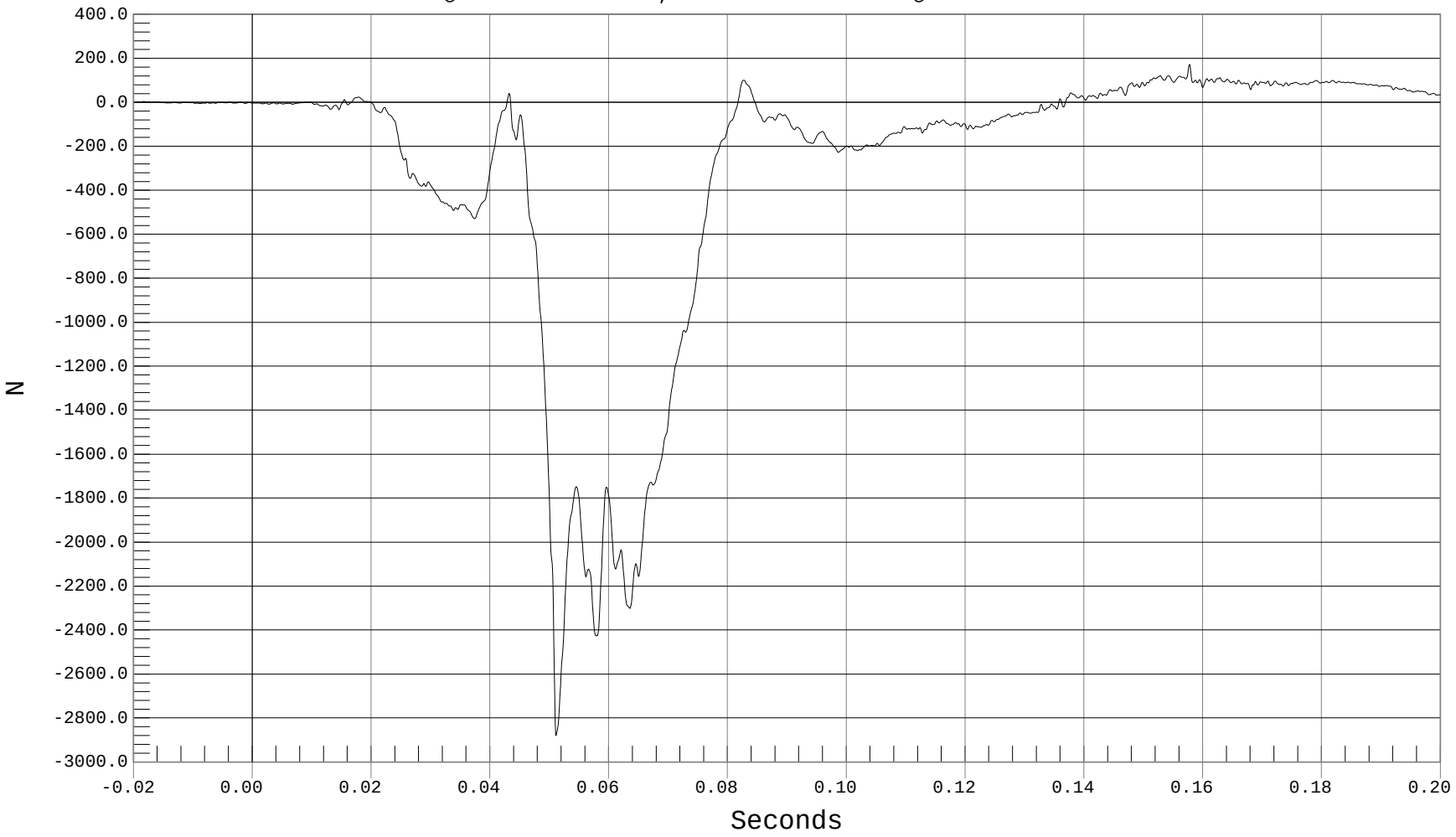
PASSENGER LEFT FEMUR FORCE

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 PASSENGER LEFT FEMUR, b01005FF.F30

Ymin = -2880.22 N @ 0.0511 Seconds, Ymax = 172.1 N @ 0.1578 Seconds



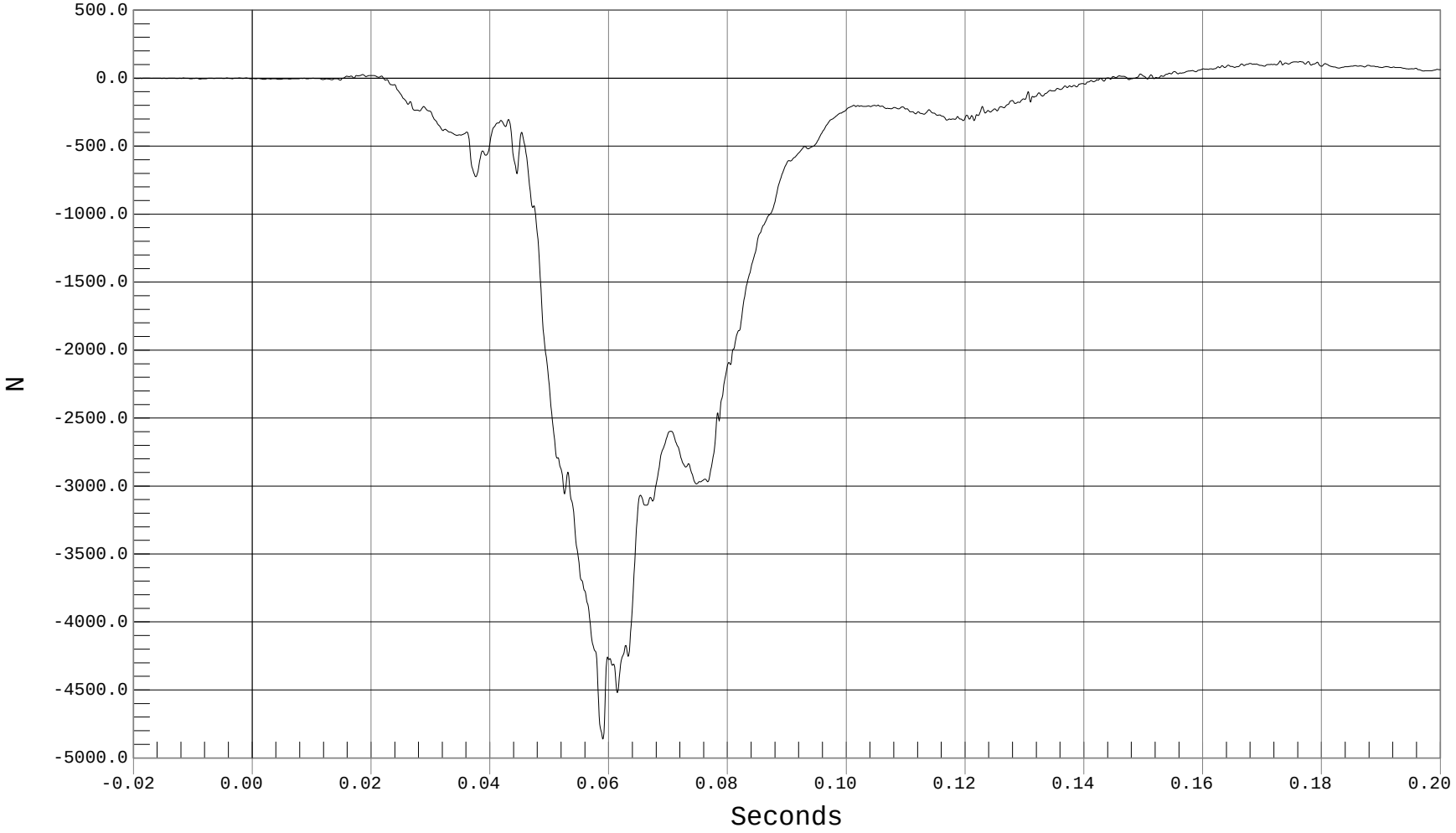
PASSENGER RIGHT FEMUR FORCE

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 PASSENGER RIGHT FEMUR, b01005FF.F29

Ymin = -4861.02 N @ 0.0590 Seconds, Ymax = 126.28 N @ 0.1731 Seconds



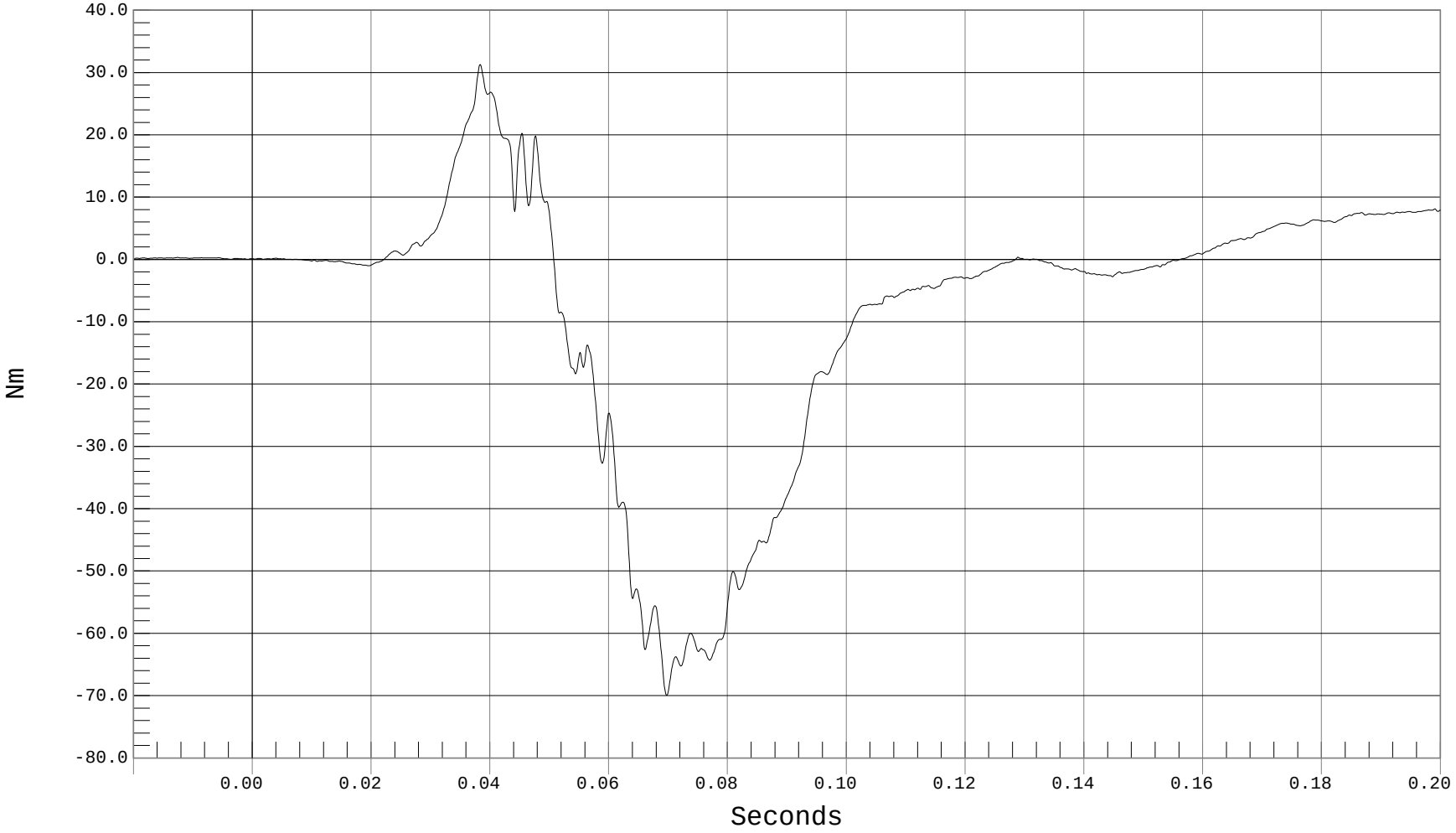
PASSENGER LEFT UPPER TIBIA MOMENT X

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 PASSENGER LEFT UPPER TIBIA MX, b01005MF.M87

Ymin = -69.94 Nm @ 0.0698 Seconds, Ymax = 31.28 Nm @ 0.0384 Seconds



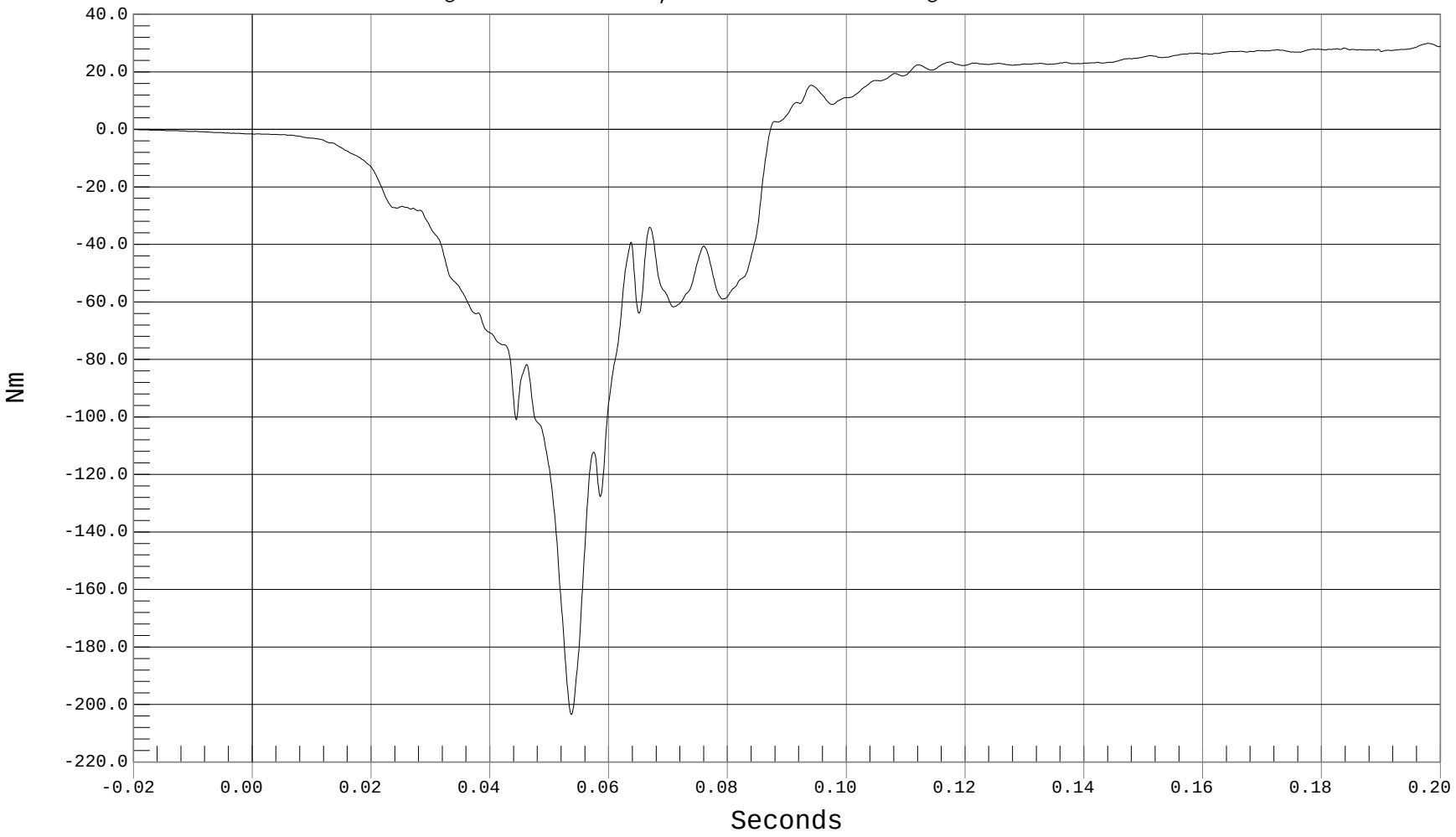
PASSENGER LEFT UPPER TIBIA MOMENT Y

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 PASSENGER LEFT UPPER TIBIA MY, b01005MF.M88

Ymin = -203.45 Nm @ 0.0538 Seconds, Ymax = 29.96 Nm @ 0.1979 Seconds



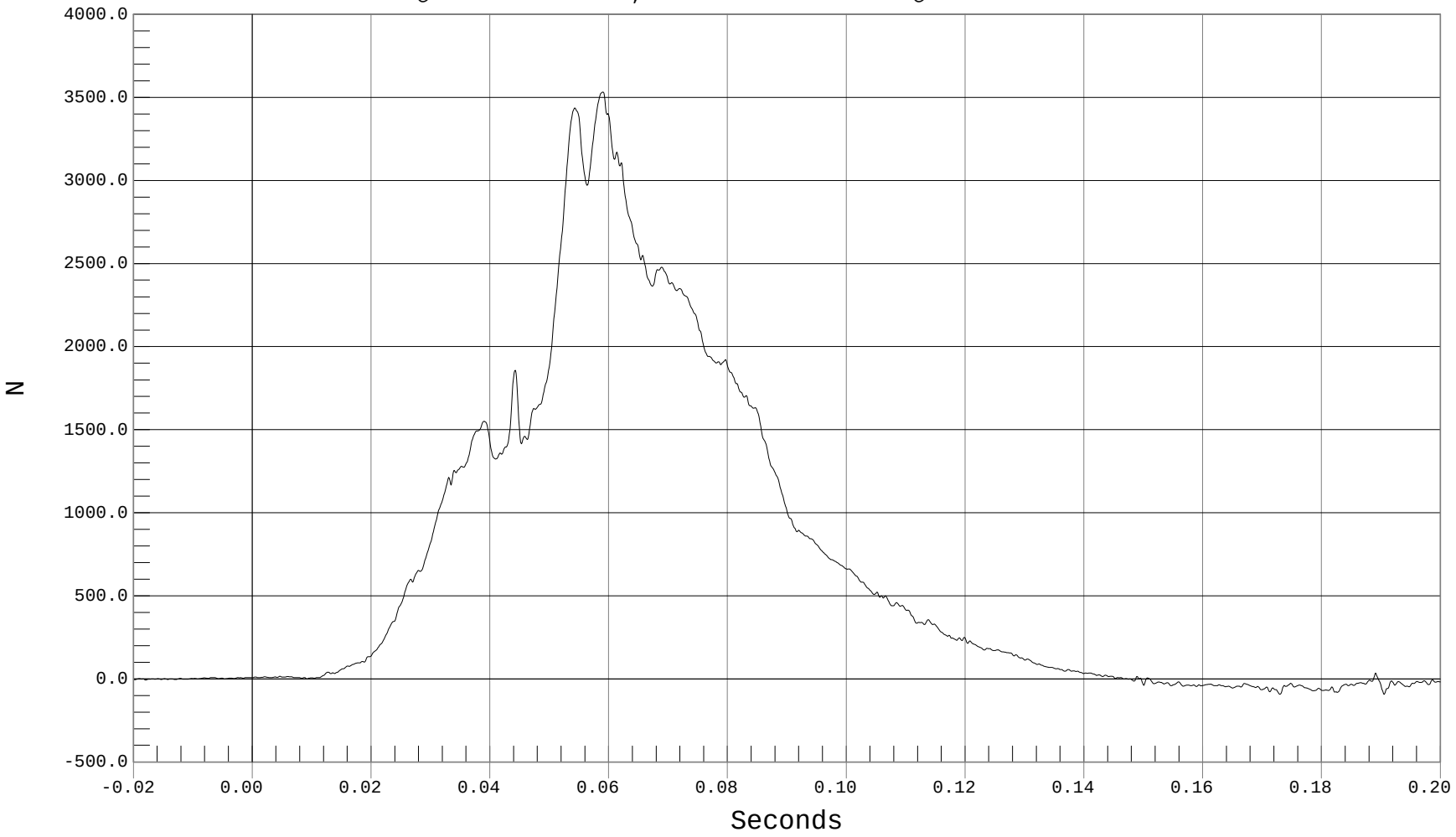
PASSENGER LEFT UPPER TIBIA FORCE Z

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 PASSENGER LEFT UPPER TIBIA FZ, b01005FF.F89

Ymin = -91.89 N @ 0.1906 Seconds, Ymax = 3532.57 N @ 0.0590 Seconds



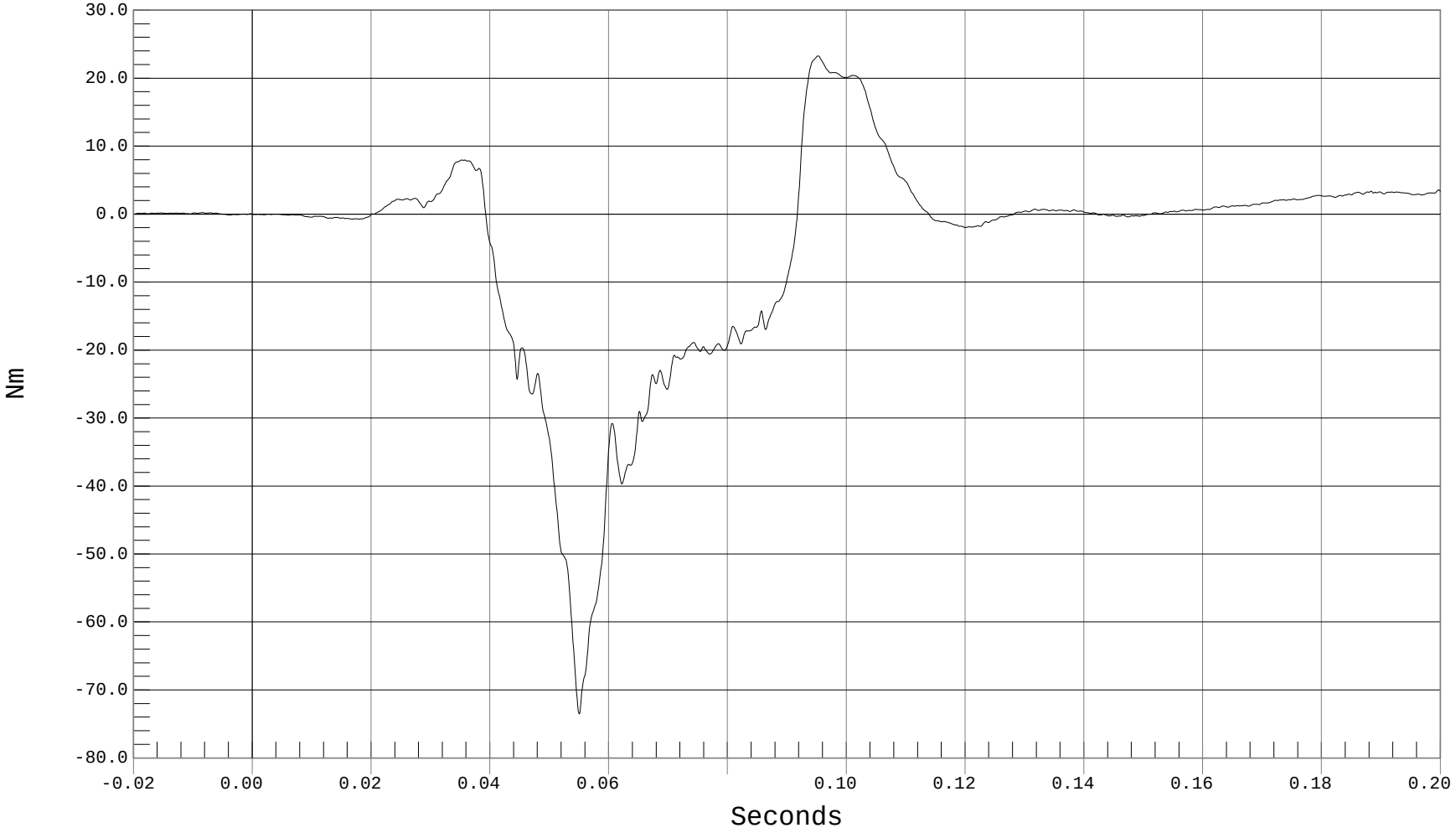
PASSENGER LEFT LOWER TIBIA MOMENT X

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 PASSENGER LEFT LOWER TIBIA MX, b01005MF.M90

Ymin = -73.52 Nm @ 0.0550 Seconds, Ymax = 23.27 Nm @ 0.0953 Seconds



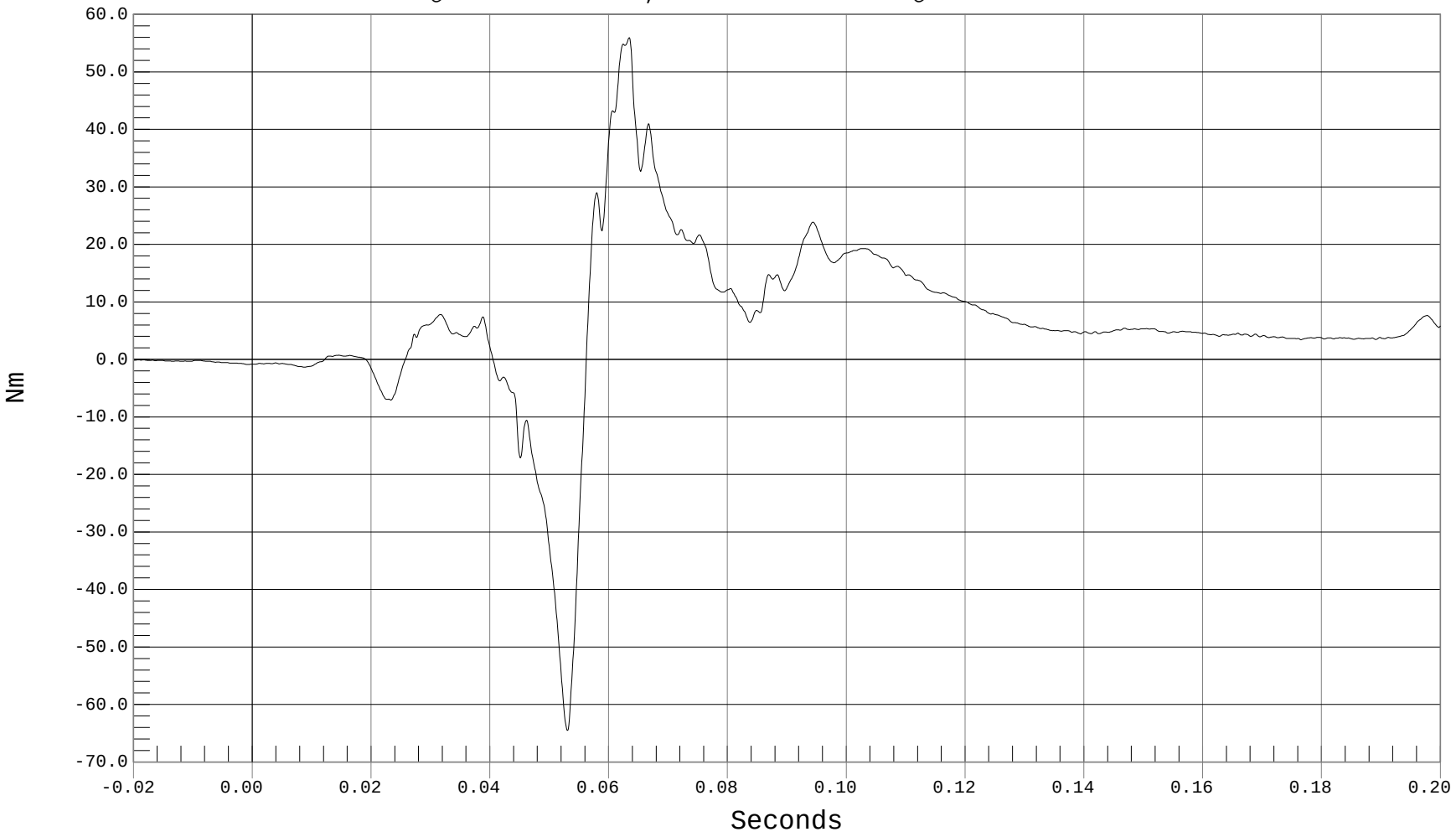
PASSENGER LEFT LOWER TIBIA MOMENT Y

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 PASSENGER LEFT LOWER TIBIA MY, b01005MF.M91

Ymin = -64.55 Nm @ 0.0531 Seconds, Ymax = 55.96 Nm @ 0.0635 Seconds



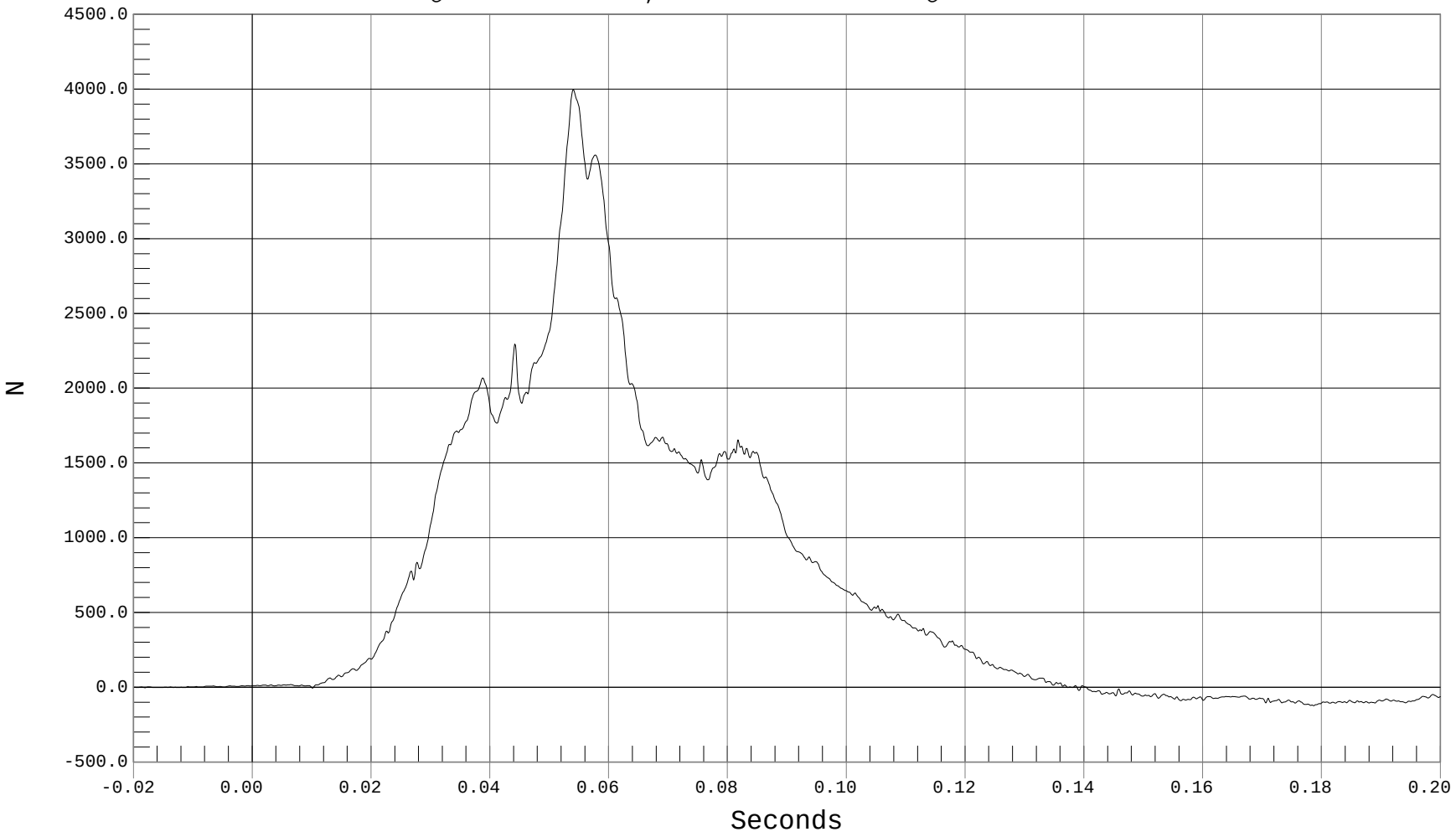
PASSENGER LEFT LOWER TIBIA FORCE Z

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 PASSENGER LEFT LOWER TIBIA FZ, b01005FF.F92

Ymin = -123.11 N @ 0.1787 Seconds, Ymax = 3994.97 N @ 0.0540 Seconds



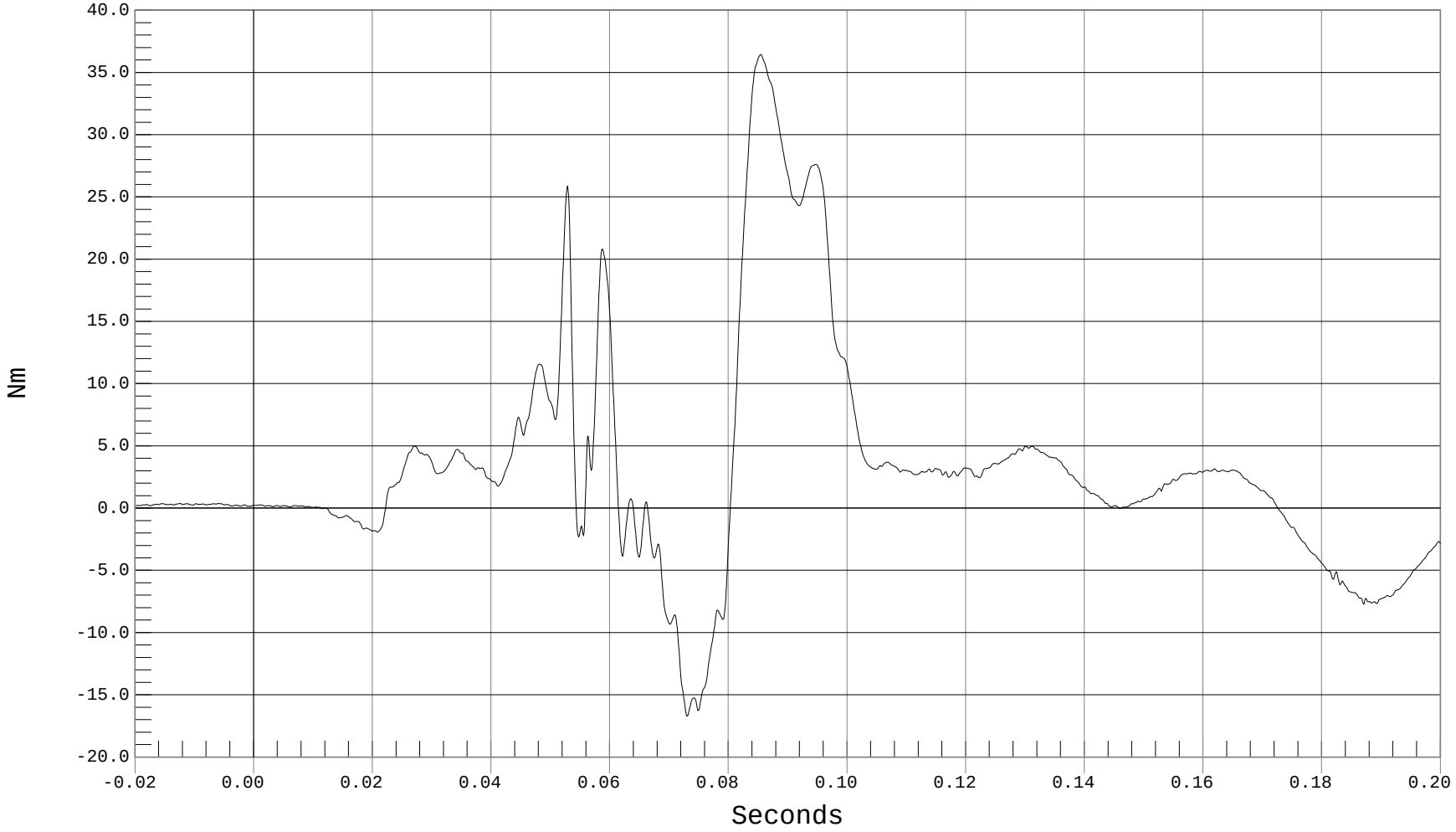
PASSENGER RIGHT UPPER TIBIA MOMENT X

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 PASSENGER RIGHT UPPER TIBIA MX, b01005MF.M81

Ymin = -16.72 Nm @ 0.0731 Seconds, Ymax = 36.43 Nm @ 0.0855 Seconds



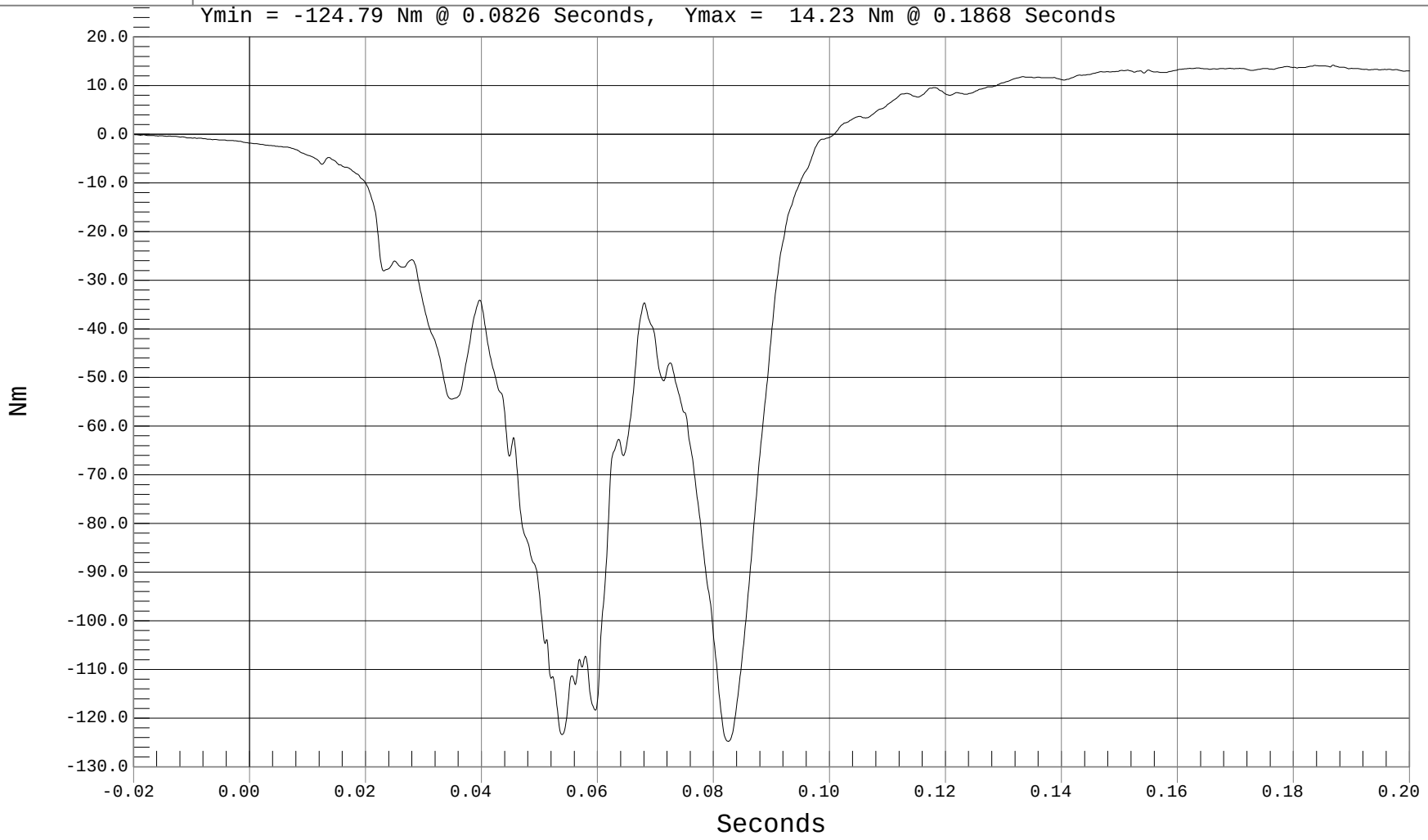
PASSENGER RIGHT UPPER TIBIA MOMENT Y

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 PASSENGER RIGHT UPPER TIBIA MY, b01005MF.M82

Ymin = -124.79 Nm @ 0.0826 Seconds, Ymax = 14.23 Nm @ 0.1868 Seconds



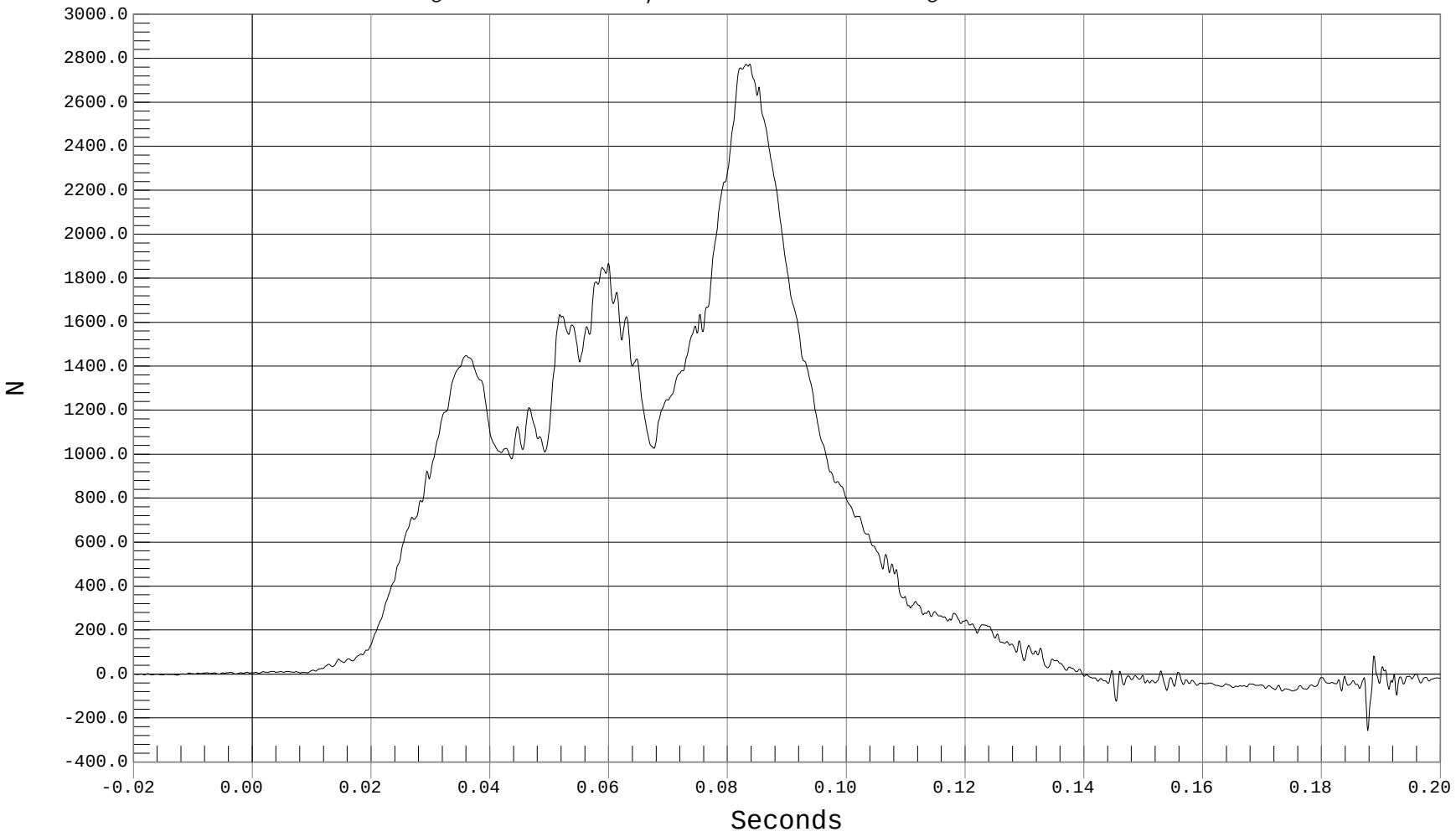
PASSENGER RIGHT UPPER TIBIA FORCE Z

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 PASSENGER RIGHT UPPER TIBIA FZ, b01005FF.F83

Ymin = -257.76 N @ 0.1878 Seconds, Ymax = 2774.06 N @ 0.0838 Seconds



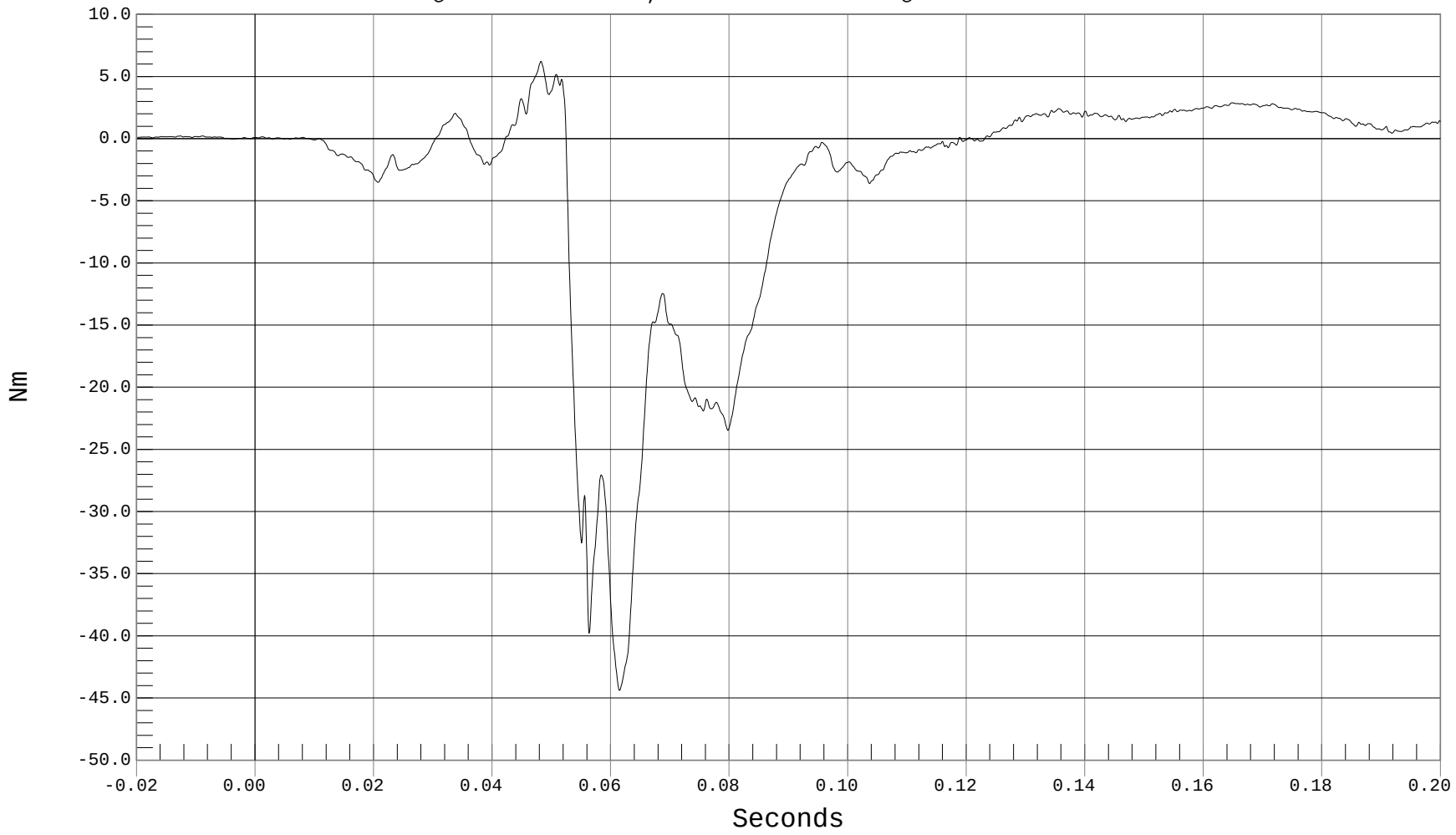
PASSENGER RIGHT LOWER TIBIA MOMENT X

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 PASSENGER RIGHT LOWER TIBIA MX, b01005MF.M84

Ymin = -44.39 Nm @ 0.0615 Seconds, Ymax = 6.21 Nm @ 0.0483 Seconds



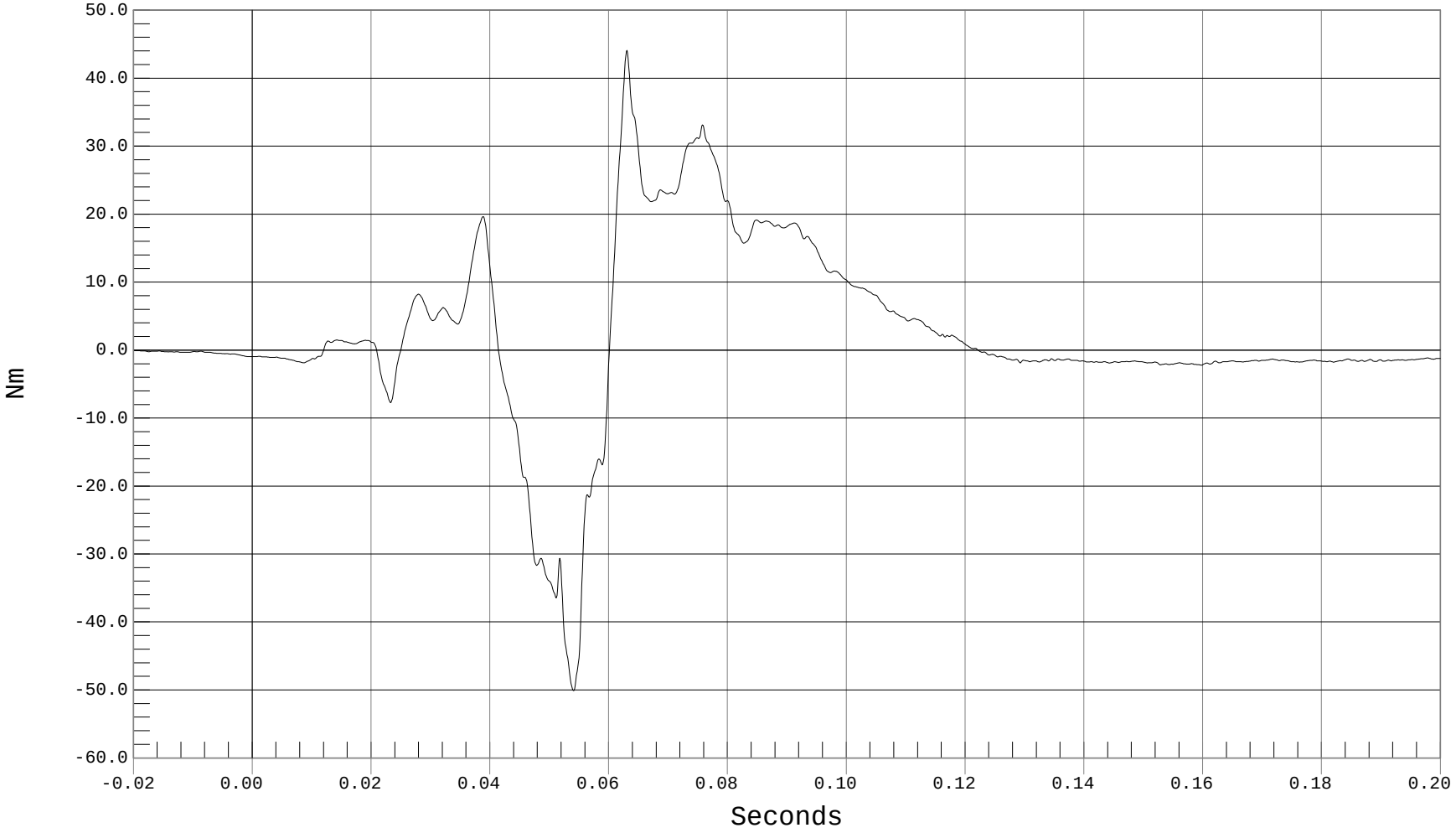
PASSENGER RIGHT LOWER TIBIA MOMENT Y

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 PASSENGER RIGHT LOWER TIBIA MY, b01005MF.M85

Ymin = -50.12 Nm @ 0.0541 Seconds, Ymax = 44.08 Nm @ 0.0631 Seconds



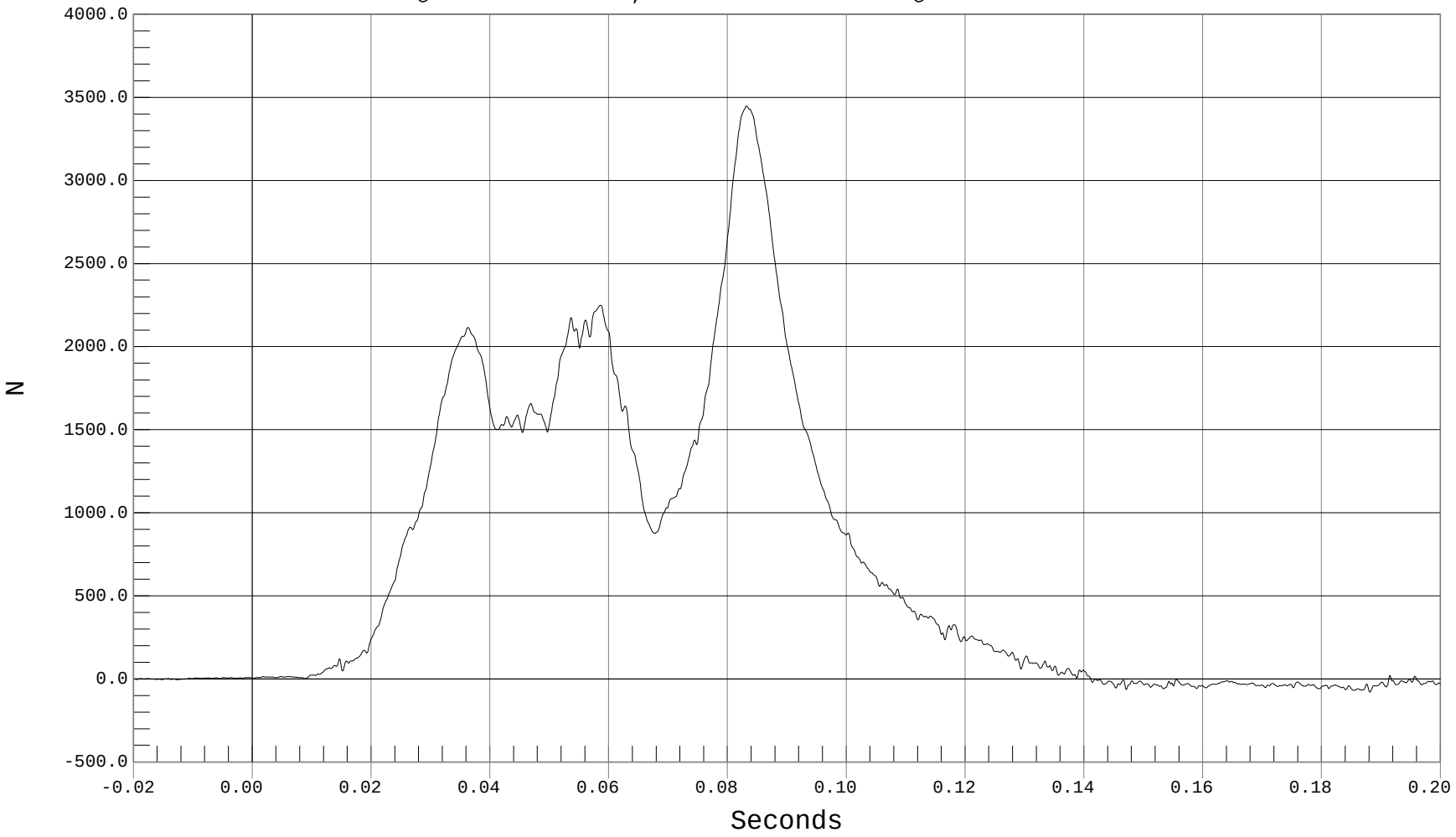
PASSENGER RIGHT LOWER TIBIA FORCE Z

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 PASSENGER RIGHT LOWER TIBIA FZ, b01005FF.F86

Ymin = -79.85 N @ 0.1882 Seconds, Ymax = 3448.22 N @ 0.0832 Seconds



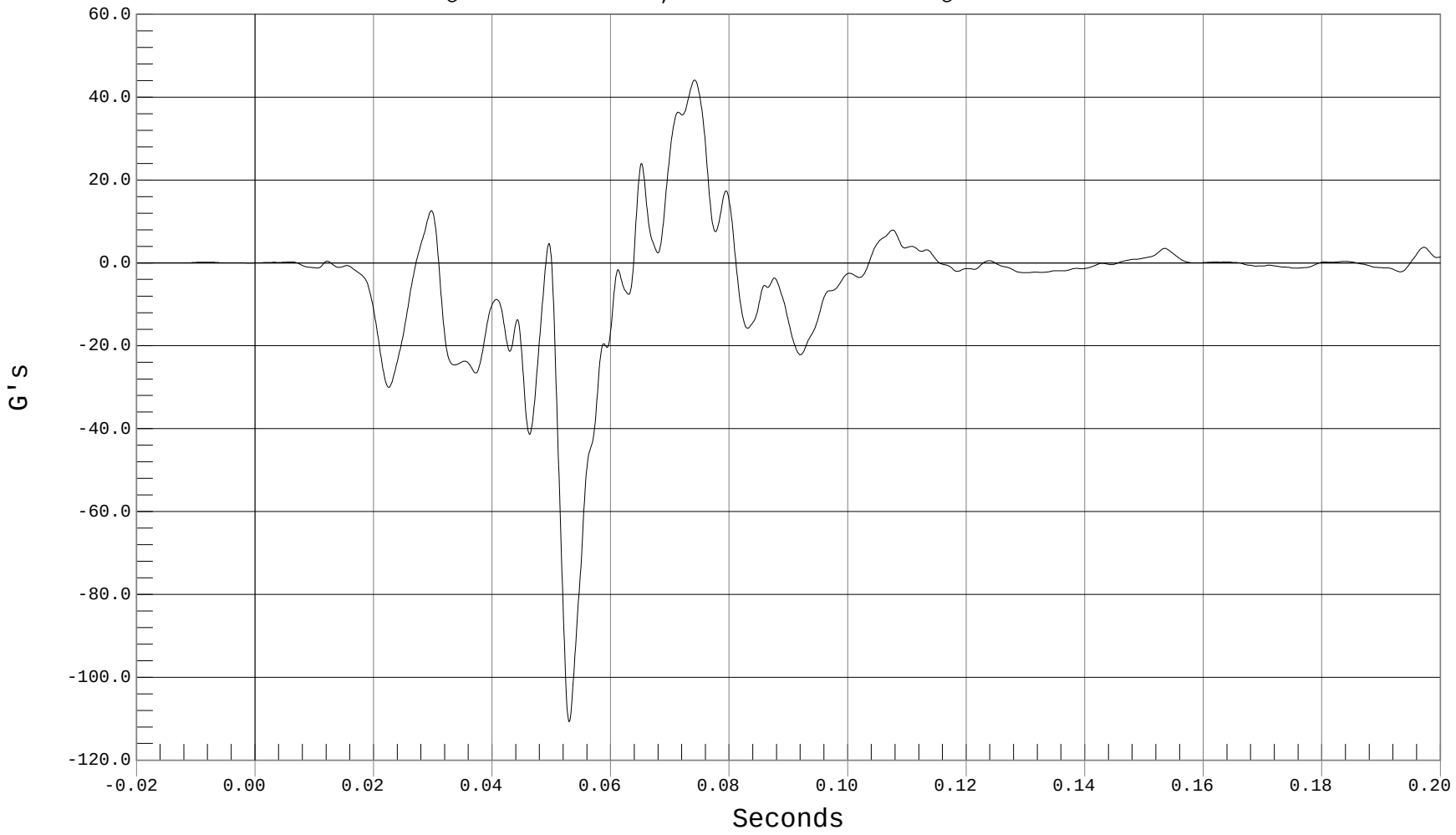
PASSENGER LEFT FOOT @ BALL Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 PASSENGER LEFT FOOT @ BALL Z, b01005AF.A09

Ymin = -110.7 G's @ 0.0530 Seconds, Ymax = 44.15 G's @ 0.0742 Seconds



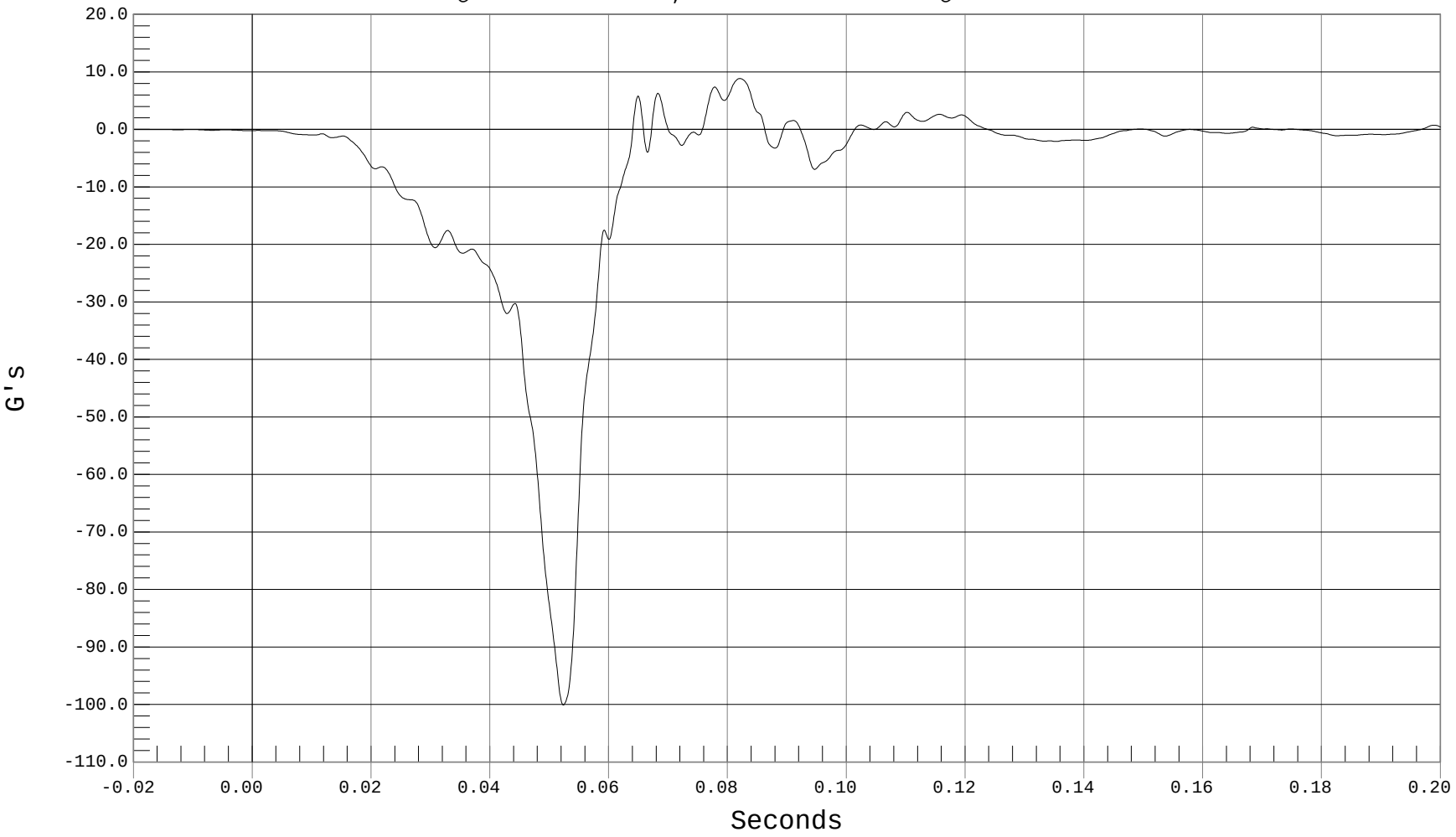
PASSENGER LEFT FOOT @ HEEL X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 PASSENGER LEFT FOOT @ HEEL X, b01005AF.A07

Ymin = -100.11 G's @ 0.0524 Seconds, Ymax = 8.85 G's @ 0.0821 Seconds



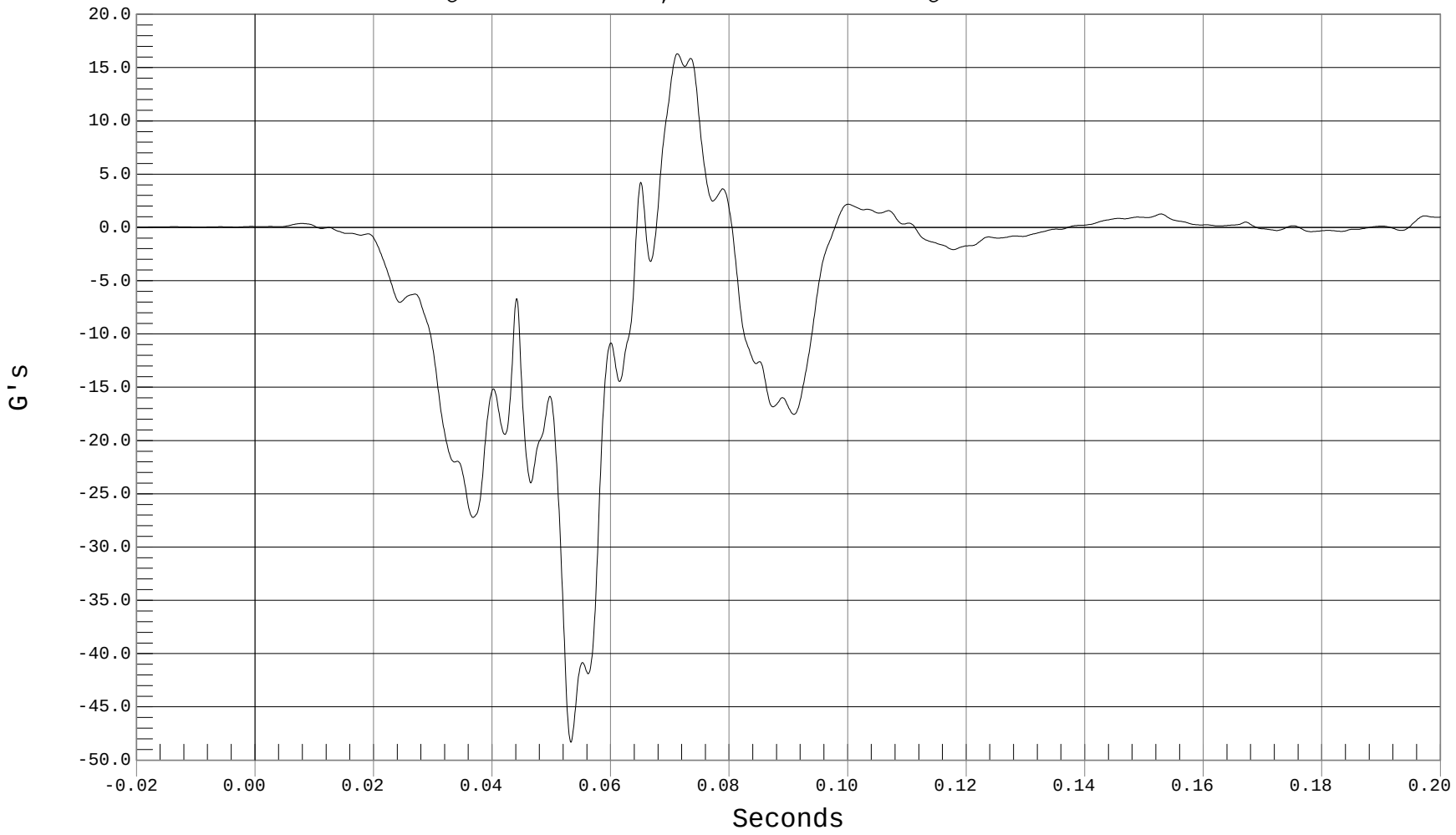
PASSENGER LEFT FOOT @ HEEL Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 PASSENGER LEFT FOOT @ HEEL Z, b01005AF.A08

Ymin = -48.34 G's @ 0.0533 Seconds, Ymax = 16.3 G's @ 0.0713 Seconds



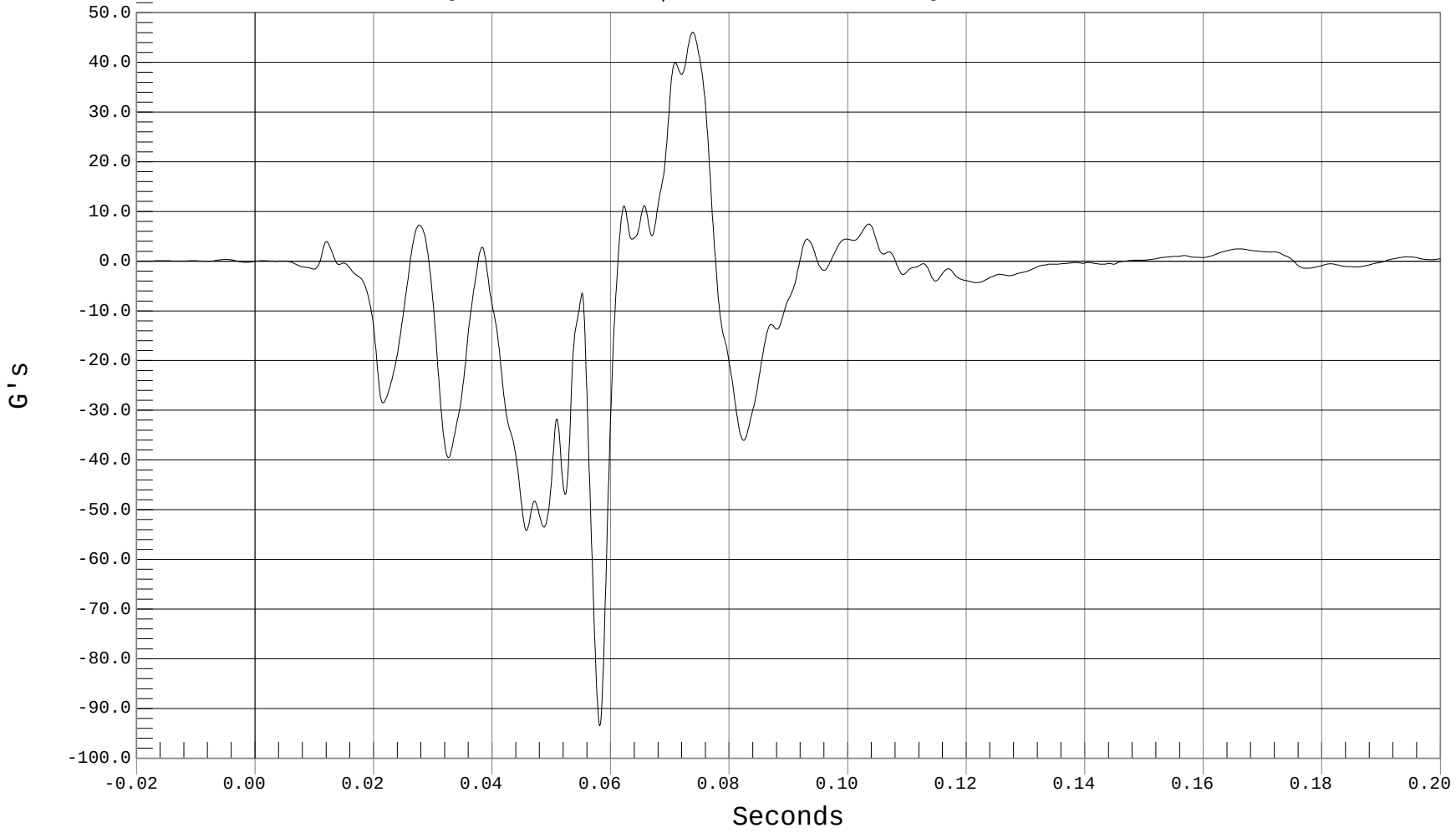
PASSENGER RIGHT FOOT @ BALL Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 PASSENGER RIGHT FOOT @ BALL Z, b01005AF.A06

Ymin = -93.48 G's @ 0.0582 Seconds, Ymax = 46.1 G's @ 0.0739 Seconds



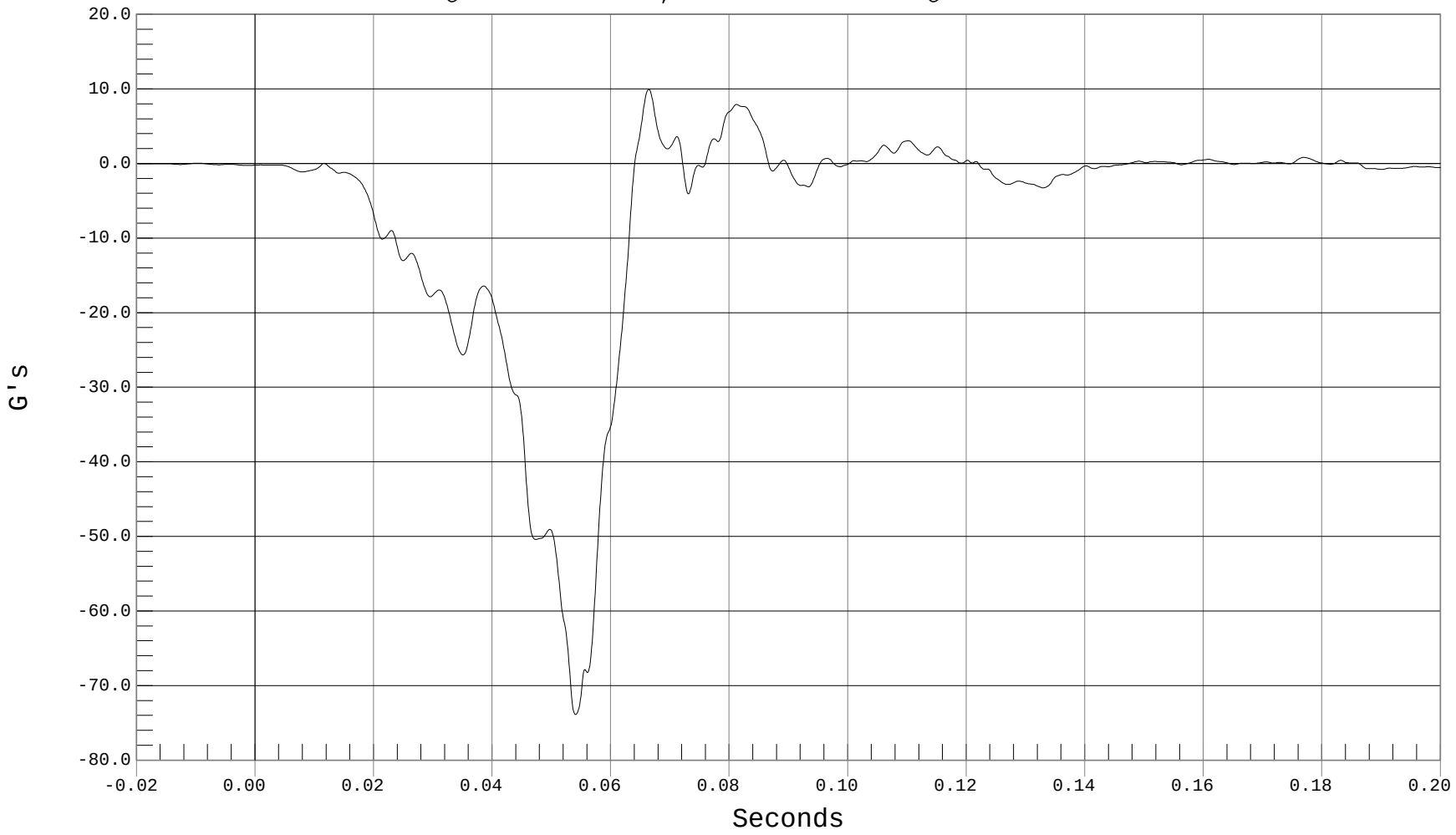
PASSENGER RIGHT FOOT @ HEEL X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 PASSENGER RIGHT FOOT @ HEEL X, b01005AF.A04

Ymin = -73.88 G's @ 0.0541 Seconds, Ymax = 9.94 G's @ 0.0664 Seconds



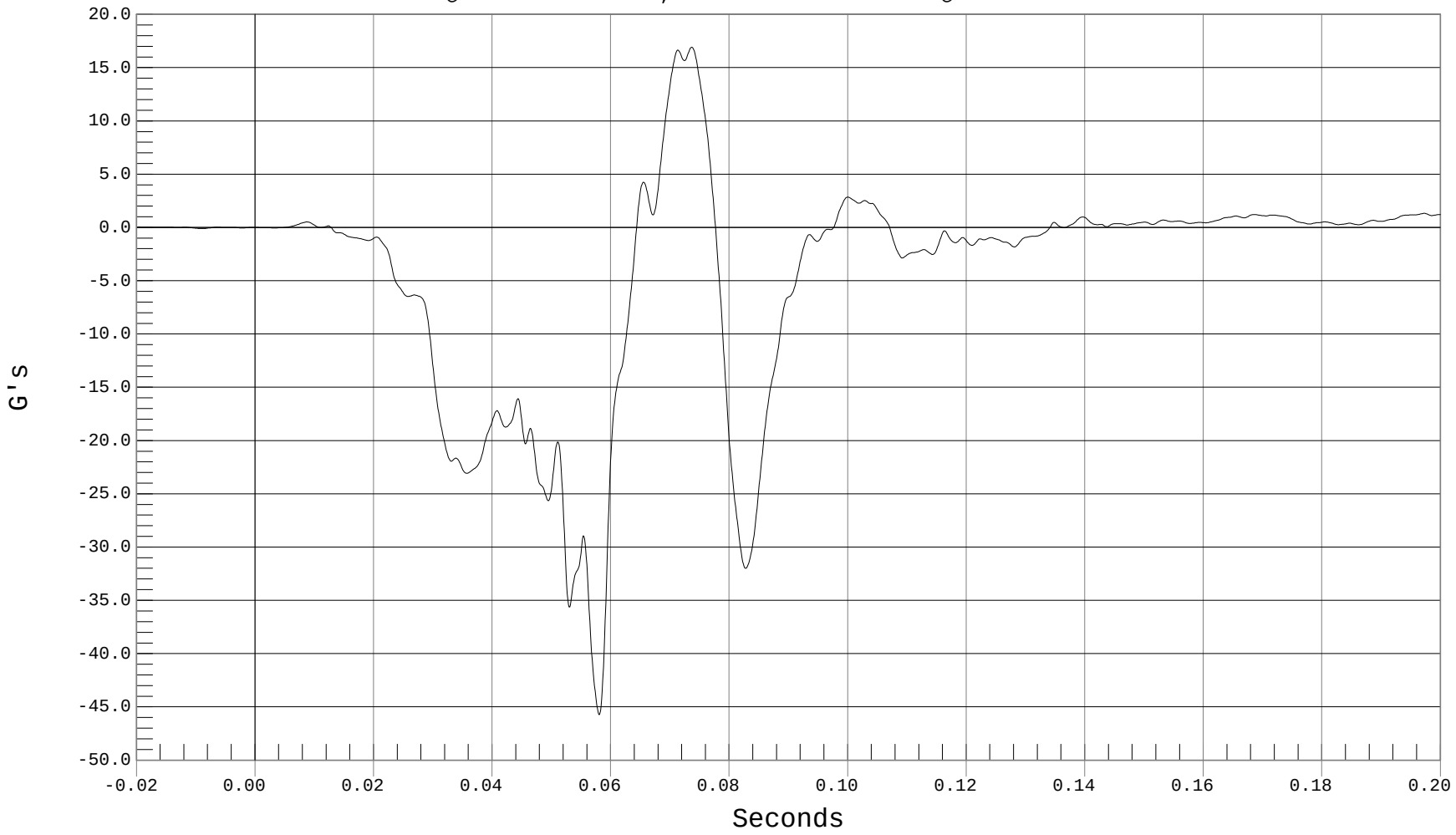
PASSENGER RIGHT FOOT @ HEEL Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 PASSENGER RIGHT FOOT @ HEEL Z, b01005AF.A05

Ymin = -45.75 G's @ 0.0581 Seconds, Ymax = 16.92 G's @ 0.0737 Seconds



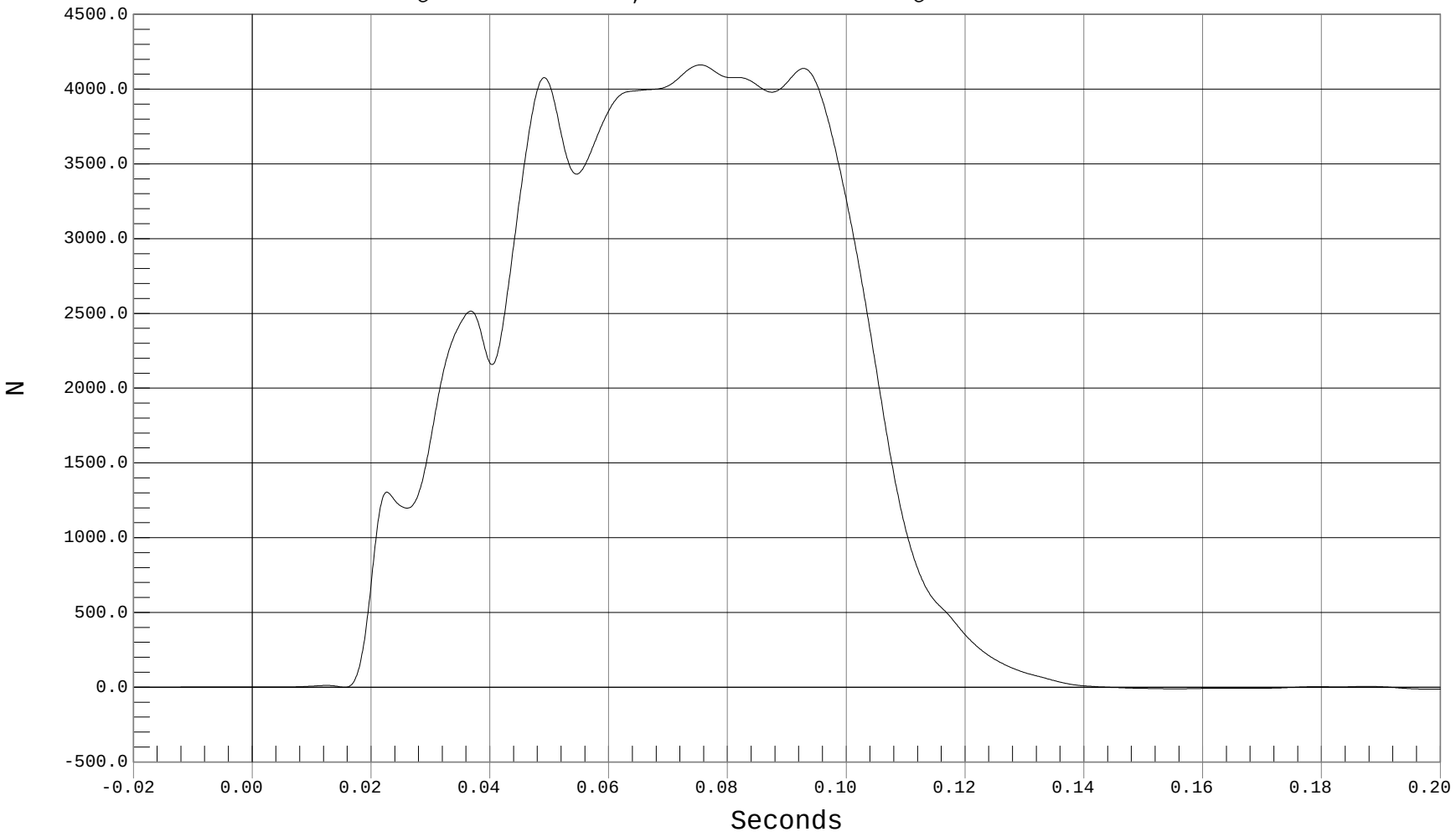
PASSENGER SHOULDER BELT FORCE

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 PASSENGER SHOULDER BELT, b01005FF.F67

Ymin = -13.56 N @ 0.1993 Seconds, Ymax = 4161.94 N @ 0.0755 Seconds



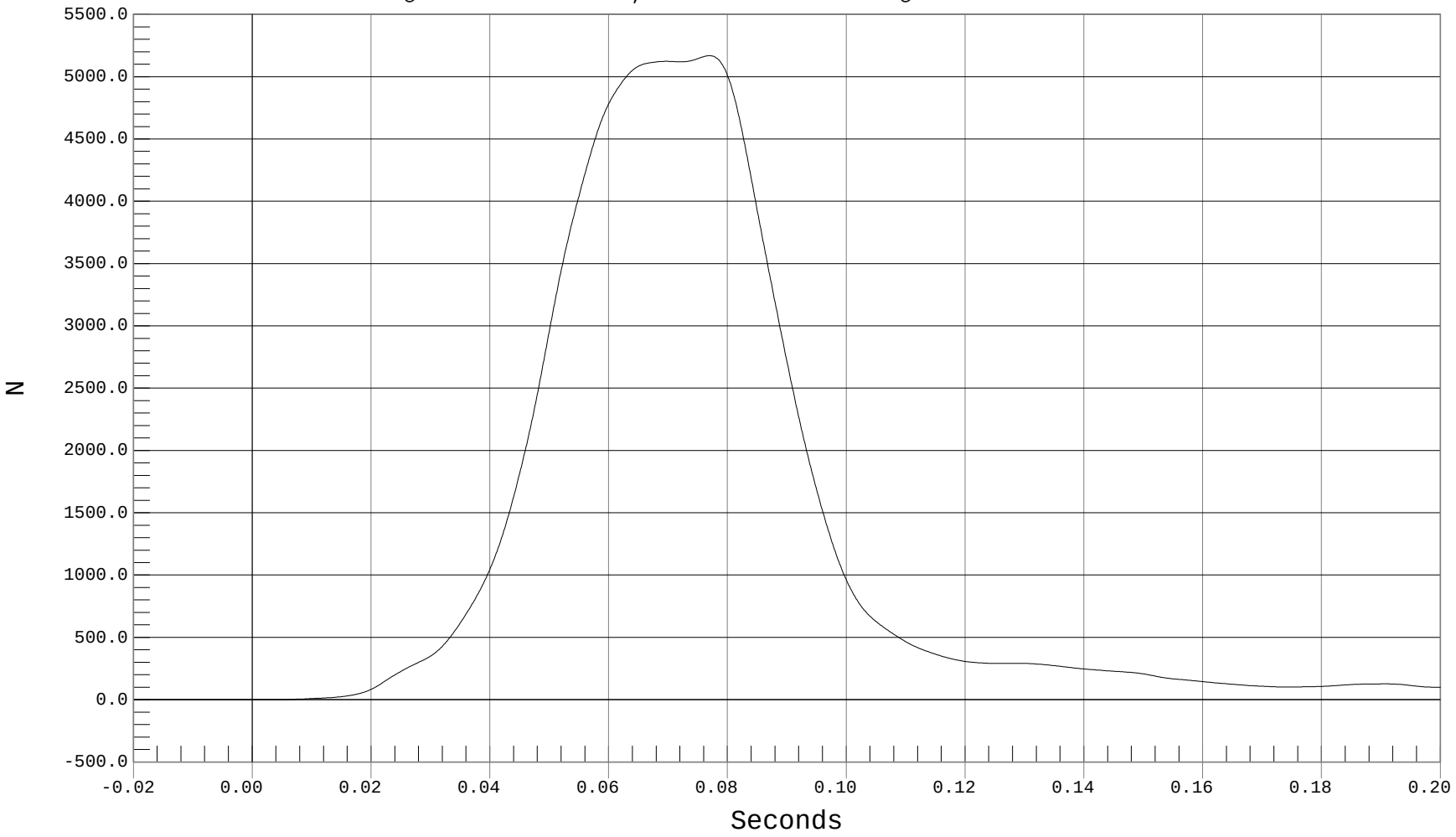
PASSENGER LAP BELT FORCE

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 PASSENGER LAP BELT, b01005FF.F68

Ymin = -1.24 N @ -0.0198 Seconds, Ymax = 5168.4 N @ 0.0770 Seconds



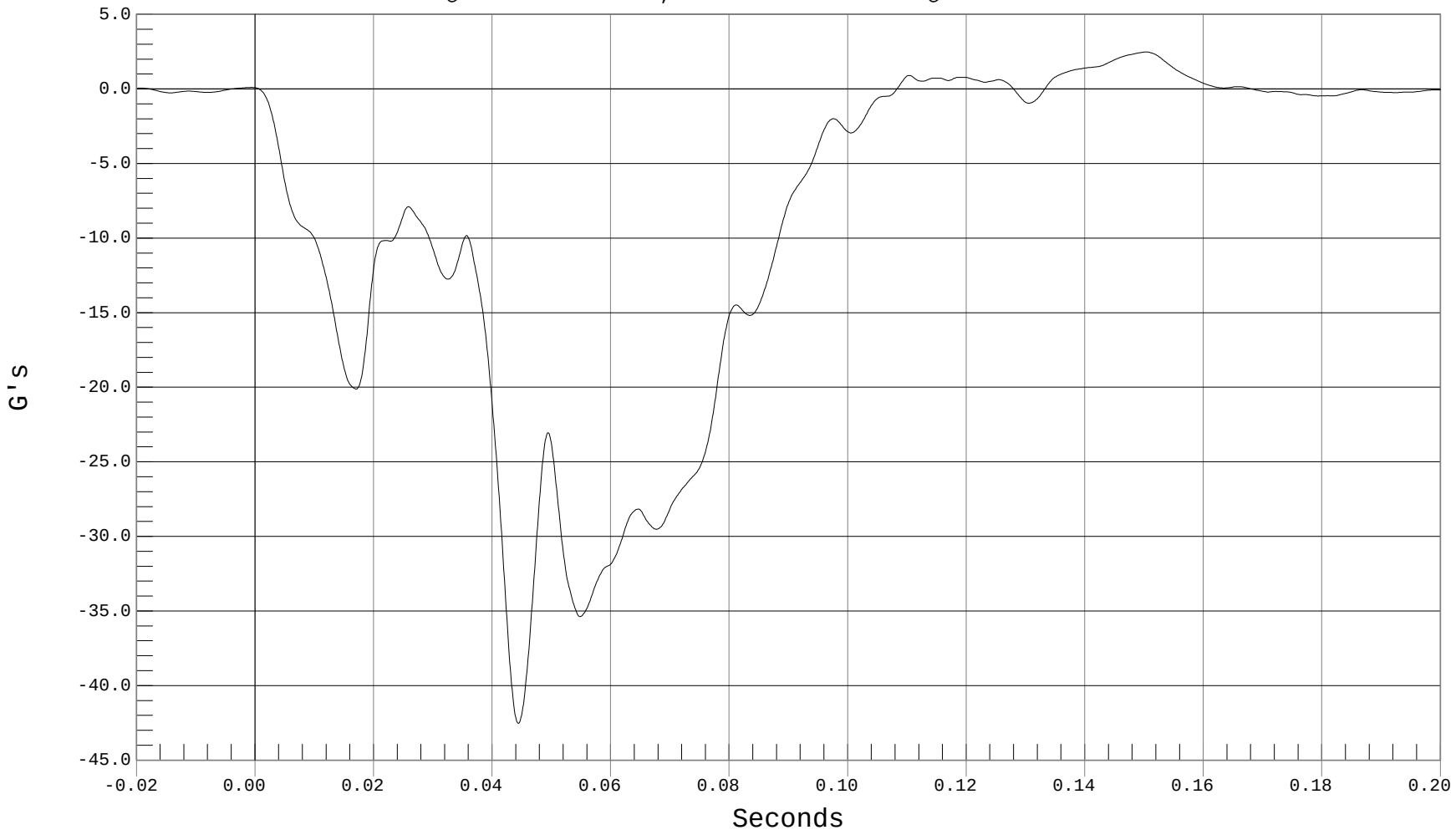
LEFT REAR SEAT CROSSMEMBER X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 LEFT REAR SEAT CROSSMEMBER X, b01005AF.A59

Ymin = -42.54 G's @ 0.0444 Seconds, Ymax = 2.47 G's @ 0.1503 Seconds



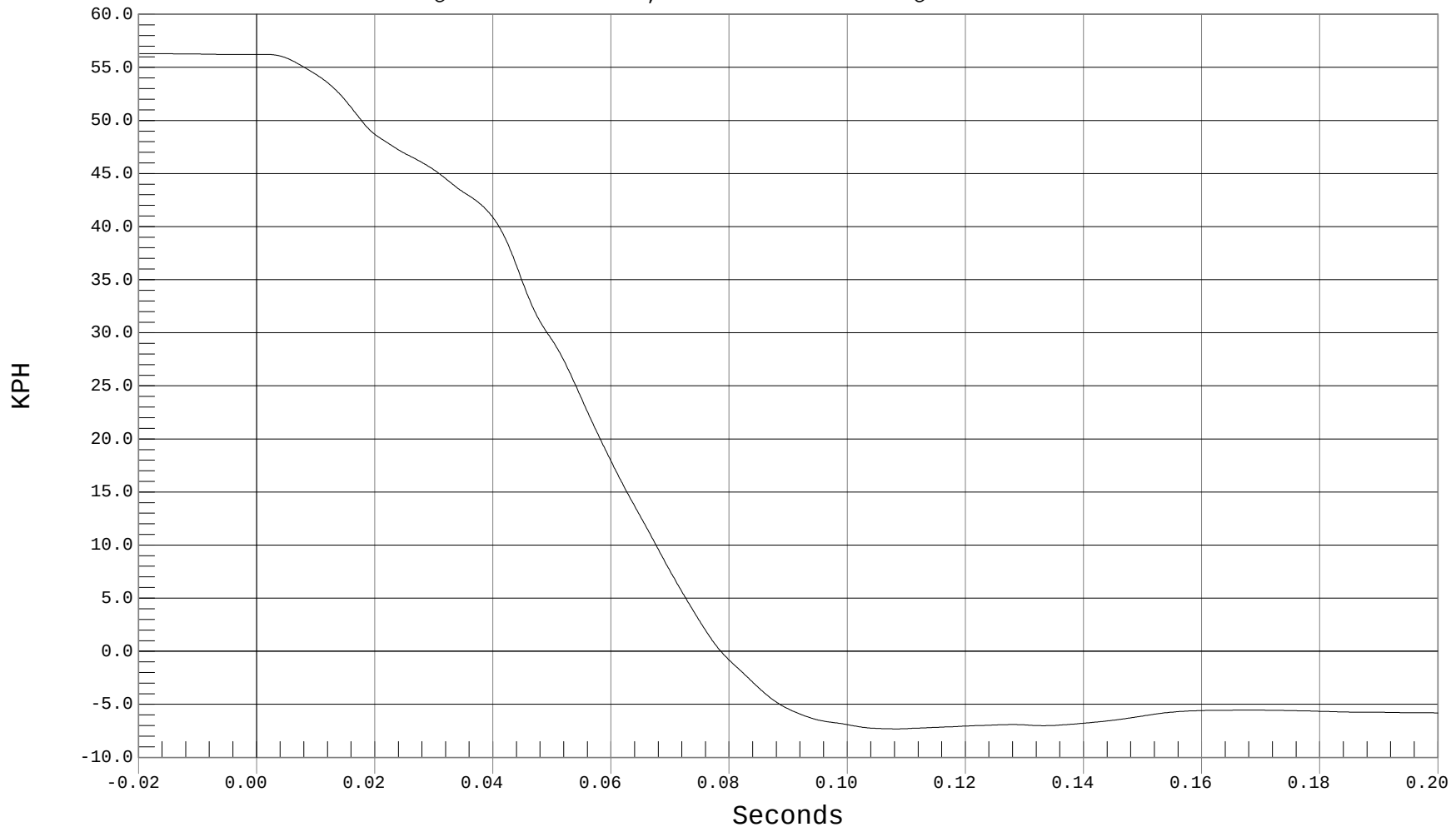
LEFT REAR SEAT CROSSMEMBER X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 LEFT REAR SEAT CROSSMEMBER X VELOCITY, b01005AI.V59

Ymin = -7.32 KPH @ 0.1083 Seconds, Ymax = 56.3 KPH @ -0.0179 Seconds



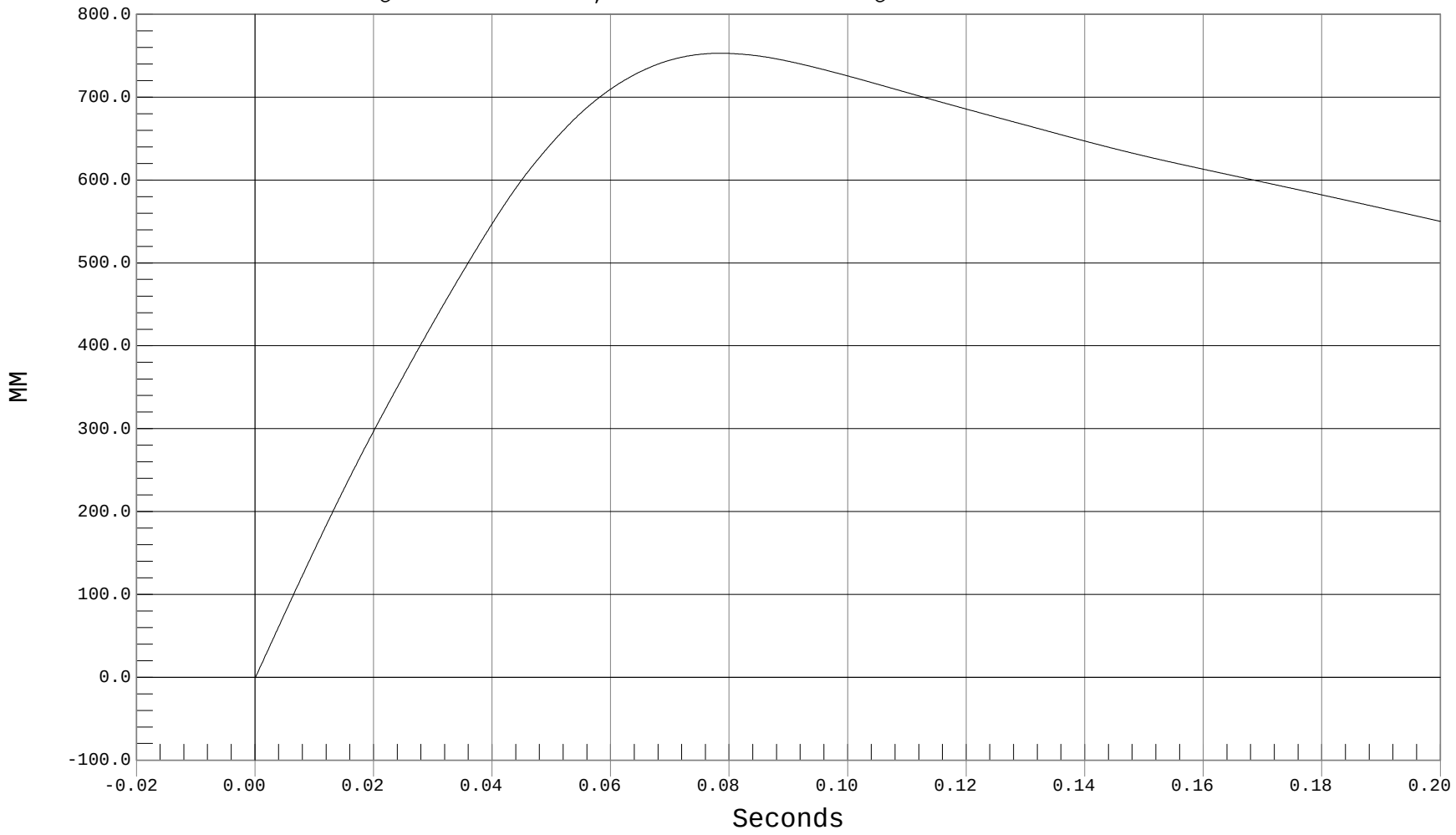
LEFT REAR SEAT CROSSMEMBER X DISPLACEMENT

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 LEFT REAR SEAT CROSSMEMBER X DISPLACEMENT, b01005AI.D59

Ymin = 0 MM @ 0.0001 Seconds, Ymax = 752.96 MM @ 0.0785 Seconds



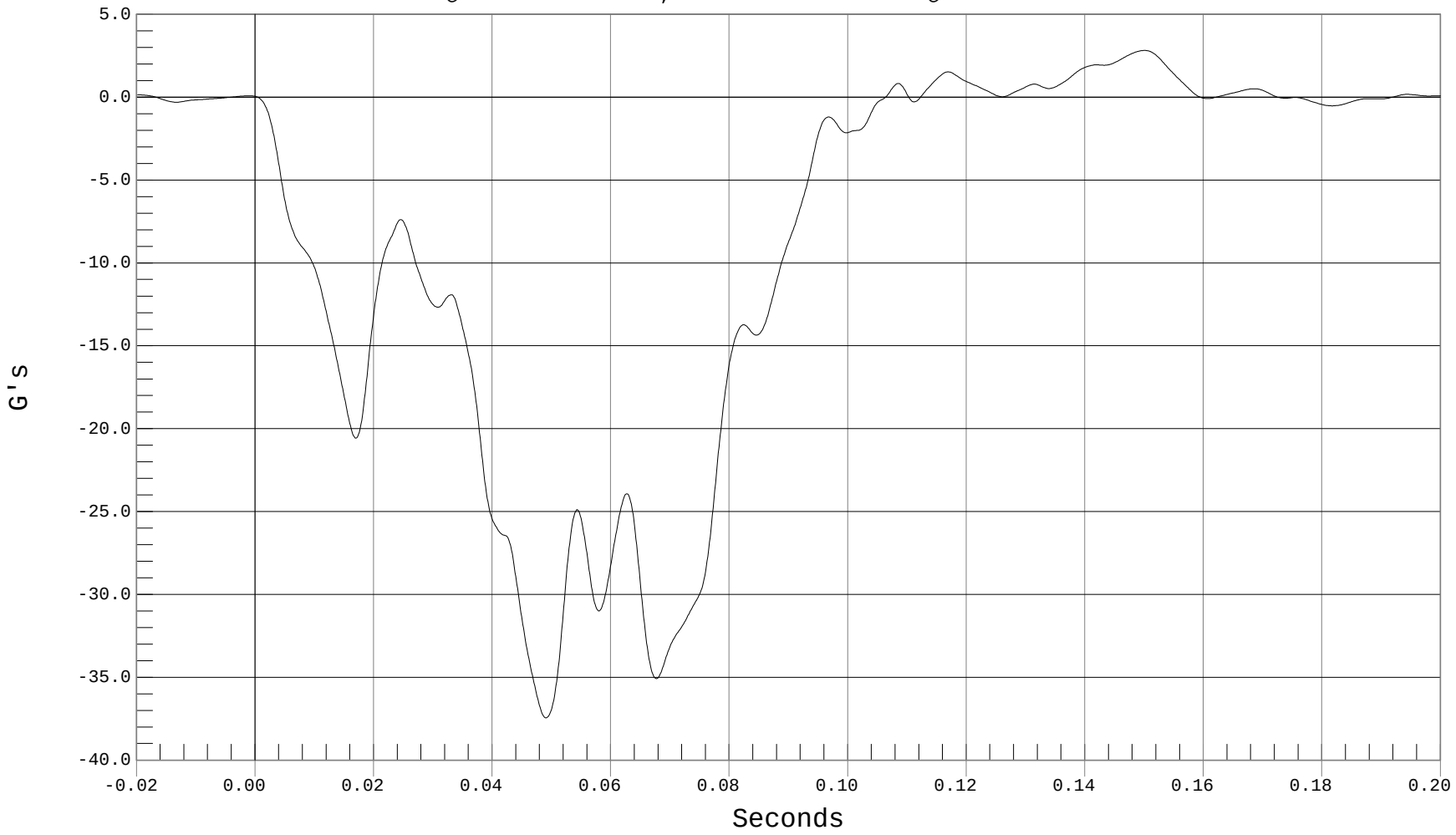
RIGHT REAR SEAT CROSSMEMBER X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 RIGHT REAR SEAT CROSSMEMBER X, b01005AF.A58

Ymin = -37.45 G's @ 0.0491 Seconds, Ymax = 2.82 G's @ 0.1501 Seconds



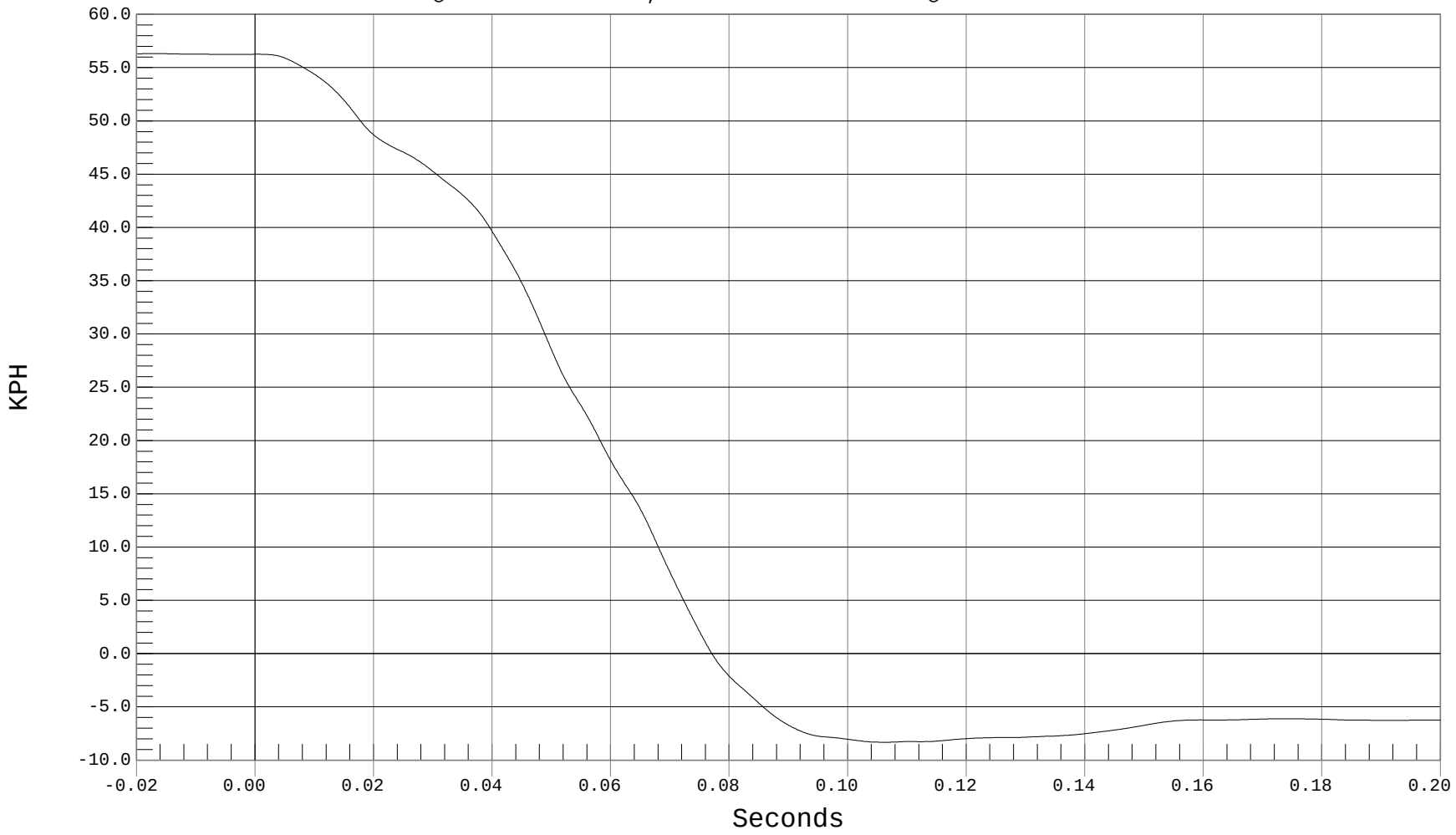
RIGHT REAR SEAT CROSSMEMBER X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 RIGHT REAR SEAT CROSSMEMBER X VELOCITY, b01005AI.V58

Ymin = -8.32 KPH @ 0.1064 Seconds, Ymax = 56.31 KPH @ -0.0167 Seconds

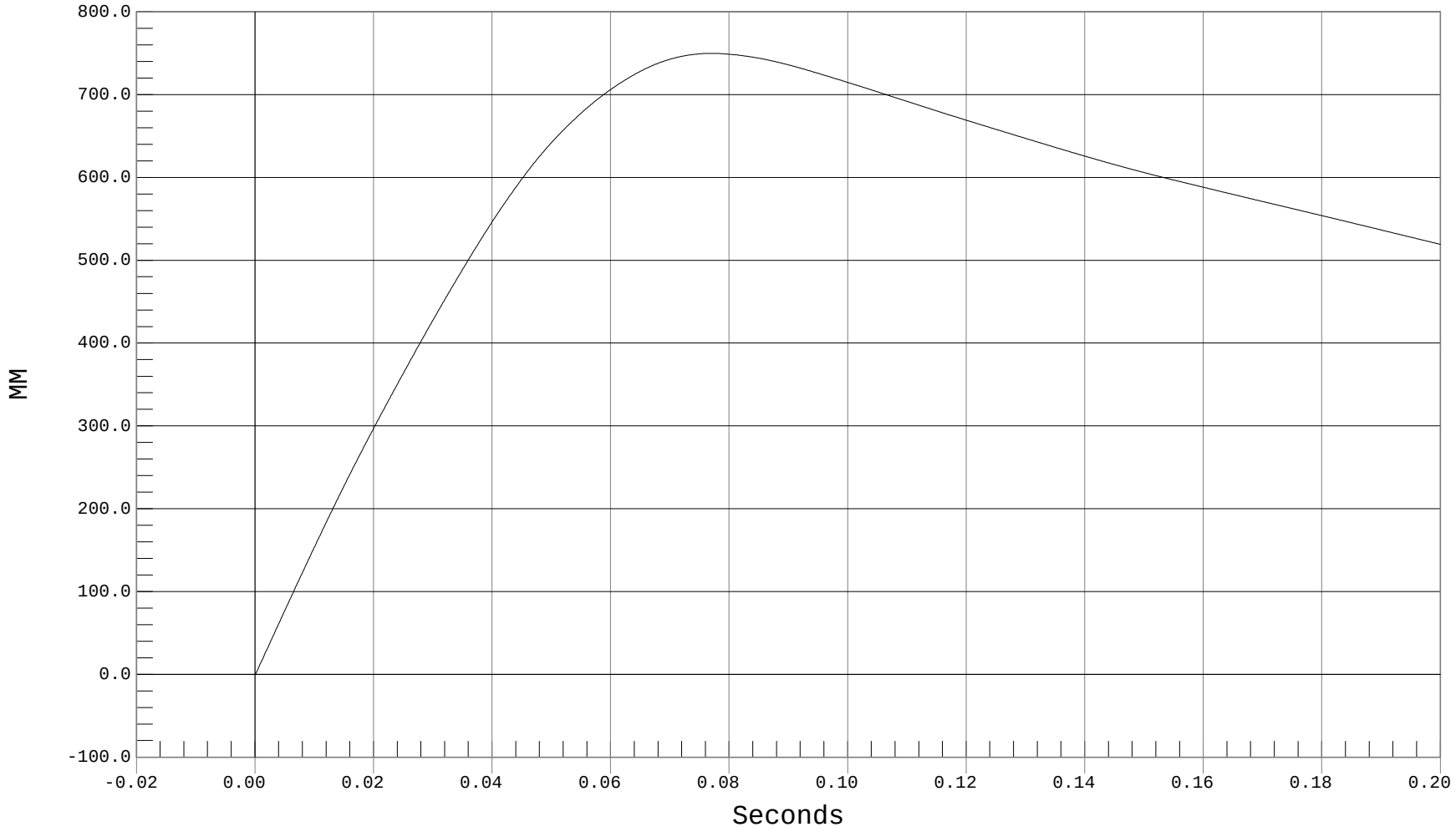


RIGHT REAR SEAT CROSSMEMBER X DISPLACEMENT

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 RIGHT REAR SEAT CROSSMEMBER X DISPLACEMENT, b01005AI.D58



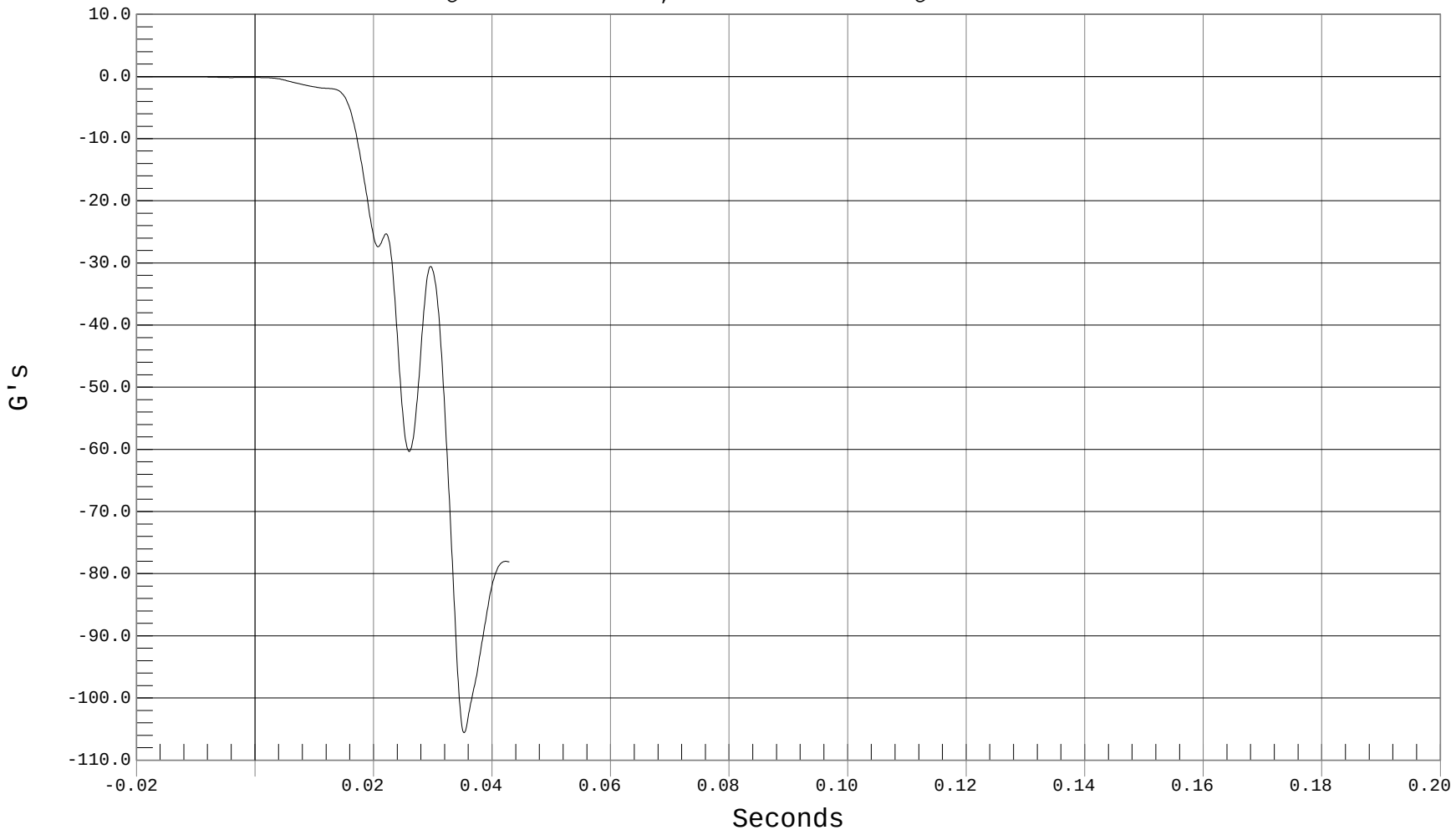
UPPER ENGINE X ACCELERATION (QD AFTER 43 MSEC)

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 ENGINE UPPER X, b01005AF.A55

Ymin = -105.6 G's @ 0.0353 Seconds, Ymax = -.03 G's @ -0.0120 Seconds

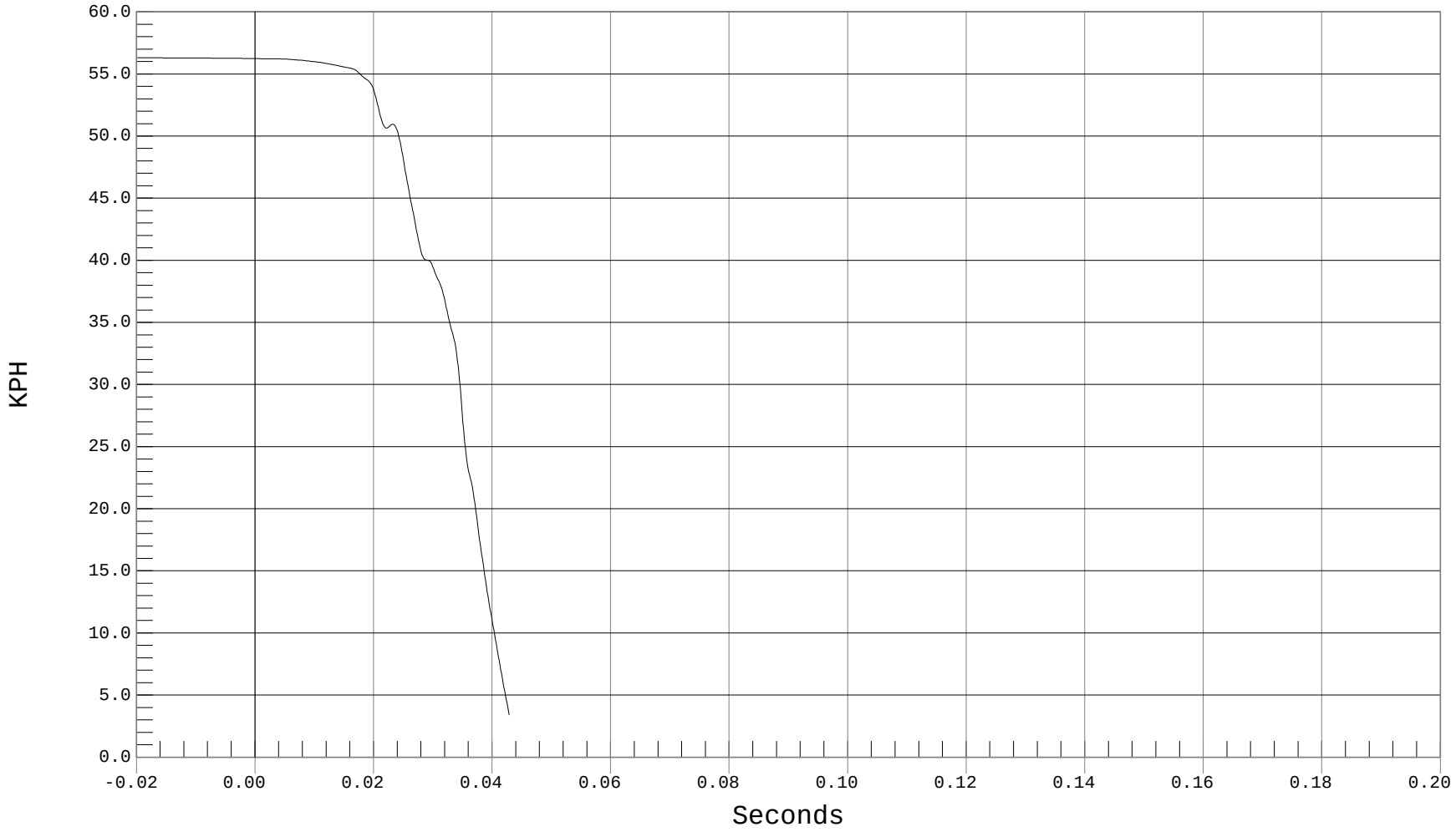


UPPER ENGINE X VELOCITY (QD AFTER 43 MSEC)

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 TOP OF ENGINE BLOCK X VELOCITY, b01005AI.V55



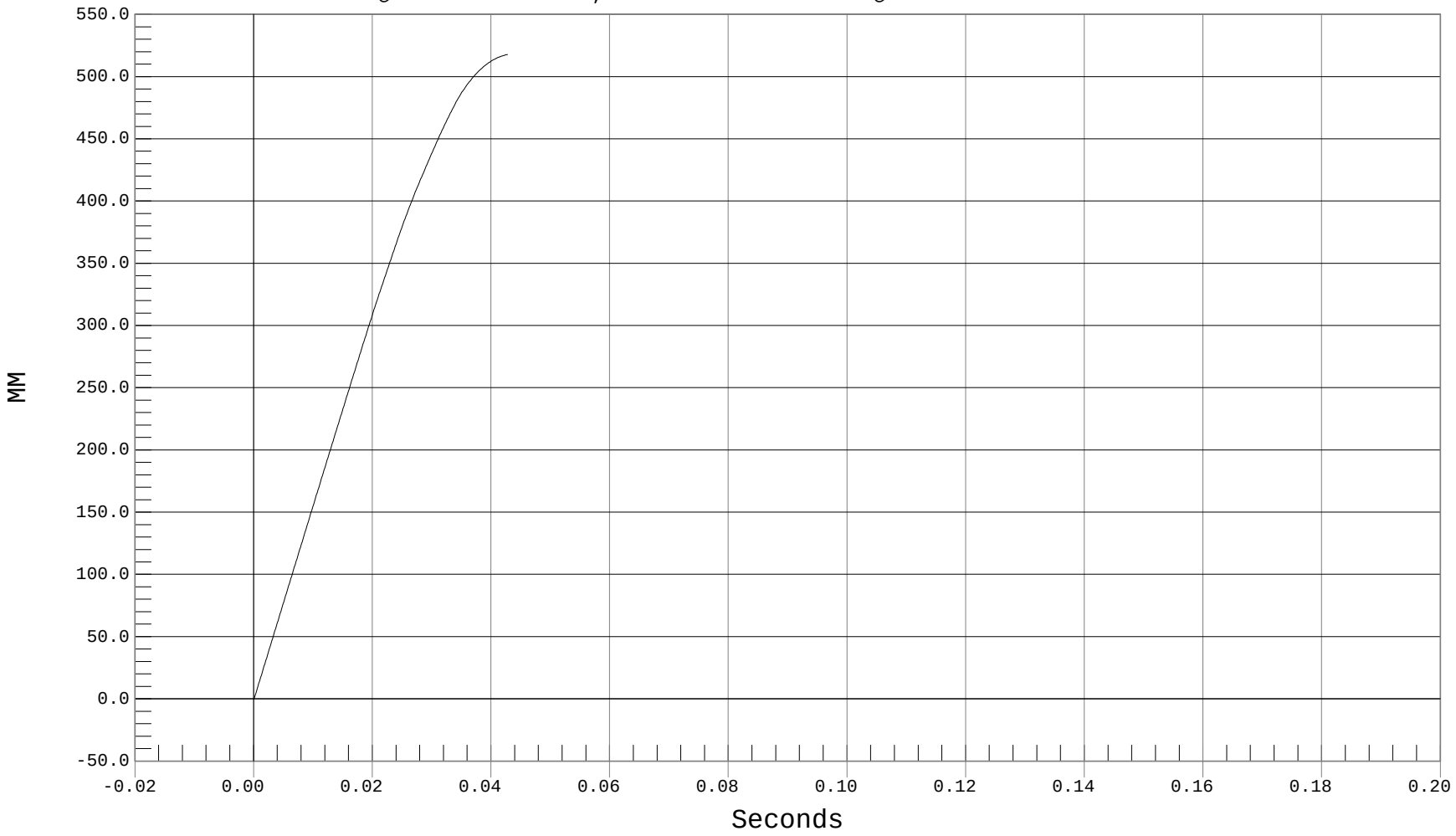
UPPER ENGINE X DISPLACEMENT (QD AFTER 43 MSEC)

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 TOP OF ENGINE BLOCK X DISPLACEMENT, b01005AI.D55

Ymin = 0 MM @ 0.0001 Seconds, Ymax = 517.74 MM @ 0.0428 Seconds



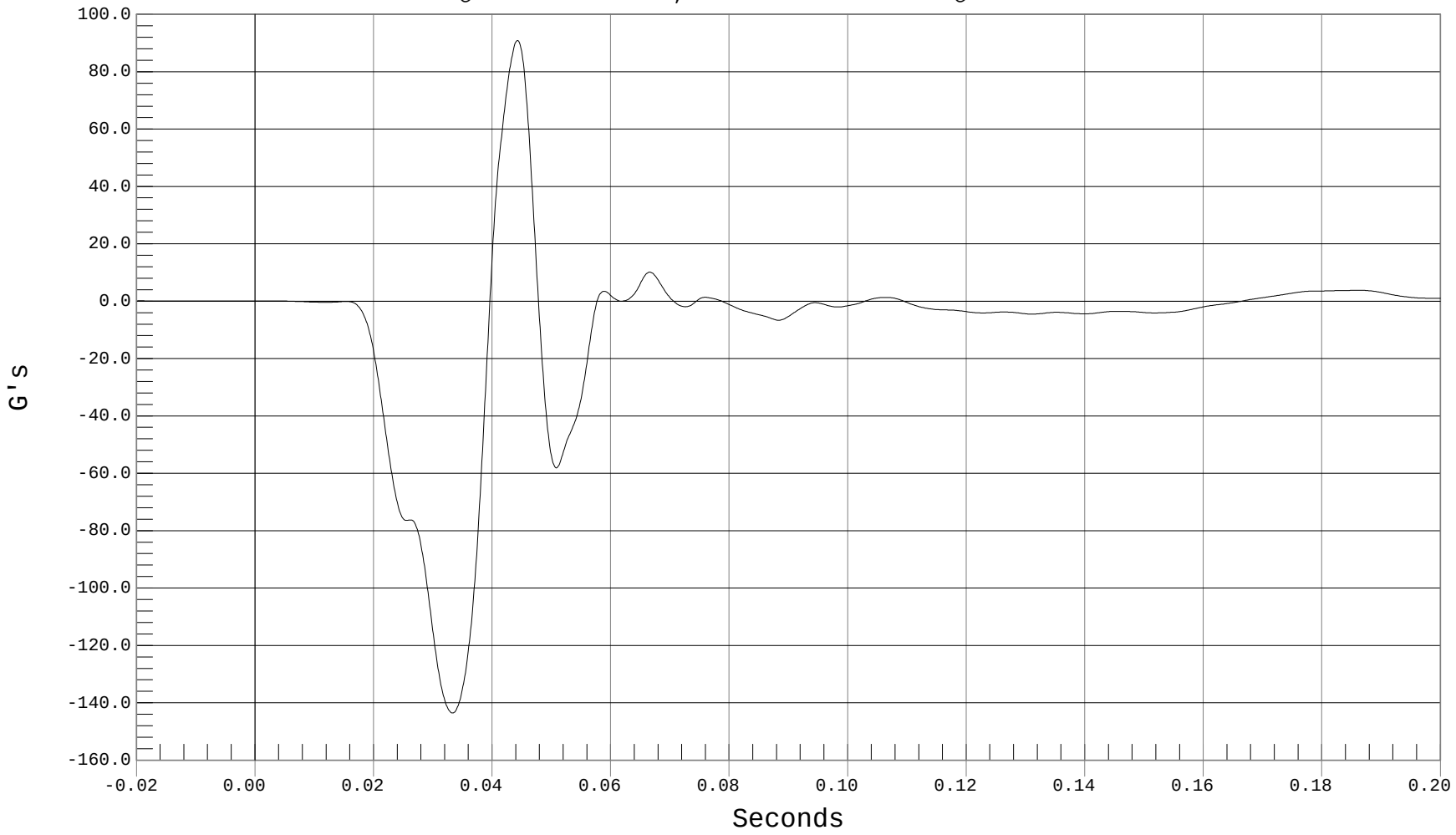
LOWER ENGINE X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 ENGINE LOWER X, b01005AF.A56

Ymin = -143.57 G's @ 0.0333 Seconds, Ymax = 90.86 G's @ 0.0443 Seconds



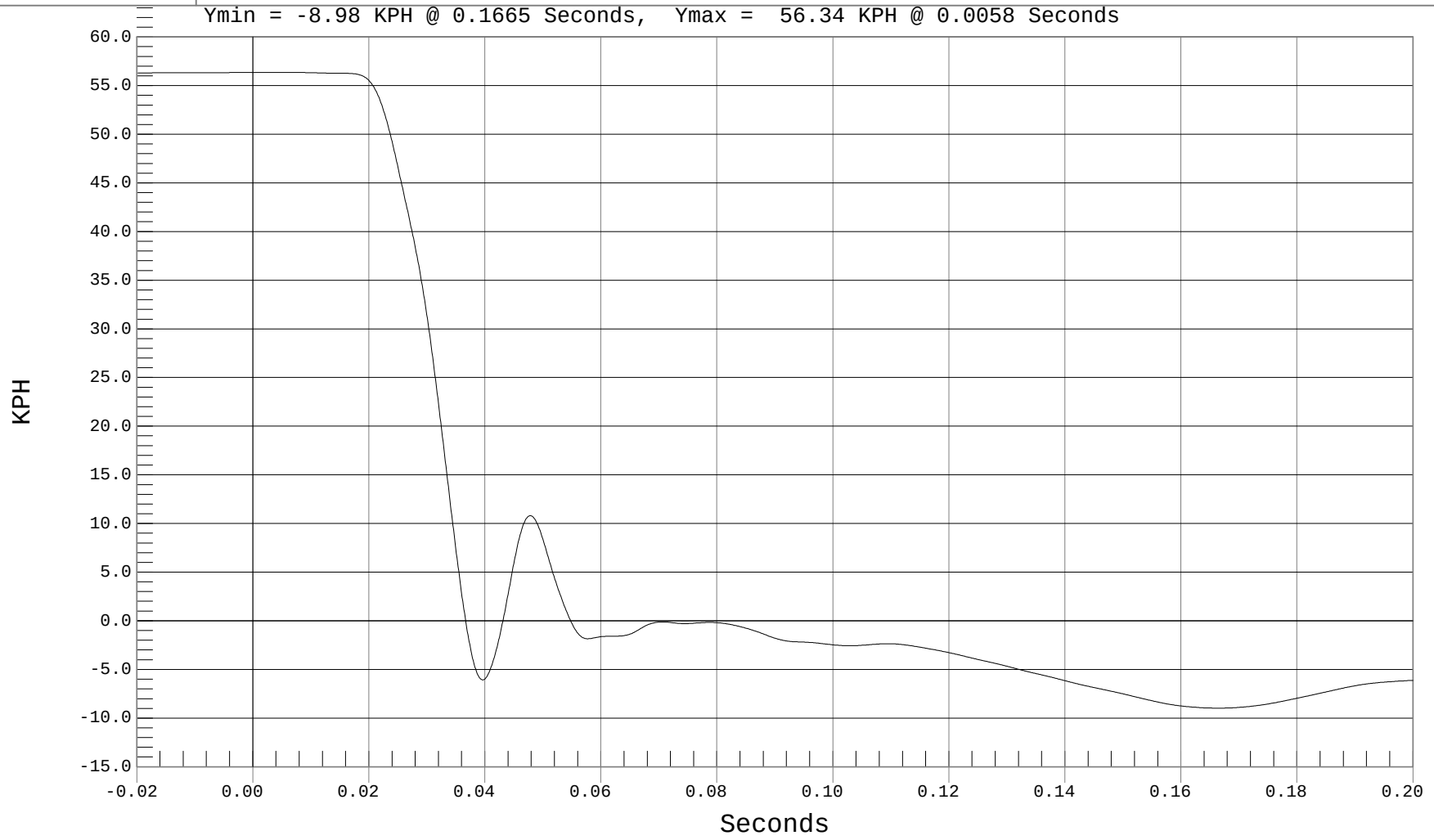
LOWER ENGINE X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 BOTTOM OF ENGINE X VELOCITY, b01005AI.V56

Ymin = -8.98 KPH @ 0.1665 Seconds, Ymax = 56.34 KPH @ 0.0058 Seconds



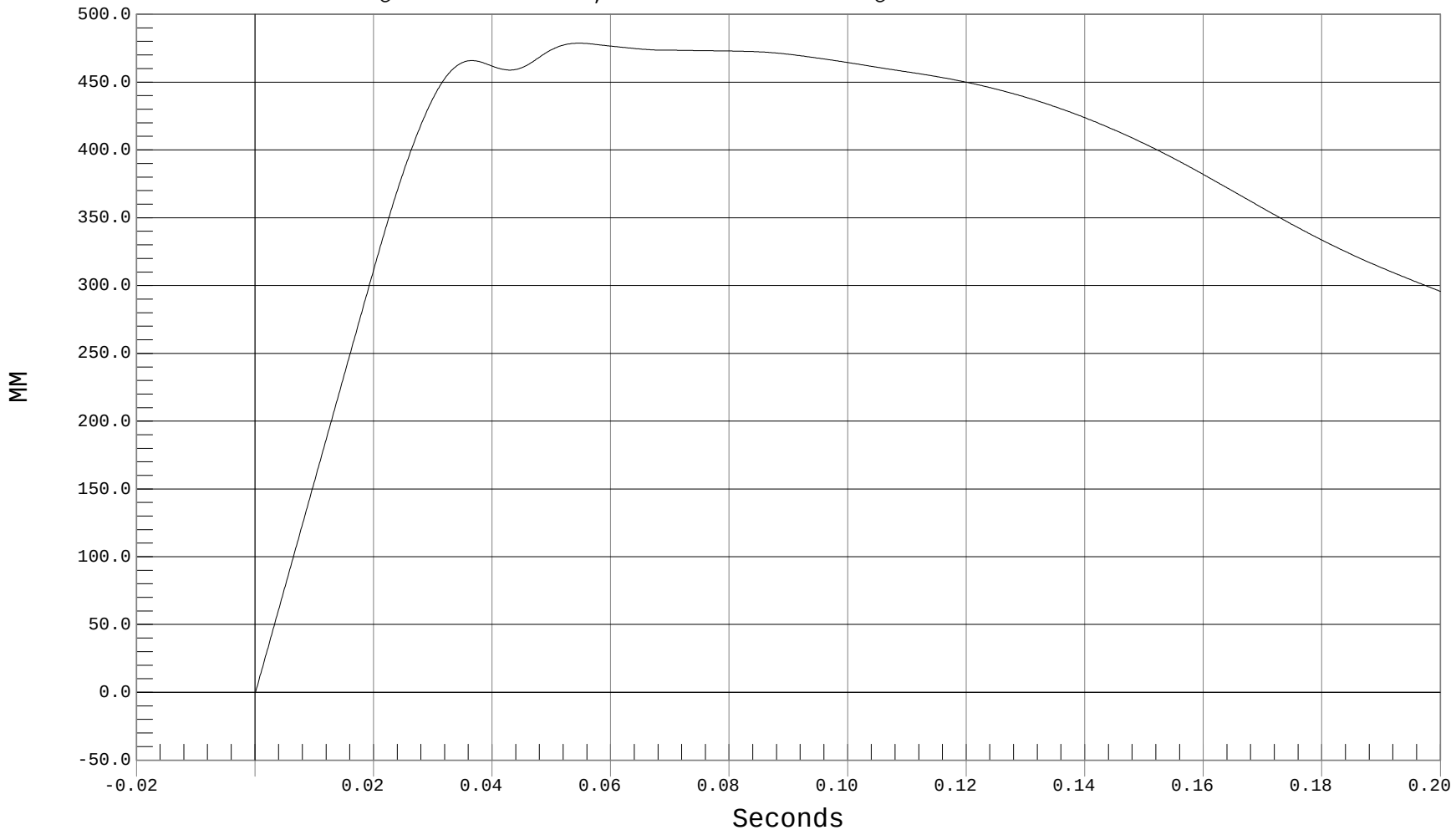
LOWER ENGINE X DISPLACEMENT

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 BOTTOM OF ENGINE X DISPLACEMENT, b01005AI.D56

Ymin = 0 MM @ 0.0001 Seconds, Ymax = 478.76 MM @ 0.0547 Seconds



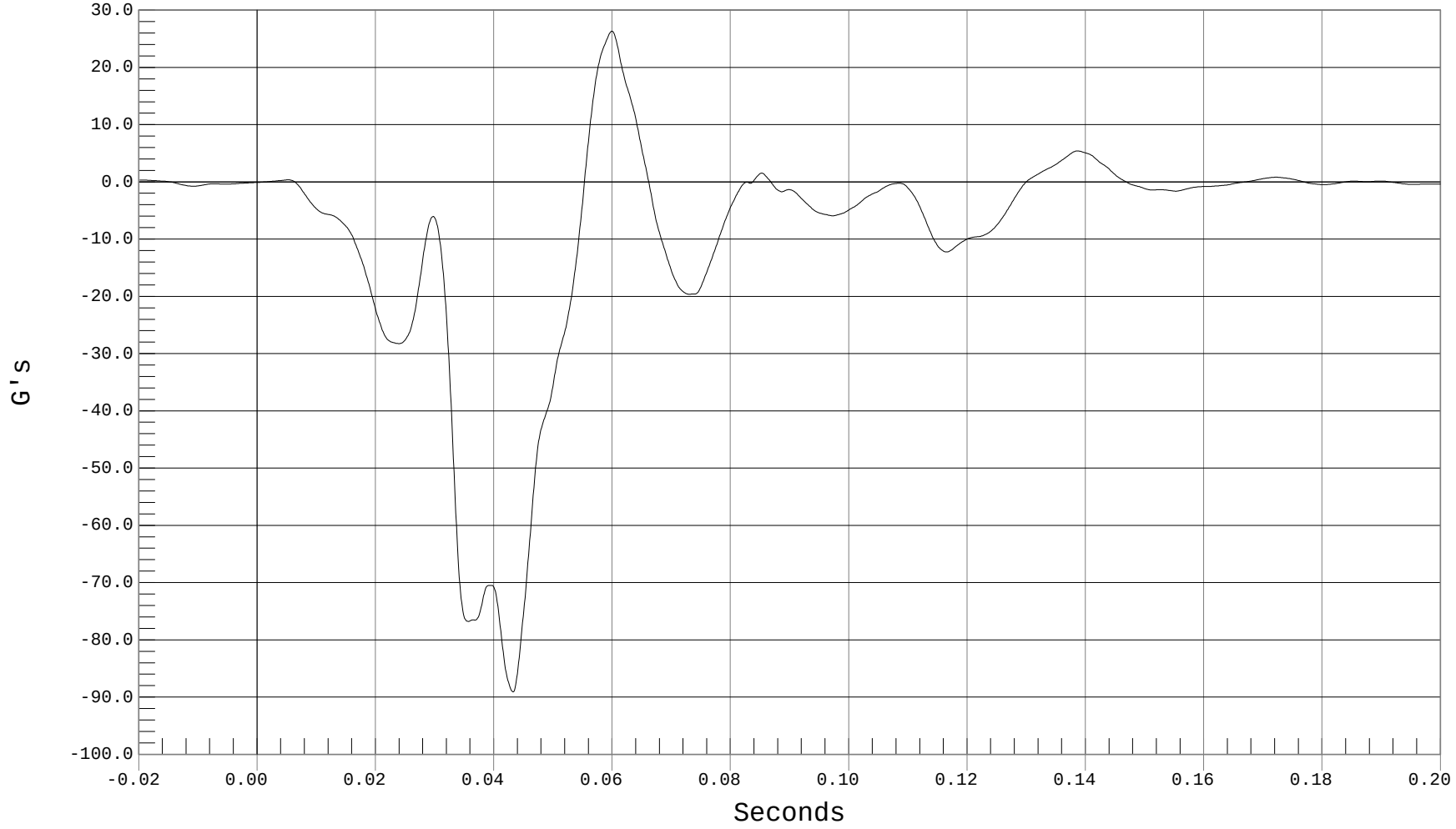
LEFT BRAKE CALIPER X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 LEFT BRAKE CALIPER X, b01005AF.A61

Ymin = -89.1 G's @ 0.0433 Seconds, Ymax = 26.34 G's @ 0.0600 Seconds



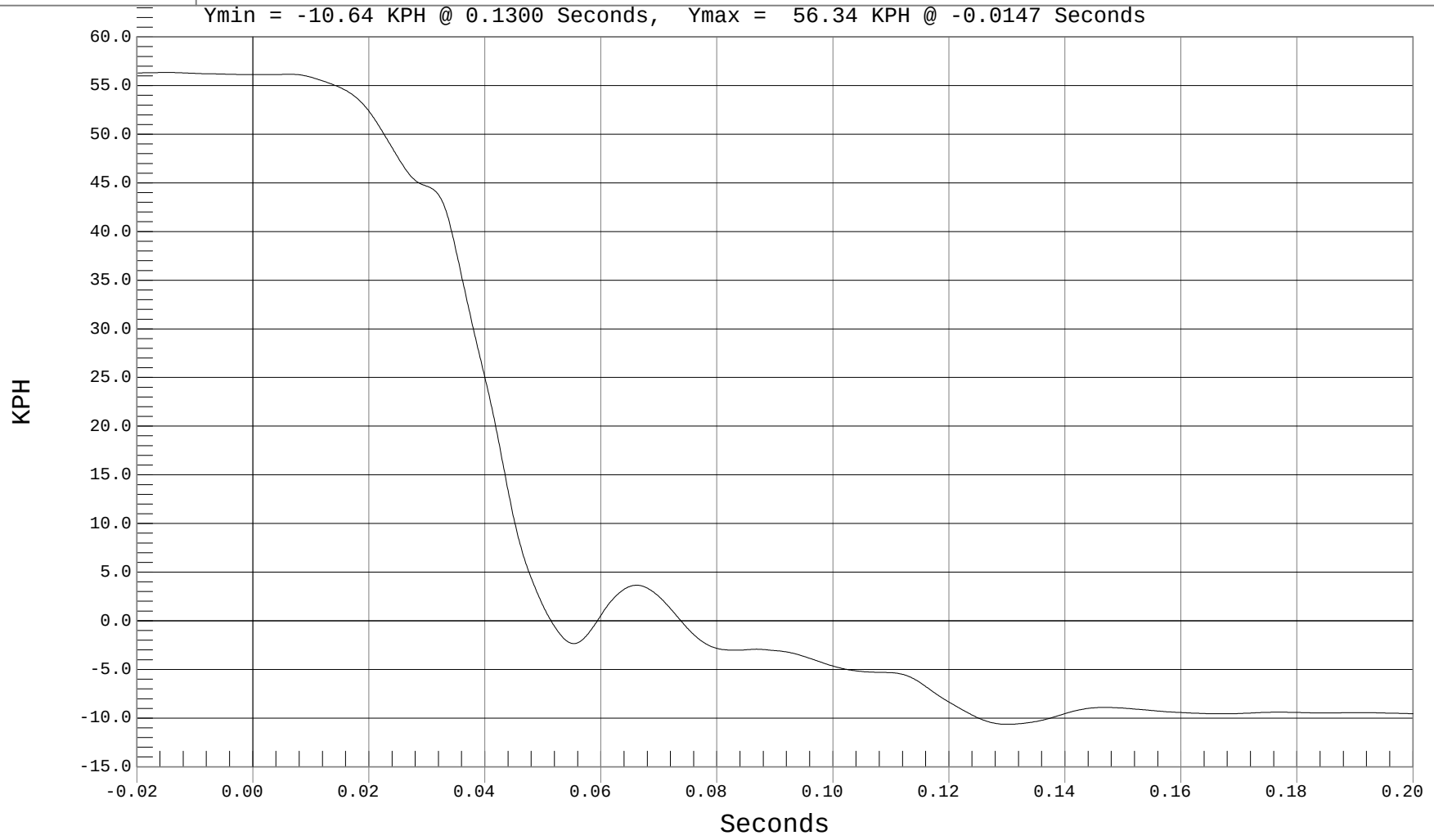
LEFT BRAKE CALIPER X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 LEFT BRAKE CALIPER X VELOCITY, b01005AI.V61

Ymin = -10.64 KPH @ 0.1300 Seconds, Ymax = 56.34 KPH @ -0.0147 Seconds



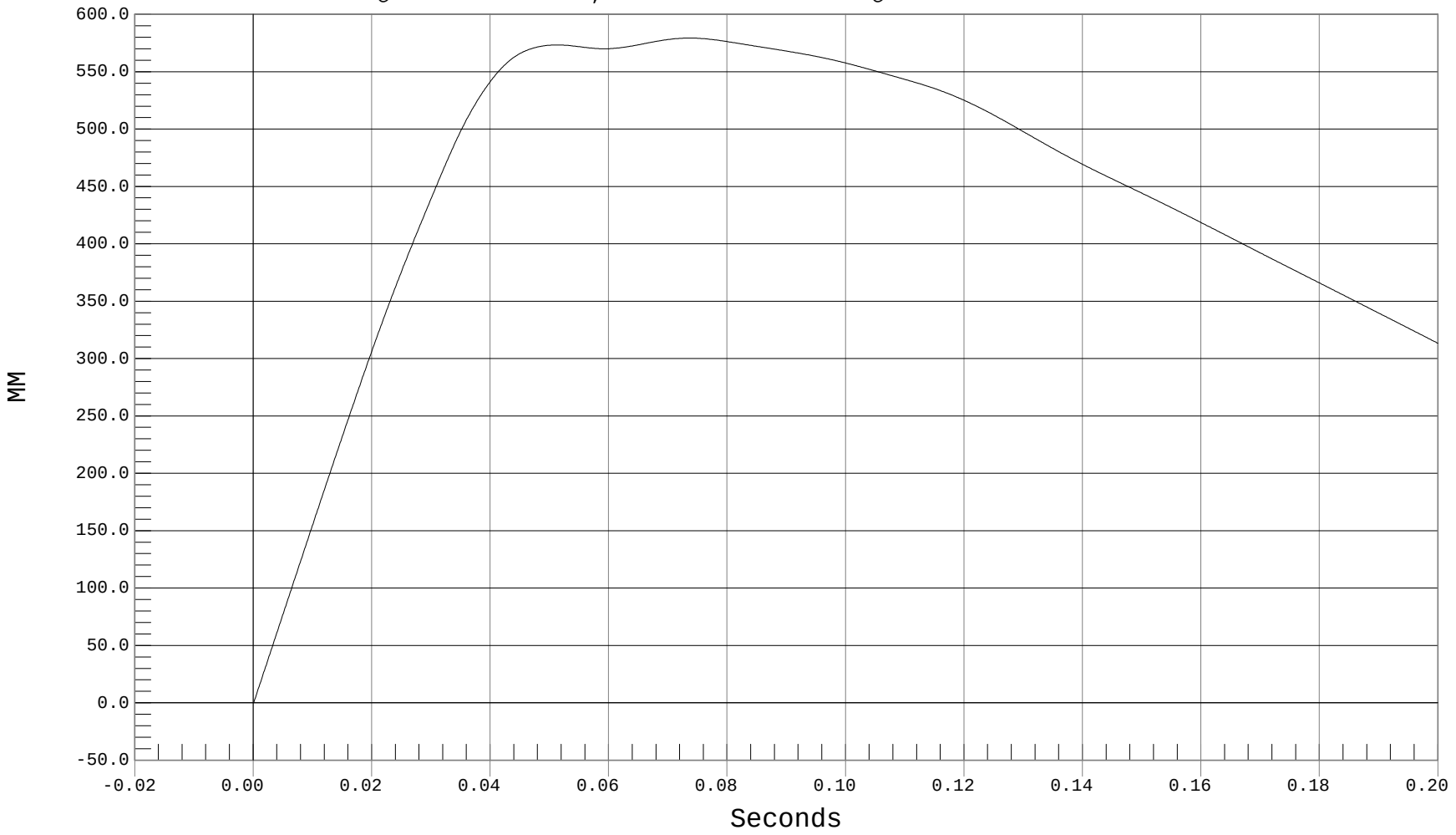
LEFT BRAKE CALIPER X DISPLACEMENT

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 LEFT BRAKE CALIPER X DISPLACEMENT, b01005AI.D61

Ymin = 0 MM @ 0.0001 Seconds, Ymax = 579.31 MM @ 0.0737 Seconds



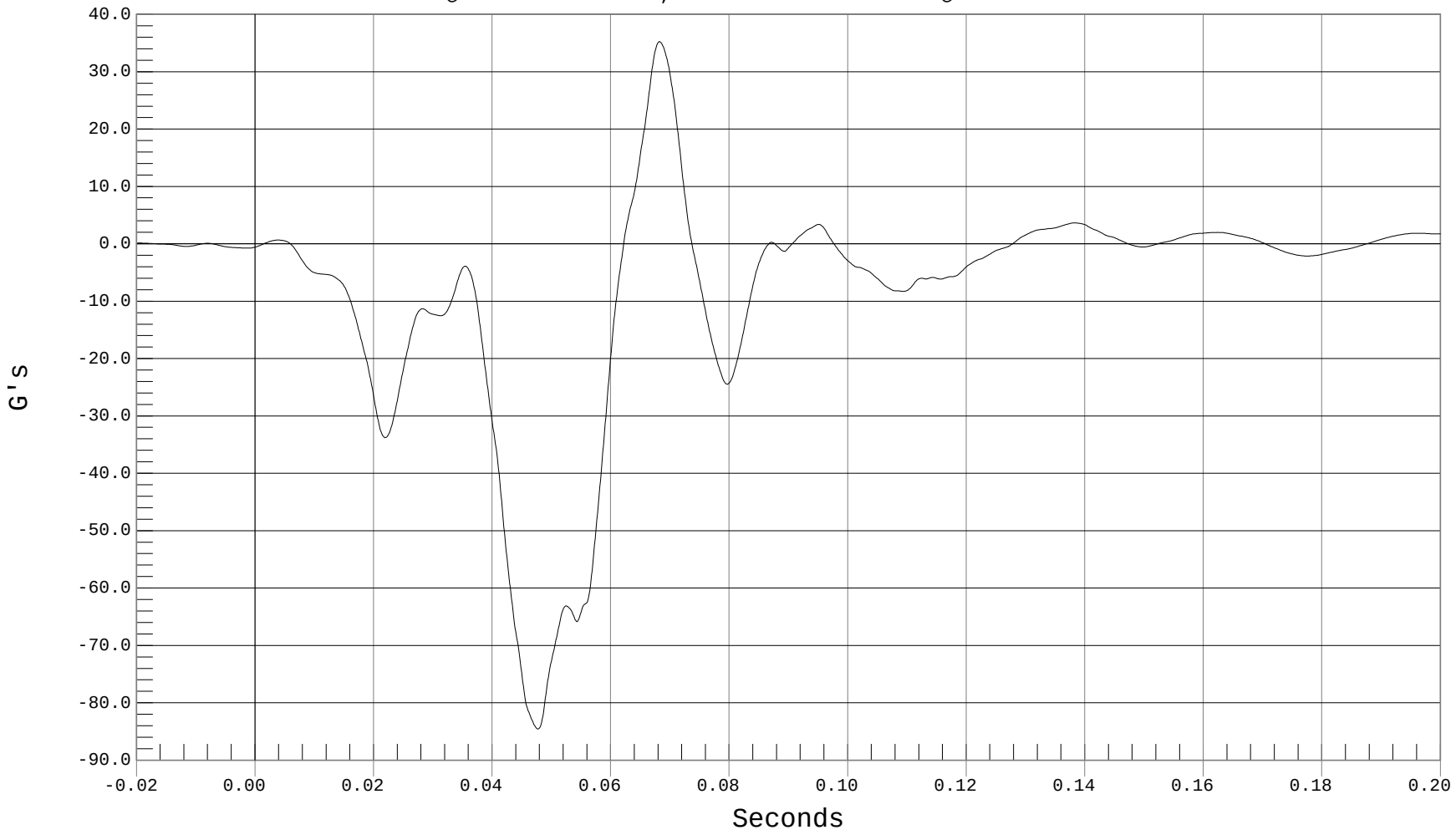
RIGHT BRAKE CALIPER X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 RIGHT BRAKE CALIPER X, b01005AF.A60

Ymin = -84.56 G's @ 0.0478 Seconds, Ymax = 35.24 G's @ 0.0683 Seconds



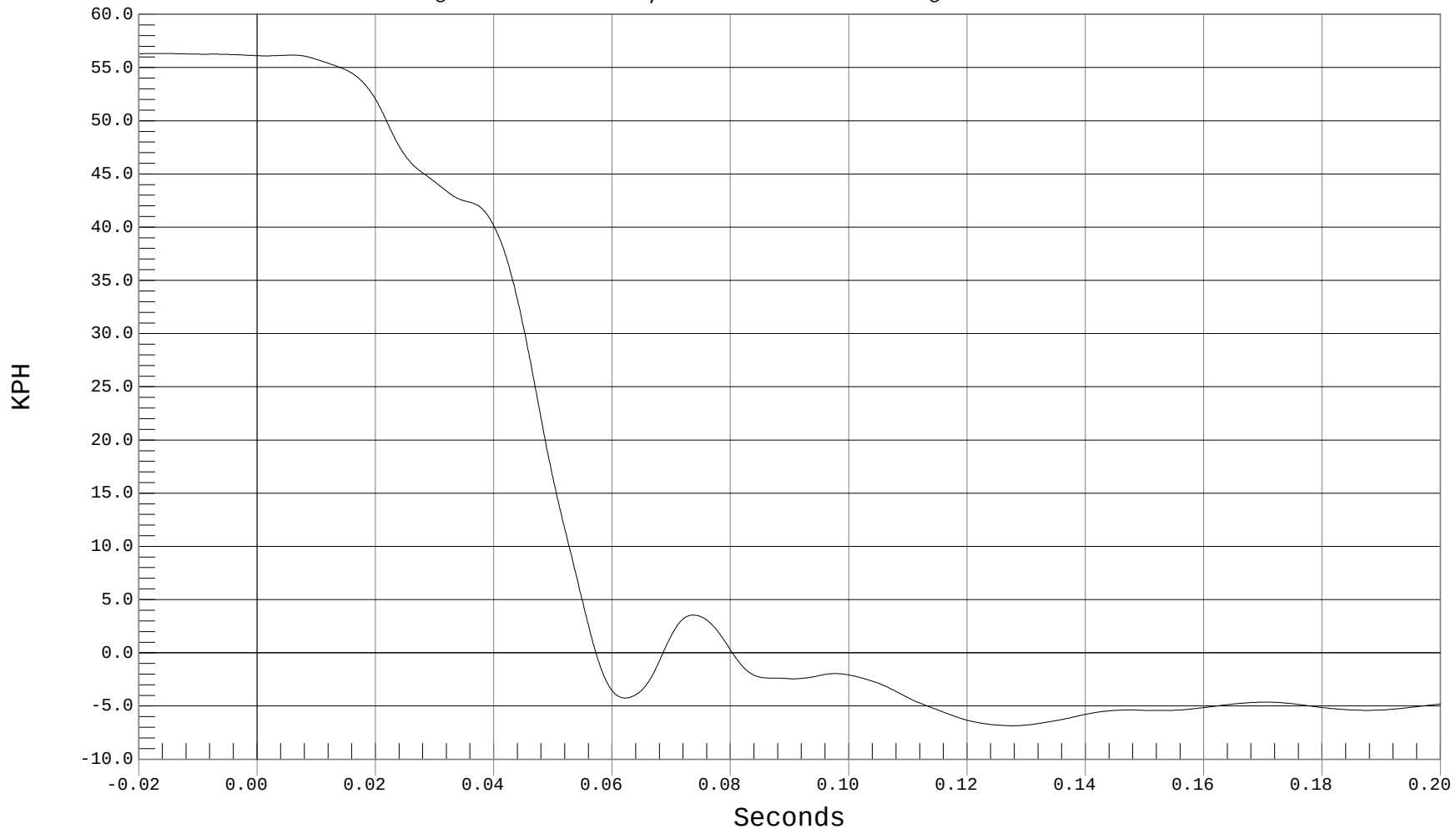
RIGHT BRAKE CALIPER X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 RIGHT BRAKE CALIPER X VELOCITY, b01005AI.V60

Ymin = -6.86 KPH @ 0.1278 Seconds, Ymax = 56.31 KPH @ -0.0167 Seconds



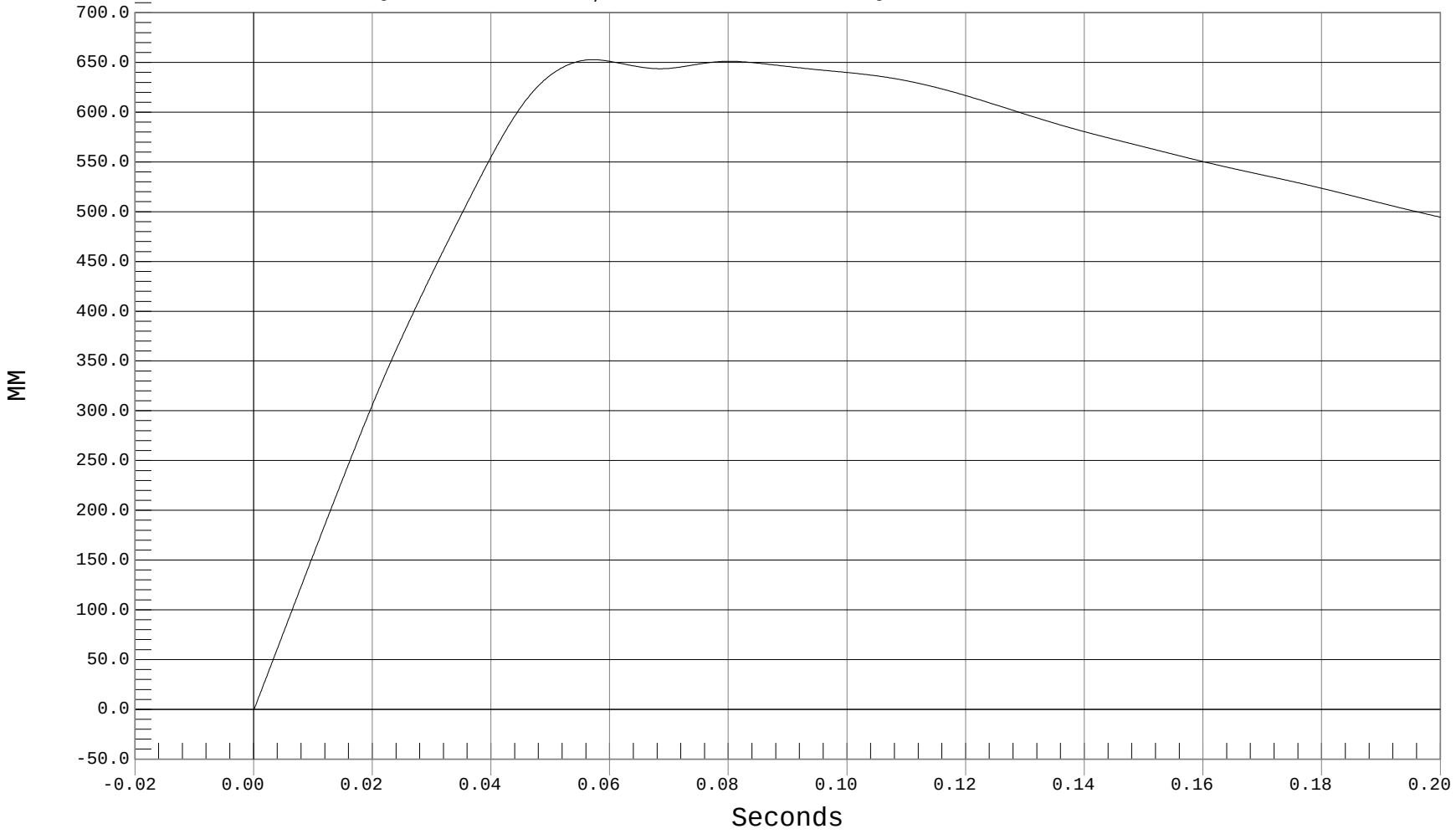
RIGHT BRAKE CALIPER X DISPLACEMENT

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 RIGHT BRAKE CALIPER X DISPLACEMENT, b01005AI.D60

Ymin = 0 MM @ 0.0001 Seconds, Ymax = 652.79 MM @ 0.0572 Seconds



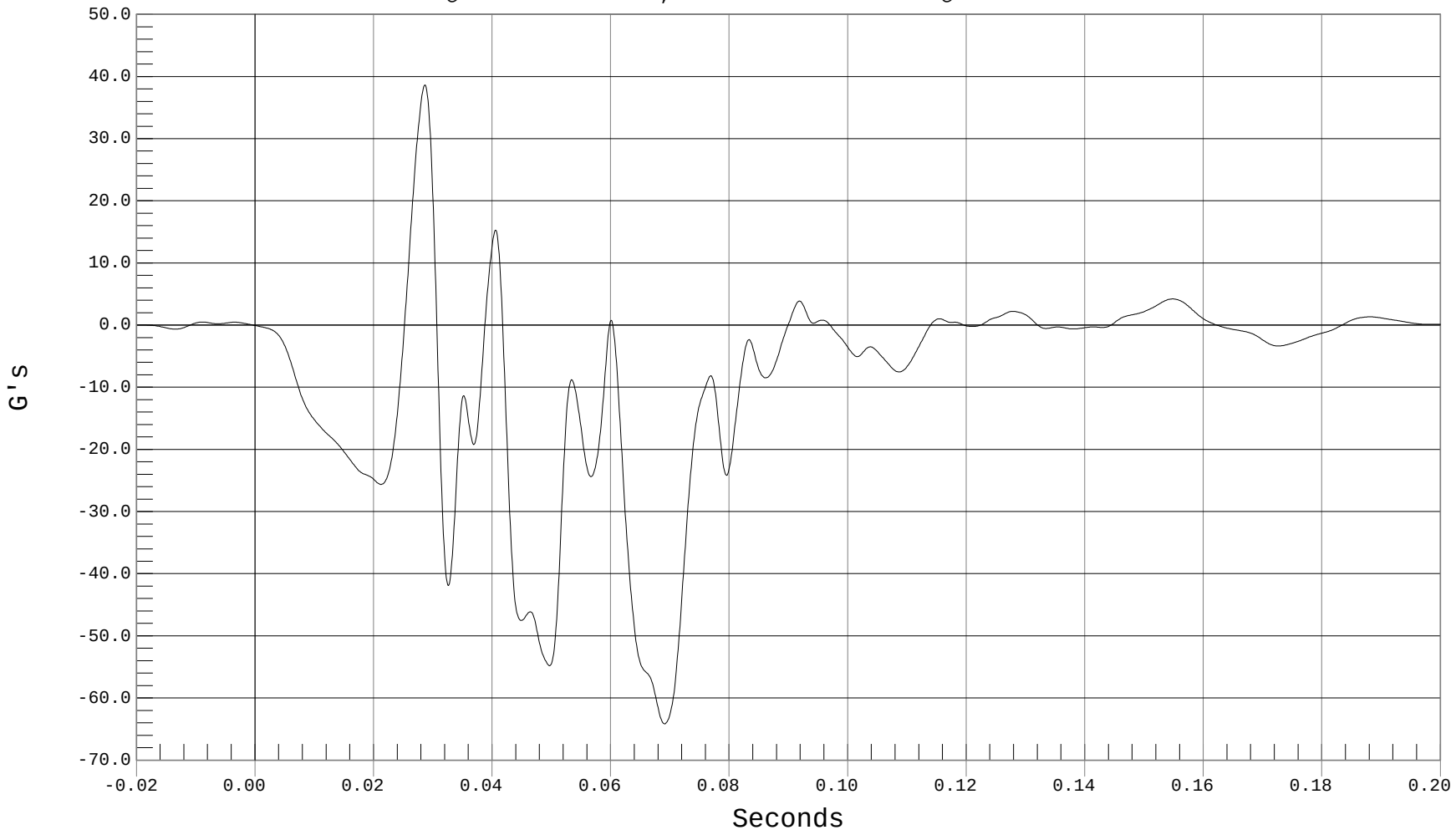
INSTRUMENT PANEL X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 INSTRUMENT PANEL X, b01005AF.A57

Ymin = -64.17 G's @ 0.0691 Seconds, Ymax = 38.65 G's @ 0.0287 Seconds



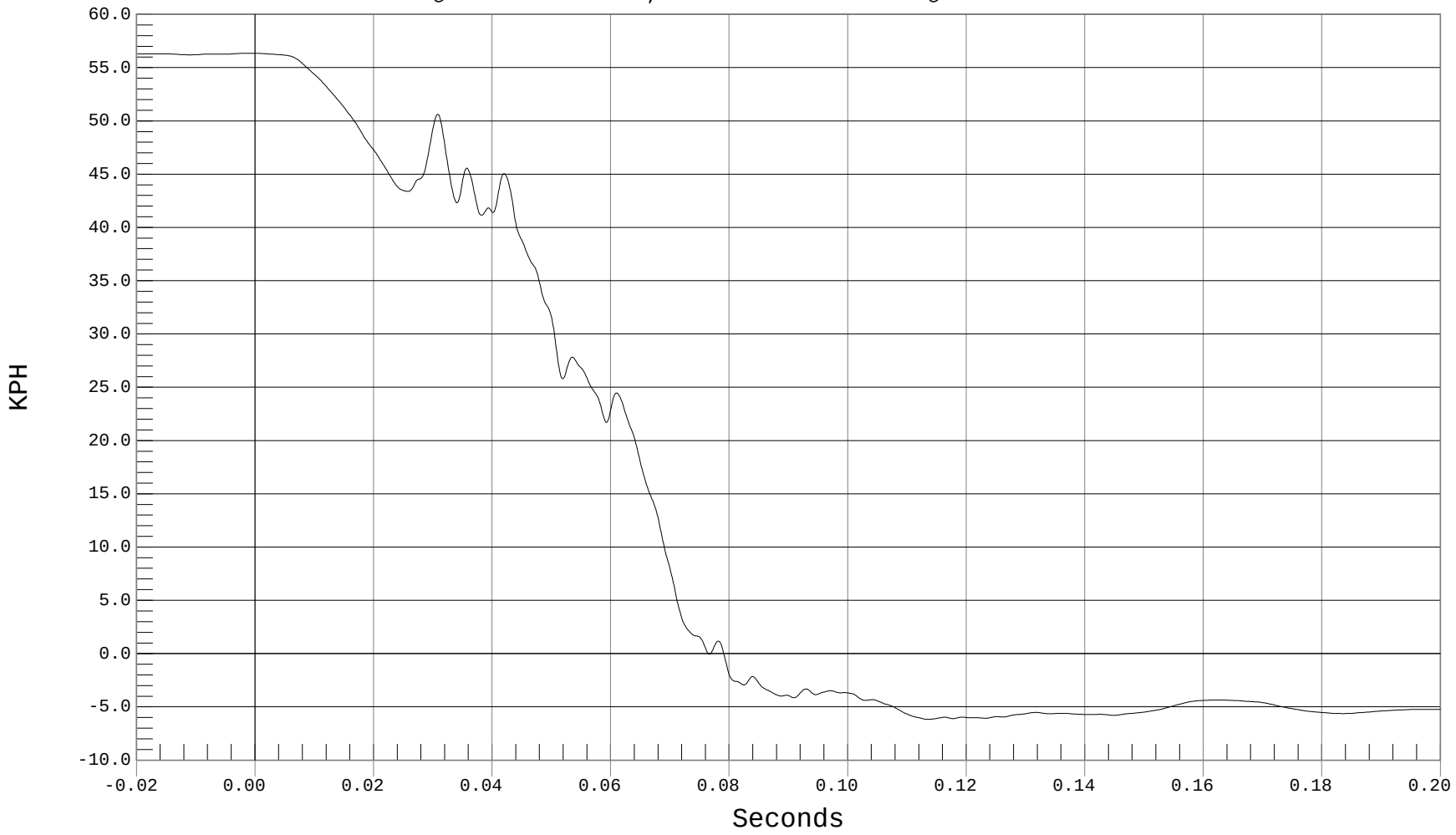
INSTRUMENT PANEL X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 INSTRUMENT PANEL X VELOCITY, b01005AI.V57

Ymin = -6.18 KPH @ 0.1135 Seconds, Ymax = 56.33 KPH @ -0.0003 Seconds



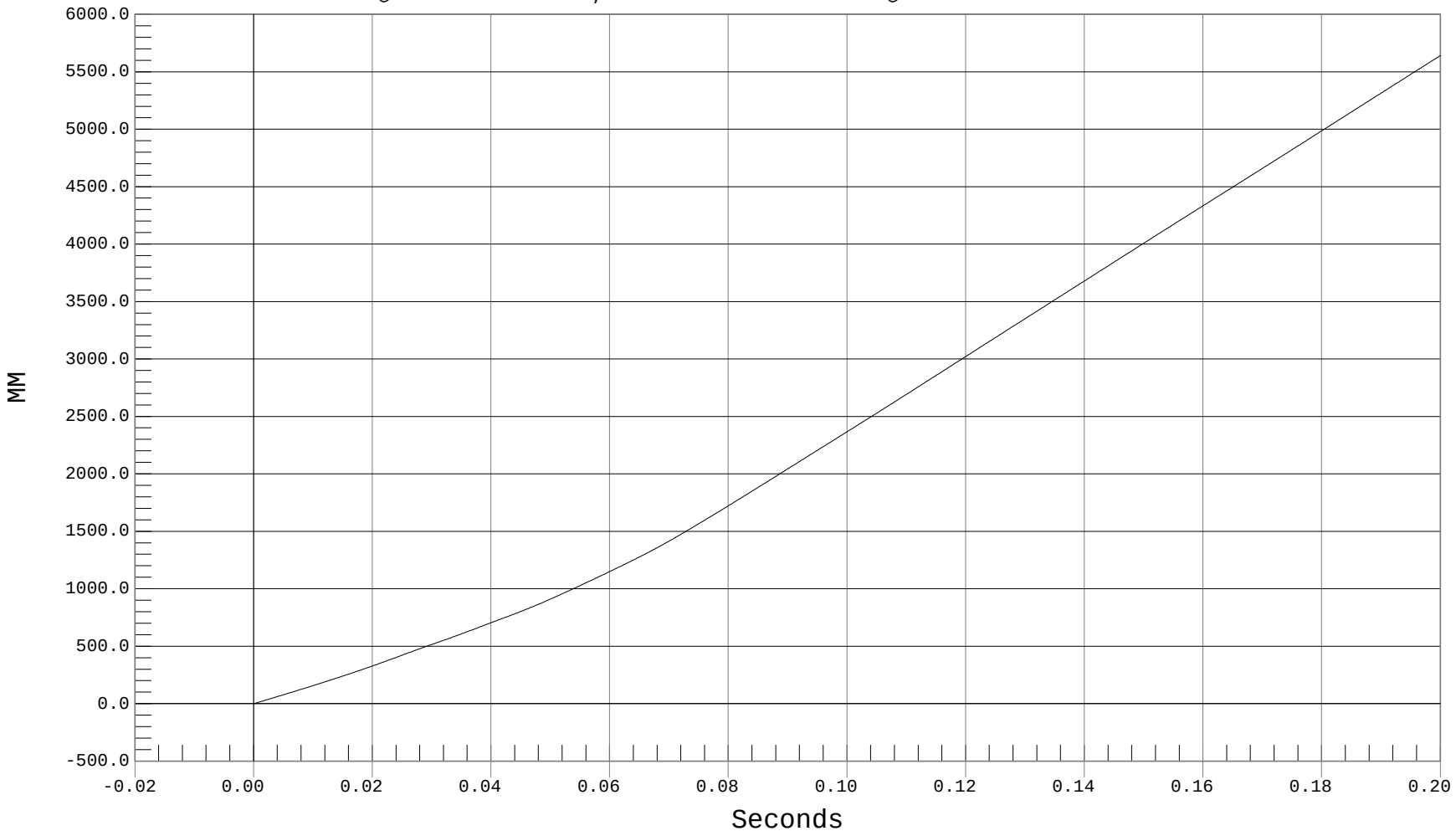
INSTRUMENT PANEL X DISPLACEMENT

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 INSTRUMENT PANEL X DISPLACEMENT, b01005AI.D57

Ymin = 0 MM @ 0.0001 Seconds, Ymax = 5641.05 MM @ 0.2000 Seconds



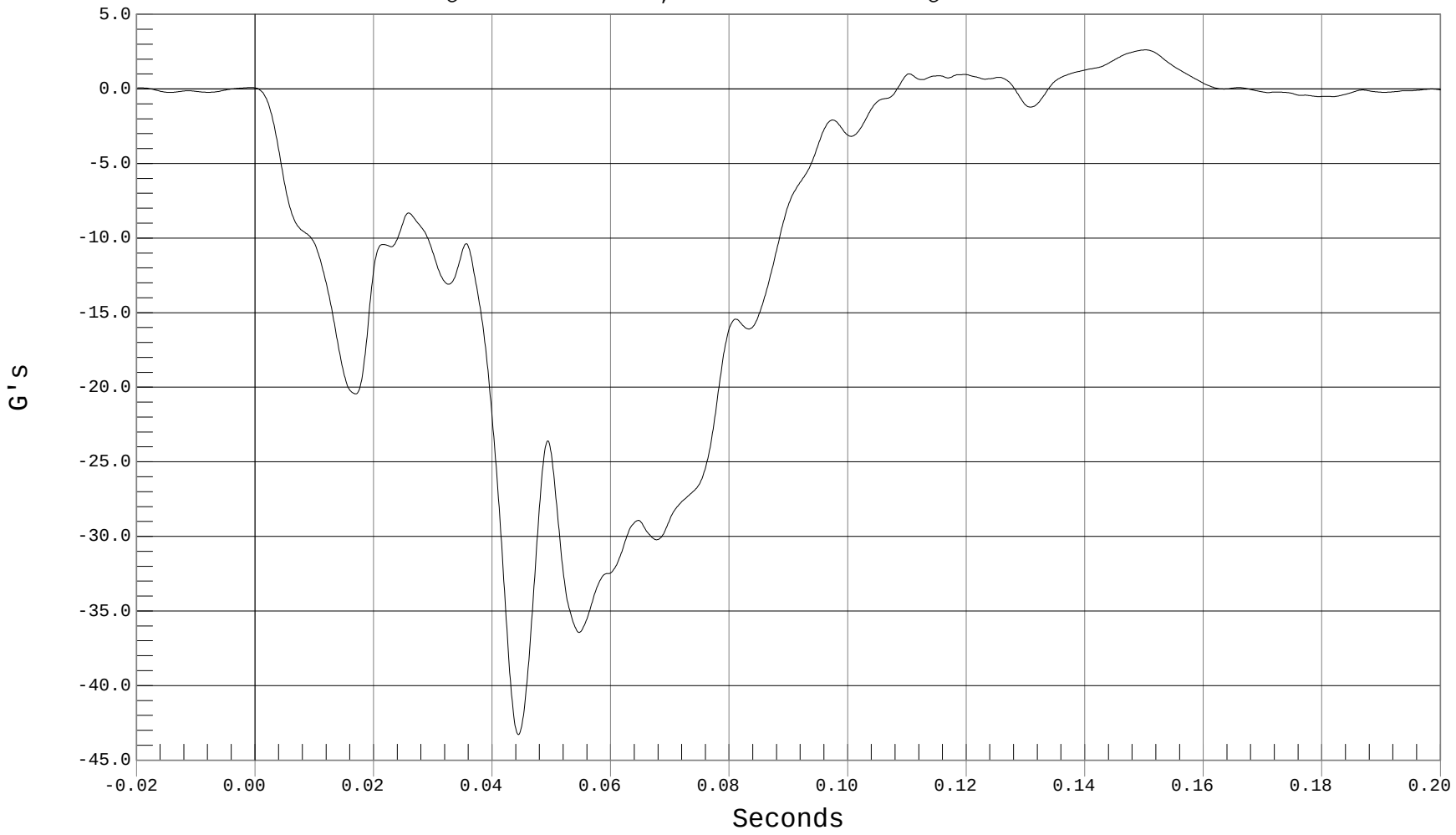
LEFT REAR SEAT CROSSMEMBER REDUNDANT X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 LEFT REAR SEAT X-MEMBER Xr, B01005AF.A03

Ymin = -43.29 G's @ 0.0445 Seconds, Ymax = 2.62 G's @ 0.1502 Seconds



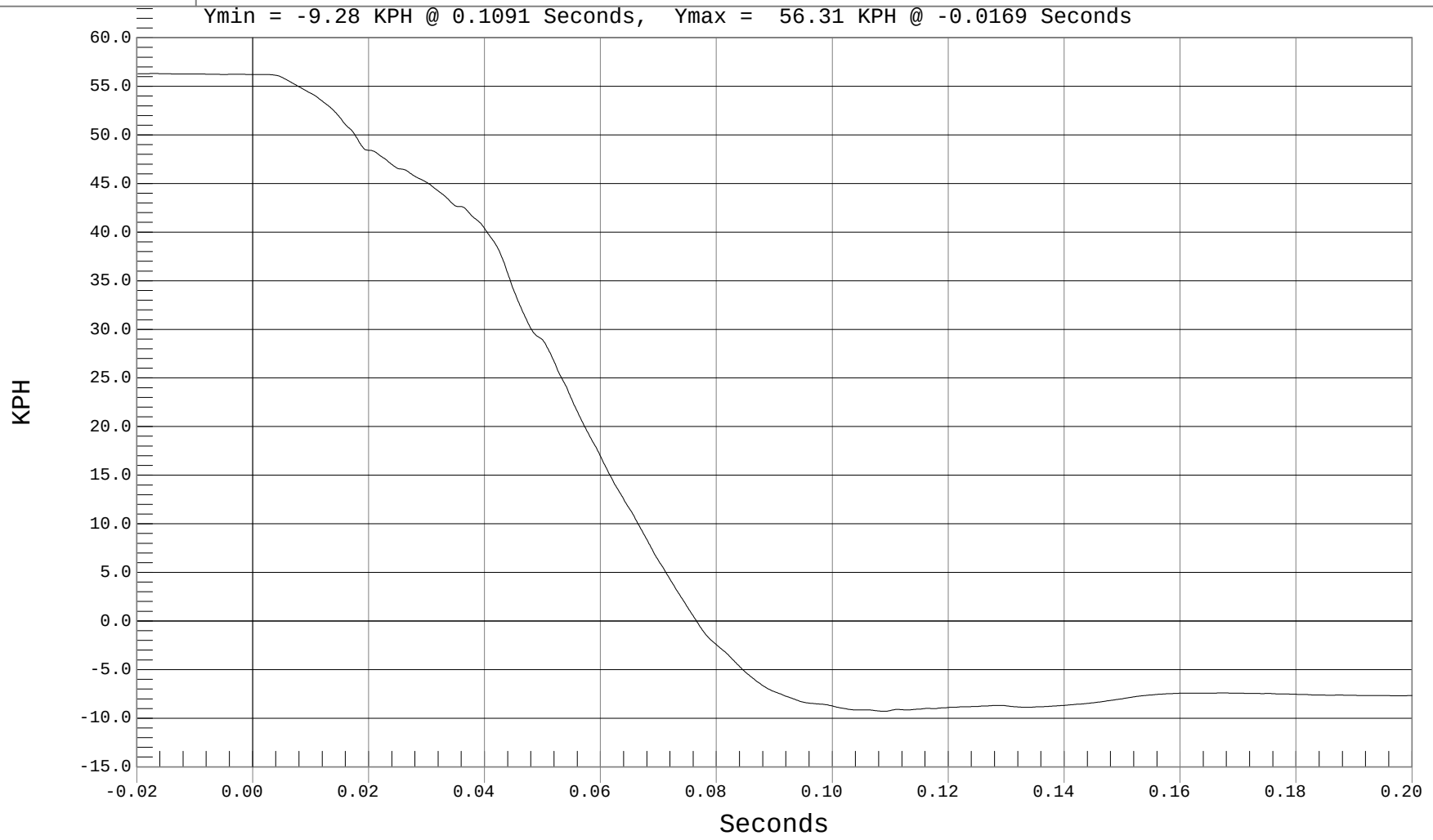
LEFT REAR SEAT CROSSMEMBER REDUNDANT X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 LEFT REAR SEAT CROSSMEMBER REDUNDANT X VELOCITY, B01005AI.V03

Ymin = -9.28 KPH @ 0.1091 Seconds, Ymax = 56.31 KPH @ -0.0169 Seconds



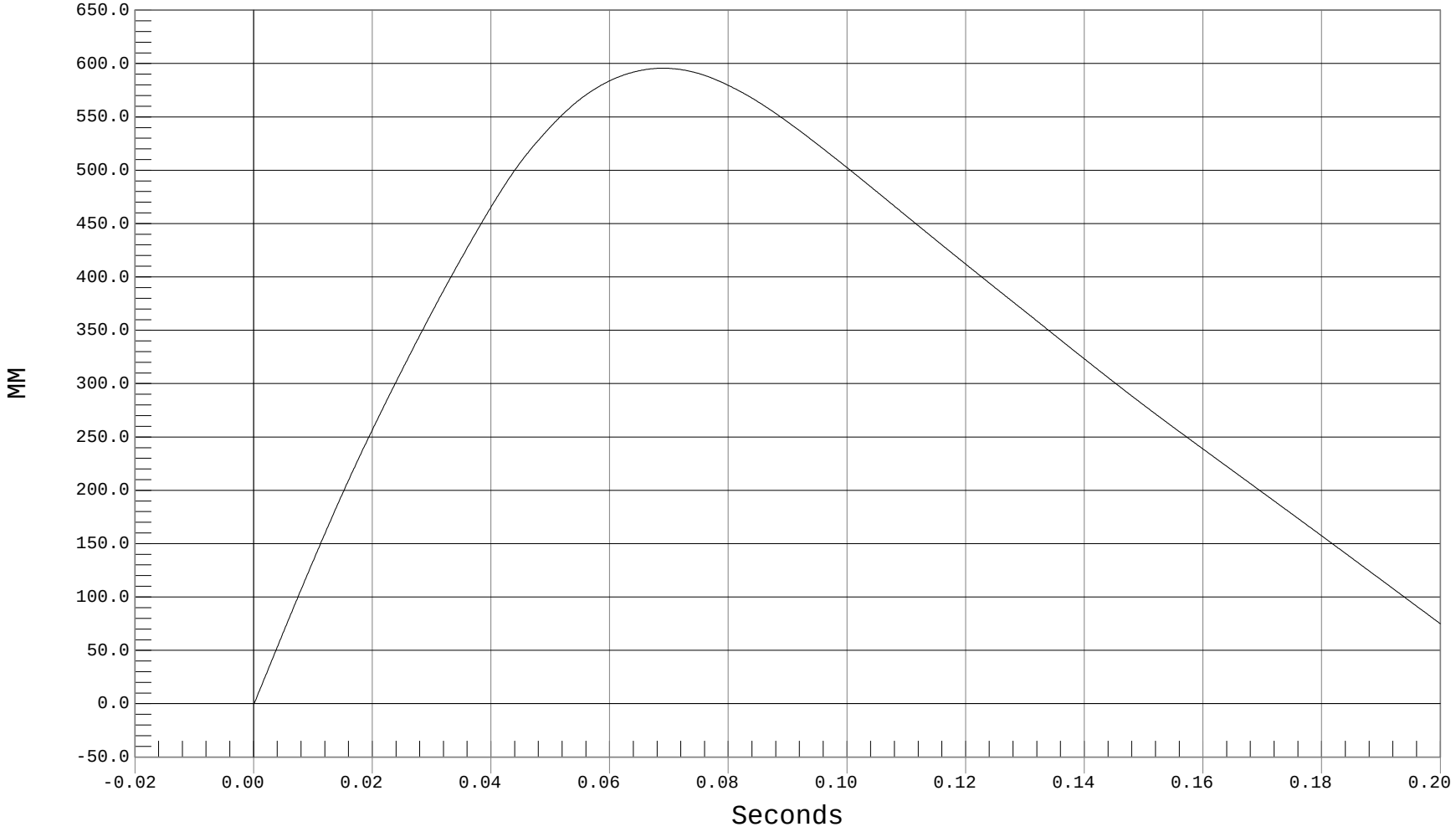
LEFT REAR SEAT CROSSMEMBER REDUNDANT X DISPLACEMENT

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 LEFT REAR SEAT CROSSMEMBER REDUNDANT X DISPLACEMENT, B01005AI.D03

Ymin = 0 MM @ 0.0001 Seconds, Ymax = 595.62 MM @ 0.0690 Seconds



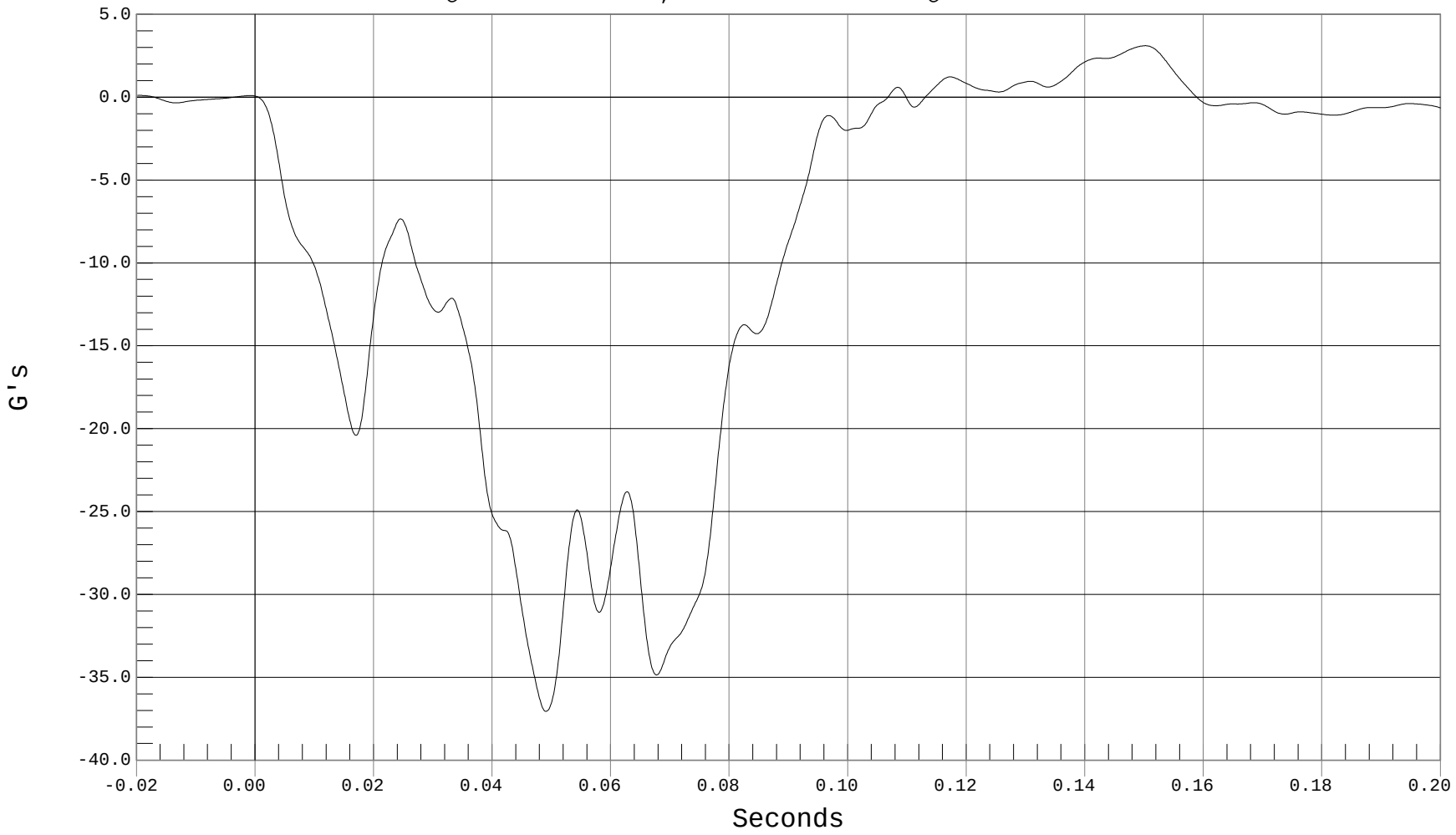
RIGHT REAR SEAT CROSSMEMBER REDUNDANT X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 RIGHT REAR SEAT X-MEMBER Xr, B01005AF.A02

Ymin = -37.06 G's @ 0.0491 Seconds, Ymax = 3.11 G's @ 0.1502 Seconds



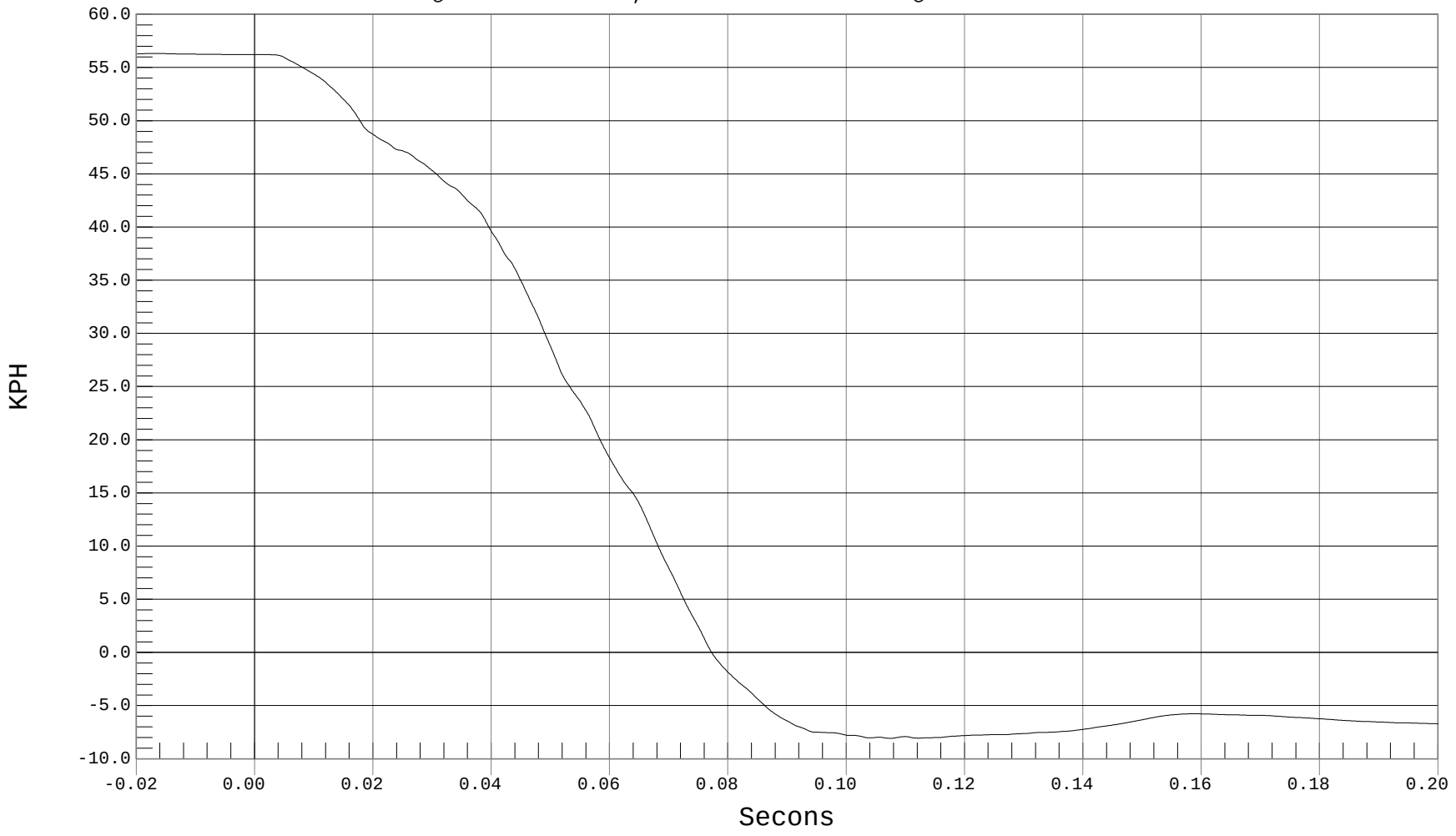
RIGHT REAR SEAT CROSSMEMBER REDUNDANT X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 RIGHT REAR SEAT CROSSMEMBER REDUNDANT X VELOCITY, B01005AI.V02

Ymin = -8.08 KPH @ 0.1074 Secons, Ymax = 56.31 KPH @ -0.0164 Secons



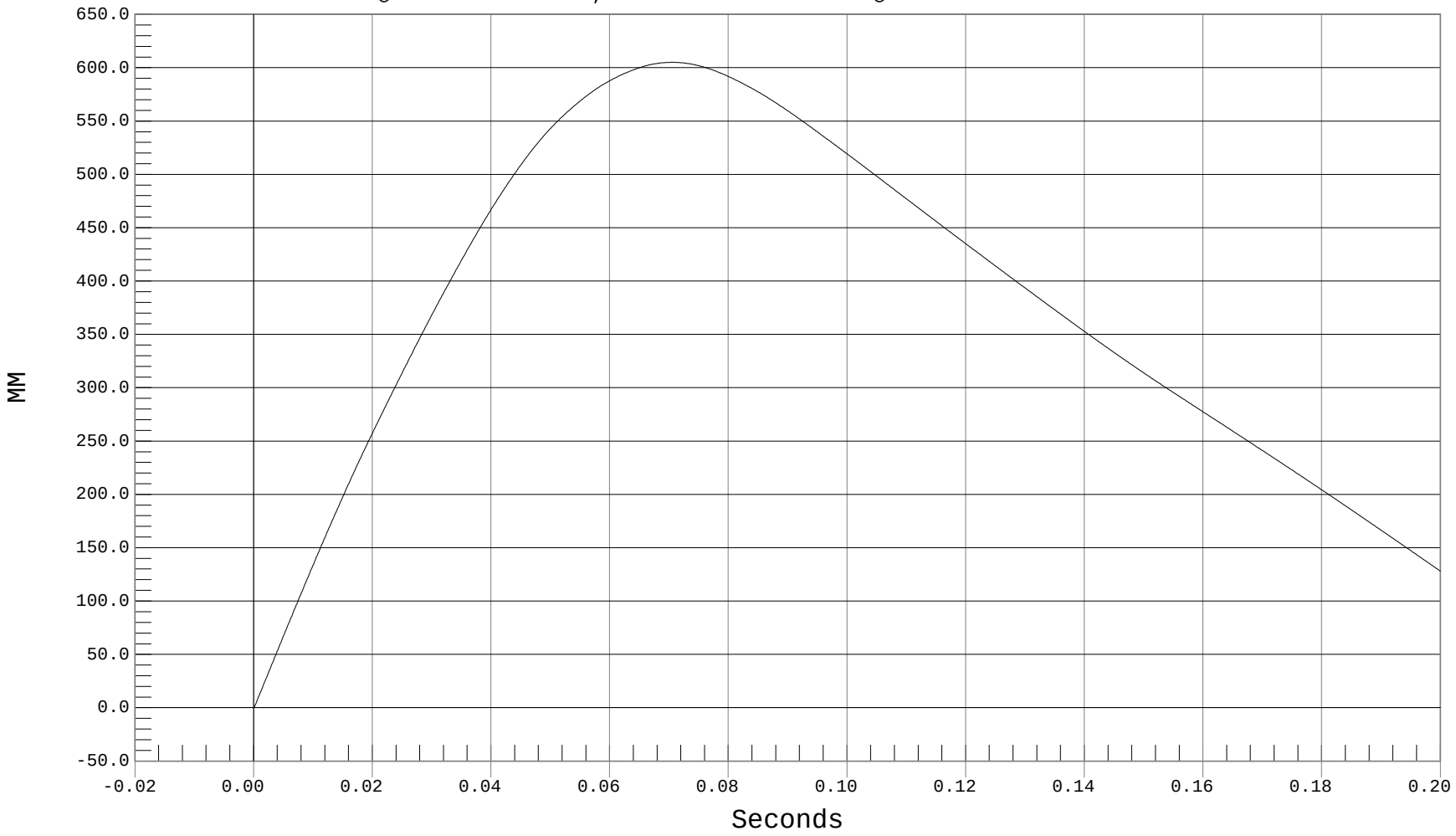
RIGHT REAR SEAT CROSSMEMBER REDUNDANT X DISPLACEMENT

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 RIGHT REAR SEAT CROSSMEMBER REDUNDANT X DISPLACEMENT, b01005AI.D02

Ymin = 0 MM @ 0.0001 Seconds, Ymax = 605.01 MM @ 0.0706 Seconds



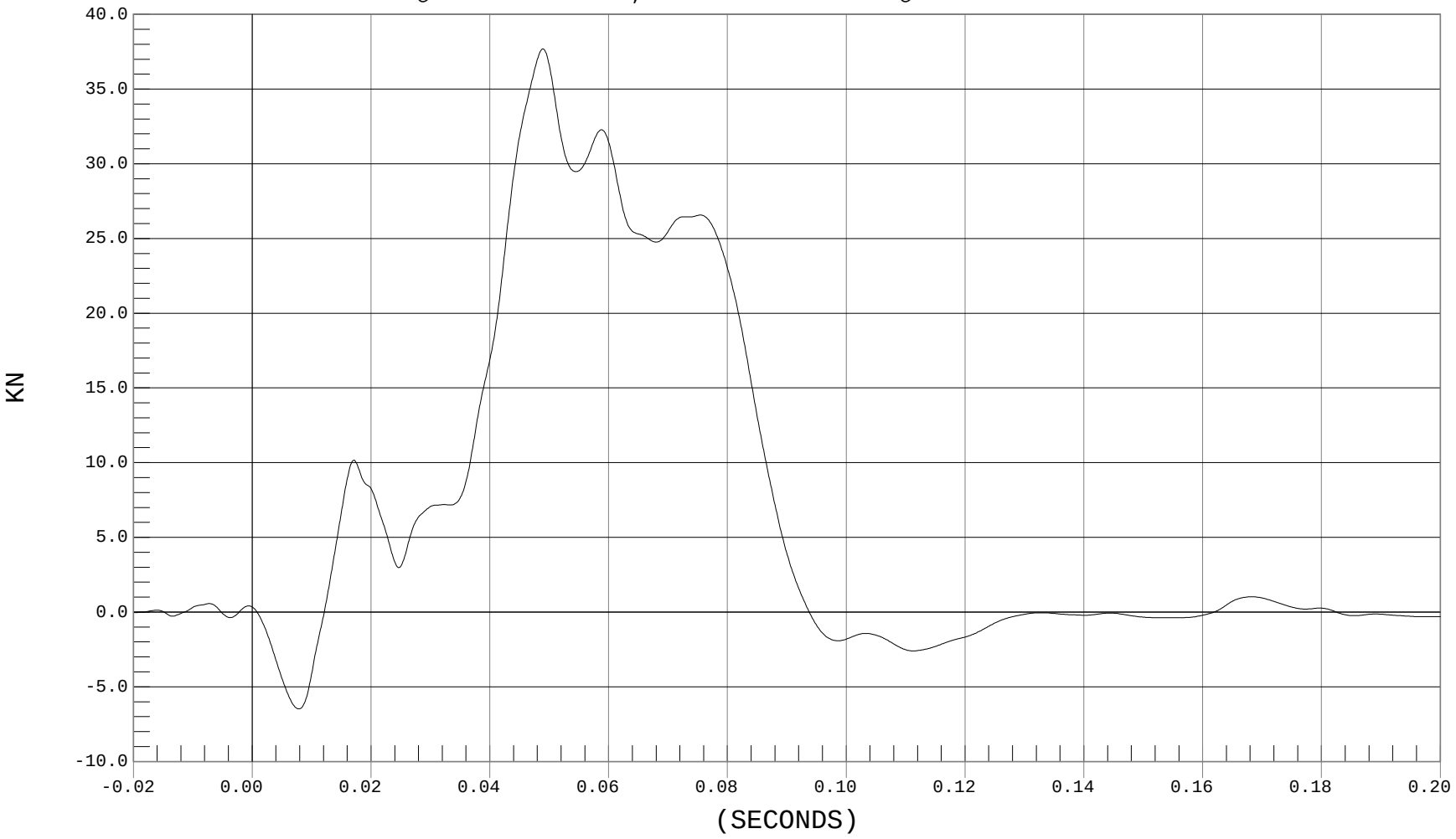
UPPER LEFT BARRIER FORCE

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 BARRIER UPPER LEFT, C01005FF.F02

Ymin = -6.48 KN @ 0.0079 SECONDS, Ymax = 37.68 KN @ 0.0489 SECONDS



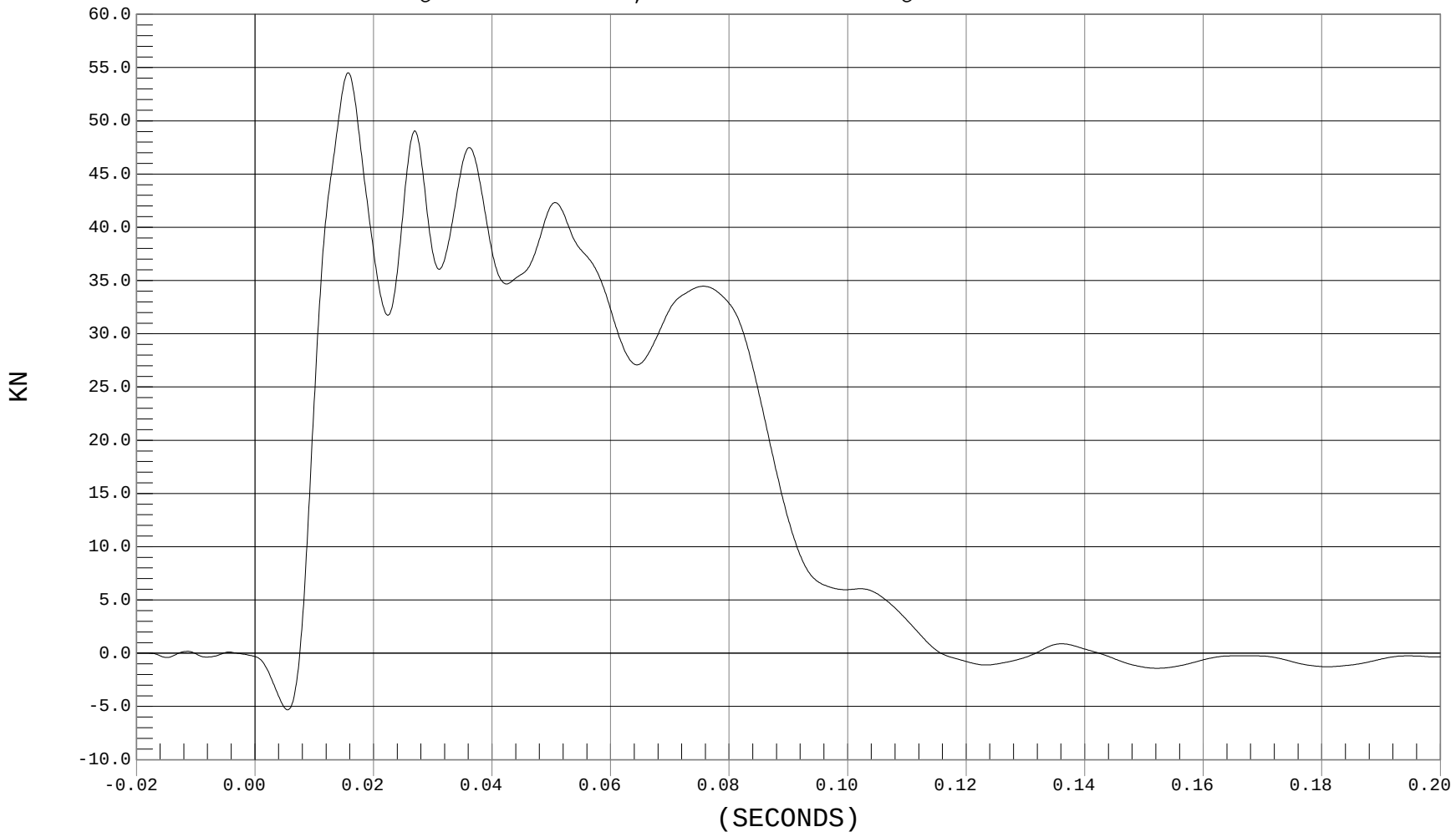
UPPER CENTER BARRIER FORCE

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 BARRIER UPPER CENTER, C01005FF.F03

Ymin = -5.32 KN @ 0.0055 SECONDS, Ymax = 54.51 KN @ 0.0157 SECONDS



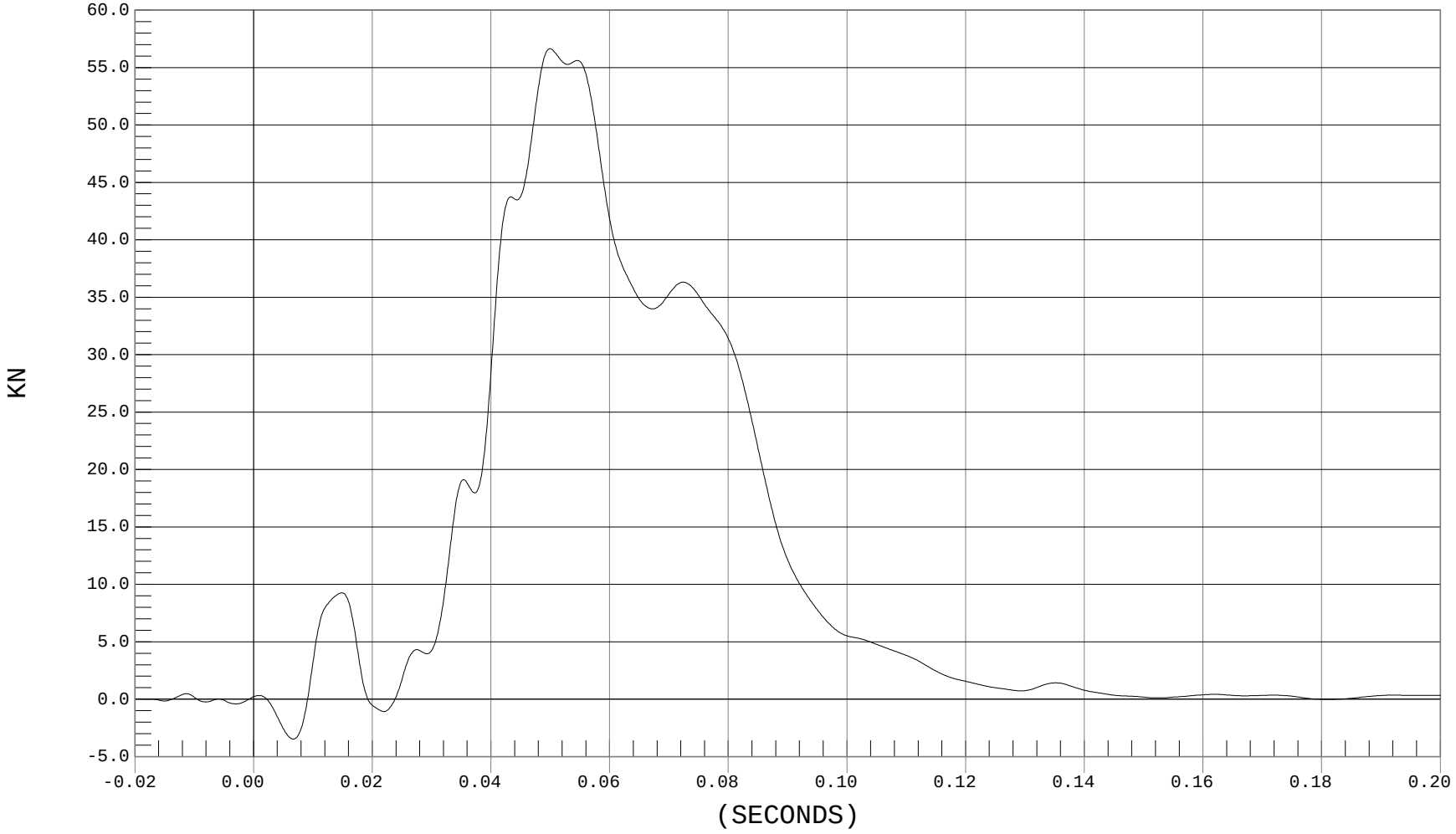
UPPER RIGHT BARRIER FORCE

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 BARRIER UPPER RIGHT, C01005FF.F04

Ymin = -3.48 KN @ 0.0067 SECONDS, Ymax = 56.64 KN @ 0.0499 SECONDS



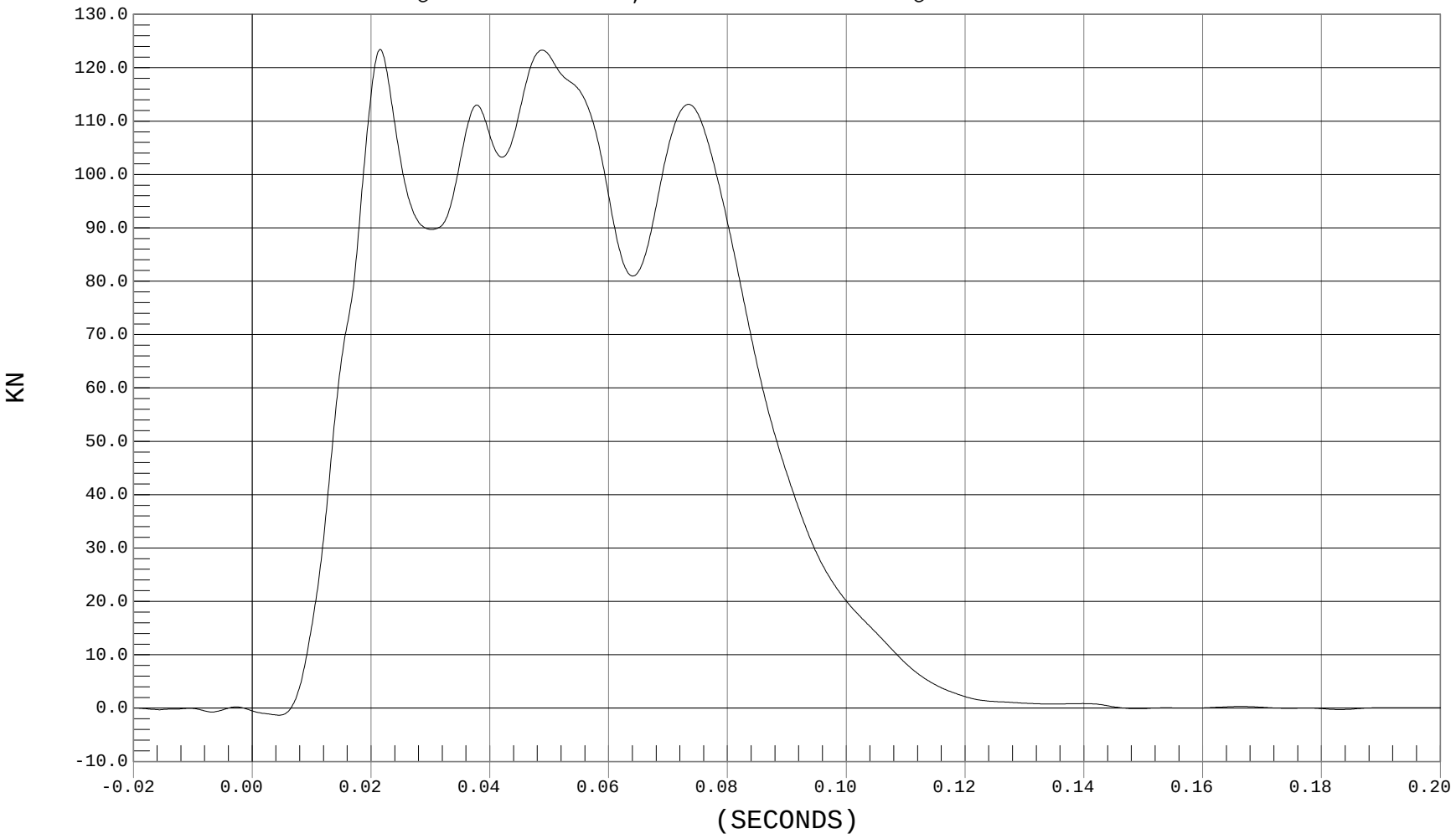
LOWER LEFT BARRIER FORCE

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 BARRIER LOWER LEFT, C01005FF.F05

Ymin = -1.32 KN @ 0.0045 SECONDS, Ymax = 123.42 KN @ 0.0215 SECONDS



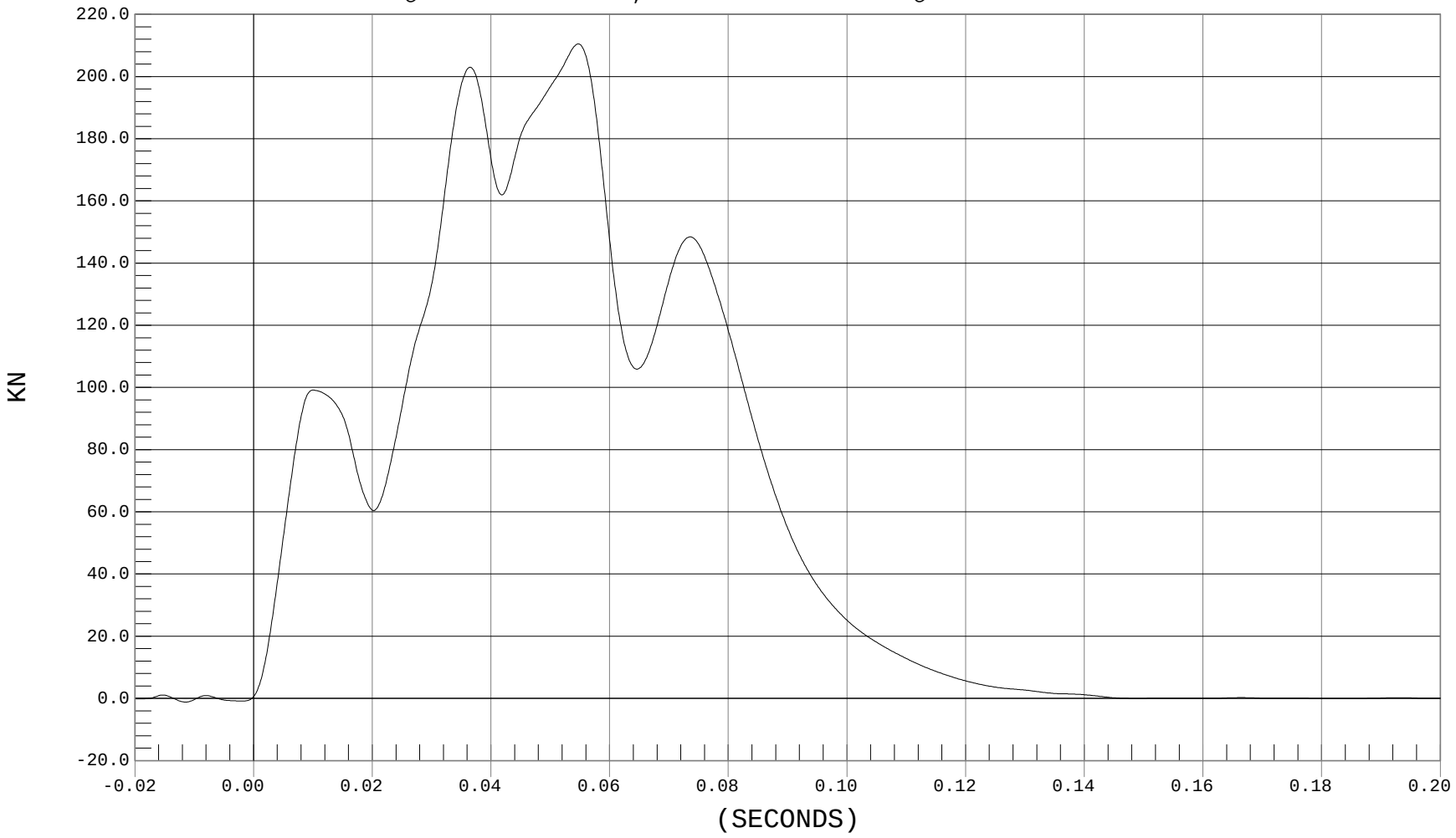
LOWER CENTER BARRIER FORCE

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 BARRIER LOWER CENTER, C01005FF.F06

Ymin = -1.2 KN @ -0.0114 SECONDS, Ymax = 210.49 KN @ 0.0547 SECONDS



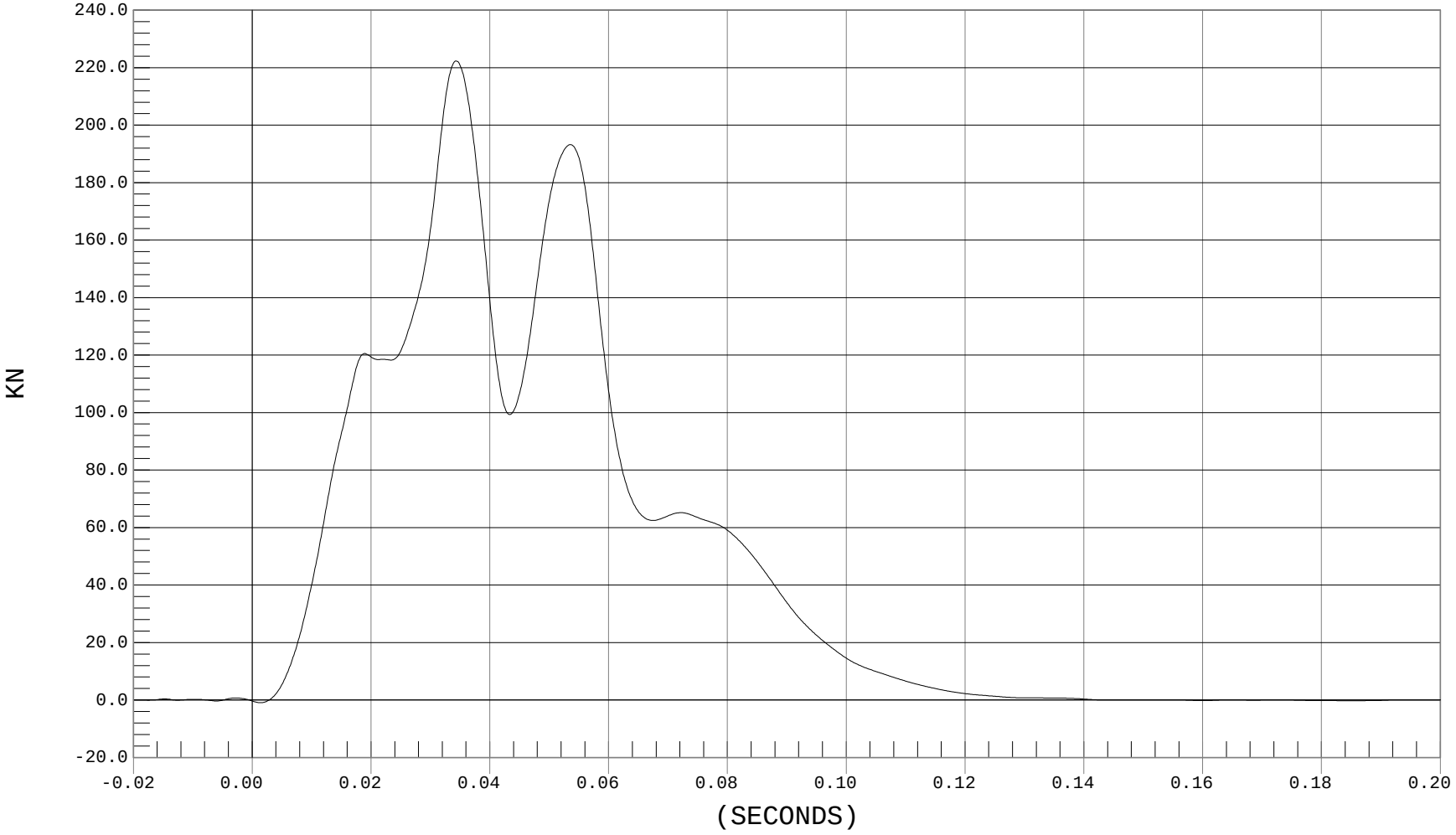
LOWER RIGHT BARRIER FORCE

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 BARRIER LOWER RIGHT, C01005FF.F07

Ymin = -.94 KN @ 0.0014 SECONDS, Ymax = 222.34 KN @ 0.0343 SECONDS



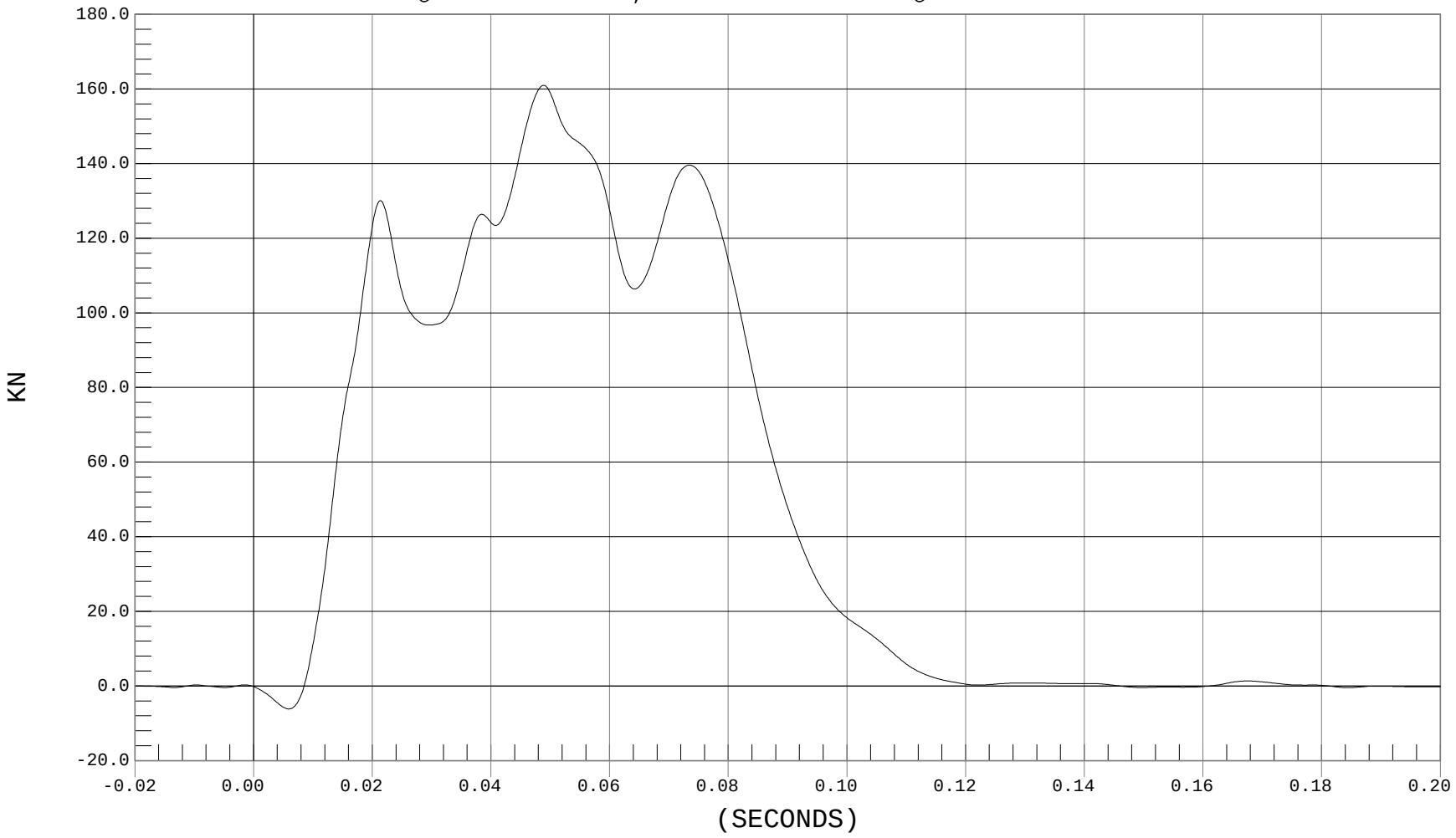
SUM OF LEFT BARRIER FORCES

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 SUM OF LEFT BARRIER FORCES, C01005FU.F02

Ymin = -6.16 KN @ 0.0059 SECONDS, Ymax = 160.98 KN @ 0.0489 SECONDS



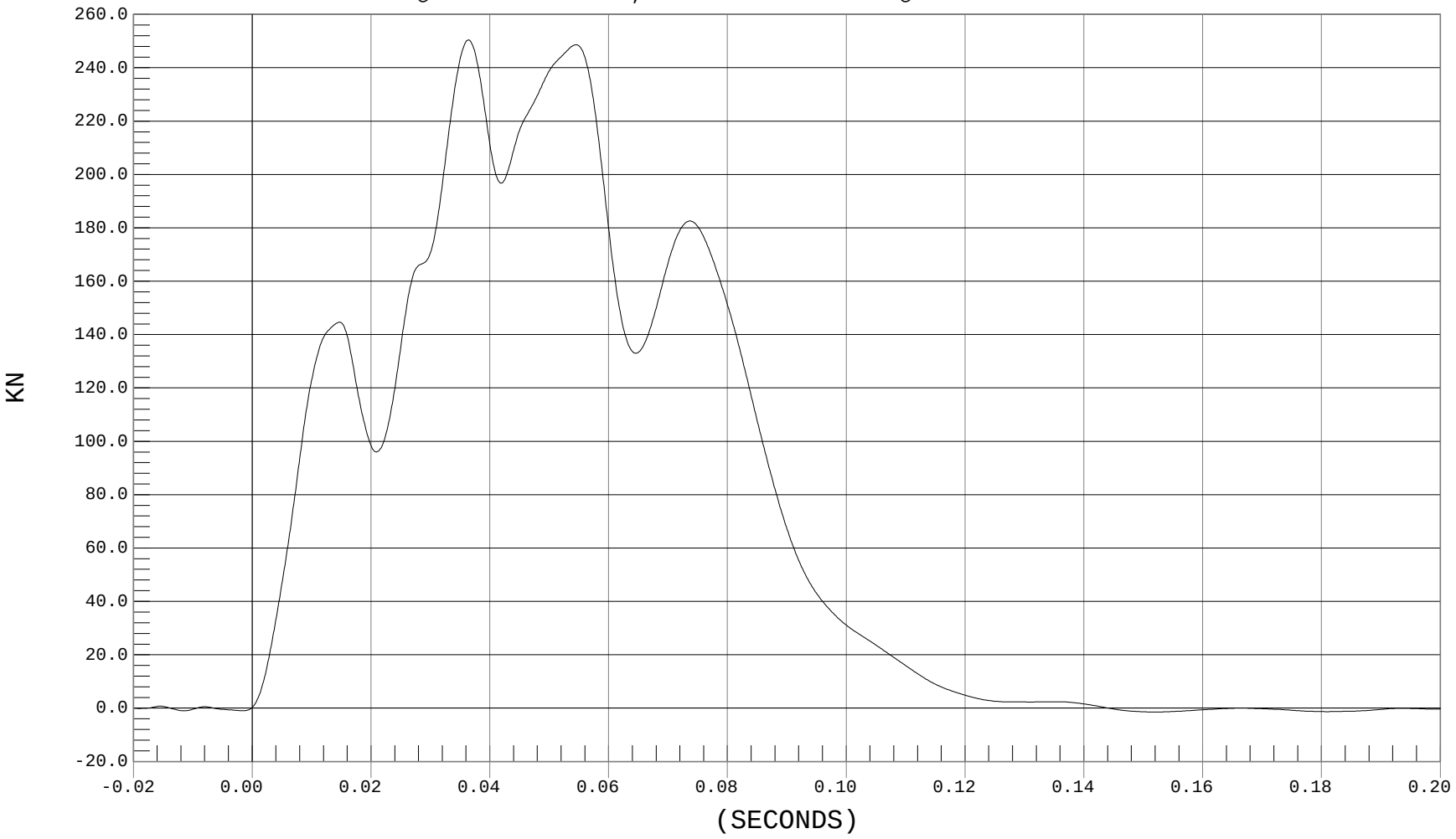
SUM OF CENTER BARRIER FORCES

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 SUM OF CENTER BARRIER FORCES, C01005FU.F03

Ymin = -1.43 KN @ 0.1519 SECONDS, Ymax = 250.4 KN @ 0.0364 SECONDS



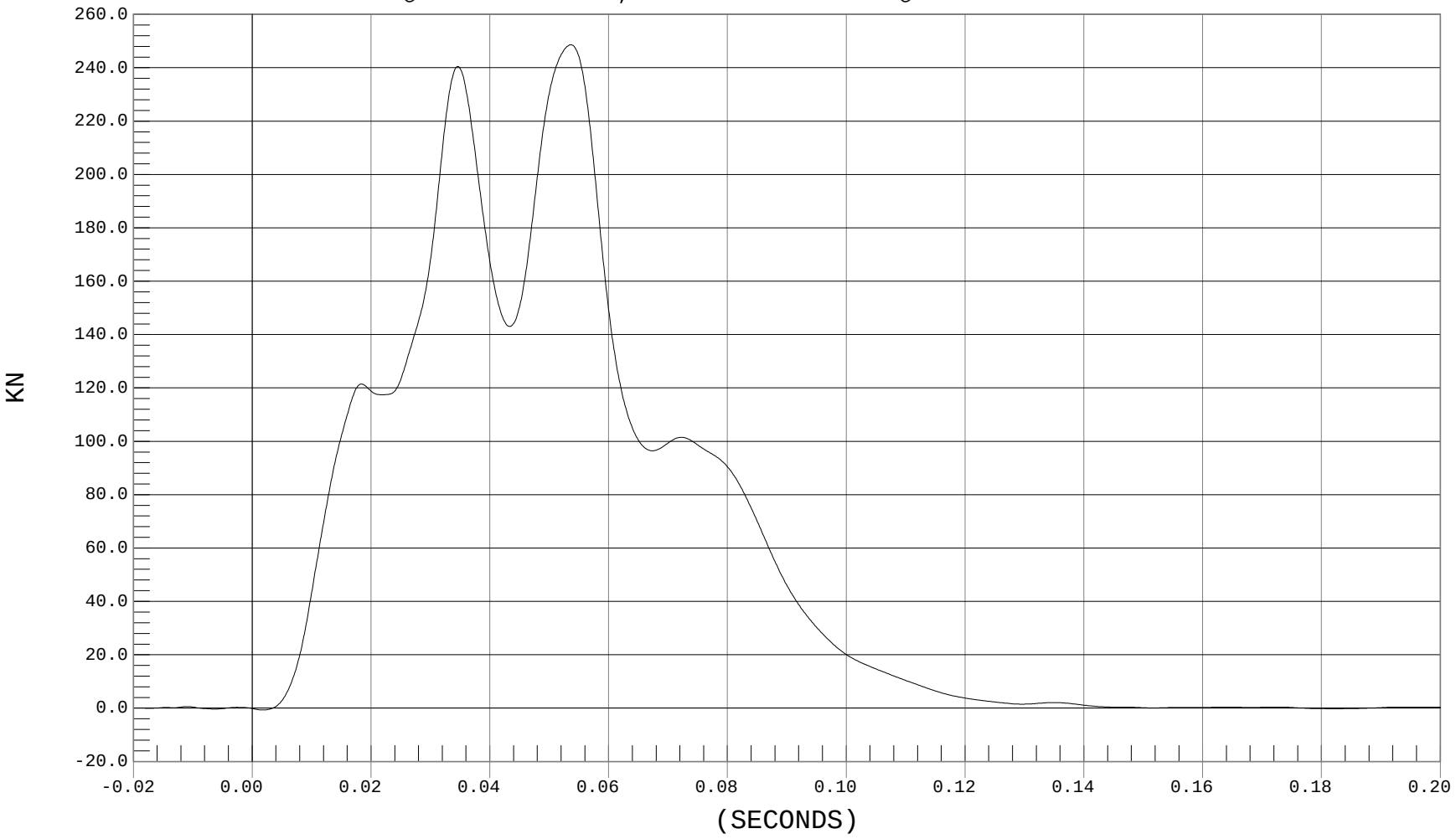
SUM OF RIGHT BARRIER FORCES

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 SUM OF RIGHT BARRIER FORCES, C01005FU.F04

Ymin = -.69 KN @ 0.0018 SECONDS, Ymax = 248.62 KN @ 0.0536 SECONDS



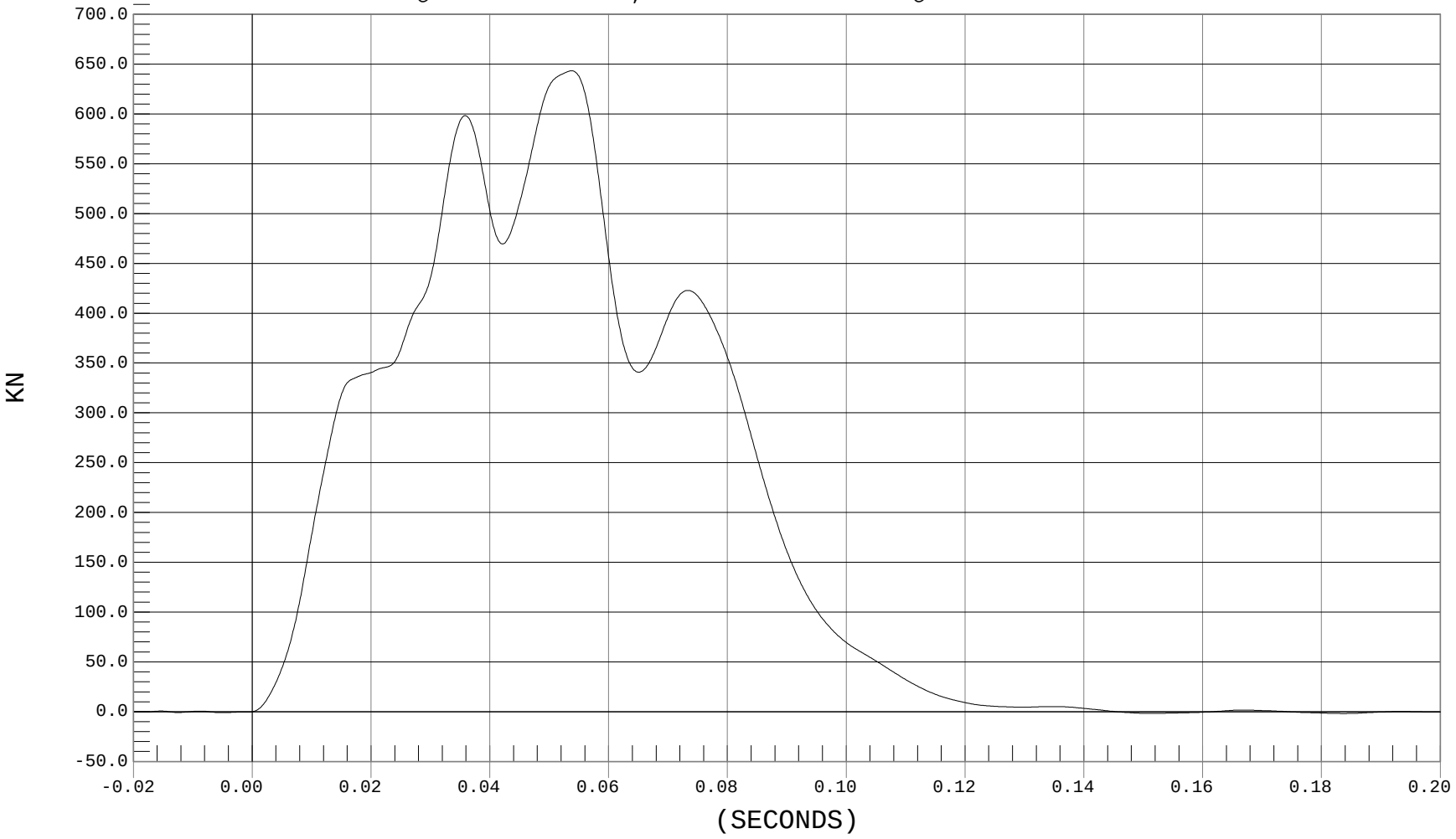
SUM OF BARRIER FORCES

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 60

1 SUM OF BARRIER FORCES, C01005FU.F05

Ymin = -1.87 KN @ 0.1837 SECONDS, Ymax = 643.32 KN @ 0.0538 SECONDS



APPENDIX C

DUMMY CALIBRATION DATA TRACES AND TABLES

Hybrid III Calibration Data Sheet

50th Percentile Male

Left Knee Impact Test

ATD Serial No.: 142 Test I.D.: D01416

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	20.6°	PASS
Laboratory Relative Humidity	%	10 to 70	45%	PASS
Probe Velocity	m/s	2.07 to 2.13	2.09	PASS
Peak Probe Force	Newtons	4715 to 5782	5037	PASS
		Overall Test Results		PASS

_____ 11/7/00

Laboratory Technician Test Date

_____

Approved By

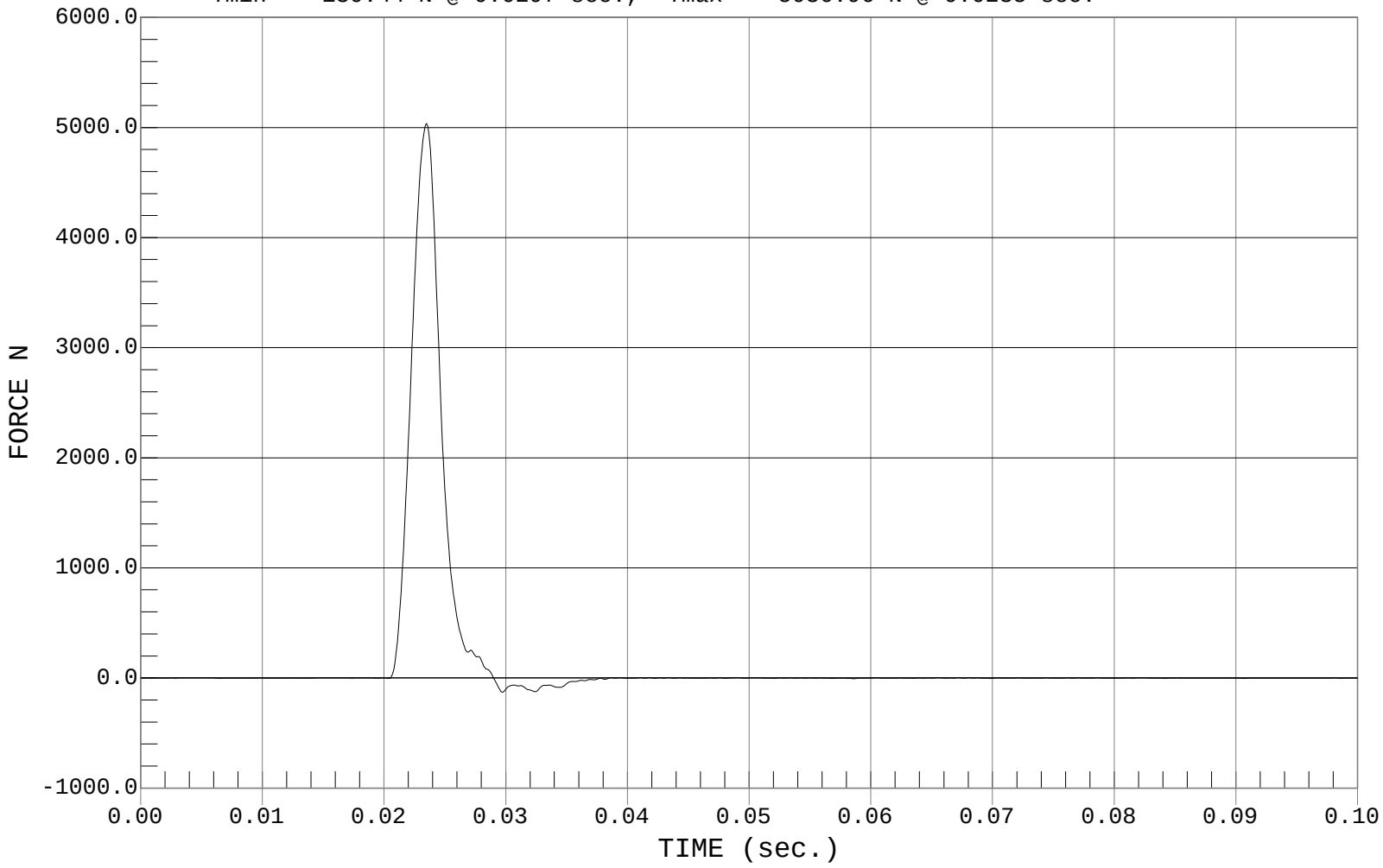
LEFT KNEE IMPACT

Test Desc.: Dummy Calibration - Left Knee Impact
Component: Dummy #142

Test Date: 11-07-00
Speed: 6.87 FT/SEC, 2.09 M/SEC

1 FORCE, D00416FF.F09

Ymin = -130.44 N @ 0.0297 sec., Ymax = 5036.96 N @ 0.0235 sec.



Hybrid III Calibration Data Sheet

50th Percentile Male

Right Knee Impact Test

ATD Serial No.: 142 Test I.D.: D001415

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	20.6°	PASS
Laboratory Relative Humidity	%	10 to 70	45%	PASS
Probe Velocity	m/s	2.07 to 2.13	2.11	PASS
Peak Probe Force	Newtons	4715 to 5782	4920	PASS
		Overall Test Results		PASS

Laboratory Technician

11/7/00
Test Date

Approved By

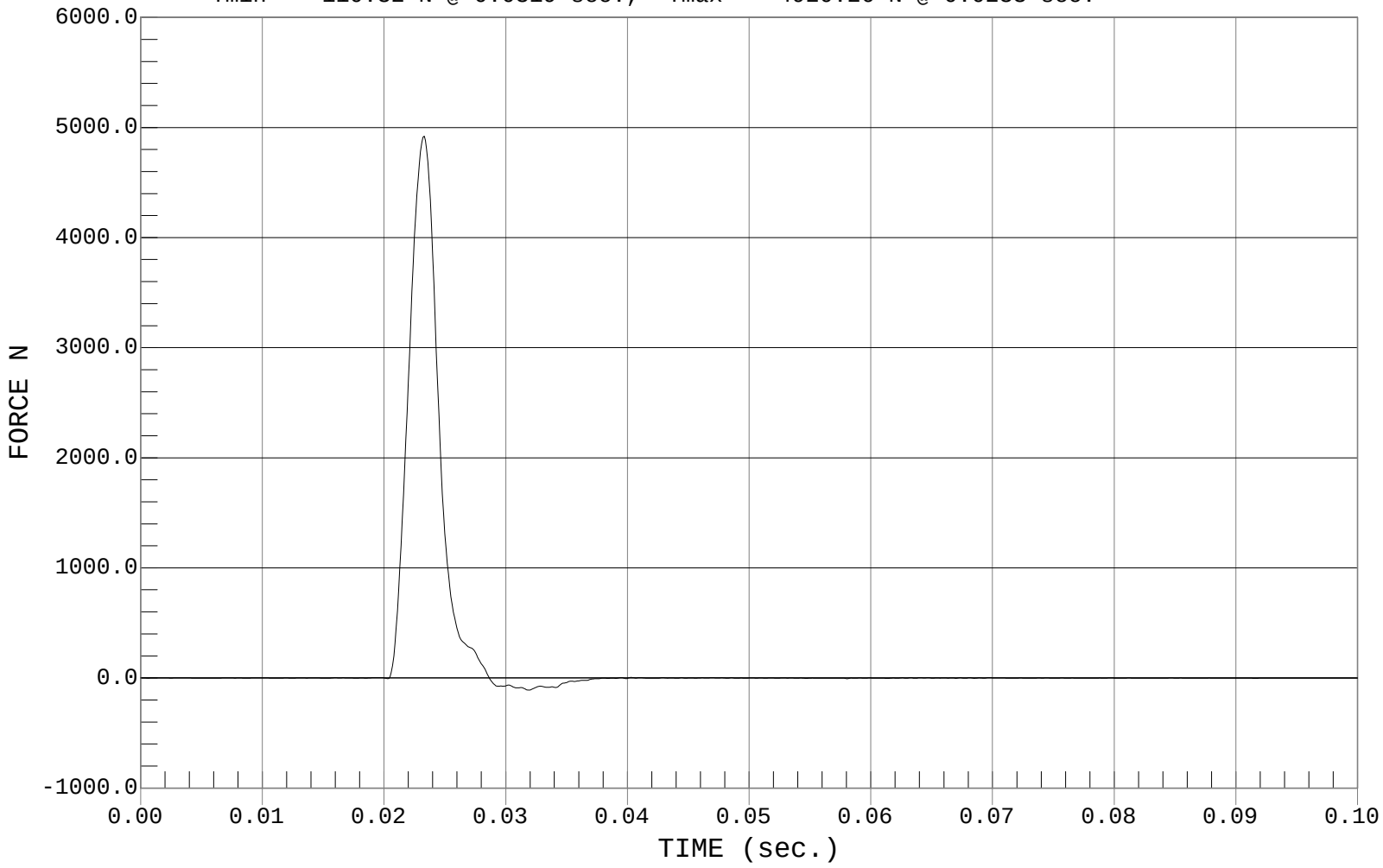
RIGHT KNEE IMPACT

Test Desc.: Dummy Calibration - Right Knee Impact
Component: Dummy #142

Test Date: 11-07-00
Speed: 6.93 FT/SEC, 2.11 M/SEC

1 FORCE, D00415FF.F09

Ymin = -110.32 N @ 0.0319 sec., Ymax = 4920.26 N @ 0.0233 sec.



Hybrid III Calibration Data Sheet

50th Percentile Male

Head Drop Calibration

ATD Serial No.: 142 Test I.D.: D001411

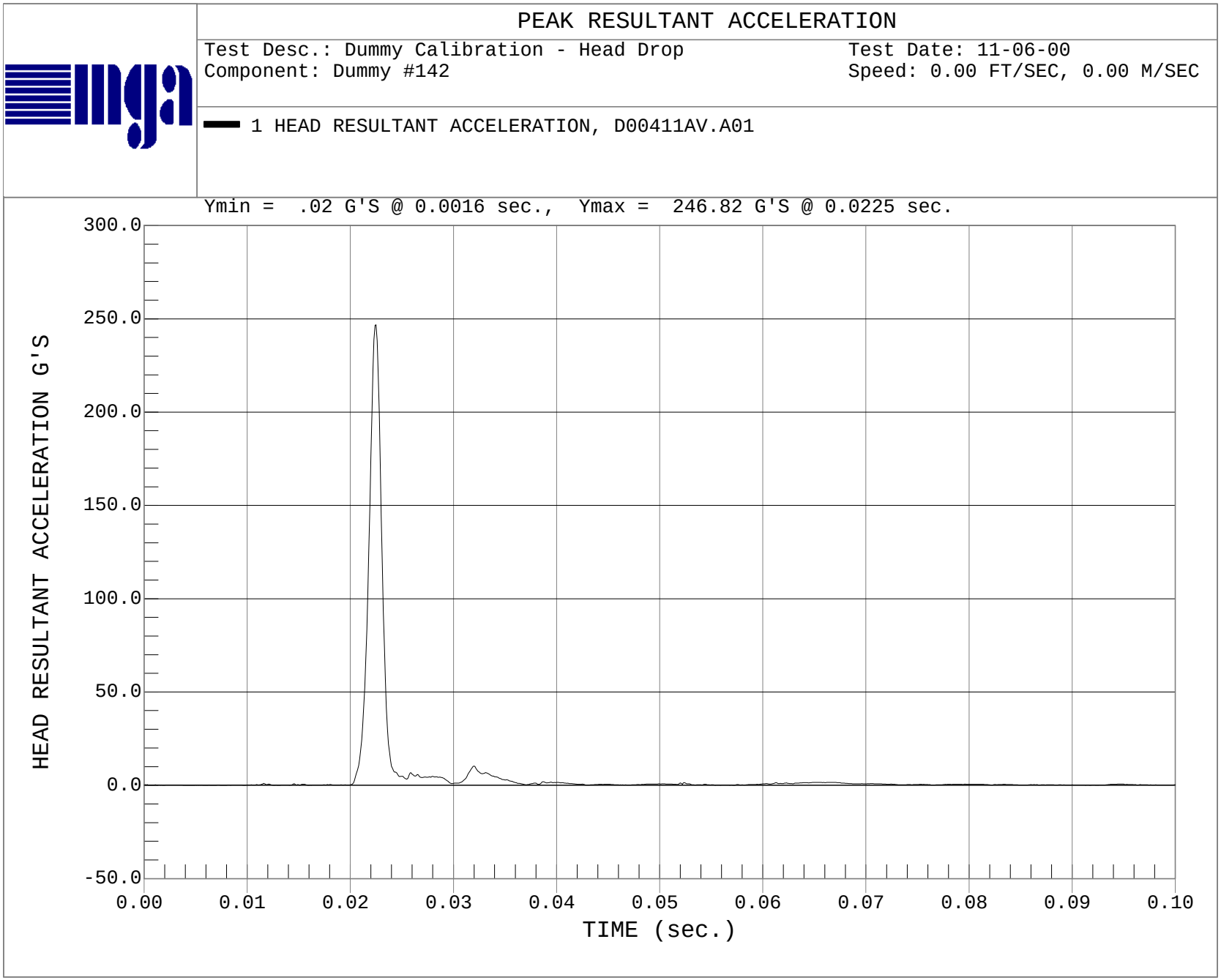
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1°	PASS
Laboratory Relative Humidity	%	10 to 70	33%	PASS
Peak Resultant Accel.	G's	225.0 to 275.0	246.8	PASS
Peak Lateral Accel.	G's	≤ ± 15.0	-5.0	PASS
Is Acceleration Unimodal?	Yes/No	Yes	Yes	PASS
		Overall Test Results		PASS

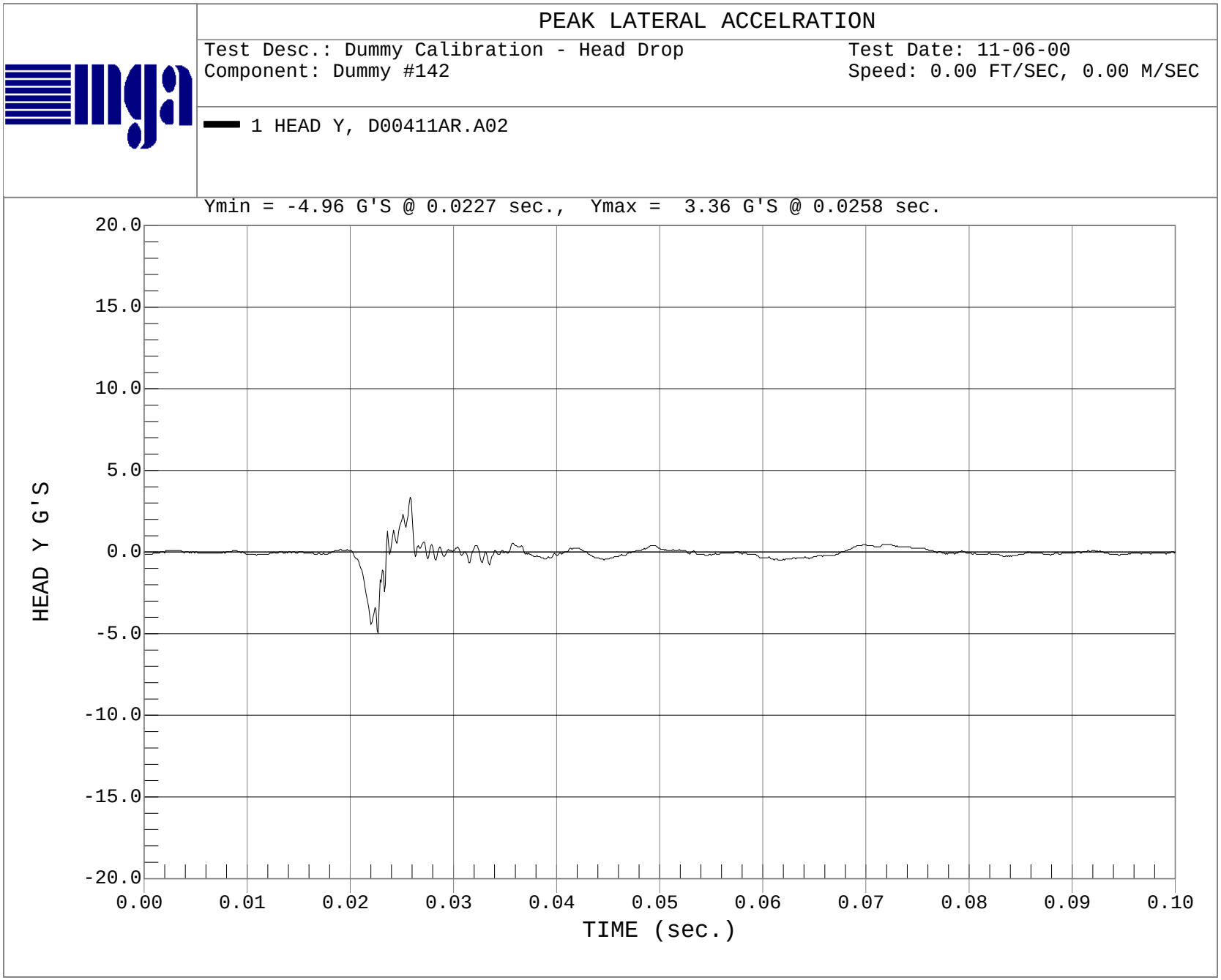
11/6/00

Laboratory Technician

Test Date

Approved By


PEAK RESULTANT ACCELERATION
Test Desc.: Dummy Calibration - Head Drop
Test Date: 11-06-00
Component: Dummy #142
Speed: 0.00 FT/SEC, 0.00 M/SEC
1 HEAD RESULTANT ACCELERATION, D00411AV.A01
Ymin = .02 G'S @ 0.0016 sec., Ymax = 246.82 G'S @ 0.0225 sec.
HEAD RESULTANT ACCELERATION G'S
300.0
250.0
200.0
150.0
100.0
50.0
0.0
-50.0
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10
TIME (sec.)


PEAK LATERAL ACCELRATION
Test Desc.: Dummy Calibration - Head Drop
Test Date: 11-06-00
Component: Dummy #142
Speed: 0.00 FT/SEC, 0.00 M/SEC
1 HEAD Y, D00411AR.A02
Ymin = -4.96 G'S @ 0.0227 sec., Ymax = 3.36 G'S @ 0.0258 sec.
HEAD Y G'S
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10
TIME (sec.)

Hybrid III Calibration Data Sheet

50th Percentile Male

Thorax Impact Test

ATD Serial No.: 142 Test I.D.: D001414

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.1°	PASS
Laboratory Relative Humidity	%	10 to 70	18%	PASS
Probe Velocity	m/s	6.58 to 6.82	6.72	PASS
Peak Probe Force	Newtons	5159 to 5893	5786	PASS
Peak Sternum Displacement	cm	6.35 to 7.26	6.68	PASS
Internal Hysteresis	%	69 to 85	76%	PASS
		Overall Test Results		PASS

12/27/00

Laboratory Technician

Test Date

Approved By

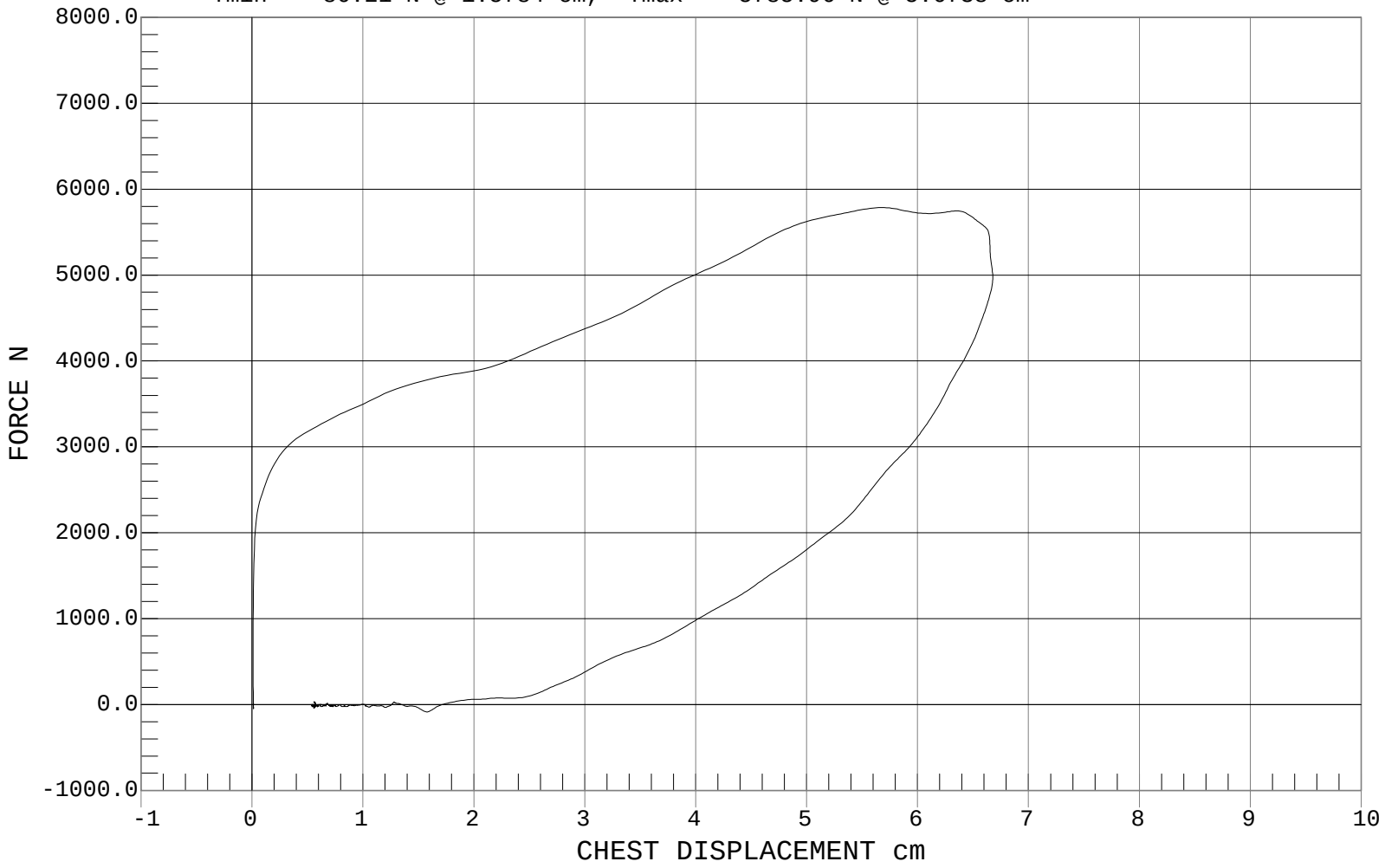
THORAX IMPACT

Test Desc.: Dummy Calibration - Chest Impact
Component: Dummy #142

Test Date: 12-27-00
Speed: 22.06 FT/SEC, 6.72 M/SEC

1 FORCE, D00414CH.FVD

Ymin = -86.21 N @ 1.5784 cm, Ymax = 5785.96 N @ 5.6738 cm



Hybrid III Calibration Data Sheet

50th Percentile Male

Neck Flexion Test

ATD Serial No.: 142 Test I.D.: D001412

Tested Parameter		Units	Specification	Result	Pass/Fail
Laboratory Temperature		°C	20.6 to 22.2	21.1°	PASS
Laboratory Relative Humidity		%	10 to 70	39%	PASS
Pendulum Velocity		m/s	6.89 to 7.13	7.04	PASS
Pendulum Deceleration	10 Msec.	G's	22.50 to 27.50	23.69	PASS
	20 Msec.	G's	17.60 to 22.60	20.49	PASS
	30 Msec.	G's	12.50 to 18.50	16.78	PASS
Peak Pendulum Decel. After 30 Msec.		G's	≤29.0	16.8	PASS
Deceleration Decay, Time to Cross 5 G's		Msec.	34.0 to 42.0	35.4	PASS
Maximum "D" Plane Rotation	Maximum	Degrees	64.0 to 78.0	72.6	PASS
	Time	Msec.	57.0 to 64.0	57.9	PASS
"D" Plane Rotation Decay, Time To Zero Crossing		Msec.	113.0 to 128.0	114.5	PASS
Moment About Occipital Condyle	Maximum	Nm	84.1 to 108.5	96.1	PASS
	Time	Msec.	47.0 to 58.0	50.9	PASS
Positive Moment Decay, Time To Zero Crossing		Msec.	97.0 to 107.0	97.3	PASS
			Overall Test Results		PASS

Laboratory Technician

11/7/00
Test Date

Approved By

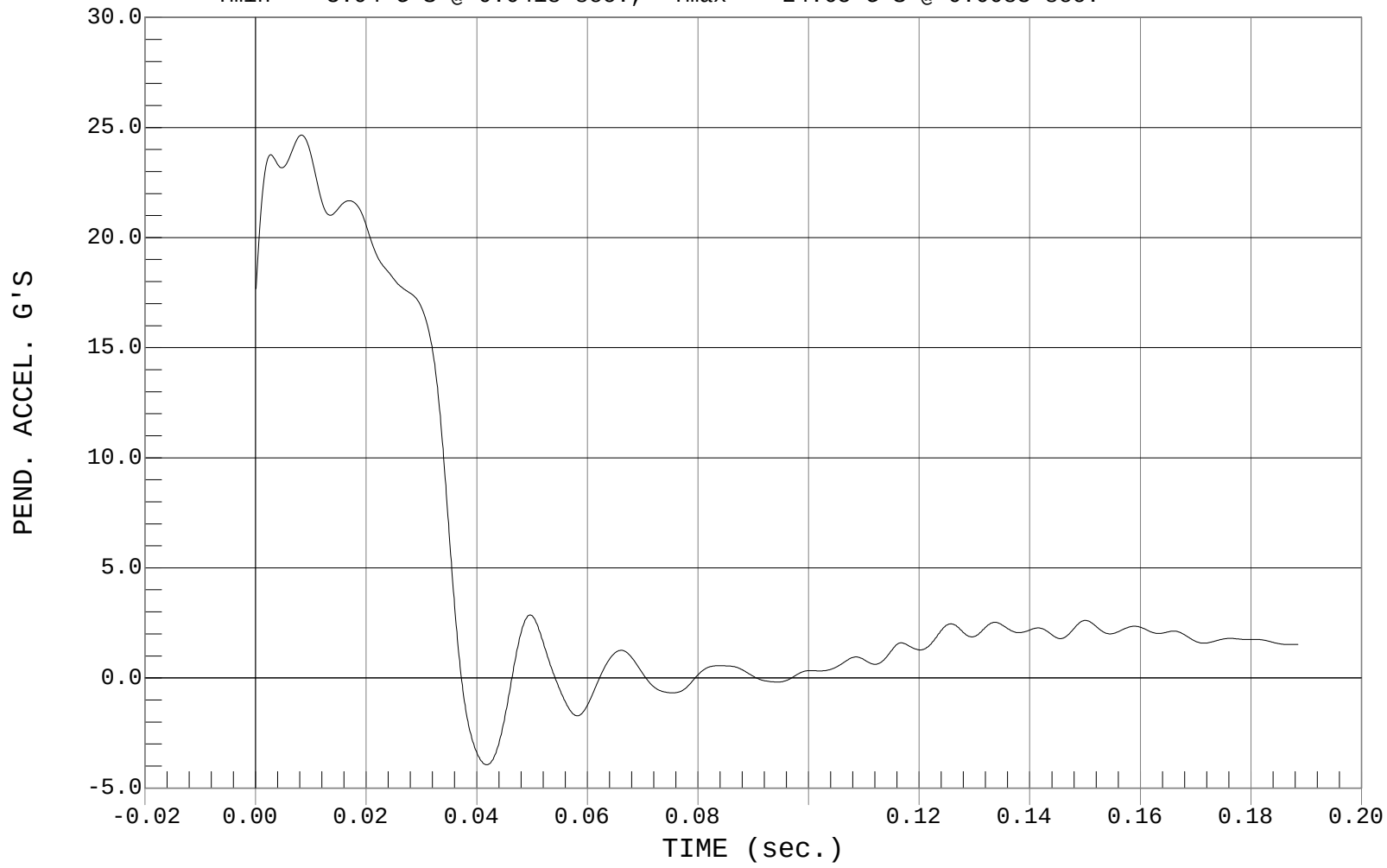
PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Neck Flexion
Component: Dummy #142

Test Date: 11-07-00
Speed: 23.09 FT/SEC, 7.04 M/SEC

1 PEND. ACCEL., D00412AF.A04

Ymin = -3.94 G'S @ 0.0418 sec., Ymax = 24.65 G'S @ 0.0083 sec.



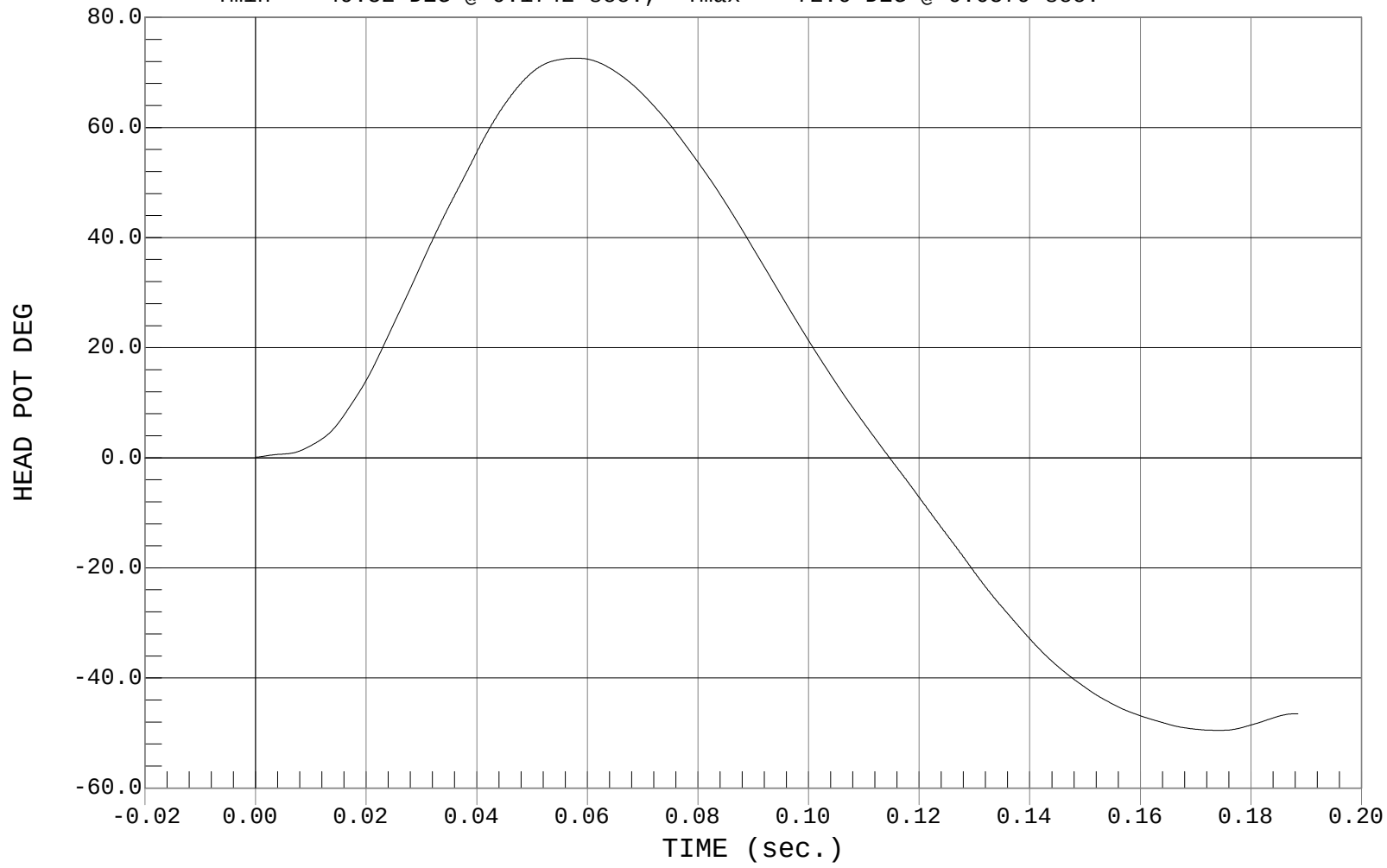
NECK ROTATION

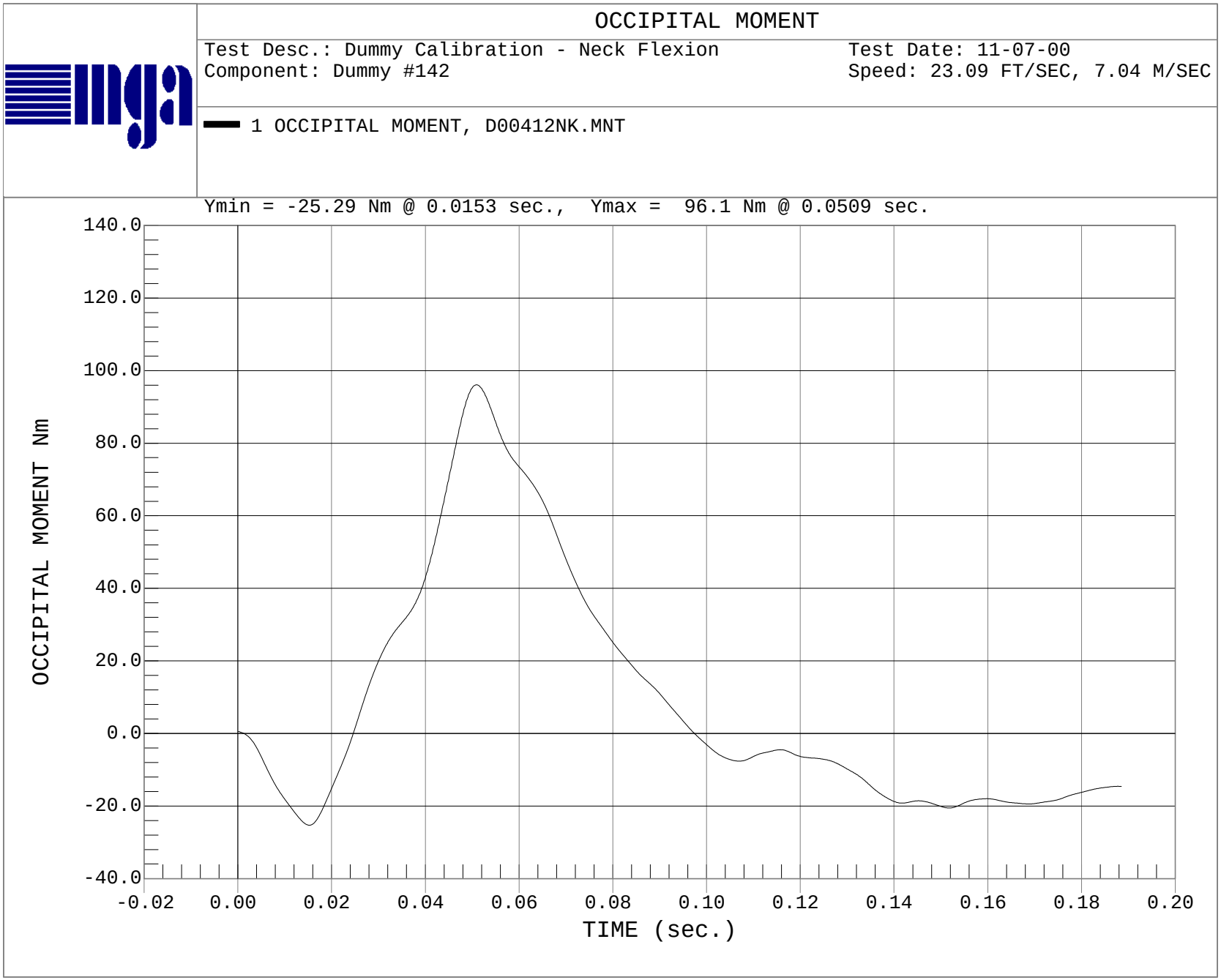
Test Desc.: Dummy Calibration - Neck Flexion
Component: Dummy #142

Test Date: 11-07-00
Speed: 23.09 FT/SEC, 7.04 M/SEC

1 HEAD POT, D00412DU.D05

Ymin = -49.52 DEG @ 0.1742 sec., Ymax = 72.6 DEG @ 0.0579 sec.




OCCIPITAL MOMENT
Test Desc.: Dummy Calibration - Neck Flexion
Test Date: 11-07-00
Component: Dummy #142
Speed: 23.09 FT/SEC, 7.04 M/SEC
1 OCCIPITAL MOMENT, D00412NK.MNT
Ymin = -25.29 Nm @ 0.0153 sec., Ymax = 96.1 Nm @ 0.0509 sec.
OCCIPITAL MOMENT Nm
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
-20.0
-40.0
-0.02
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
0.16
0.18
0.20
TIME (sec.)

Hybrid III Calibration Data Sheet

50th Percentile Male

Neck Extension Test

ATD Serial No.: 142 Test I.D.: D001413

Tested Parameter		Units	Specification	Result	Pass/Fail
Laboratory Temperature		°C	20.6 to 22.2	21.1°	PASS
Laboratory Relative Humidity		%	10 to 70	39%	PASS
Pendulum Velocity		m/s	5.95 to 6.19	6.11	PASS
Pendulum Deceleration	10 Msec.	G's	17.20 to 21.20	19.07	PASS
	20 Msec.	G's	14.00 to 19.00	17.30	PASS
	30 Msec.	G's	11.00 to 16.00	15.85	PASS
Peak Pendulum Decel. After 30 Msec.		G's	≤22.0	15.9	PASS
Deceleration Decay, Time to Cross 5 G's		Msec.	38.0 to 46.0	39.7	PASS
Maximum "D" Plane Rotation	Maximum	Degrees	81.0 to 106.0	96.3	PASS
	Time	Msec.	72.0 to 82.0	76.1	PASS
"D" Plane Rotation Decay, Time To Zero Crossing		Msec.	147.0 to 174.0	152.8	PASS
Moment About Occipital Condyle	Minimum	Nm	-52.9 to –79.9	-70.6	PASS
	Time	Msec.	65.0 to 79.0	71.5	PASS
Negative Moment Decay, Time To Zero Crossing		Msec.	120.0 to 148.0	140.2	PASS
			Overall Test Results		PASS

Laboratory Technician

11/7/00
Test Date

Approved By

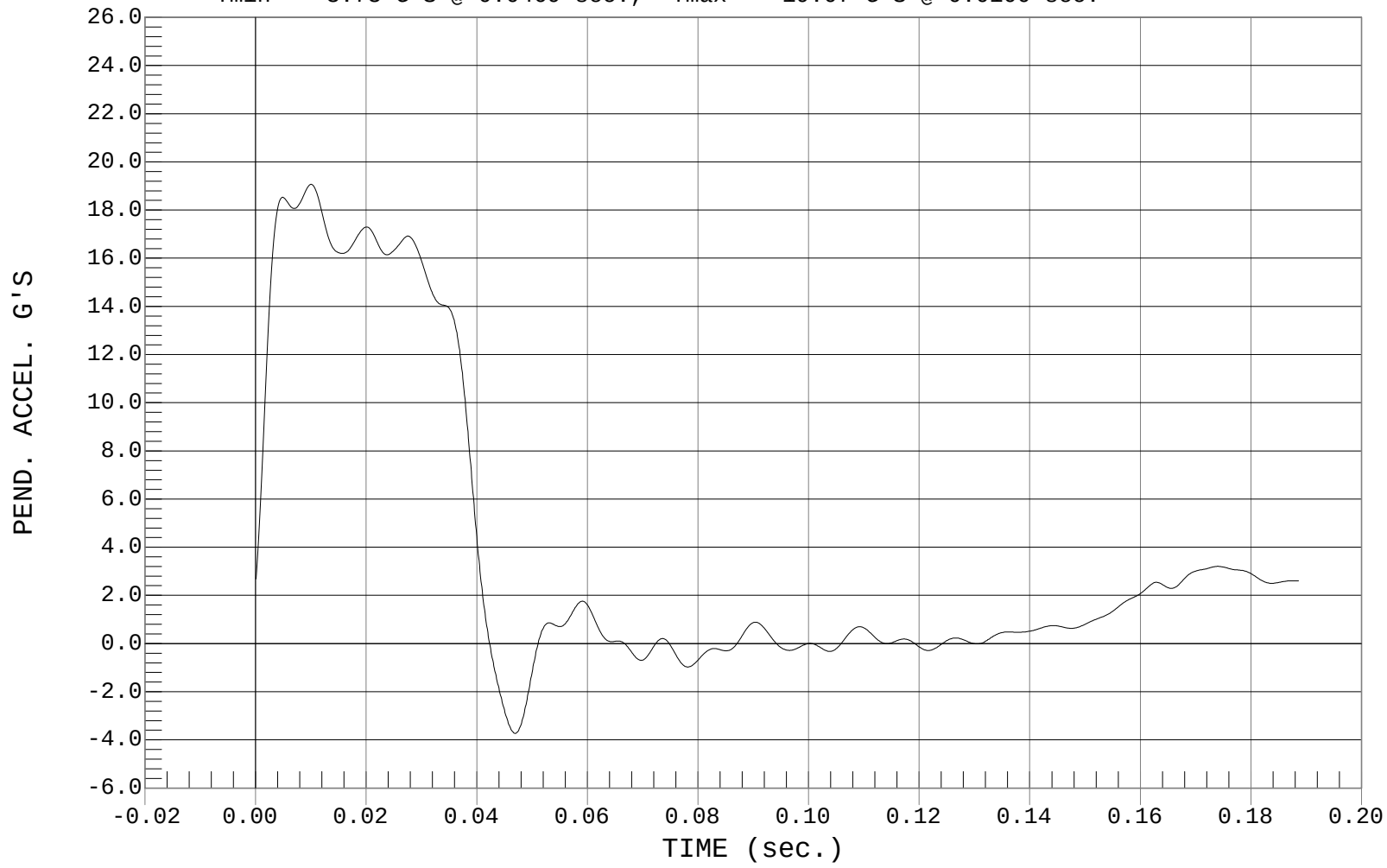
PENDULUM DECELERATION

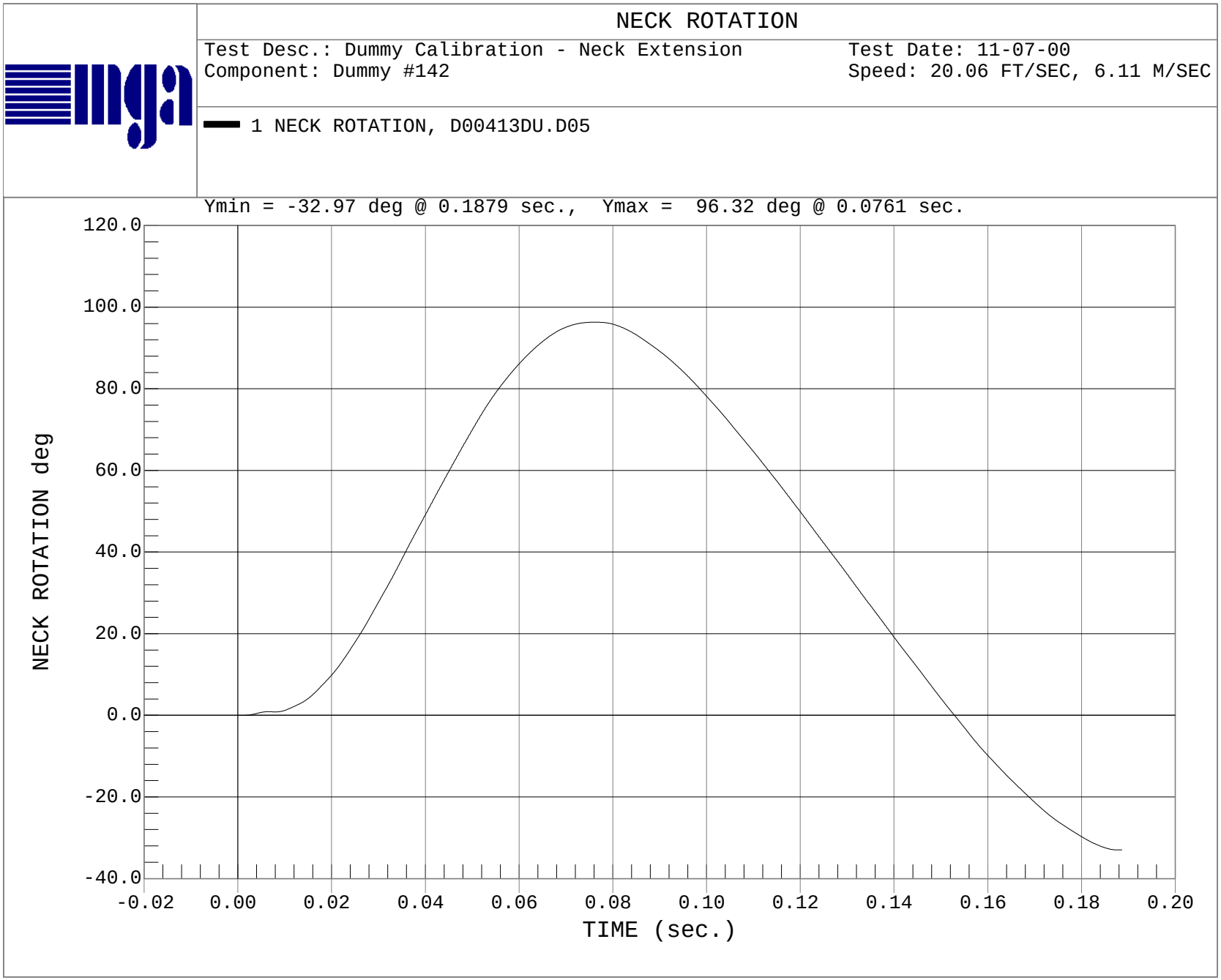
Test Desc.: Dummy Calibration - Neck Extension
Component: Dummy #142

Test Date: 11-07-00
Speed: 20.06 FT/SEC, 6.11 M/SEC

1 PEND. ACCEL., D00413AF.A04

Ymin = -3.73 G'S @ 0.0469 sec., Ymax = 19.07 G'S @ 0.0100 sec.




NECK ROTATION
Test Desc.: Dummy Calibration - Neck Extension
Test Date: 11-07-00
Component: Dummy #142
Speed: 20.06 FT/SEC, 6.11 M/SEC
1 NECK ROTATION, D00413DU.D05
Ymin = -32.97 deg @ 0.1879 sec., Ymax = 96.32 deg @ 0.0761 sec.
NECK ROTATION deg
120.0
100.0
80.0
60.0
40.0
20.0
0.0
-20.0
-40.0
-0.02
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
0.16
0.18
0.20
TIME (sec.)

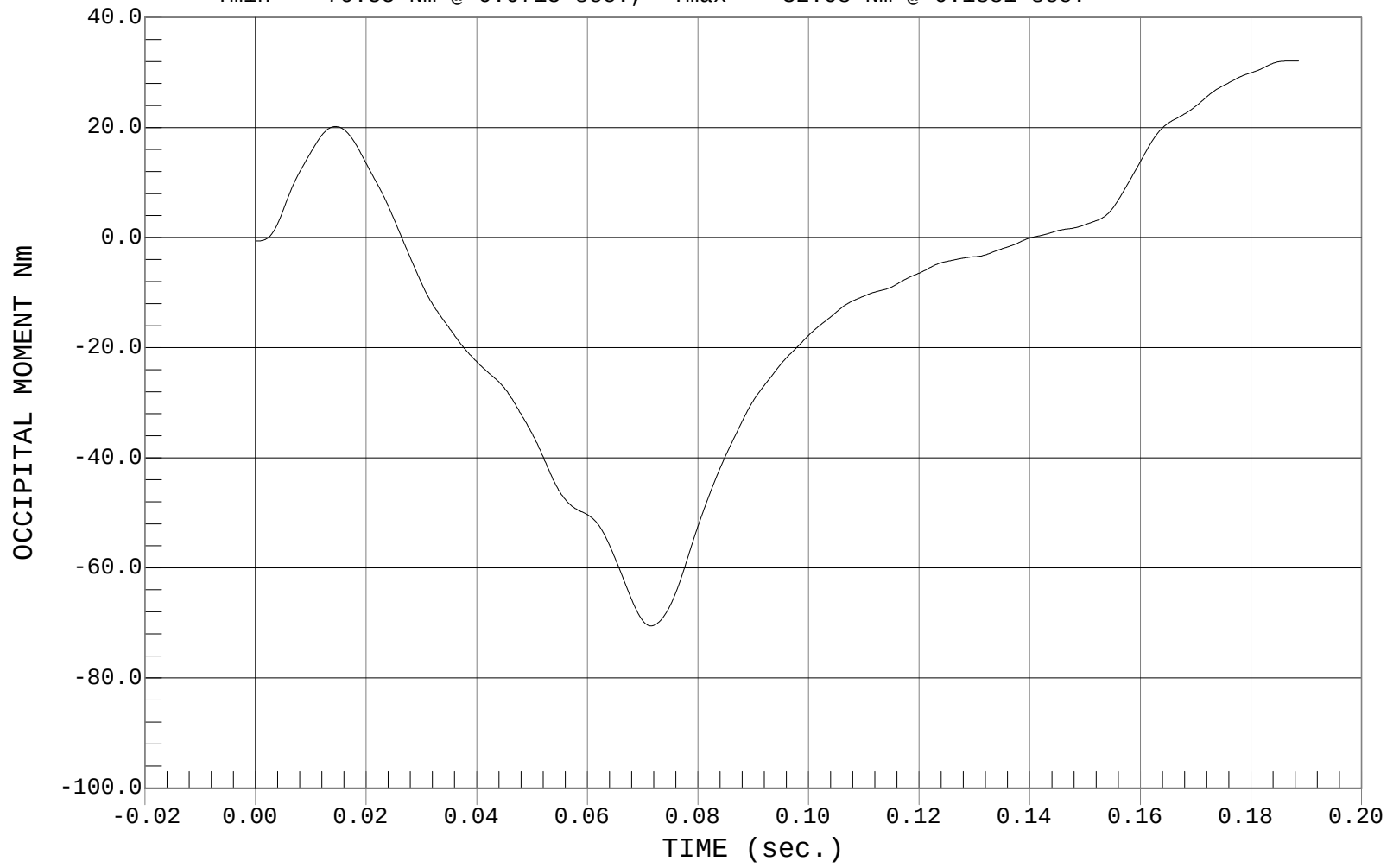
OCCIPITAL MOMENT

Test Desc.: Dummy Calibration - Neck Extension
Component: Dummy #142

Test Date: 11-07-00
Speed: 20.06 FT/SEC, 6.11 M/SEC

1 OCCIPITAL MOMENT, D00413NK.MNT

Ymin = -70.55 Nm @ 0.0715 sec., Ymax = 32.08 Nm @ 0.1881 sec.



Hybrid III Calibration Data Sheet

50th Percentile Male

Hip-Femur Flexion Test

ATD Serial No.: 142 Test I.D.: D001419/0

Tested Parameter	Units	Specification	Result		Pass/Fail
			Right	Left	
Temperature	°C	18.9 to 25.6	21.1°	21.1°	PASS
Relative Humidity	%	10 to 70	36%	35%	PASS
Rotation Rate	deg/sec	5 – 10	Yes	Yes	PASS
30 Degrees	Nm	94.9 Nm Max.	67.8	63.7	PASS
150 ft-lbf / 203.4 Nm	Deg	40 – 50 Degree Max. rotation	46°	46°	PASS
		Overall Test Results			PASS

11/9/00

Laboratory Technician

Test Date

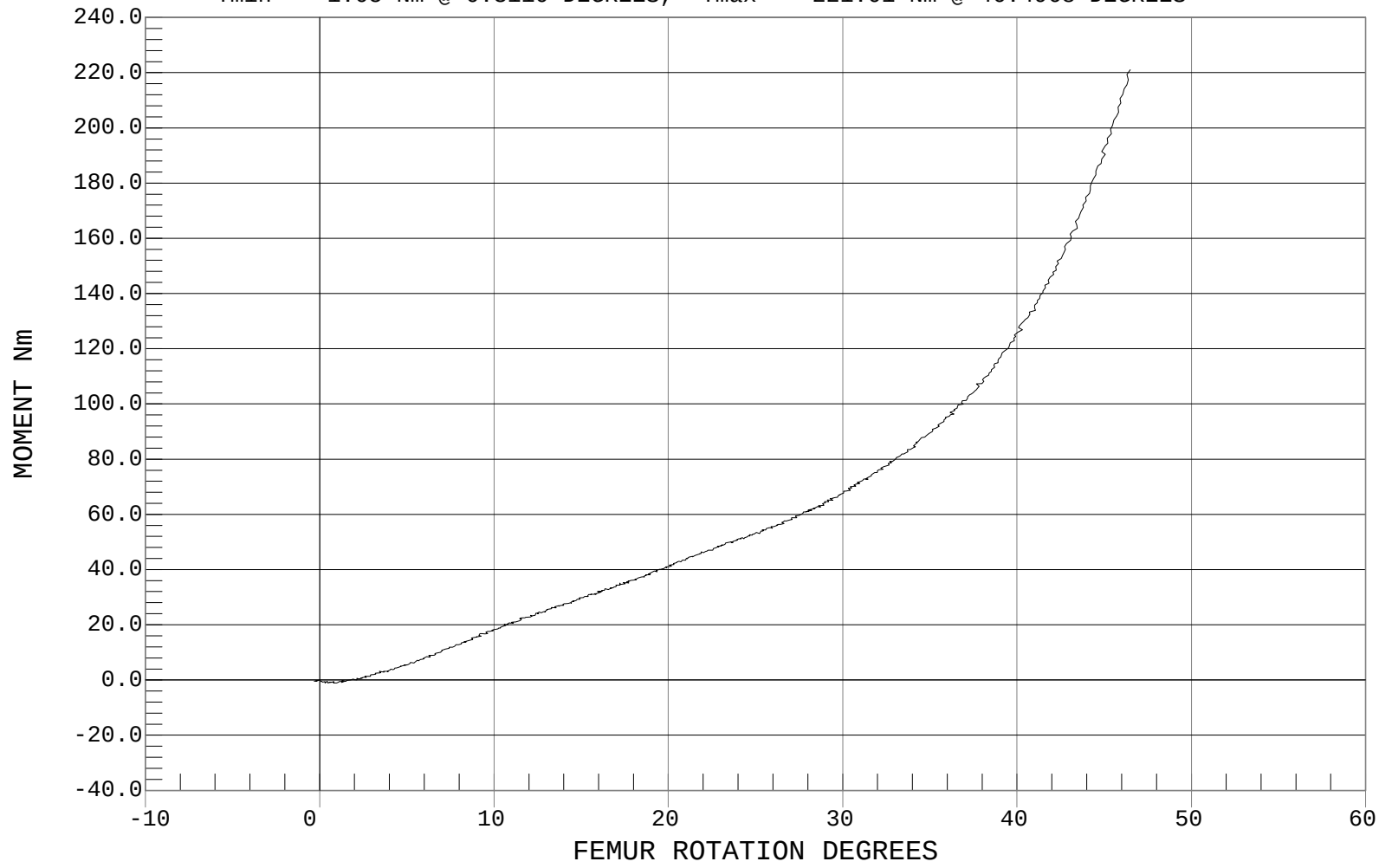
Approved By

HIP-FEMUR FLEXION

Test Desc.: DUMMY CALIBRATION - HIP-FEMUR FLEXION
Test Date: 11-09-00
Component: DUMMY # 142 RIGHT FEMUR
Speed: 0.00 FT/SEC, 0.00 M/SEC

1 MOMENT, D00419FC.F14

Ymin = -1.05 Nm @ 0.3110 DEGREES, Ymax = 221.01 Nm @ 46.4968 DEGREES



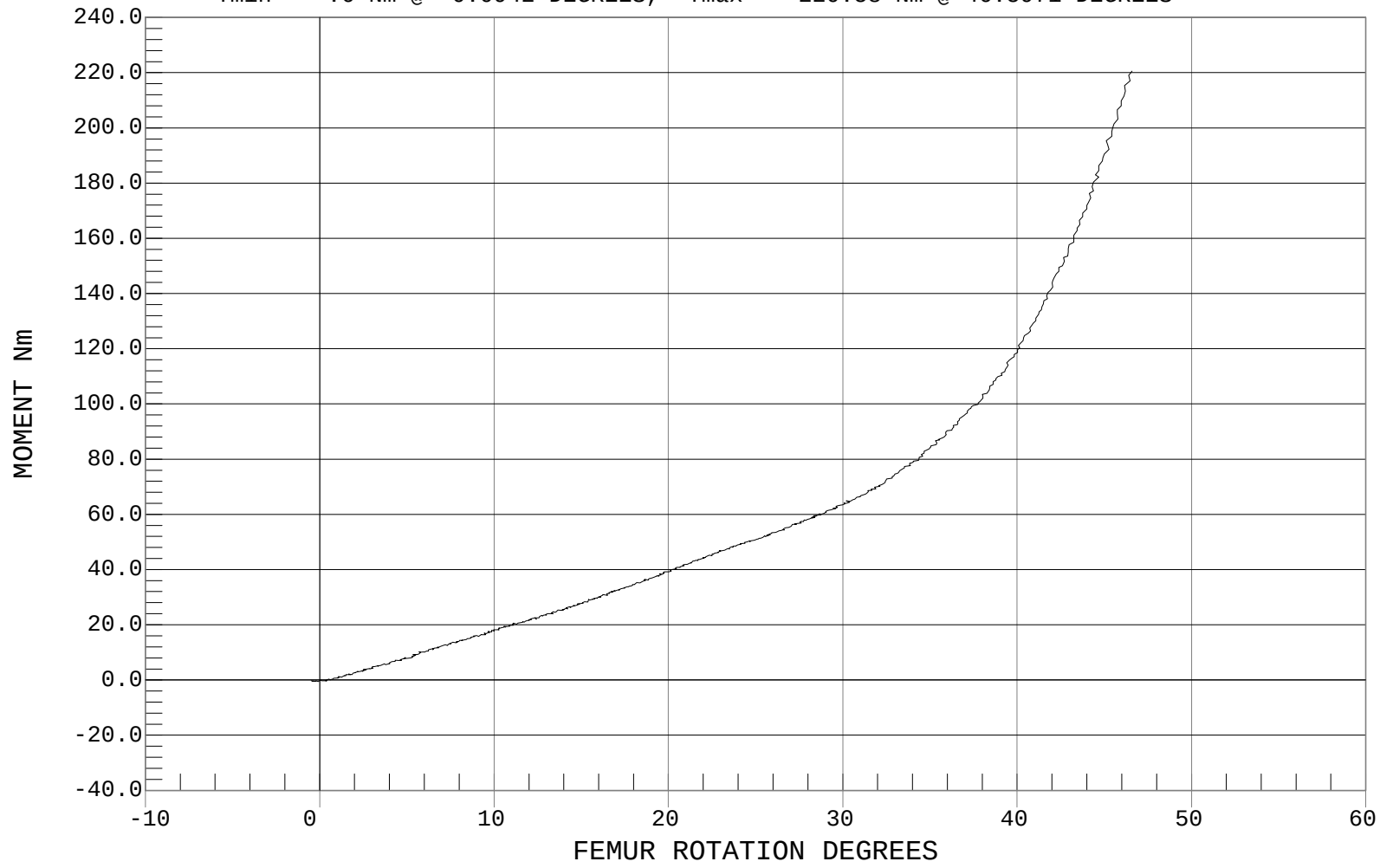
HIP-FEMUR FLEXION

Test Desc.: DUMMY CALIBRATION - HIP-FEMUR FLEXION
Component: DUMMY # 142 LEFT FEMUR

Test Date: 11-09-00
Speed: 0.00 FT/SEC, 0.00 M/SEC

1 MOMENT, D00410FC.F14

Ymin = -.6 Nm @ -0.0942 DEGREES, Ymax = 220.58 Nm @ 46.5971 DEGREES



Hybrid III Calibration Data Sheet

50th Percentile Male

External Measurements

ATD Serial No.: 142 Test I.D.: D00141

External Measurement Data				
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.4 to 22.1	21.1°	PASS
Laboratory Relative Humidity	%	10 to 70	18%	PASS
A – Total sitting height	mm	879 to 889	884	PASS
B – Shoulder pivot height	mm	506 to 521	514	PASS
C – "H" point height	mm	84 to 89	86	PASS
D – "H" point from seat back	mm	135 to 140	138	PASS
E – Shoulder pivot from back	mm	84 to 94	88	PASS
F – Thigh clearance	mm	140 to 155	144	PASS
G – Elbow back to wrist pivot	mm	290 to 305	296	PASS
H – Skull cap to back line	mm	41 to 46	44	PASS
I – Shoulder to elbow length	mm	330 to 345	339	PASS
J – Elbow rest height	mm	191 to 211	198	PASS
K – Buttock to knee length	mm	579 to 605	585	PASS
L – Poplipteal length	mm	429 to 455	444	PASS
M – Knee pivot height	mm	485 to 500	492	PASS
N – Buttock poplipteal length	mm	452 to 478	462	PASS
O – Chest depth	mm	213 to 229	219	PASS
P – Foot length	mm	252 to 267	261	PASS
V – Shoulder breadth	mm	422 to 437	432	PASS
W – Foot breadth	mm	91 to 107	102	PASS
Y – Chest circumference	mm	970 to 1001	990	PASS
Z – Waist circumference	mm	836 to 866	852	PASS
AA – Location for chest circumference	mm	429 to 434	432	PASS
BB – Location for waist circumference	mm	226 to 231	229	PASS
		Overall Test Results		PASS

12/27/00

Laboratory Technician

Test Date

Approved By

Hybrid III Calibration Data Sheet

50th Percentile Male

Left Knee Impact Test

ATD Serial No.: 192 Test I.D.: D001426

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1°	PASS
Laboratory Relative Humidity	%	10 to 70	45%	PASS
Probe Velocity	m/s	2.07 to 2.13	2.09	PASS
Peak Probe Force	Newtons	4715 to 5782	4819	PASS
		Overall Test Results		PASS

11/7/00

Laboratory Technician

Test Date

Approved By

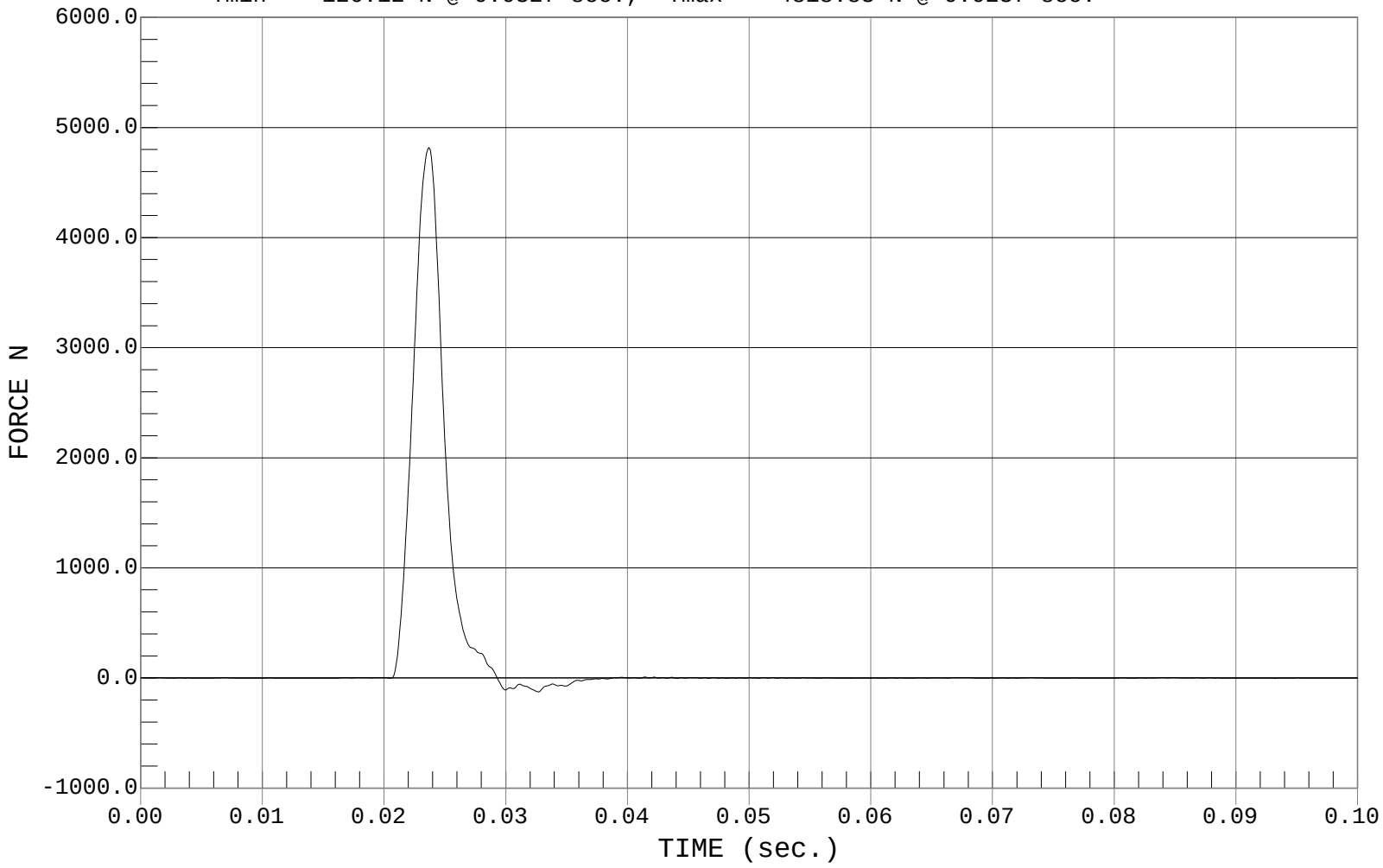
LEFT KNEE IMPACT

Test Desc.: Dummy Calibration - Left Knee Impact
Component: Dummy #192

Test Date: 11-07-00
Speed: 6.84 FT/SEC, 2.09 M/SEC

1 FORCE, D00426FF.F09

Ymin = -126.12 N @ 0.0327 sec., Ymax = 4818.83 N @ 0.0237 sec.



Hybrid III Calibration Data Sheet

50th Percentile Male

Right Knee Impact Test

ATD Serial No.: 192 Test I.D.: D001425

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1°	PASS
Laboratory Relative Humidity	%	10 to 70	45%	PASS
Probe Velocity	m/s	2.07 to 2.13	2.10	PASS
Peak Probe Force	Newtons	4715 to 5782	4730	PASS
		Overall Test Results		PASS

Laboratory Technician

11/7/00
Test Date

Approved By

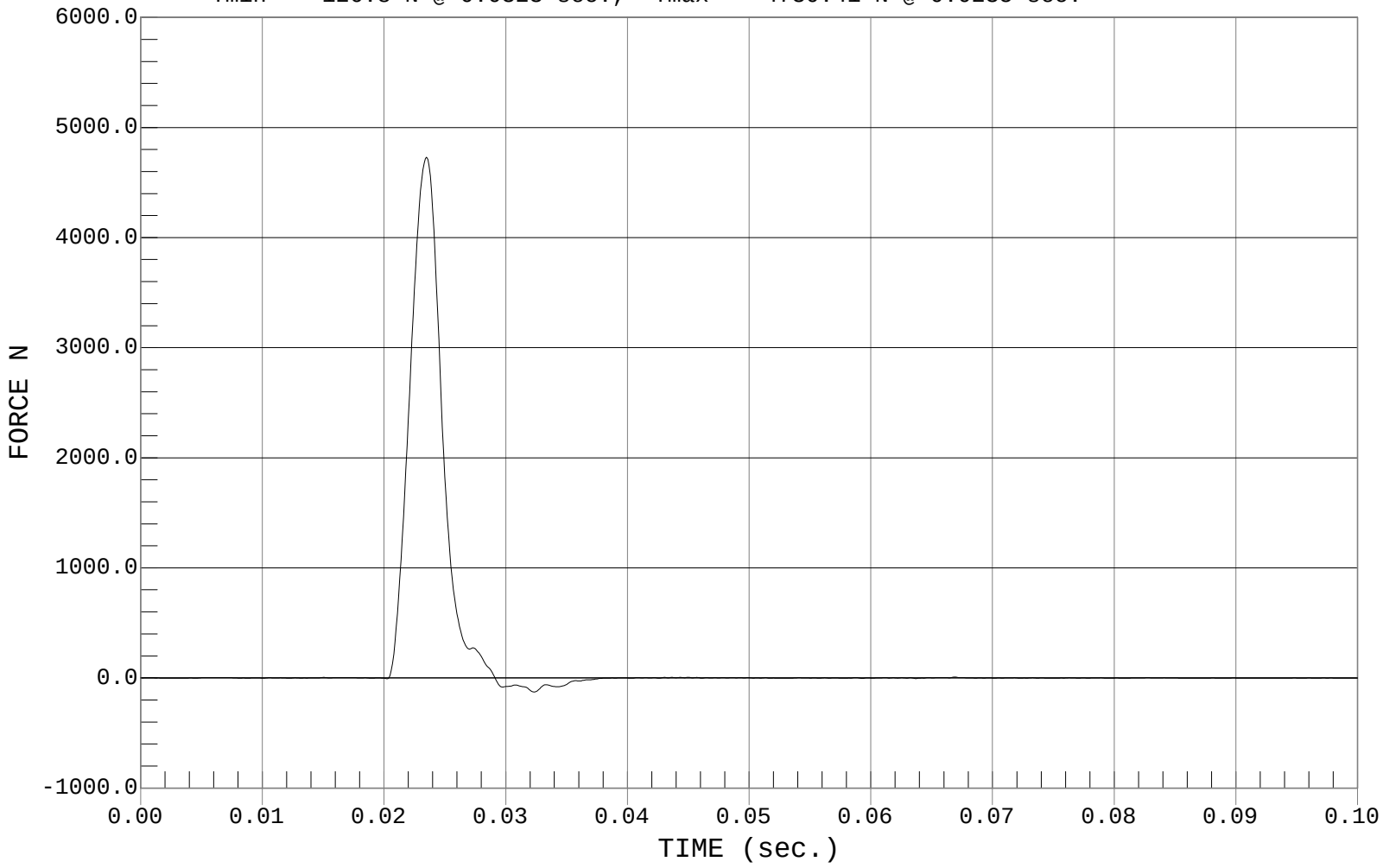
RIGHT KNEE IMPACT

Test Desc.: Dummy Calibration - Right Knee Impact
Component: Dummy #192

Test Date: 11-07-00
Speed: 6.88 FT/SEC, 2.10 M/SEC

1 FORCE, D00425FF.F09

Ymin = -126.8 N @ 0.0323 sec., Ymax = 4730.41 N @ 0.0235 sec.



Hybrid III Calibration Data Sheet

50th Percentile Male

Head Drop Calibration

ATD Serial No.: 192 Test I.D.: D001421

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1°	PASS
Laboratory Relative Humidity	%	10 to 70	33%	PASS
Peak Resultant Acceleration	G's	225.0 to 275.0	255.5	PASS
Peak Probe Force	G's	≤ ± 15.0	-6.1	PASS
Is Acceleration Unimodal?	Yes/No	Yes	Yes	PASS
		Overall Test Results		PASS

11/6/00

Laboratory Technician

Test Date

Approved By

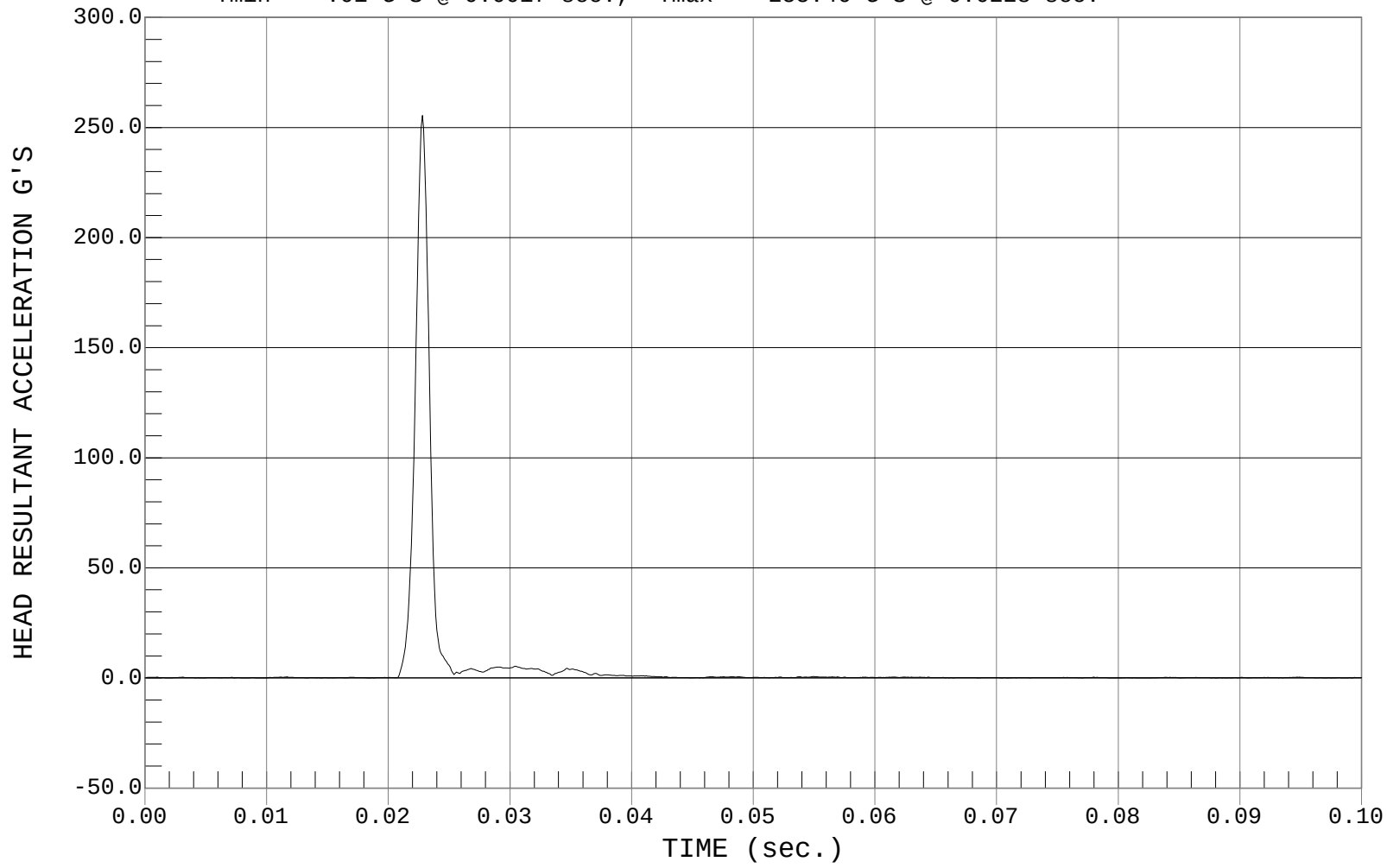
PEAK RESULTANT ACCELERATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #192

Test Date: 11-06-00
Speed: 0.00 FT/SEC, 0.00 M/SEC

1 HEAD RESULTANT ACCELERATION, D00421AV.A01

Ymin = .01 G'S @ 0.0017 sec., Ymax = 255.46 G'S @ 0.0228 sec.



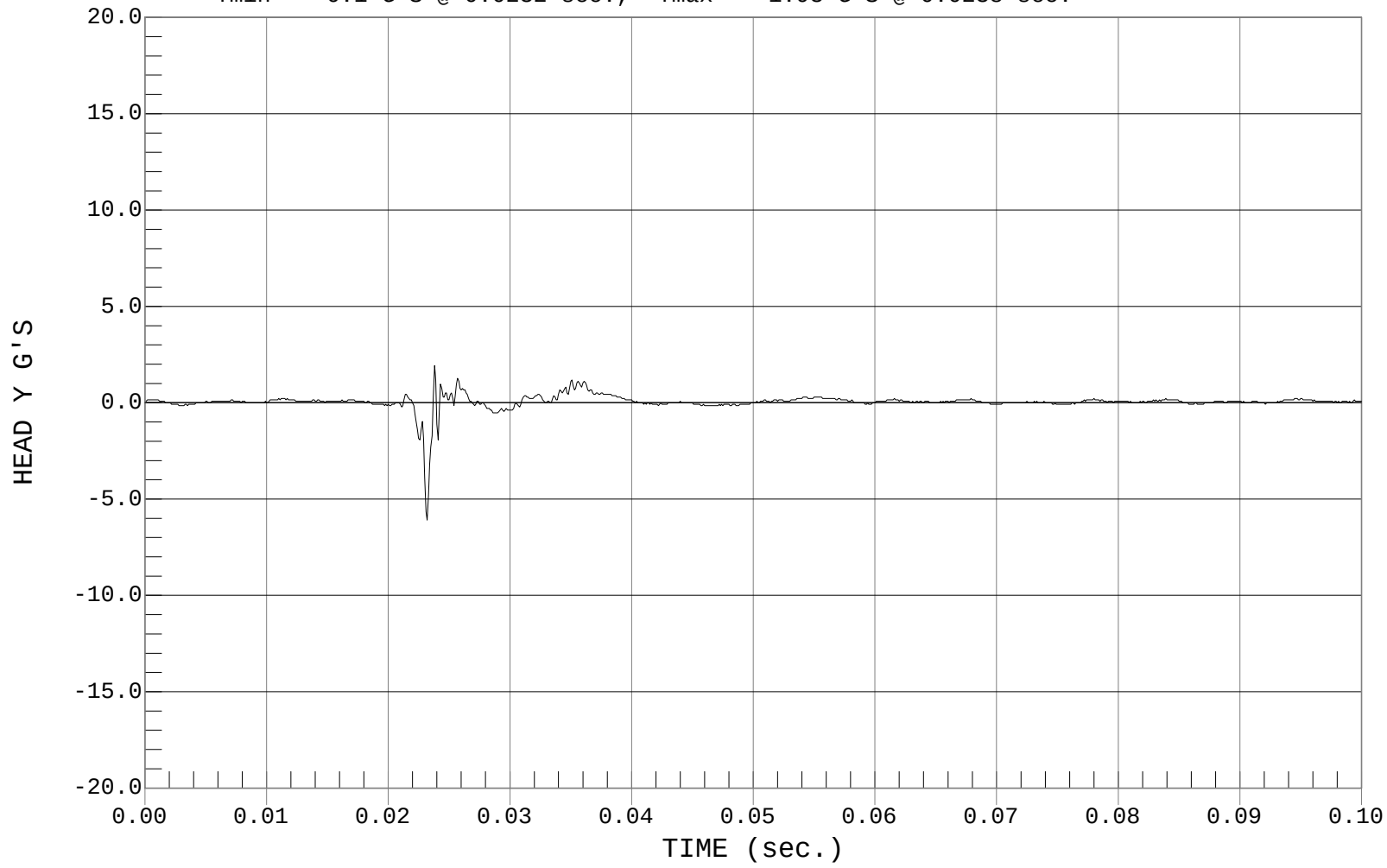
PEAK LATERAL ACCELRATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #192

Test Date: 11-06-00
Speed: 0.00 FT/SEC, 0.00 M/SEC

1 HEAD Y, D00421AR.A02

Ymin = -6.1 G'S @ 0.0232 sec., Ymax = 1.93 G'S @ 0.0238 sec.



Hybrid III Calibration Data Sheet

50th Percentile Male

Thorax Impact Test

ATD Serial No.: 192 Test I.D.: D001424

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.8°	PASS
Laboratory Relative Humidity	%	10 to 70	18%	PASS
Probe Velocity	m/s	6.58 to 6.82	6.74	PASS
Peak Probe Force	Newtons	5159 to 5893	5852	PASS
Peak Sternum Displacement	cm	6.35 to 7.26	6.47	PASS
Internal Hysteresis	%	69 to 85	75%	PASS
		Overall Test Results		PASS

12/27/00

Laboratory Technician

Test Date

Approved By

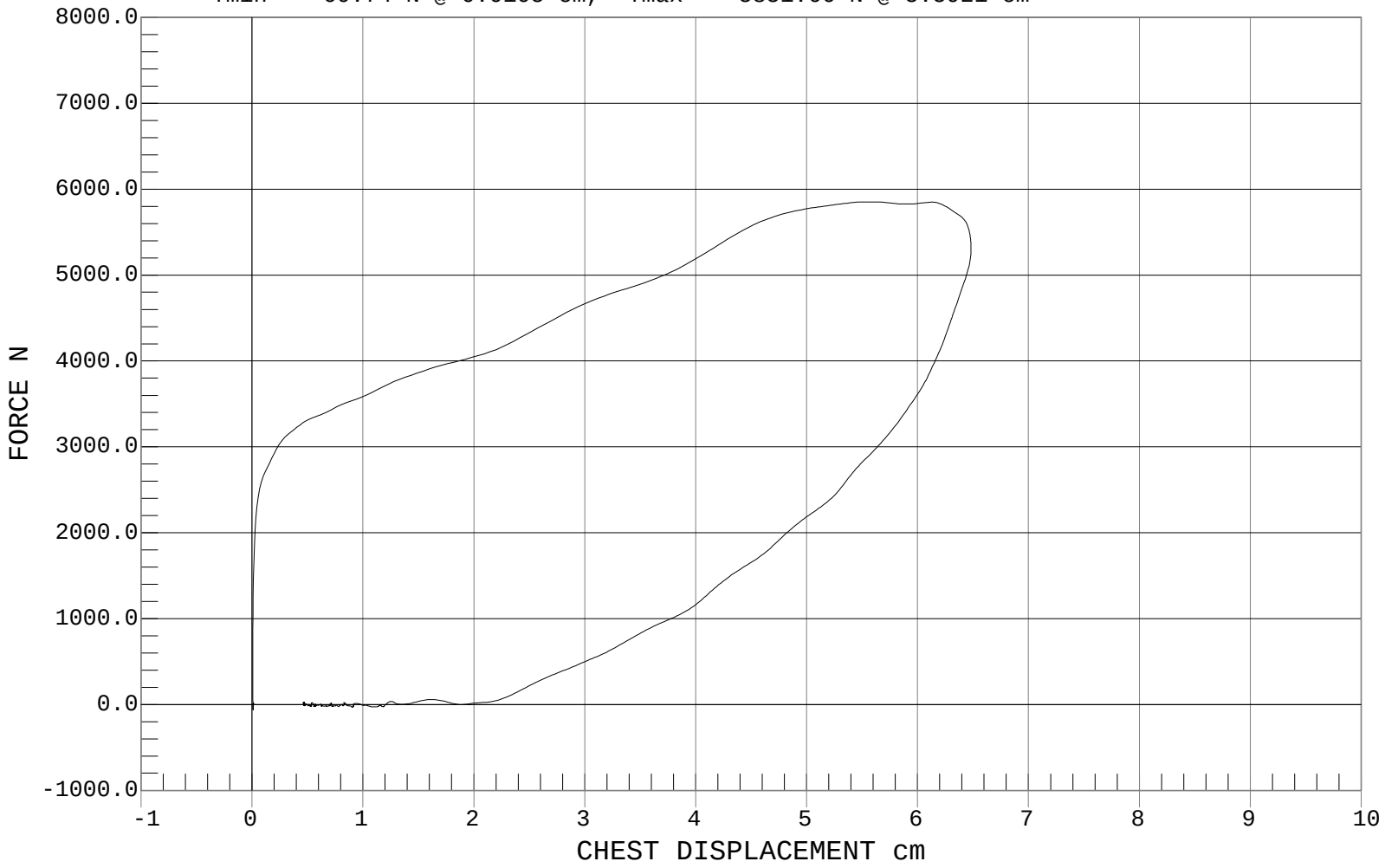
THORAX IMPACT

Test Desc.: Dummy Calibration - Chest Impact
Component: Dummy #192

Test Date: 12-27-00
Speed: 22.12 FT/SEC, 6.74 M/SEC

1 FORCE, D00424CH.FVD

Ymin = -60.74 N @ 0.0105 cm, Ymax = 5851.66 N @ 5.5921 cm



Hybrid III Calibration Data Sheet

50th Percentile Male

Neck Flexion Test

ATD Serial No.: 192 Test I.D.: D001422

Tested Parameter		Units	Specification	Result	Pass/Fail
Laboratory Temperature		°C	20.6 to 22.2	21.1°	PASS
Laboratory Relative Humidity		%	10 to 70	38%	PASS
Pendulum Velocity		m/s	6.89 to 7.13	7.01	PASS
Pendulum Deceleration	10 Msec.	G's	22.50 to 27.50	22.98	PASS
	20 Msec.	G's	17.60 to 22.60	20.22	PASS
	30 Msec.	G's	12.50 to 18.50	15.86	PASS
Peak Pendulum Decel. After 30 Msec.		G's	≤29.0	15.9	PASS
Deceleration Decay, Time to Cross 5 G's		Msec.	34.0 to 42.0	37.6	PASS
Maximum "D" Plane Rotation	Maximum	Degrees	64.0 to 78.0	71.9	PASS
	Time	Msec.	57.0 to 64.0	57.2	PASS
"D" Plane Rotation Decay, Time To Zero Crossing		Msec.	113.0 to 128.0	114.0	PASS
Moment About Occipital Condyle	Maximum	Nm	84.1 to 108.5	102.4	PASS
	Time	Msec.	47.0 to 58.0	51.6	PASS
Positive Moment Decay, Time To Zero Crossing		Msec.	97.0 to 107.0	97.5	PASS
			Overall Test Results		PASS

Laboratory Technician

11/7/00
Test Date

Approved By

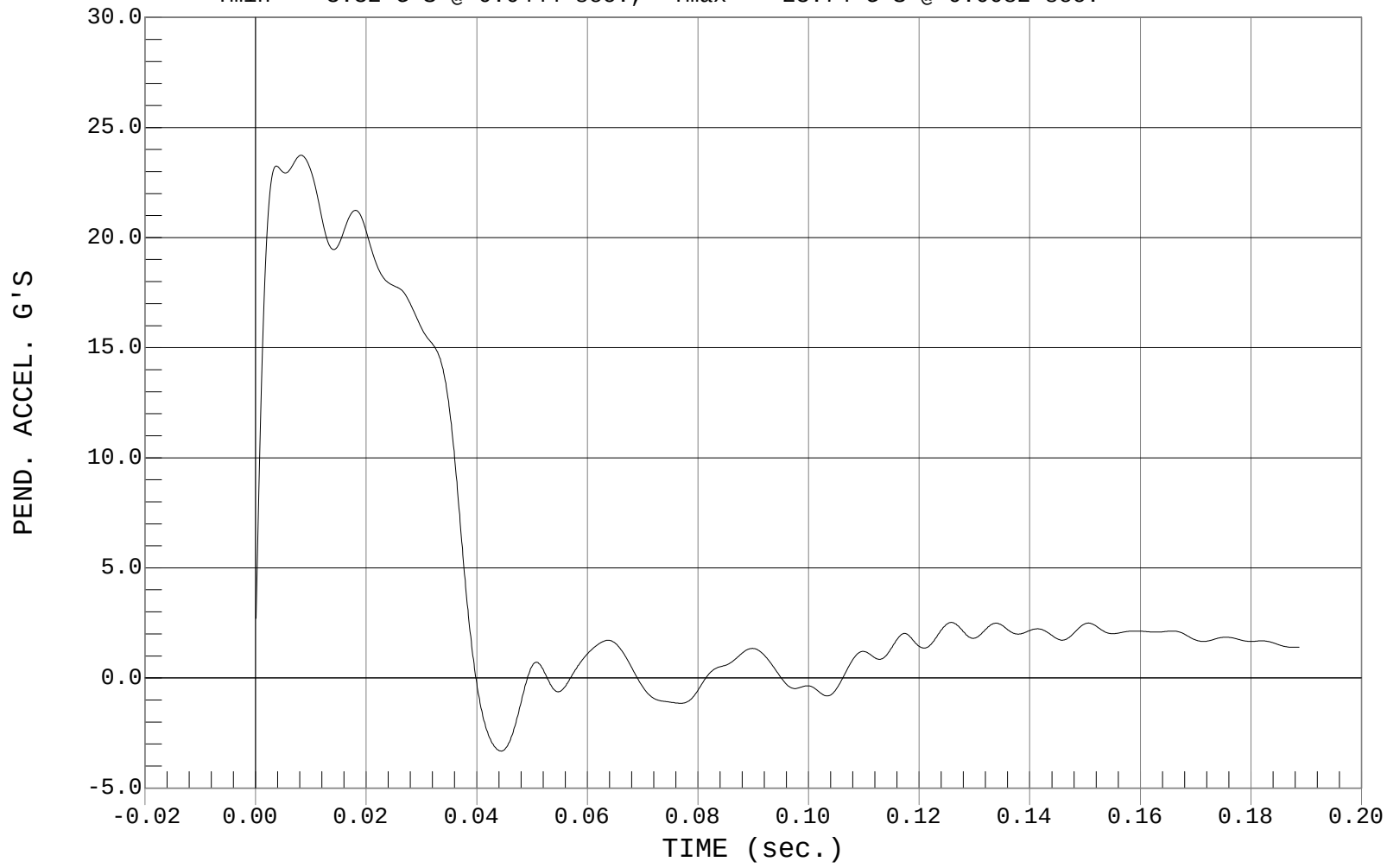
PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Neck Flexion
Component: Dummy #192

Test Date: 11-07-00
Speed: 22.99 FT/SEC, 7.01 M/SEC

1 PEND. ACCEL., D00422AF.A04

Ymin = -3.32 G'S @ 0.0444 sec., Ymax = 23.74 G'S @ 0.0082 sec.



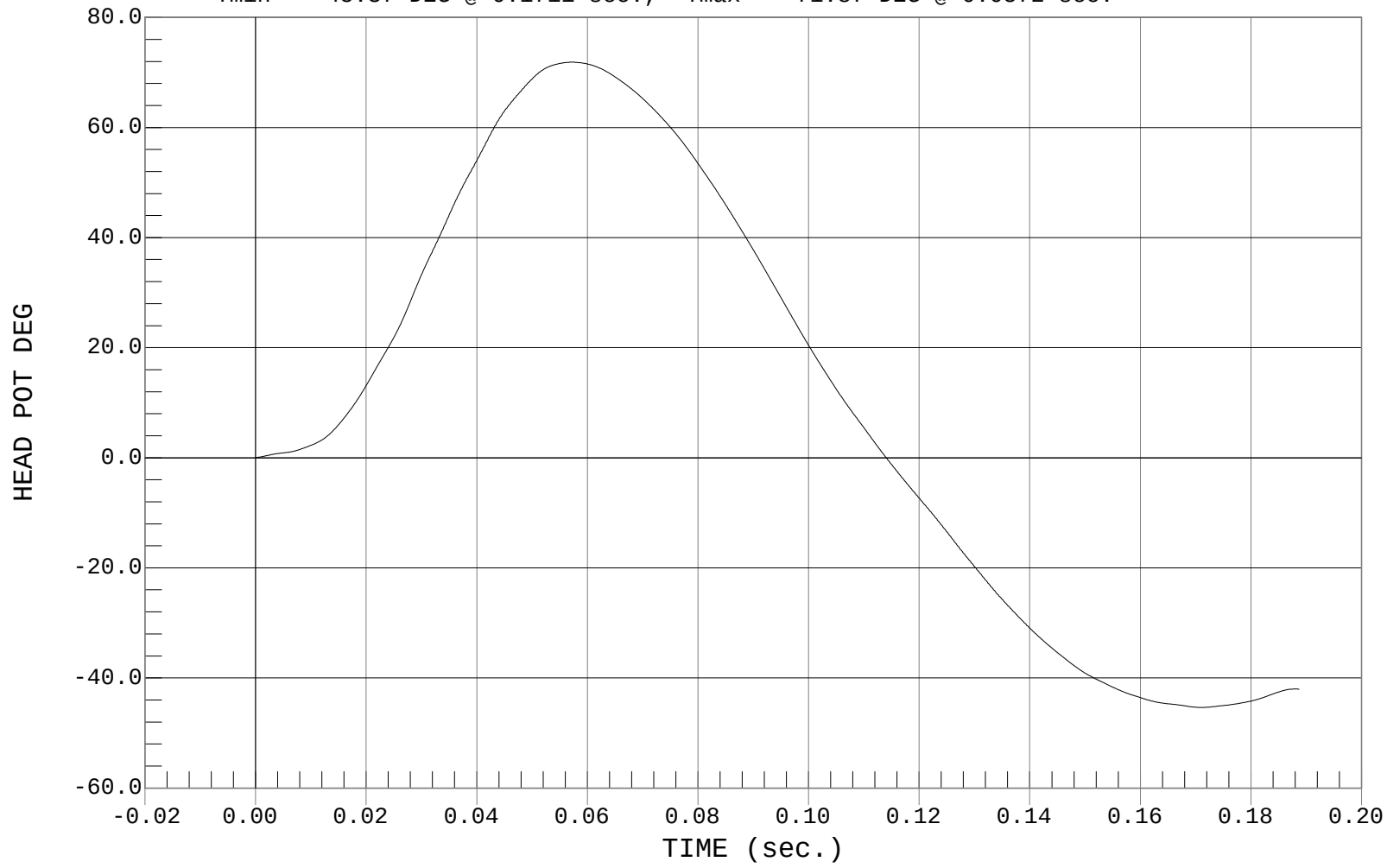
NECK ROTATION

Test Desc.: Dummy Calibration - Neck Flexion
Component: Dummy #192

Test Date: 11-07-00
Speed: 22.99 FT/SEC, 7.01 M/SEC

1 HEAD POT, D00422DU.D05

Ymin = -45.37 DEG @ 0.1711 sec., Ymax = 71.87 DEG @ 0.0572 sec.



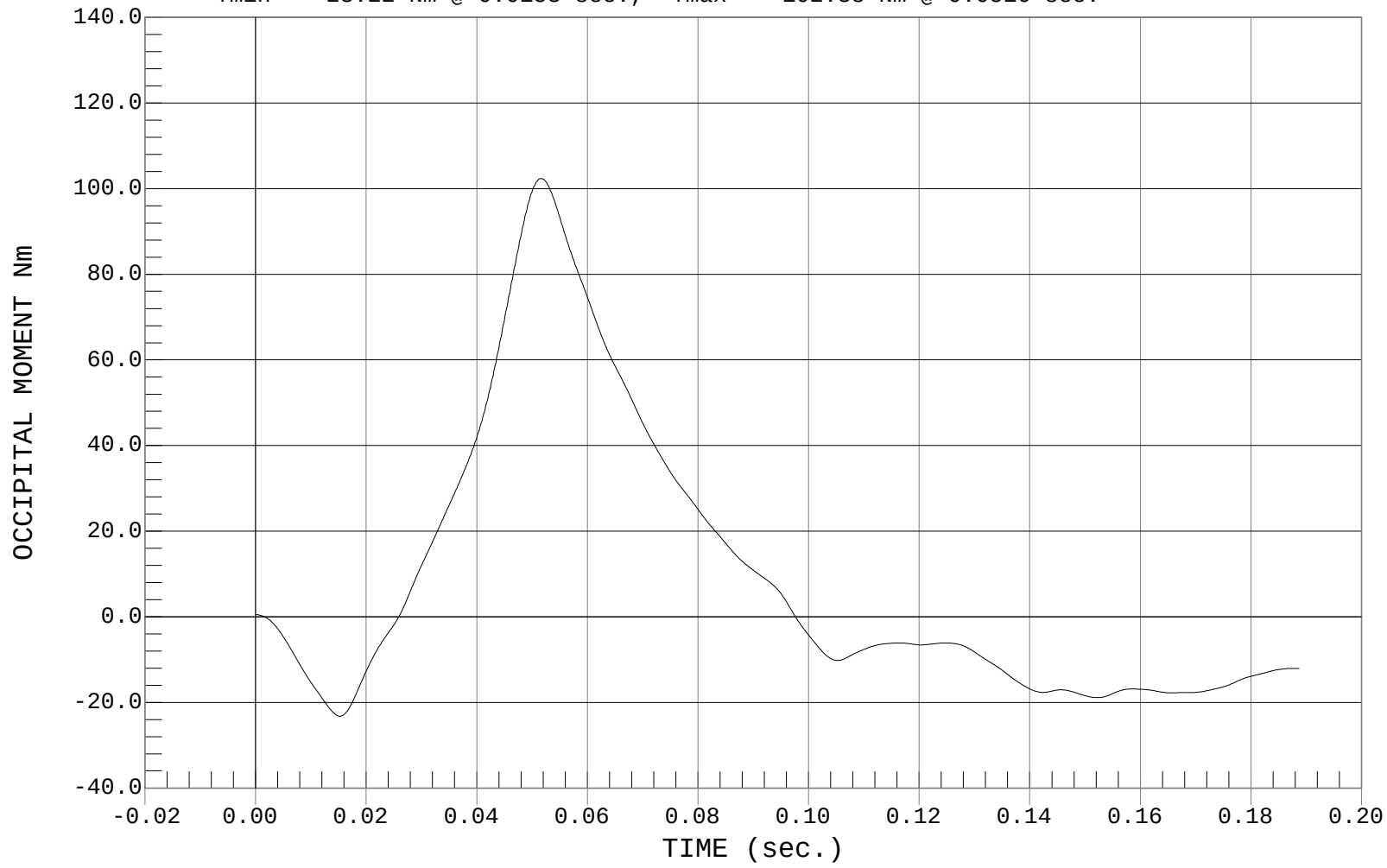
OCCIPITAL MOMENT

Test Desc.: Dummy Calibration - Neck Flexion
Component: Dummy #192

Test Date: 11-07-00
Speed: 22.99 FT/SEC, 7.01 M/SEC

1 OCCIPITAL MOMENT, D00422NK.MNT

Ymin = -23.22 Nm @ 0.0153 sec., Ymax = 102.38 Nm @ 0.0516 sec.



Hybrid III Calibration Data Sheet

50th Percentile Male

Neck Extension Test

ATD Serial No.: 192 Test I.D.: D001423

Tested Parameter		Units	Specification	Result	Pass/Fail
Laboratory Temperature		°C	20.6 to 22.2	21.1°	PASS
Laboratory Relative Humidity		%	10 to 70	39%	PASS
Pendulum Velocity		m/s	5.95 to 6.19	6.12	PASS
Pendulum Deceleration	10 Msec.	G's	17.20 to 21.20	18.28	PASS
	20 Msec.	G's	14.00 to 19.00	16.64	PASS
	30 Msec.	G's	11.00 to 16.00	13.58	PASS
Peak Pendulum Decel. After 30 Msec.		G's	≤22.0	13.8	PASS
Deceleration Decay, Time to Cross 5 G's		Msec.	38.0 to 46.0	39.3	PASS
Maximum "D" Plane Rotation	Maximum	Degrees	81.0 to 106.0	94.9	PASS
	Time	Msec.	72.0 to 82.0	74.9	PASS
"D" Plane Rotation Decay, Time To Zero Crossing		Msec.	147.0 to 174.0	155.2	PASS
Moment About Occipital Condyle	Minimum	Nm	-52.9 to –79.9	-64.2	PASS
	Time	Msec.	65.0 to 79.0	71.3	PASS
Negative Moment Decay, Time To Zero Crossing		Msec.	120.0 to 148.0	135.3	PASS
			Overall Test Results		PASS

Laboratory Technician

11/7/00
Test Date

Approved By

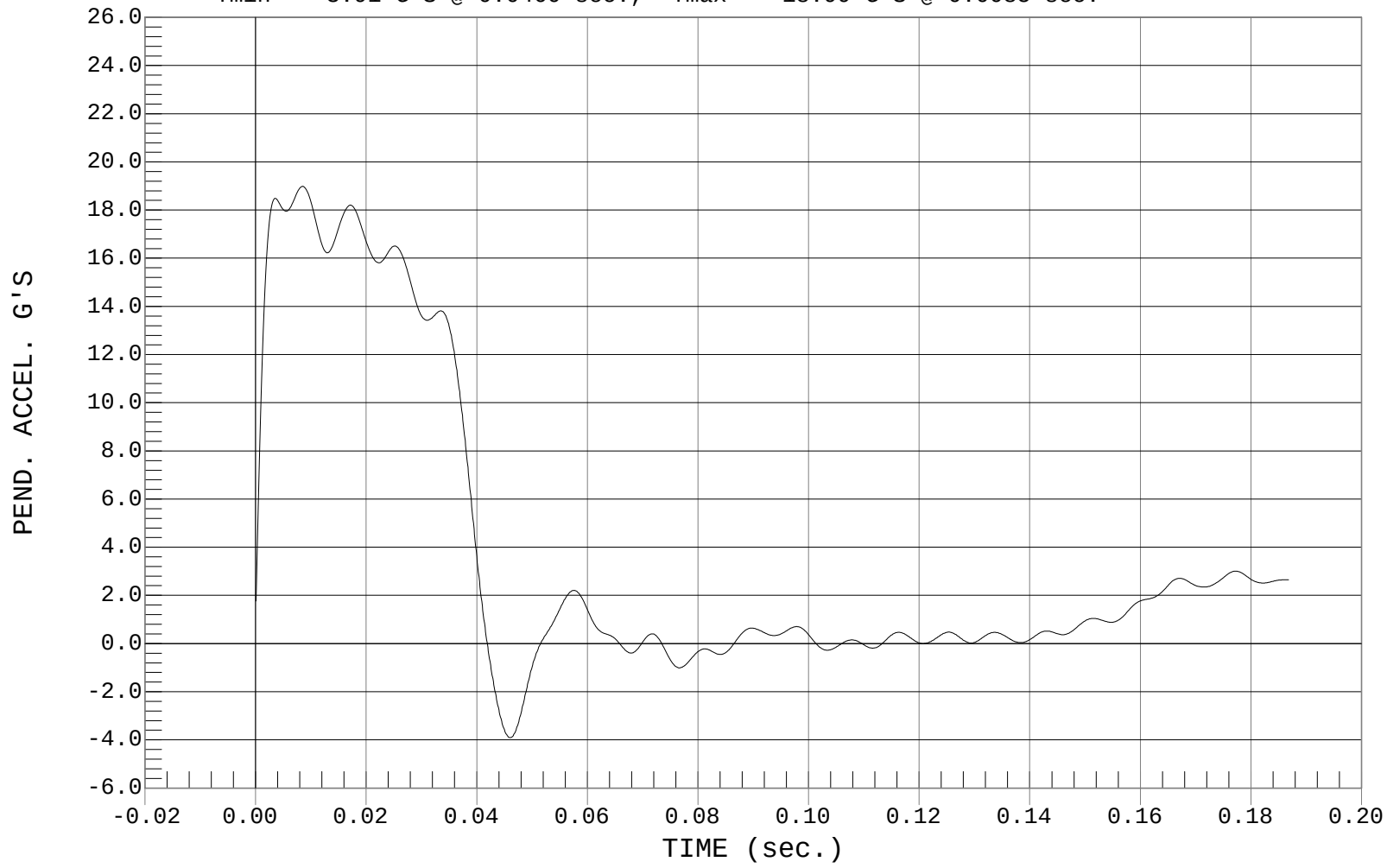
PENDULUM DECELERATION

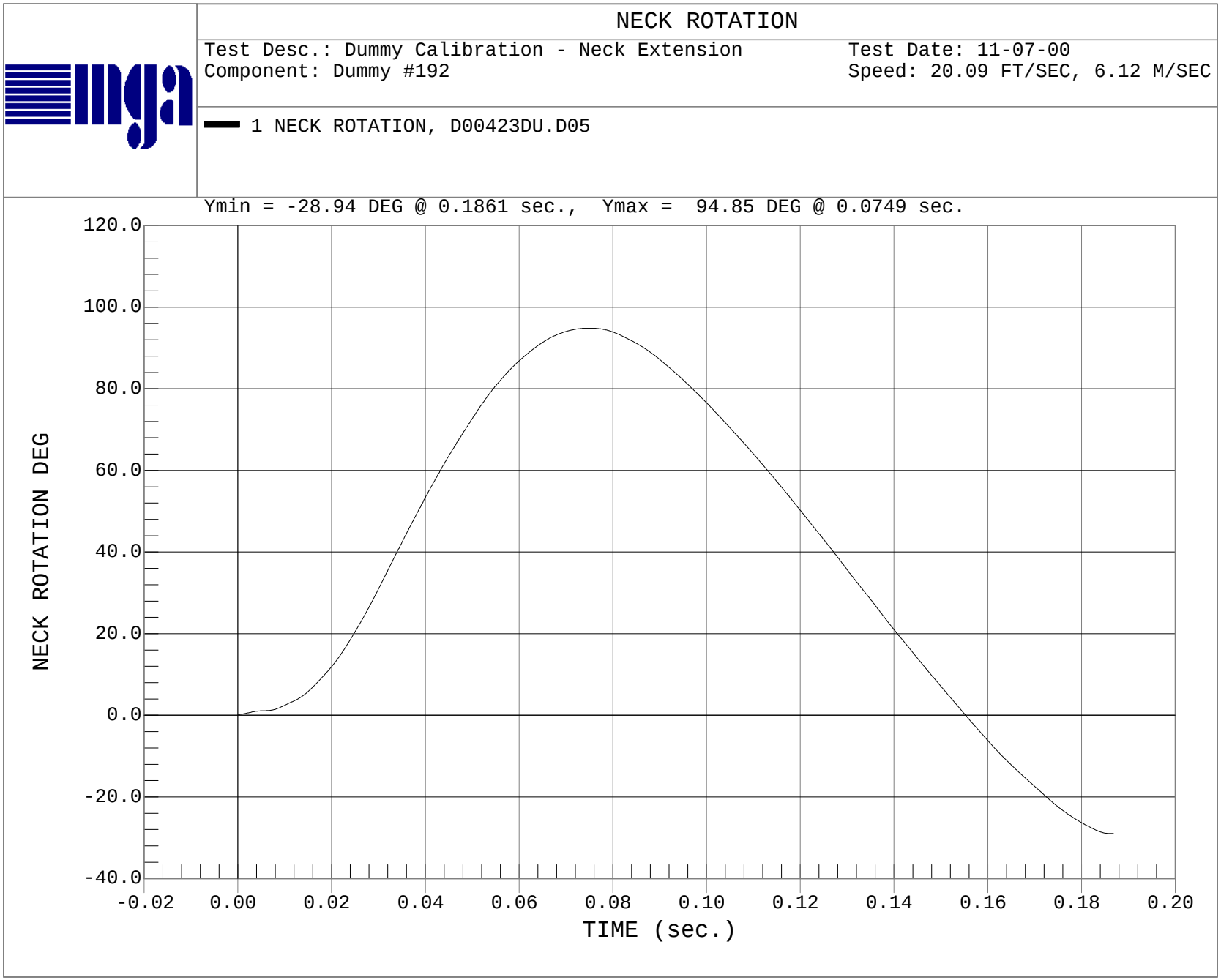
Test Desc.: Dummy Calibration - Neck Extension
Component: Dummy #192

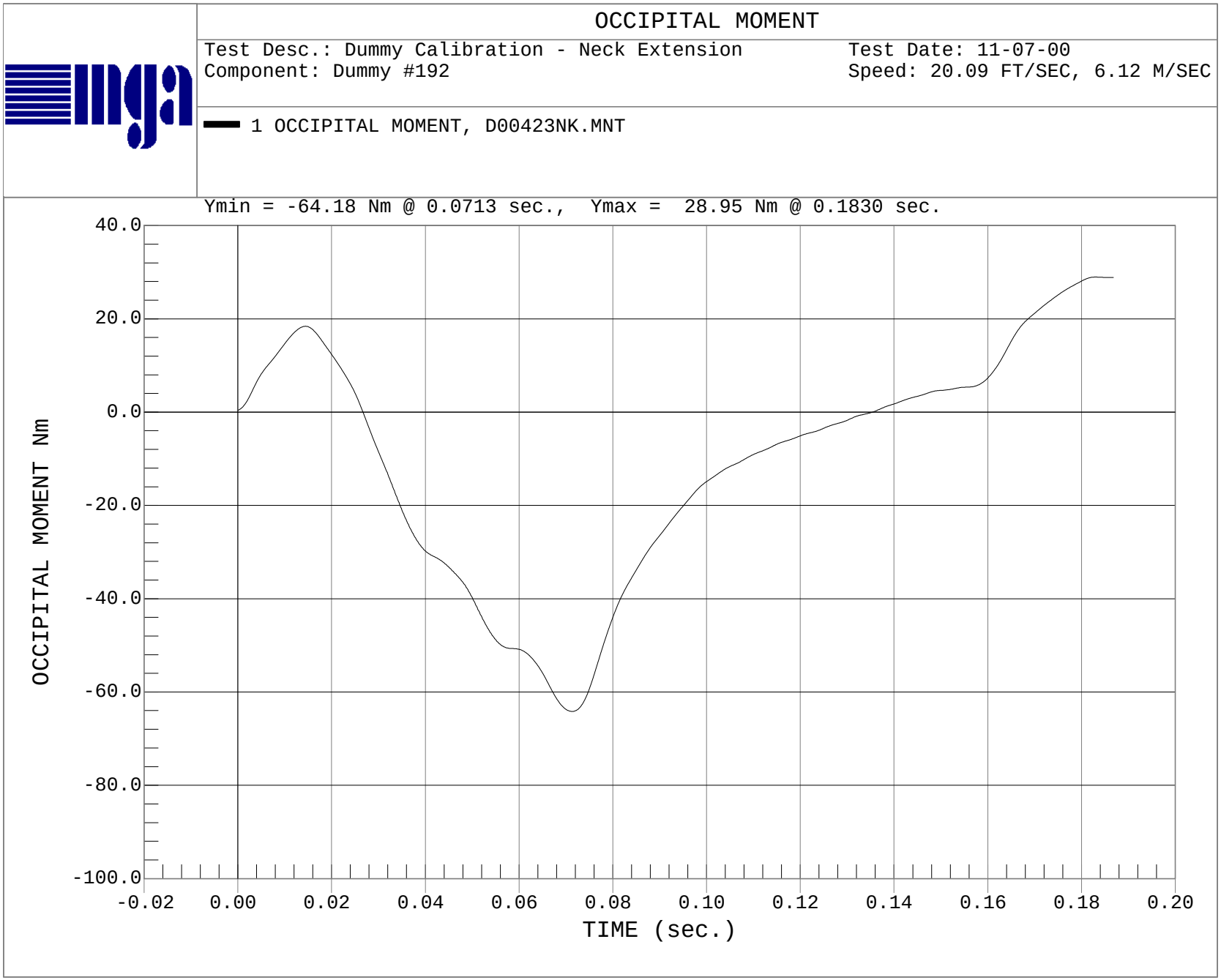
Test Date: 11-07-00
Speed: 20.09 FT/SEC, 6.12 M/SEC

1 PEND. ACCEL., D00423AF.A04

Ymin = -3.91 G'S @ 0.0460 sec., Ymax = 18.99 G'S @ 0.0085 sec.




NECK ROTATION
Test Desc.: Dummy Calibration - Neck Extension
Test Date: 11-07-00
Component: Dummy #192
Speed: 20.09 FT/SEC, 6.12 M/SEC
1 NECK ROTATION, D00423DU.D05
Ymin = -28.94 DEG @ 0.1861 sec., Ymax = 94.85 DEG @ 0.0749 sec.
NECK ROTATION DEG
120.0
100.0
80.0
60.0
40.0
20.0
0.0
-20.0
-40.0
-0.02
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
0.16
0.18
0.20
TIME (sec.)


OCCIPITAL MOMENT
Test Desc.: Dummy Calibration - Neck Extension
Test Date: 11-07-00
Component: Dummy #192
Speed: 20.09 FT/SEC, 6.12 M/SEC
1 OCCIPITAL MOMENT, D00423NK.MNT
Ymin = -64.18 Nm @ 0.0713 sec., Ymax = 28.95 Nm @ 0.1830 sec.
OCCIPITAL MOMENT Nm
40.0
20.0
0.0
-20.0
-40.0
-60.0
-80.0
-100.0
-0.02
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
0.16
0.18
0.20
TIME (sec.)

Hybrid III Calibration Data Sheet

50th Percentile Male

Hip-Femur Flexion Test

ATD Serial No.: 192 Test I.D.: D001429/0

Tested Parameter	Units	Specification	Result		Pass/Fail
			Right	Left	
Temperature	°C	18.9 to 25.6	21.1°	21.1°	PASS
Relative Humidity	%	10 to 70	35%	35%	PASS
Rotation Rate	deg/sec	5 – 10	Yes	Yes	PASS
30 Degrees	Nm	94.9 Nm Max.	67.2	62.4	PASS
150 ft-lbf / 203.4 Nm	Deg	40 – 50 Degree Max. rotation	46°	45°	PASS
		Overall Test Results			PASS

Laboratory Technician

11/9/00
Test Date

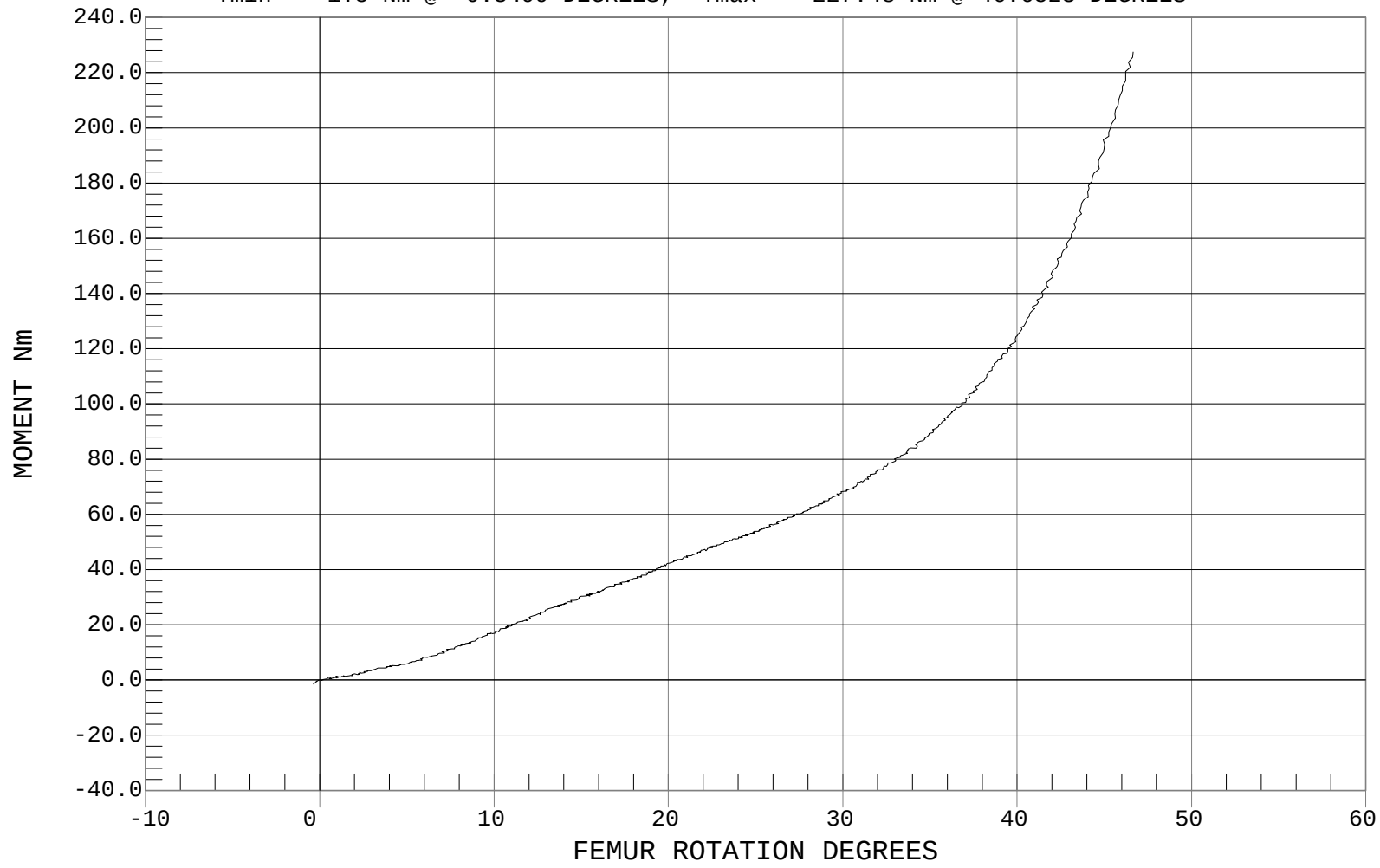
Approved By

HIP-FEMUR FLEXION

Test Desc.: DUMMY CALIBRATION - HIP-FEMUR FLEXION
Test Date: 11-09-00
Component: DUMMY # 192 RIGHT FEMUR
Speed: 0.00 FT/SEC, 0.00 M/SEC

1 MOMENT, D00429FC.F14

Ymin = -1.5 Nm @ -0.3499 DEGREES, Ymax = 227.48 Nm @ 46.6523 DEGREES



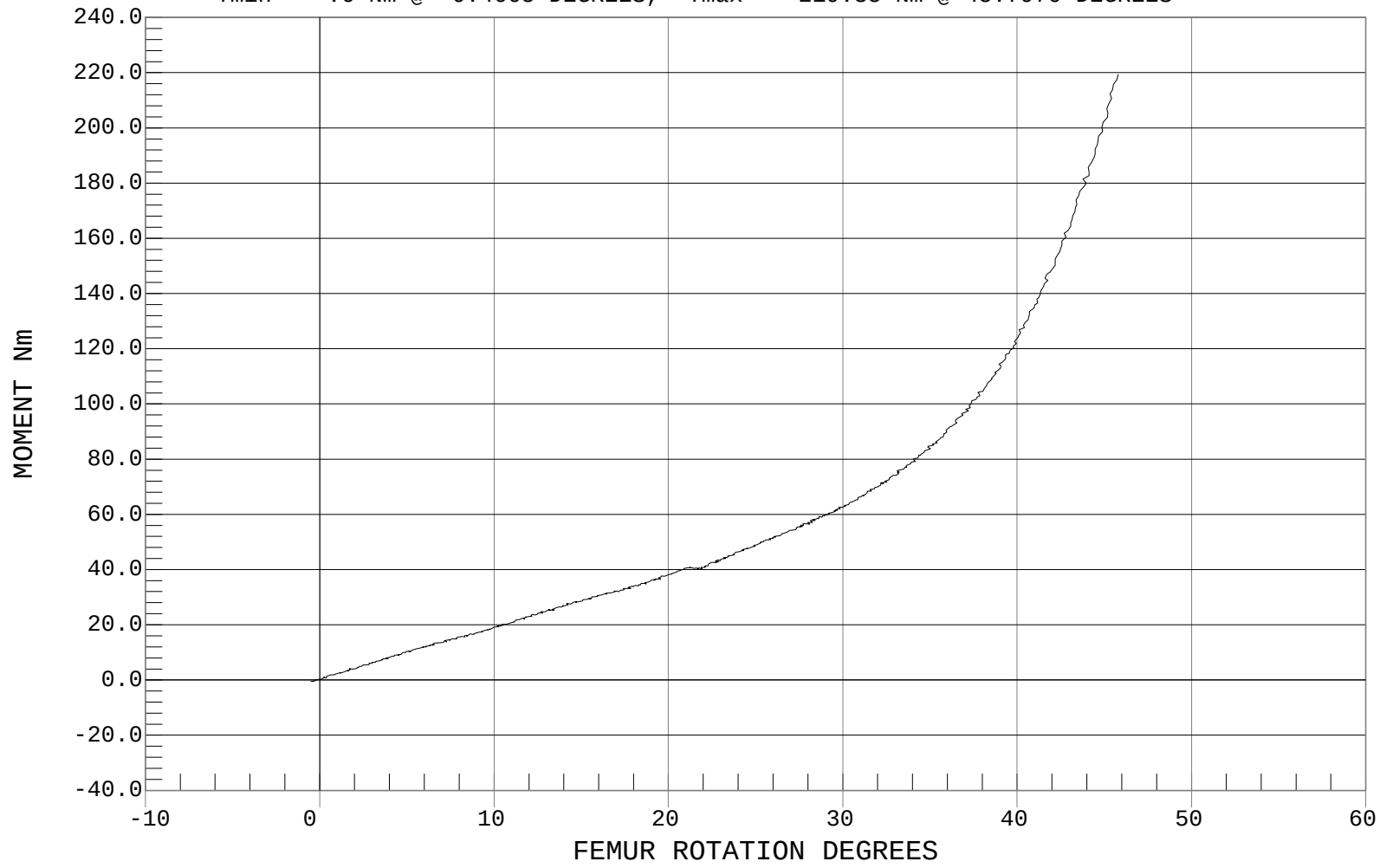
HIP-FEMUR FLEXION

Test Desc.: DUMMY CALIBRATION - HIP-FEMUR FLEXION
Component: DUMMY # 192 LEFT FEMUR

Test Date: 11-09-00
Speed: 0.00 FT/SEC, 0.00 M/SEC

1 MOMENT, D00420FC.F14

Ymin = -.6 Nm @ -0.4665 DEGREES, Ymax = 219.35 Nm @ 45.7970 DEGREES



Hybrid III Calibration Data Sheet

50th Percentile Male

External Measurements

ATD Serial No.: 192 Test I.D.: D00142

External Measurement Data				
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.4 to 22.1	21.1°	PASS
Laboratory Relative Humidity	%	10 to 70	18%	PASS
A – Total sitting height	mm	879 to 889	885	PASS
B – Shoulder pivot height	mm	506 to 521	512	PASS
C – "H" point height	mm	84 to 89	87	PASS
D – "H" point from seat back	mm	135 to 140	138	PASS
E – Shoulder pivot from back	mm	84 to 94	90	PASS
F – Thigh clearance	mm	140 to 156	146	PASS
G – Elbow back to wrist pivot	mm	290 to 305	298	PASS
H – Skull cap to back line	mm	41 to 46	44	PASS
I – Shoulder to elbow length	mm	330 to 345	338	PASS
J – Elbow rest height	mm	191 to 211	201	PASS
K – Buttock to knee length	mm	579 to 605	591	PASS
L – Poplipteal length	mm	429 to 455	439	PASS
M – Knee pivot height	mm	485 to 500	492	PASS
N – Buttock poplipteal length	mm	452 to 478	463	PASS
O – Chest depth	mm	213 to 229	220	PASS
P – Foot length	mm	252 to 267	264	PASS
V – Shoulder breadth	mm	422 to 437	428	PASS
W – Foot breadth	mm	91 to 107	102	PASS
Y – Chest circumference	mm	970 to 1001	988	PASS
Z – Waist circumference	mm	836 to 866	850	PASS
AA – Location for chest circumference	mm	429 to 434	432	PASS
BB – Location for waist circumference	mm	226 to 231	229	PASS
		Overall Test Results		PASS

12/27/00

Laboratory Technician

Test Date

Approved By

APPENDIX D

TEST EQUIPMENT AND INSTRUMENTATION CALIBRATION

DUMMY, VEHICLE, AND LABORATORY INSTRUMENT CALIBRATION

INSTRUMENTS FOR DUMMY NO. 142

	INSTRUMENTS FOR DRIVER DUMMY NO. 142		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Head X	J27523	Endevco	11/15/00
Head Y	J29023	Endevco	11/15/00
Head Z	J29006	Endevco	11/15/00
Head X Redundant	J35562	Endevco	11/15/00
Head Y Redundant	J27461	Endevco	11/15/00
Head Z Redundant	J27457	Endevco	11/15/00
Chest X	J27466	Endevco	11/15/00
Chest Y	J27470	Endevco	11/15/00
Chest Z	J27509	Endevco	11/15/00
Chest X Redundant	AAL32	Endevco	11/15/00
Chest Y Redundant	AGT82	Endevco	11/15/00
Chest Z Redundant	AGR67	Endevco	11/15/00
Right Femur Load Cell	257	Denton	9/20/00
Left Femur Load Cell	258	Denton	9/20/00
Pelvis X	AAKA1	Endevco	11/15/00
Pelvis Y	AF9Y5	Endevco	11/15/00
Pelvis Z	AAKA2	Endevco	11/15/00
Neck Force X	261	Denton	8/31/00
Neck Force Y	261	Denton	8/31/00
Neck Force Z	261	Denton	8/31/00
Neck Moment X	261	Denton	8/31/00
Neck Moment Y	261	Denton	8/31/00
Neck Moment Z	261	Denton	8/31/00
Chest Deflection Gauge	192	Servo	11/10/00
Lap Belt Load Cell	192	Denton	10/6/00
Shoulder Belt Load Cell	191	Denton	10/6/00

DUMMY, VEHICLE, AND LABORATORY INSTRUMENT CALIBRATION

INSTRUMENTS FOR DUMMY NO. 142

	INSTRUMENTS FOR DRIVER DUMMY NO. 142		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Upper Right Tibia Moment X	107	Denton	9/21/00
Upper Right Tibia Moment Y	107	Denton	9/21/00
Upper Right Tibia Force Z	107	Denton	9/21/00
Lower Right Tibia Moment X	136	Denton	9/21/00
Lower Right Tibia Moment Y	136	Denton	9/21/00
Lower Right Tibia Force Z	136	Denton	9/21/00
Upper Left Tibia Moment X	108	Denton	9/21/00
Upper Left Tibia Moment Y	108	Denton	9/21/00
Upper Left Tibia Force Z	108	Denton	9/21/00
Lower Left Tibia Moment X	137	Denton	9/21/00
Lower Left Tibia Moment Y	137	Denton	9/21/00
Lower Left Tibia Force Z	137	Denton	9/21/00
Left Foot Ball Z Acceleration	J17988	Endevco	11/16/00
Left Heel X Acceleration	J14232	Endevco	11/16/00
Left Heel Z Acceleration	AJ4R3	Endevco	11/16/00
Right Foot Ball Z Acceleration	J17988	Endevco	11/16/00
Right Heel X Acceleration	J14232	Endevco	11/16/00
Right Heel Z Acceleration	AJ4R3	Endevco	11/16/00

DUMMY, VEHICLE, AND LABORATORY INSTRUMENT CALIBRATION

INSTRUMENTS FOR DUMMY NO. 192

	INSTRUMENTS FOR PASSENGER DUMMY NO. 192		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Head X	AFW91	Endevco	11/16/00
Head Y	AAKB3	Endevco	11/16/00
Head Z	AGRP4	Endevco	11/16/00
Head X Redundant	AGRY2	Endevco	11/16/00
Head Y Redundant	ACCP9	Endevco	11/16/00
Head Z Redundant	AGMY3	Endevco	11/16/00
Chest X	AAKE2	Endevco	11/16/00
Chest Y	AGAG0	Endevco	11/16/00
Chest Z	AAJY4	Endevco	11/16/00
Chest X Redundant	AF9Y3	Endevco	11/16/00
Chest Y Redundant	AF973	Endevco	11/16/00
Chest Z Redundant	AGN47	Endevco	11/16/00
Right Femur Load Cell	F263FZ	Denton	9/20/00
Left Femur Load Cell	F264FZ	Denton	9/20/00
Pelvis X	AALG2	Endevco	11/15/00
Pelvis Y	AGN98	Endevco	11/15/00
Pelvis Z	AC9P8	Endevco	11/15/00
Neck Force X	N260FX	Denton	8/30/00
Neck Force Y	N260FY	Denton	8/30/00
Neck Force Z	N260FZ	Denton	8/30/00
Neck Moment X	N260MX	Denton	8/30/00
Neck Moment Y	N260MY	Denton	8/30/00
Neck Moment Z	N260MZ	Denton	8/30/00
Chest Deflection Gauge	192	Servo	11/10/00
Lap Belt Load Cell	192	Denton	10/6/00
Shoulder Belt Load Cell	191	Denton	10/6/00

DUMMY, VEHICLE, AND LABORATORY INSTRUMENT CALIBRATION

INSTRUMENTS FOR DUMMY NO. 192

	INSTRUMENTS FOR PASSENGER DUMMY NO. 192		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Upper Right Tibia Moment X	T111MX	Denton	9/20/00
Upper Right Tibia Moment Y	T111MY	Denton	9/20/00
Upper Right Tibia Force Z	T111FZ	Denton	9/20/00
Lower Right Tibia Moment X	A142MX	Denton	9/20/00
Lower Right Tibia Moment Y	A142MY	Denton	9/20/00
Lower Right Tibia Force Z	A142FZ	Denton	9/20/00
Upper Left Tibia Moment X	T110MX	Denton	9/20/00
Upper Left Tibia Moment Y	T110MY	Denton	9/20/00
Upper Left Tibia Force Z	T110FZ	Denton	9/20/00
Lower Left Tibia Moment X	A139MX	Denton	9/21/00
Lower Left Tibia Moment Y	A139MY	Denton	9/21/00
Lower Left Tibia Force Z	A139FZ	Denton	9/21/00
Left Foot Ball Z Acceleration	J17988	Endevco	11/16/00
Left Heel X Acceleration	J14232	Endevco	11/16/00
Left Heel Z Acceleration	AJ4R3	Endevco	11/16/00
Right Foot Ball Z Acceleration	J23772	Endevco	11/15/00
Right Heel X Acceleration	J19873	Endevco	11/15/00
Right Heel Z Acceleration	J19236	Endevco	11/15/00

VEHICLE INSTRUMENT CALIBRATION

	VEHICLE ACCELEROMETERS		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Left Rear Seat Crossmember X	K16-X06	Entran	9/12/00
Right Rear Seat Crossmember X	J04-F10	Entran	8/10/00
Top of Engine Block X	G13-F07	Entran	8/15/00
Bottom of Engine X	E25-G07	Entran	9/14/00
Left Brake Caliper X	F20-G10	Entran	9/14/00
Right Brake Caliper X	E10-F20	Entran	10/4/00
Instrument Panel X	I18-G02	Entran	8/10/00
Redundant Left Rear Seat Crossmember X	D05-R21	Entran	8/8/00
Redundant Right Rear Seat Crossmember X	D05-R25	Entran	10/4/00

	LABORATORY INSTRUMENTS		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Neck Bending Pendulum Accelerometer	C12885	Endevco	1/17/01
Neck Bending Head Rotary Potentiometer	018	Spectrol	10/2/00
Neck Bending Pendulum Rotary Potentiometer	019	Spectrol	10/2/00
Chest Probe Accelerometer	J14396	Endevco	1/11/01
Knee Impact Accelerometer	J14398	Endevco	1/11/01

APPENDIX E

VEHICLE OWNER'S MANUAL OCCUPANT RESTRAINT INSTRUCTIONS

OCCUPANT RESTRAINTS

Some of the most important safety features in your vehicle are the restraint systems. These include the front and rear seat belts for the driver and all passengers, front airbags for both the driver and front passenger and, if so equipped, left and right window bags for the driver and passengers seated next to a window. If you will be carrying children too small for adult-size belts, your seat belts also can be used to hold infant and child restraint systems.

Please pay close attention to the information in this section. It tells you how to use your restraint system properly to keep you and your passengers as safe as possible.

WARNING!

In a collision, you and your passengers can suffer much greater injuries if you are not properly buckled up. You can strike the interior of your vehicle or other passengers, or you can be thrown out of the vehicle. Always be sure you and others in your vehicle are buckled up properly.

Buckle up even though you are an excellent driver, even on short trips. Someone on the road may be a poor driver and cause a collision which includes you. This can happen far away from home or on your own street.

Research has shown that seat belts save lives, and they can reduce the seriousness of injuries in a collision. Some of the worst injuries happen when people are thrown from the vehicle. Seat belts reduce the possibility of ejection and the risk of injury caused by striking the inside of the vehicle. **Everyone** in a motor vehicle should be belted at all times.

Lap/Shoulder Belts

All seating positions in your vehicle are equipped with Lap/Shoulder Belts.

The belt webbing retractor is designed to lock during very sudden stops or impacts. This feature allows the shoulder part of the belt to move freely with you under normal conditions. But in a collision, the belt will lock and reduce your risk of striking the inside of the vehicle or being thrown out.

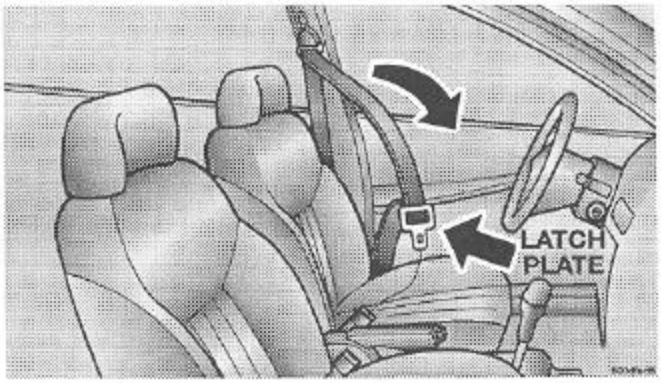
WARNING!

- Wearing a seat belt incorrectly is dangerous. Seat belts are designed to go around the large bones of your body. These are the strongest parts of your body and can take the forces of a collision the best. Wearing your belt in the wrong place could make your injuries in a collision much worse. You might suffer internal injuries, or you could even slide out of part of the belt. Follow these instructions to wear your seat belt safely and to keep your passengers safe, too.
- Two people should never be belted into a single seat belt. People belted together can crash into one another in an accident, hurting one another badly. Never use a lap/shoulder belt or a lap belt for more than one person, no matter what their size.

Lap/Shoulder Belt Operating Instructions

1. Enter the vehicle and close the door. Sit back and adjust the front seat.

2. The seat belt latch plate is above the back of your seat. Grasp the latch plate and pull out the belt. Slide the latch plate up the webbing as far as necessary to make the belt go around your lap.

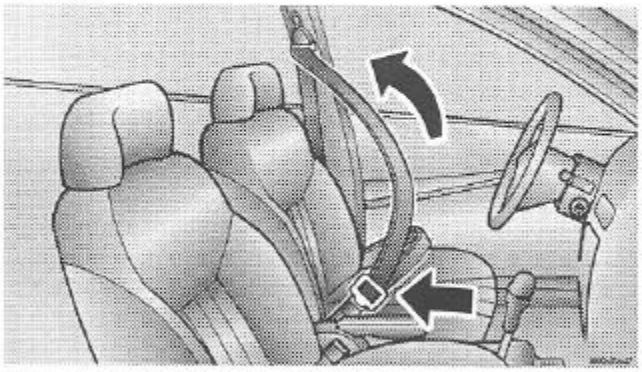


3. When the belt is long enough to fit, insert the latch plate into the buckle until you hear a "click."

WARNING!

- A belt that is buckled into the wrong buckle will not protect you properly. The lap portion could ride too high on your body, possibly causing internal injuries. Always buckle your belt into the buckle nearest you.
- A belt that is too loose will not protect you as well. In a sudden stop you could move too far forward, increasing the possibility of injury. Wear your seat belt snugly.
- A belt that is worn under your arm is very dangerous. Your body could strike the inside surfaces of the vehicle in a collision, increasing head and neck injury. A belt worn under the arm can cause internal injuries. Ribs aren't as strong as shoulder bones. Wear the belt over your shoulder so that your strongest bones will take the force in a collision.
- A shoulder belt placed behind you will not protect you from injury during a collision. You are more likely to hit your head in a collision if you do not wear your shoulder belt. The lap and shoulder belt are meant to be used together.

4. Position the lap belt across your thighs, below your abdomen. To remove slack in the lap belt portion, pull up a bit on the shoulder belt. To loosen the lap belt if it is too tight, tilt the latch plate and pull on the lap belt. A snug belt reduces the risk of sliding under the belt in a collision.



WARNING!

• A lap belt worn too high can increase the risk of internal injury in a collision. The belt forces won't be at the strong hip and pelvic bones, but across your abdomen. Always wear the lap belt as low as possible and keep it snug.

• A twisted belt can't do its job as well. In a collision it could even cut into you. Be sure the belt is straight. If you can't straighten a belt in your vehicle, take it to your dealer and have it fixed.

5. Position the shoulder belt on your chest so that it is comfortable and not resting on your neck. The retractor will withdraw any slack in the belt.

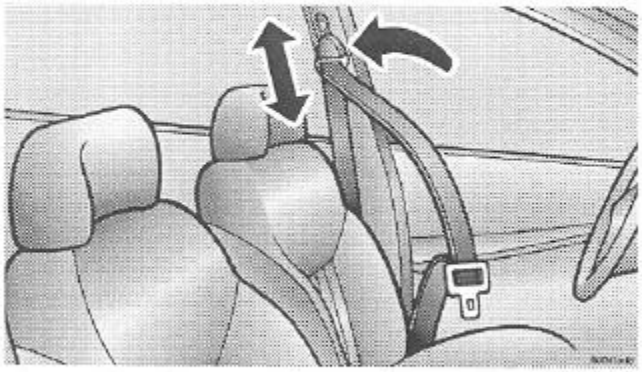
6. To release the belt, push the red button on the buckle. The belt will automatically retract to its stowed position. If necessary, slide the latch plate down the webbing to allow the belt to retract fully.

WARNING!

A frayed or torn belt could rip apart in a collision and leave you with no protection. Inspect the belt system periodically, checking for cuts, frays, or loose parts. Damaged parts must be replaced immediately. Do not disassemble or modify the system. Seat belt assemblies must be replaced after a collision if they have been damaged (bent retractor, torn webbing, etc.).

Adjustable Upper Shoulder Belt Anchorage

In the driver and front passenger seats, the shoulder belt can be adjusted upward or downward to position the belt away from your neck. Push the lever above the webbing upward to release the anchorage, and then move it up or down to the position that serves you best.



As a guide, if you are shorter than average, you will prefer a lower position, and if you are taller than average, you'll prefer a higher position. When you release the anchorage, try to move it up or down to make sure that it is locked in position.

In the rear seat, move toward the center of the seat to position the belt away from your neck.

Pretensioners

The seat belts for both front seating positions are equipped with pretensioning devices that are designed to remove any slack from the seat belts in the event of a collision. These devices improve the performance of the seat belt system by assuring that the belt is tight about the occupant early in a collision. Pretensioners work for all size occupants, including those in child restraints.

NOTE: These devices are not a substitute for proper seat belt placement by the occupant. The seat belt still must be worn snugly and positioned properly.

The pretensioners are triggered by the front airbag control module (see Airbag Section). Like the front airbags, the pretensioners are single use items. After a collision that is severe enough to deploy the airbags and pretensioners, both must be replaced.

Seat Belts and Pregnant Women

We recommend that pregnant women use the seat belts throughout their pregnancy. Keeping the mother safe is the best way to keep the baby safe.

Pregnant women should wear the lap part of the belt across the thighs and as snug across the hips as possible. Keep the belt low so that it does not come across the abdomen. That way the strong bones of the hips will take the force if there is a collision.

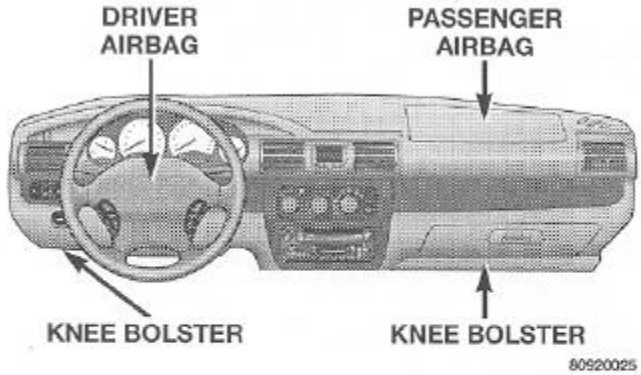
Seat Belt Extender

If a seat belt is too short, even when fully extended and when the adjustable upper shoulder belt anchorage (if so equipped) is in its lowest position, your dealer can provide you with a seat belt extender. This extender should be used only if the existing belt is not long enough. When it is not required, remove the extender and store it.

WARNING!

Using a seat belt extender when not needed can increase the risk of injury in a collision. Only use when the seat belt is not long enough when it is worn low and snug, and in the recommended seating positions. Remove and store the extender when not needed.

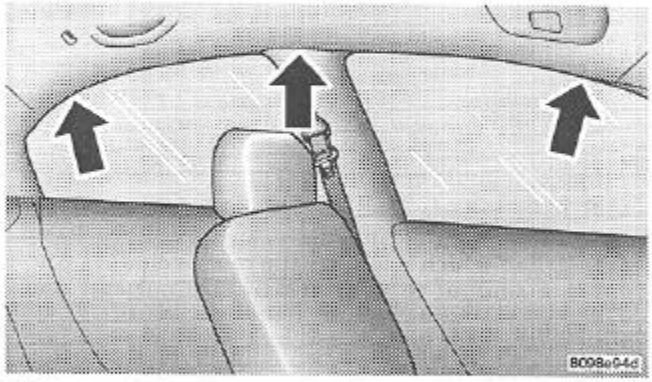
Driver and Right Front Passenger Supplemental Restraint System (SRS) - Airbag



This vehicle has front airbags for both the driver and front passenger as a supplement to the seat belt restraint systems. The driver's airbag is mounted in the center of the steering wheel. The passengers front airbag is mounted in the instrument panel, above the glove compartment. The words SRS AIRBAG are embossed on the airbag covers.

NOTE: This airbag is certified to the new Federal regulations that allow less forceful airbags.

This vehicle may also be equipped with left and right window bags to protect the driver and passengers in the passengers sitting next to a window. If the vehicle is equipped with window bags, they are located above the side windows. Their covers are also labeled SRS AIRBAG.



NOTE: Airbag covers may not be obvious in the interior trim; but they will open to allow airbag deployment.

WARNING!

- **Do not put anything on or around the front airbag covers or attempt to manually open them. You may damage the airbags and you could be injured because the airbags are not there to protect you. These protective covers for the airbag cushions are designed to open only when the airbags are inflating.**
- **If your vehicle is equipped with left and right window bags, do not stack luggage or other cargo up high enough to block the location of the window bag. The area where the window bag is located should remain free from any obstructions.**
- **If your vehicle is equipped with left and right window bags, do not have any accessory items installed which will alter the roof, including adding a sunroof to your vehicle. Do not add roof racks that require permanent attachments (bolts or screws) for installation on the vehicle roof. Do not drill into the roof of the vehicle for any reason.**
- **Do not drill, cut or tamper with the knee bolster in any way.**
- **Do not mount any accessories to the knee bolster such as alarm lights, stereos, citizens band radios etc.**

Airbags inflate in moderate to high speed impacts. Along with the seat belts, front airbags work with the instrument panel knee bolsters to provide improved protection for the driver and front passenger. Left and right window airbags also work with seat belts to improve occupant protection.

The seat belts are designed to protect you in many types of collisions. The front airbags deploy only in moderate to severe frontal collisions. If your vehicle is so equipped, the window bag on the crash side of the vehicle is triggered in moderate to sever side collisions. In certain types of collisions where the airbags deploy, you need the seat belts to keep you in the right position for the airbags to protect you properly.

Here are some simple steps you can take to minimize the risk of harm from a deploying airbag.

1. Children 12 years old and under should ride buckled up in the rear seat. Infants in rear-facing child restraints (designed for children up to 20 lbs. (9 kg.) and less than one year old) should **NEVER** ride in the front seat of a

vehicle with a passenger front airbag. An airbag deployment could cause severe injury or death to infants in that position.

2. Children up to 60 lbs. (27kg.) should be secured in the rear seat in child restraints or belt-positioning booster seats.

Older children who do not use child restraints or belt-positioning booster seats should ride properly buckled up in the rear seat. Never allow children to slide the shoulder belt behind them or under their arm.

If a child from 1 to 12 years old must ride in the front passenger seat because the vehicle is crowded, move the seat as far back as possible, and use the proper child restraint. See the section on Child Restraint.

3. You should read the instructions provided with your child restraint belt-positioning booster seat to make sure that you are using it properly.

4. All occupants should use their seat belts properly.

5. The driver and front passenger seats should be moved back as far as practical to allow the airbags time to inflate.

6. If your vehicle has left and right window bags, do not lean against the door, airbags will inflate forcefully into the space between you and the door.

2

WARNING!

- **Relying on the airbags alone could lead to more severe injuries in a collision. The airbags work with your seat belt to restrain you properly. In some collisions the airbags won't deploy at all. Always wear your seat belts even though you have airbags.**
- **Being too close to the steering wheel or instrument panel during airbag deployment could cause serious injury. Airbags need room to inflate. Sit back, comfortably extending your arms to reach the steering wheel or instrument panel.**
- **If the vehicle has left and right window bags, they also need room to inflate. Do not lean against the door or window. Sit upright in the center of the seat.**

Airbag System Components

The front airbag system consists of the following:

- Airbag Control Module
- **AIRBAG** Readiness Light
- Driver Airbag
- Passenger Airbag
- Steering Wheel and Column
- Instrument Panel
- Interconnecting Wiring
- Knee Impact Bolsters
- Seat Belt Buckle Switches

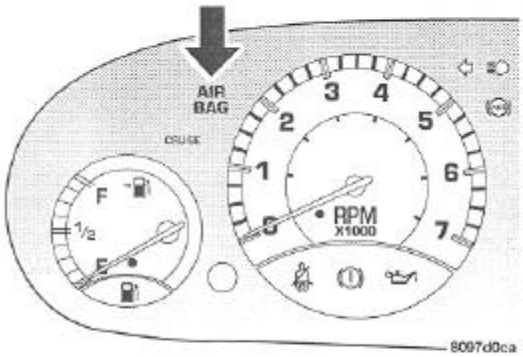
The window airbag system, on vehicles so equipped, consists of the following:

- **AIRBAG** Readiness Light
- Left and Right Window Bags Above Side Windows
- Side Airbag Control Modules
- Interconnectiong Wiring

How The Airbag System Works

- The front airbag control module determines if a frontal collision is severe enough to require the airbags to inflate. The control module receives the level of collision severity, determines the proper level of airbag to be deployed. The frontal airbag inflators are designed to provide three different rates of air bag inflation.
- The airbag control module will not detect rollover or rear collisions.
- The airbag control module also monitors the readiness of the electronic parts of the system whenever the ignition switch is in the START or RUN positions. These include all of the items listed above except the knee bolster, the instrument panel, and the steering wheel and column. If the key is in the "off" position, in the ACC position, or not in the ignition, the airbags are not on and will not inflate.
- The airbag control module also turns on the **AIRBAG** light in the instrument panel for 6 to 8 seconds when the ignition is first turned on, then turns the light off.

If it detects a malfunction in any part of the system, it turns on the light either momentarily or continuously.



WARNING!

Ignoring the AIRBAG light in your instrument panel could mean you won't have the airbags to protect you in a collision. If the light does not come on, stays on after you start the vehicle, or if it comes on as you drive, have the airbag system checked right away.

- When the airbag control module detects a collision requiring the airbags, it signals the inflator units. A large quantity of nontoxic gas is generated to inflate the airbags. Three levels of airbag inflation rates are possible. These rates are determined by the airbag control module based on collision severity. The airbag covers separate and fold out of the way as the airbags inflate to their full size. The airbags fully inflate in about 60 milliseconds. This is only about half of the time it takes you to blink your eyes. The airbags then quickly deflate while helping to restrain the driver and front passenger. The driver's front airbag gas is vented through the airbag material towards the instrument panel. The passenger's front airbag gas is vented

through vent holes in the sides of the airbag. In this way the airbags do not interfere with your control of the vehicle.

- When the side airbag control module detects an impact requiring the left and right window airbags, the side inflater on the crash side of the vehicle is triggered, releasing a quantity of nontoxic gas. The inflating window airbag deploys from the underside of the headliner and occupies the space between the occupant's head and the side glass. The window airbag moves at a very high speed and with such a high force, that it could injure you if you are not seated properly, or if items are placed in the area where the window airbag inflates. This especially applies to children.
- The Knee Impact Bolsters help protect the knees and position you for the best interaction with the front airbag.
- The front airbag control module determines if a frontal collision is severe enough to require the airbags to inflate. The control module also receives information from the front seat belt buckle switches, and along with the level of collision severity, determines the proper level of airbag to be deployed. The frontal airbag inflators are designed to provide three different rates of airbag inflation. When the airbag control module detects a collision requiring the airbags, it signals the inflator units. Nontoxic gas inflates the airbag. Three levels of airbag inflation rates are possible. These rates are determined by the airbag control module based on collision severity and the seat belt buckle switch status.

If A Deployment Occurs

The airbag system is designed to deploy when the airbag control module detects a moderate-to-severe frontal collision, to help restrain the driver and front passenger, and then to immediately deflate.

NOTE: A frontal collision that is not severe enough to need airbag protection will not activate the system. This does not mean something is wrong with the airbag system.

If you do have a collision which deploys the airbags, any or all of the following may occur:

- The nylon airbag material may sometimes cause abrasions and/or skin reddening to the driver and right front passenger as the airbags deploy and unfold. The abrasions are similar to friction rope burns or those you might get sliding along a carpet or gymnasium floor. They are not caused by contact with chemicals. They are not permanent and normally heal quickly. However, if you haven't healed significantly within a few days, or if you have any blistering, see your doctor immediately.
- As the airbags deflate you may see some smoke-like particles. The particles are a normal by-product of the process that generates the nontoxic gas used for airbag inflation. These airborne particles may irritate the skin, eyes, nose, or throat. If you have skin or eye irritation, rinse the area with cool water. For nose or throat irritation, move to fresh air. If the irritation continues, see your doctor. If these particles settle on your clothing, follow the garment manufacturer's instructions for cleaning.
- It is not advisable to drive your vehicle after the airbags have been deployed. If you are involved in another collision, the airbags will not be in place to protect you.

WARNING!

Deployed airbags can't protect you in another collision. Have the airbags replaced by an authorized dealer as soon as possible.

Side Airbag System

The side airbag control module determines if a side collision is severe enough to require the airbag to inflate. The side airbag control module will not detect rollover, front or rear impacts.

The side airbag control module monitors the readiness of the electronic parts of the system whenever the ignition switch is in the "START" or "RUN" positions. These include all of the items listed above. The side airbag control module also turns on the **AIRBAG** light in the instrument panel for 6 to 8 seconds when the ignition is

first turned on as a diagnostic or system check, then turns the light off. If it detects a malfunction in any part of the system, it turns on the light either momentarily or continuously.

The side impact SRS Airbags are designed to activate only in certain side collisions. When the side airbag control module detects a collision requiring the window bags to inflate, it signals the inflators on the crash side of the vehicle. A quantity of nontoxic gas is generated to inflate the window bag. The inflating window bag pushes the outside edge of the headliner out of the time it takes to blink your eyes) with enough force to injure you if you are not belted and seated properly, or if items are positioned in the area where the window bag inflates. This especially applies to children. The window bag is only about 8 ¾ cm. (3 ½ incles) thick when it is inflated.

Maintaining Your Airbag System

WARNING!

- **Modifications to any part of the airbag system could cause it to fail when you need it. You could be injured because the airbags are not there to protect you. Do not modify the components or wiring, including adding any kind of badges or stickers to the steering wheel hub trim cover or the upper right side of the instrument panel. Do not modify the front bumper, vehicle body structure, or frame.**
- **You need proper knee impact protection in a collision. Do not mount or locate any aftermarket equipment on or behind the knee impact bolster.**
- **It is dangerous to try to repair any part of the airbag system yourself. Be sure to tell anyone who works on your vehicle that it has airbags.**

Airbag Light

You will want to have the airbags ready for your protection in an impact. While the airbag system is designed to be maintenance free, if any of the following occurs, have an authorized dealer service the system promptly:

- The AIRBAG light does not come on or flickers during the 6 to 8 seconds when the ignition switch is first turned on.
- The light remains on or flickers after the 6 to 8 second interval.
- The light flickers or comes on and remains on while driving.

Child Restraint

Everyone in your vehicle needs to be buckled up all the time, babies and children, too. Every state in the United States and all Canadian provinces require that small children ride in proper restraint systems. This is the law, and you can be prosecuted for ignoring it.

Children 12 years and under should ride properly buckled up in a rear seat, if available. According to crash statistics, children are safer when properly restrained in the rear seats rather than in the front.

WARNING!

In a collision, an unrestrained child, even a tiny baby, can become a missile inside the vehicle. The force required to hold even an infant on your lap could become so great that you could not hold the child, no matter how strong you are. The child and others could be badly injured. Any child riding in your vehicle should be in a proper restraint for the child's size.

Infants and Small Children

There are different sizes and types of restraints for children from newborn size to the child almost large enough for an adult safety belt. Use the restraint that is correct for your child:

- The rearward-facing infant carrier is for babies weighing up to about 20 lbs. (9 kg.), and less than one year old. The infant carrier must NEVER be used in the front seat of a vehicle with a passenger side airbag. An airbag deployment could cause severe injury or death to infants in this position. The infant carrier is held in the vehicle by the rear seat lap/shoulder belt or the LATCH child restraint anchorage system.
- Children under one year of age should continue to ride in a rear-facing infant seat, even if they weigh more than 20 lbs. (9 kg). A "convertible" child seat, one that is designed to be used either rearward-facing or forward-facing, should be used for children who are too heavy for the infant carrier, but who are too young to face forward in the vehicle.
- The forward-facing child seat is for children from about 20 lbs. to 40 lbs. (9 to 18 kg.), and at least one year old. The child seat is held in the vehicle's rear seat by the lap/shoulder belt or the LATCH child restraint anchorage system.
- The belt-positioning booster seat is for children weighing more than 18 kg. (40 lbs.). The child and booster seat are held in the vehicle by the lap/shoulder belt. (Some booster seats are equipped with a front shield and are held in the vehicle by the lap portion or lap belt.)

WARNING!

- **Improper installation can lead to failure of an infant or child restraint. It could come loose in a collision. The child could be badly injured or killed. Follow the manufacturer's directions exactly when installing an infant or child restraint.**
- **A rearward facing infant restraint should only be used in a rear seat. A rearward facing infant restraint in the front seat may be struck by a deploying passenger airbag which may cause severe or fatal injury to the infant.**

Here are some tips on getting the most out of your child restraint:

- Before buying any restraint system, make sure that it has a label certifying that it meets all applicable Safety Standards. We also recommend that you make sure that you can install the child restraint in the vehicle where you will use it before you buy it.
- The restraint must be appropriate for your child's weight and height. Check the label on the restraint for weight and height limits.
- Carefully follow the instructions that come with the restraint. If you install the restraint improperly, it may not work when you need it.
- The passenger seat belts are equipped with cinching latch plates which are designed to keep the lap portion tight around the child restraint so that it is not necessary to use a locking clip. Pulling up on the shoulder portion of the lap/shoulder belt will tighten the belt. The cinching latch plate will keep the belt tight, however, any seat belt system will loosen with time, so check the belt occasionally and pull it tight if necessary.
- In the rear seat, you may have trouble tightening the lap/shoulder belt on the child restraint because the buckle or latch plate is too close to the belt path opening on the restraint. Disconnect the latch plate from the buckle and twist the short buckle-end belt several times to shorten it. Insert the latch plate into the buckle with the release button facing out.
- If the belt still can't be tightened, or if by pulling and pushing on the restraint loosens the belt, you may need to do something more. Disconnect the latch plate from the buckle, turn the buckle around, and insert the latch plate into the buckle again. If you still can't make the child restraint secure, try a different seating position.
- Buckle the child into the seat according to the child restraint manufacturer's directions.
- When your child restraint is not in use, secure it in the vehicle with the seat belt or remove it from the vehicle. Do not leave it loose in the vehicle. In a sudden stop or collision, it could strike the occupants or seat backs and cause serious personal injury.

LATCH —L ower Anchors and Tether for CHildren

Your vehicle's rear seat is equipped with the child restraint anchorage system called LATCH, which stands

for Lower Anchors and Tether for Children. The LATCH system provides for the installation of the child restraint without using the vehicle seat belt. All three rear seating positions have exclusive lower anchorages. These are round bars, located at the rear of the seat cushion where it meets the seat back, and just visible when you lean into the rear seat to install the child restraint. You will easily feel them if you run your finger along the intersection of the surfaces. The lower strap hooks are passed over the top of each bar, pushing aside the seat cover material.



In addition, there are tether strap anchorages behind each rear seating position located in the panel between the rear seat back and the rear window — under a hinged plastic cover with this symbol on it. (Shown to the left) In recent years, only the tether anchorage has been provided in new vehicles.

Child restraint systems having attachments designed to connect to the lower anchorages are now available. Child restraints having tether straps and hooks for connection to the top tether anchorage have been available for some time. In fact, many child restraint manufacturers will provide add-on tether strap kits for some of their older products. Tether anchorage kits are also available for most older vehicles.

Because the lower anchorages are to be introduced to passenger carrying vehicles over a period of years, child restraint systems having attachments for those anchorages will continue to have features for installation in vehicles using the lap or lap/shoulder belt. They will also have tether straps, and you are urged to take advantage of all of the available attachments provided with your child restraint in any vehicle.

Installing the Child Restraint System

We urge that you carefully follow the directions of the manufacturer when installing your child restraint. Many, but not all, restraint systems will be equipped with separate straps on each side, with each having a hook or connector and a means for adjusting the tension in the strap. Forward-facing toddler restraints and some rearward-facing infant restraints will also be equipped with a tether strap, a hook and means for adjusting the tension in the strap.

In general, you will first loosen the adjusters on the lower straps and tether straps so that you can more easily attach the hook or connector to the lower anchorages and tether anchorages. Then tighten all three straps as you push the child restraint rearward and downward into the seat.

Not all child restraint systems will be installed as we have described here. Again, carefully follow the instructions that come with the child restraint system.

WARNING!

Improper installation of a child restraint to the LATCH anchorages can lead to failure of an infant or child restraint. The child could be badly injured or killed. Follow the manufacturer's directions exactly when installing an infant or child restraint.

Children Too Large For Booster Seats

Children who are large enough to wear the shoulder belt comfortably, and whose legs are long enough to bend over the front of the seat when their back is against the seat back, should use the lap/shoulder belt in a rear seat.

- Make sure that the child is upright in the seat.
- The lap portion should be low on the hips and as snug as possible.
- Check belt fit periodically. A child's squirming or slouching can move the belt out of position.
- If the shoulder belt contacts the face or neck, move the child closer to the center of the vehicle. Never allow a child to put the shoulder belt under an arm or behind their back.

Transporting Pets

Airbags deploying in the front seat could harm your pet. An unrestrained pet will be thrown about and possibly injured, or injure a passenger during panic braking or in a collision.

Pets should be restrained in the rear seat in pet harnesses or pet carriers that are secured by seat belts.

APPENDIX F

CHILD SEAT

POST-TEST OBSERVATIONS

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

	Left Rear Passenger	Right Rear Passenger
Child Seat	COSCO TRIAD	COSCO TRIAD
Child Seat Mass (kg)	4.5	4.5
Belt Fraying	None	None
Stress Marks	Yes	Yes
Cracks	Yes	Yes
Buckle Stress	None	None
Latch Hooks	Yes	Yes
Contact	None	None

HYBRID III 3 YEAR OLD ATD INJURY CRITERIA AND SENSOR DATA

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

HEAD PRIMARY PEAK ACCELERATIONS

Location	Axis	Units	Left Rear Passenger				Right Rear Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Head CG	X	G's	32.8	212	37.2	103	48.9	209	25.3	79
Head CG	Y	G's	2.3	63	11.9	102	1.4	69	3.5	198
Head CG	Z	G's	63.4	83	7.5	37	55.2	81	10.4	53
Head CG Resultant	N/A	G's	67.6	82			60.3	81		

CHEST PRIMARY PEAK ACCELERATIONS

Location	Axis	Units	Left Rear Passenger				Right Rear Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Chest CG	X	G's	6.0	224	33.0	83	11.2	187	37.0	78
Chest CG	Y	G's	4.1	172	9.7	90	2.1	206	1.5	55
Chest CG	Z	G's	24.8	92	34.1	66	16.2	93	38.0	61
Chest CG Resultant	N/A	G's	46.0	63			44.7	62		

HEAD INJURY CRITERIA (HIC)

Location	Left Rear Passenger				Right Rear Passenger			
	HIC	Avg G's	T^1	T^2	HIC	Avg G's	T^1	T^2
Head CG Primary (36 msec)	760	53.7	68.6	104.6	631	49.8	68.3	104.3
Head CG Primary (15 msec)	463	62.5	77.2	92.2	368	57.0	78.0	93.0

CHEST CLIP (3 MSEC)

Location	Left Rear Passenger			Right Rear Passenger		
	Clip	T^1	T^2	Clip	T^1	T^2
Chest CG Primary	45.2	62.2	65.3	44.4	60.7	63.8

HYBRID III 3 YEAR OLD ATD INJURY CRITERIA AND SENSOR DATA...(continued)

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

PELVIC PEAK ACCELERATIONS

Location	Axis	Units	Left Rear Passenger				Right Rear Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Pelvis	X	G's	11.0	120	39.7	66	8.9	128	35.6	66
Pelvis	Y	G's	6.1	94	6.3	74	5.2	80	6.6	61
Pelvis	Z	G's	13.3	102	40.9	64	13.8	212	42.4	66

UPPER NECK PEAK FORCES AND MOMENTS

Location	Axis	Units	Left Rear Passenger				Right Rear Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Neck Force	X	Newtons	6	250	57	80	154	192	609	80
Neck Force	Y	Newtons	47	174	190	87	25	116	28	198
Neck Force	Z	Newtons	1794	84	202	37	1778	86	270	53
Neck Moment	X	N"m	3.3	228	12.8	90	2.9	135	2.3	247
Neck Moment	Y	N"m	7.6	88	11.7	224	6.5	73	9.8	218
Neck Moment	Z	N"m	3.4	105	1.7	247	*	*	*	*

LOWER NECK PEAK FORCES AND MOMENTS

Location	Axis	Units	Left Rear Passenger				Right Rear Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Neck Force	X	Newtons	258	210	961	85	313	201	1125	87
Neck Force	Y	Newtons	104	73	67	95	64	64	35	238
Neck Force	Z	Newtons	1029	84	303	53	868	201	508	52
Neck Moment	X	N"m	6.2	223	43.0	93	3.0	137	5.1	76
Neck Moment	Y	N"m	113.6	92	15.5	210	117.1	85	17.3	205
Neck Moment	Z	N"m	3.2	127	16.7	89	2.5	137	2.3	71

CHEST PEAK DISPLACEMENTS

Location	Axis	Units	Left Rear Passenger				Right Rear Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Chest CG	X	mm			17.5	100			16.7	102

* No Valid Data Collected

DUMMY DIMENSIONS

Test Vehicle: 2001/Dodge/Stratus/4 door NHTSA No.: M10313

Test Program: NCAP Test Date: January 18, 2001

Code	Measurement Description	Left Rear Passenger	Right Rear Passenger
		Length (mm)	Length (mm)
HZ	Head to Roof (Z)	297	290
HSB	Head to Seat Back	702	719
HS	Head to Side Window (Y)	407	406
CC	Chin to Chest Clip	70	70
KSL	Knee to Seat Back Left	420	412
KSR	Knee to Seat Back Right	383	413
KK	Knee to Knee	132	126
AA	Ankle to Ankle	129	129

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Photo 1 - Pre-Test LRS 3 Year Old Left Side View



Photo 2 - Post-Test LRS 3 Year Old Left Side View



Photo 3 - Pre-Test LRS 3 Year Old Left Side View (Door Open)



Photo 4 - Post-Test LRS 3 Year Old Left Side View (Door Open)



Photo 5 - Pre-Test RRS 3 Year Old Right Side View



Photo 6 - Post-Test RRS 3 Year Old Right Side View



Photo 7 - Pre-Test RRS 3 Year Old Right Side View (Door Open)



Photo 8 - Post-Test RRS 3 Year Old Left Side View (Door Open)



Photo 9 - Pre-Test Child Seat Left Side View



Photo 10 - Post-Test Child Seat Left Side View



Photo 11 - Pre-Test Child Seat Right Side View



Photo 12 - Post-Test Child Seat Right Side View



Photo 13 - RRS Tether Bar

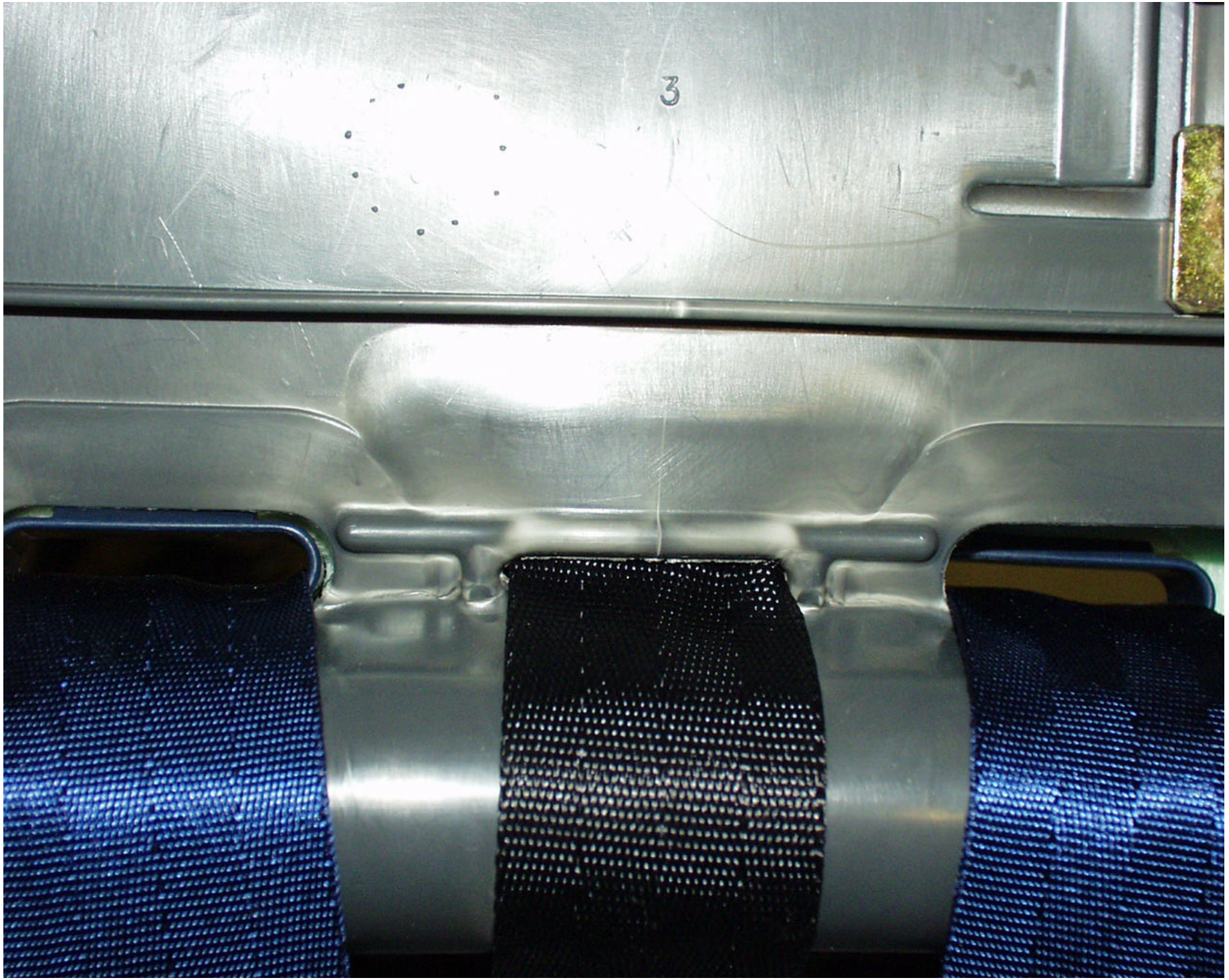


Photo 14 - RRS Stress/Cracking



Photo 15 - LRS Back Separation

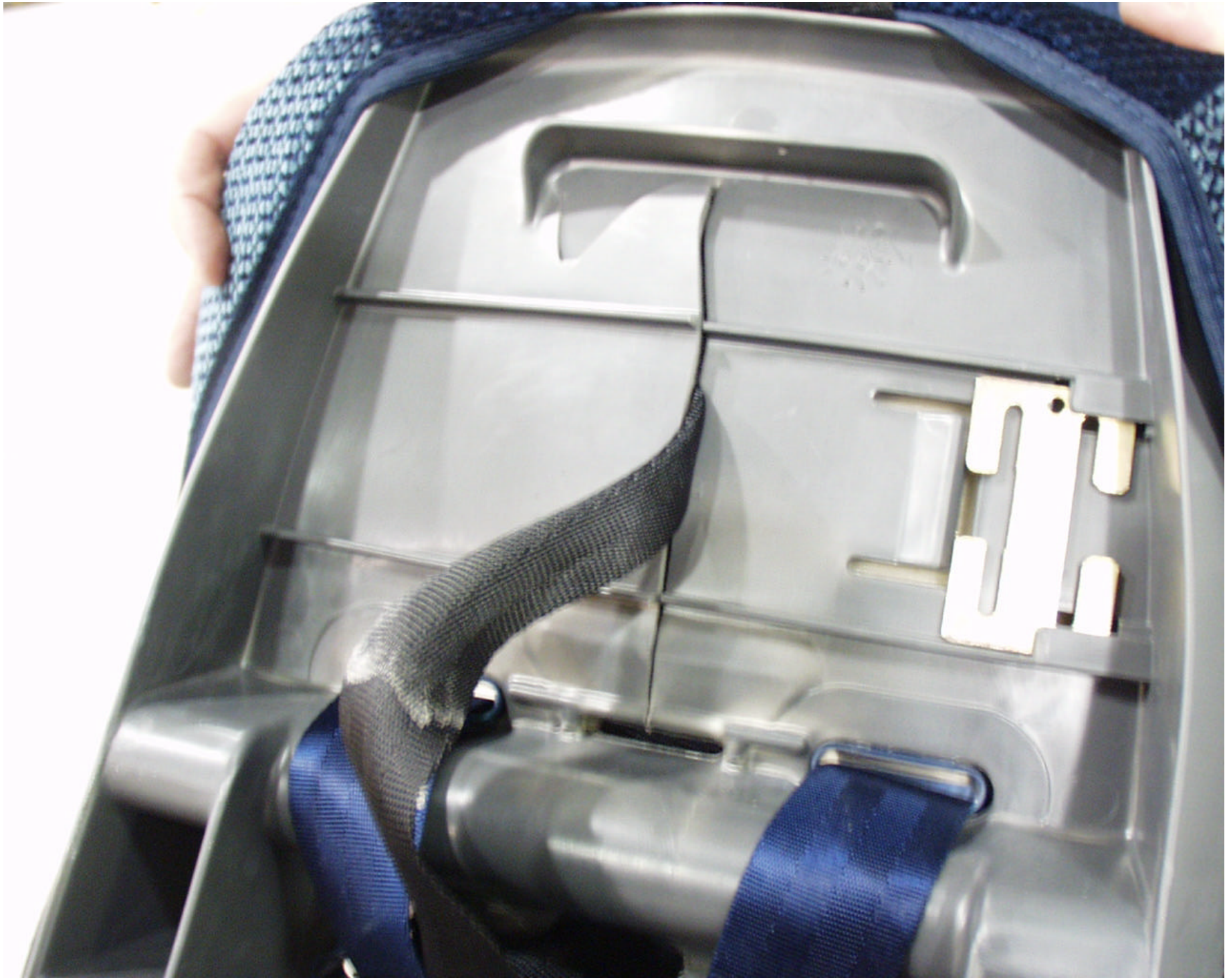


Photo 16 - LRS Back Separation (Close-up)



Photo 17 - LRS Stress Marks

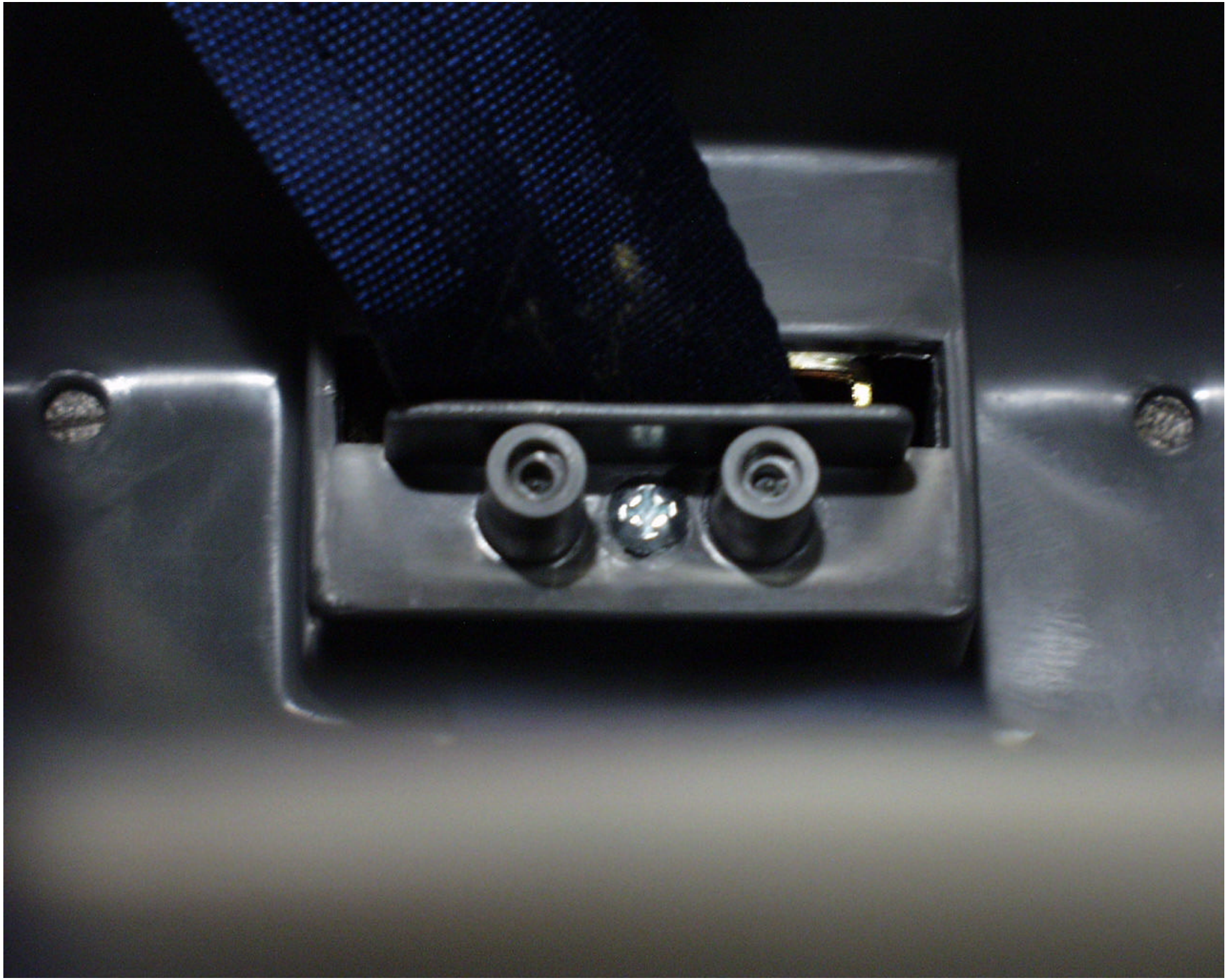


Photo 18 - LRS Stress Marks at Belt Tensioner

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* No Valid Data Collected

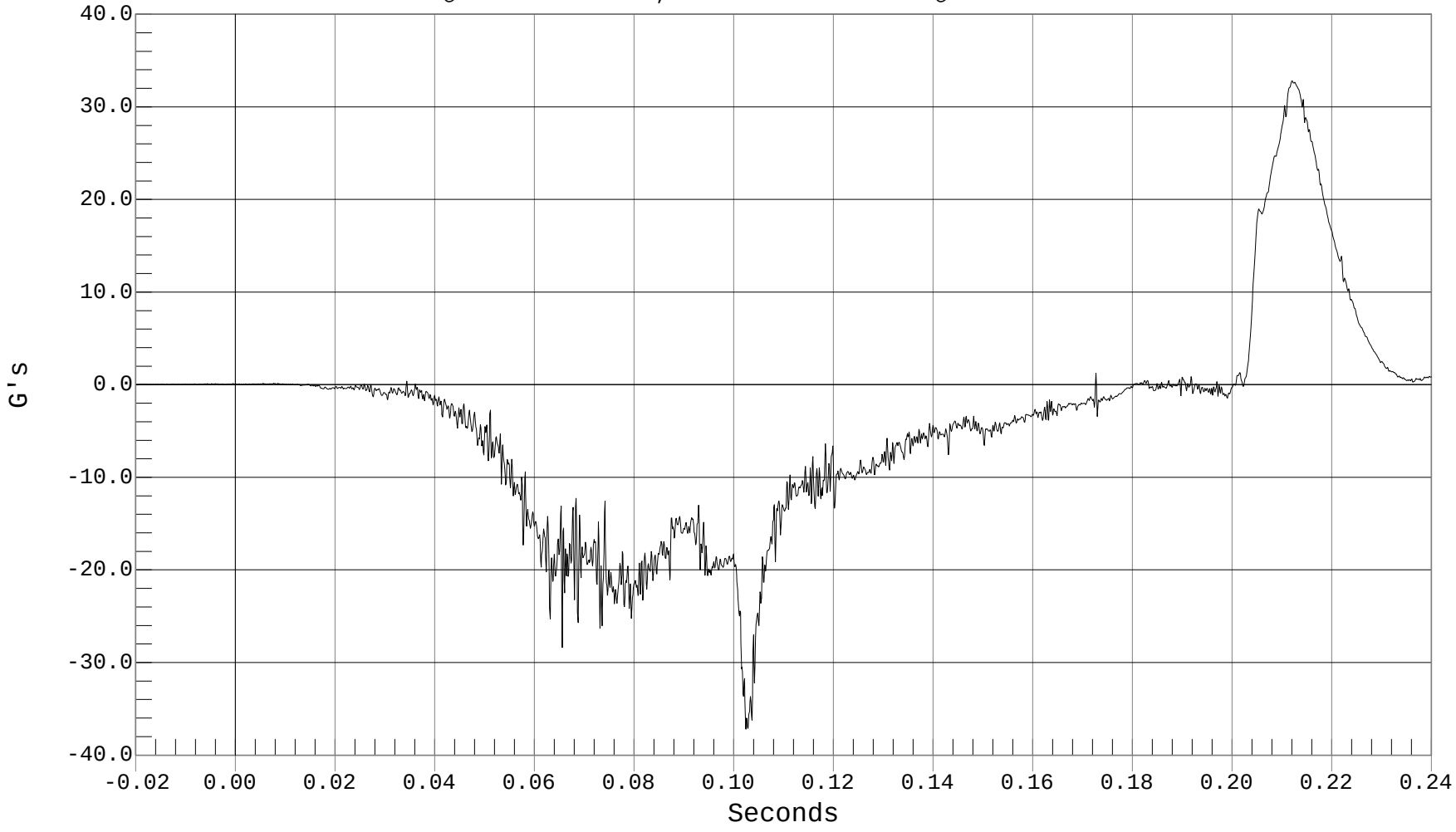
LRS 3 YR OLD HEAD X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 LRS CHILD HEAD X, b01005AT.A13

Ymin = -37.21 G's @ 0.1025 Seconds, Ymax = 32.82 G's @ 0.2121 Seconds



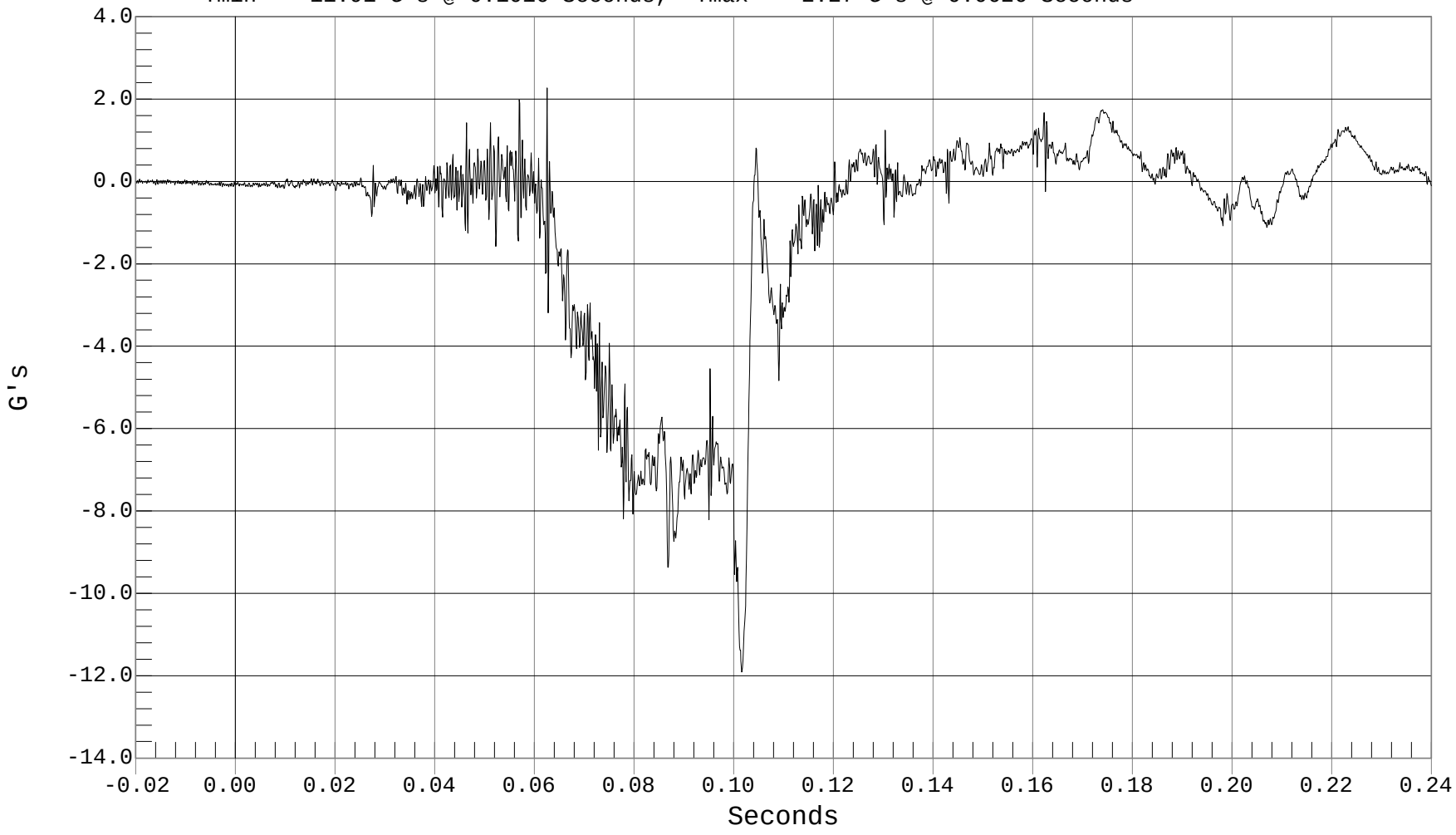
LRS 3 YR OLD HEAD Y ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 LRS CHILD HEAD Y, b01005AT.A14

Ymin = -11.91 G's @ 0.1016 Seconds, Ymax = 2.27 G's @ 0.0626 Seconds



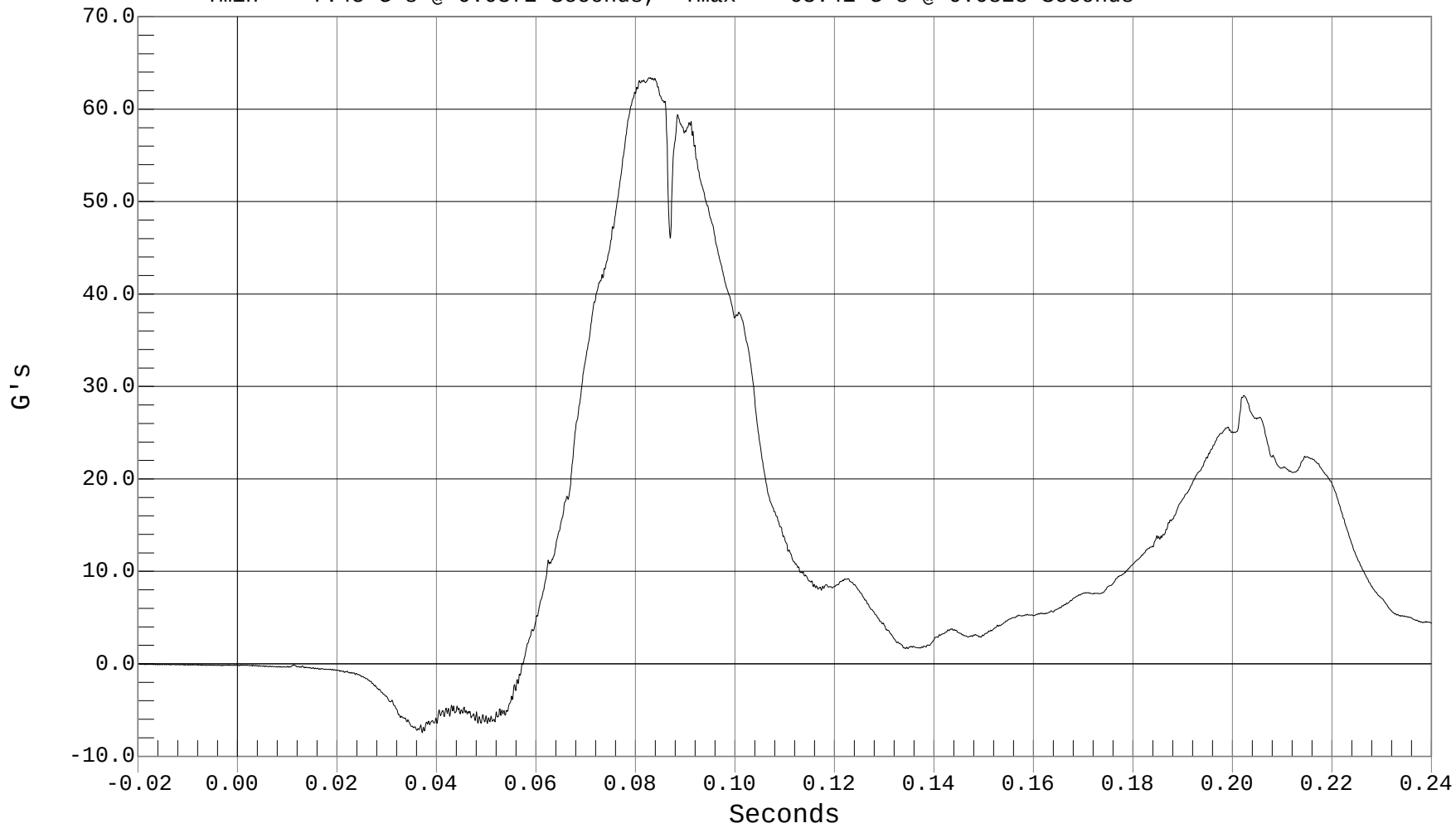
LRS 3 YR OLD HEAD Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 LRS CHILD HEAD Z, b01005AT.A15

Ymin = -7.45 G's @ 0.0372 Seconds, Ymax = 63.41 G's @ 0.0828 Seconds



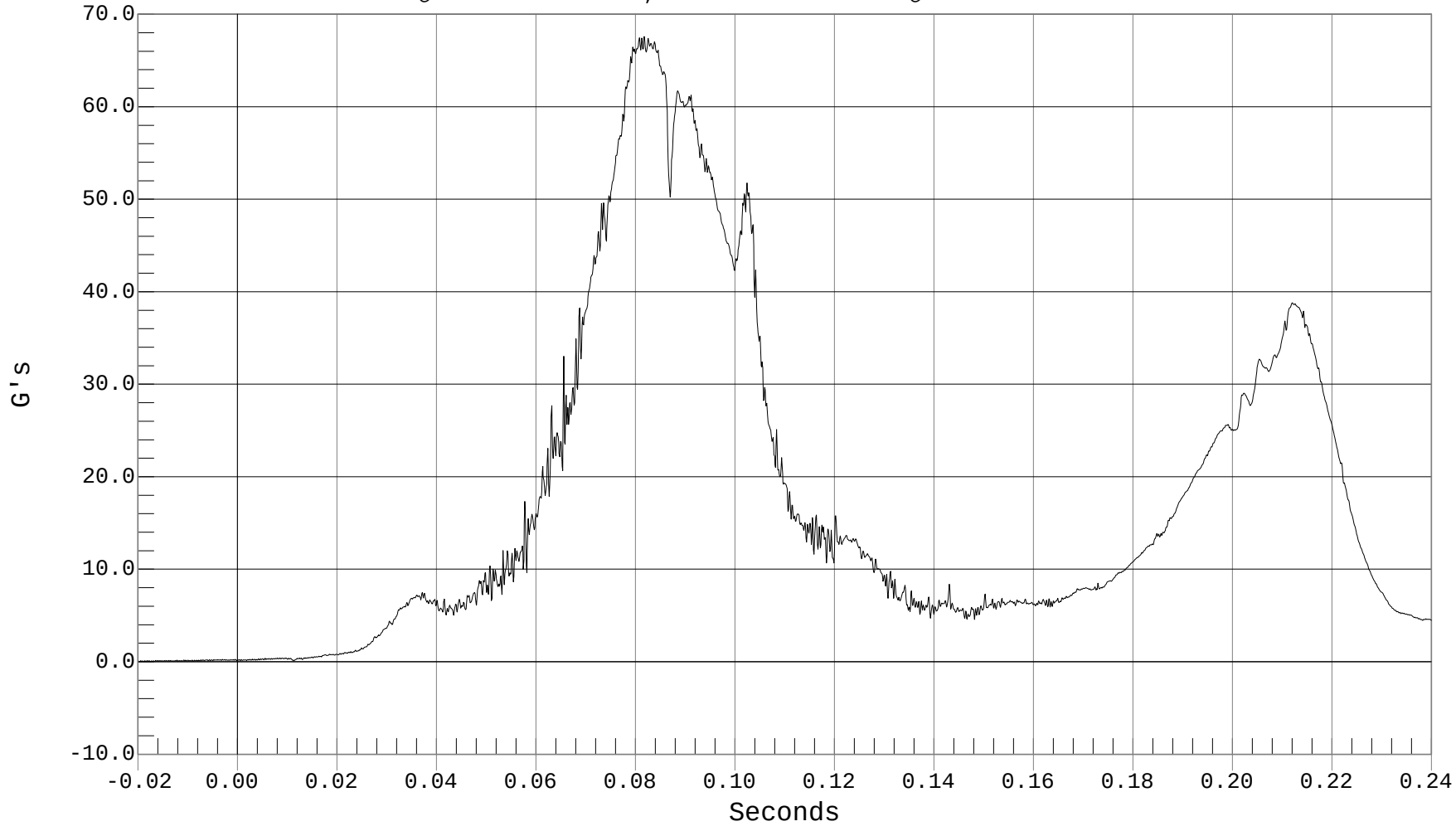
LRS 3 YR OLD HEAD RESULTANT ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 LRS 3 YR OLD HEAD RESULTANT ACCELERATION, b01005AV.A13

Ymin = .01 G's @ -0.0174 Seconds, Ymax = 67.6 G's @ 0.0818 Seconds



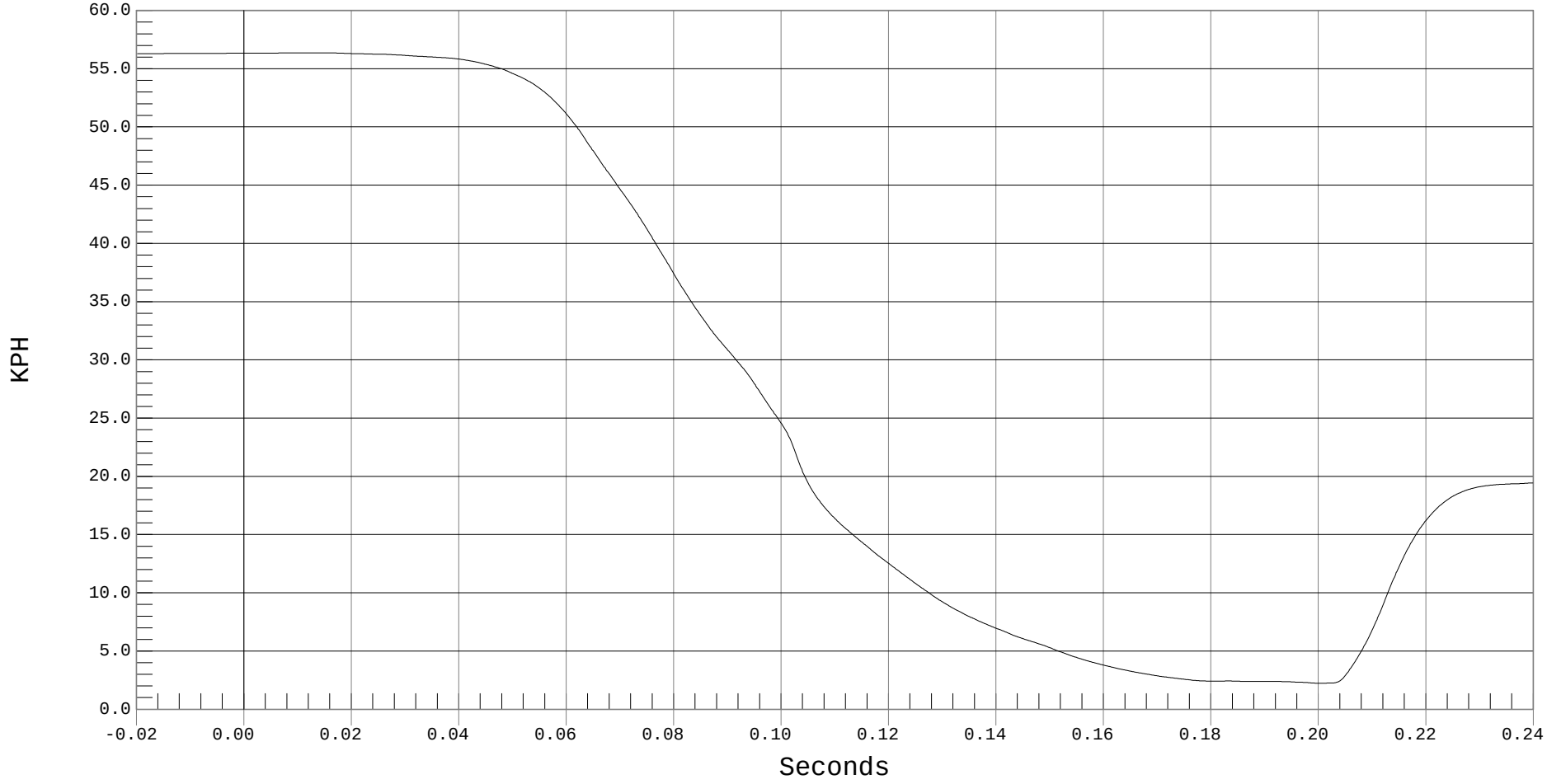
LRS 3 YR OLD HEAD X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 LRS 3 YR OLD HEAD X VELOCITY, B01005AI.V13

Ymin = 2.22 KPH @ 0.2003 Seconds, Ymax = 56.36 KPH @ 0.0125 Seconds



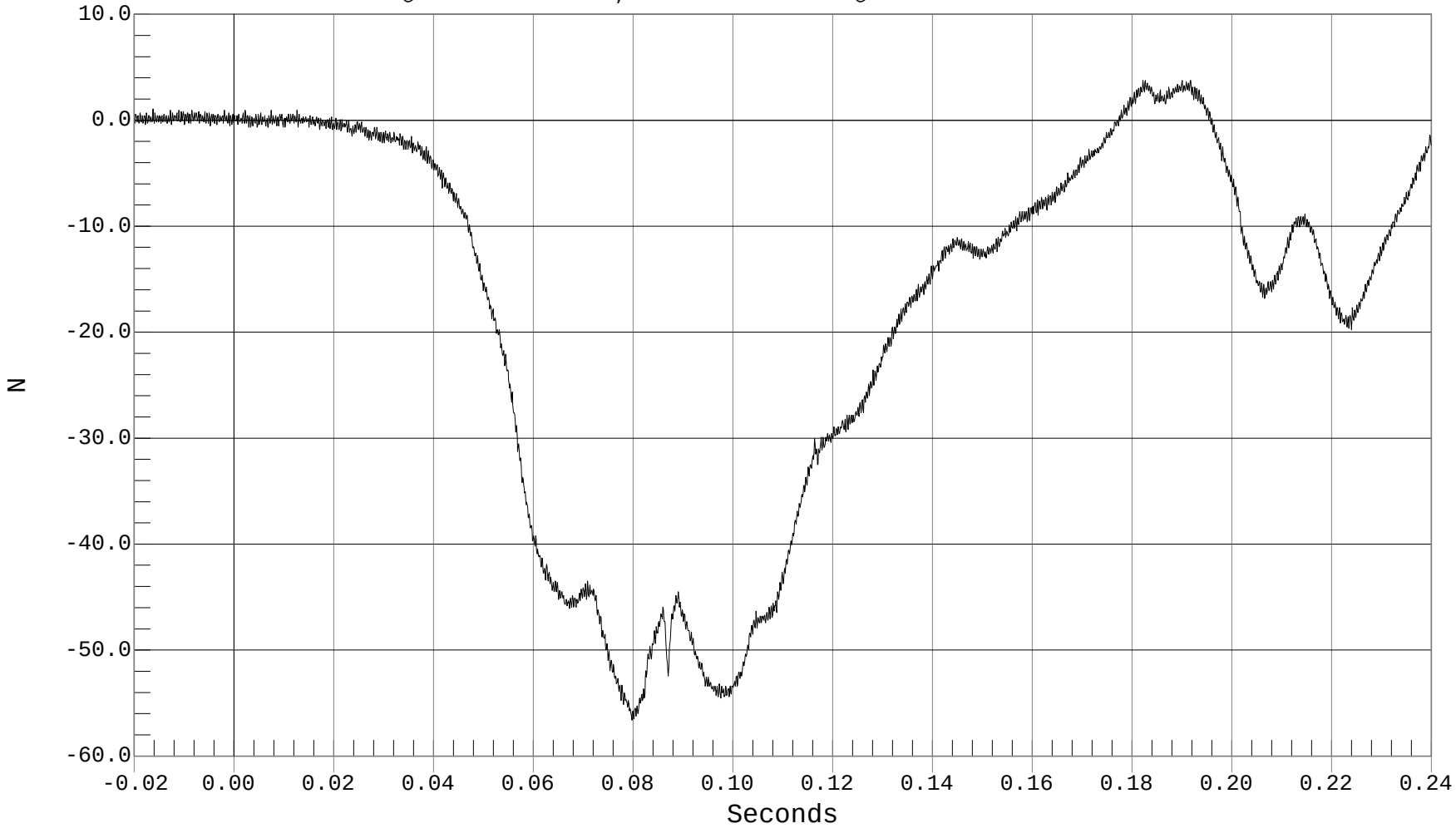
LRS 3 YR OLD UPPER NECK FORCE X

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 LRS CHILD UPPER NECK FORCE X, b01005FT.F16

Ymin = -56.6 N @ 0.0798 Seconds, Ymax = 5.95 N @ 0.2498 Seconds



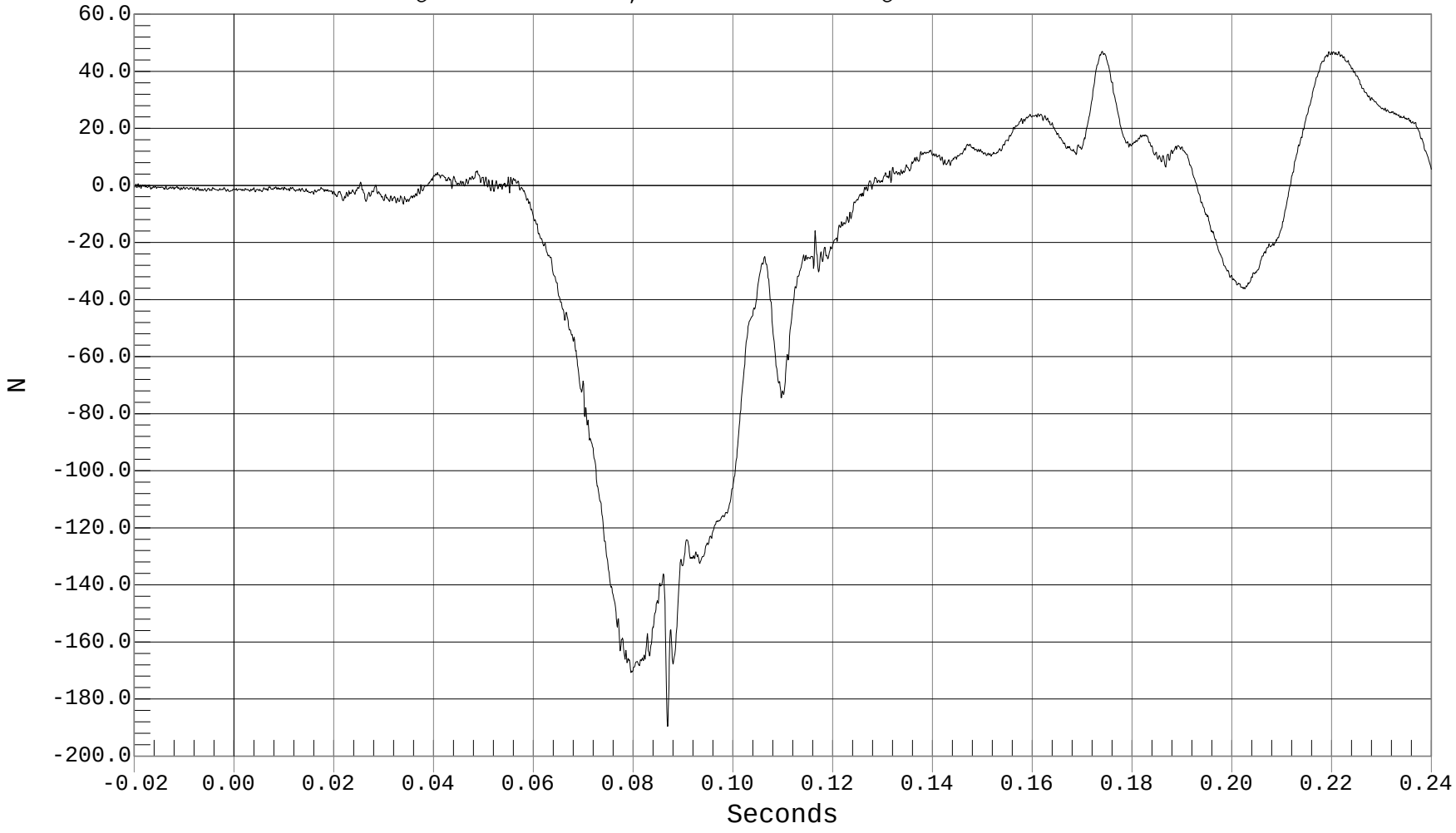
LRS 3 YR OLD UPPER NECK FORCE Y

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 LRS CHILD UPPER NECK FORCE Y, b01005FT.F17

Ymin = -189.6 N @ 0.0869 Seconds, Ymax = 46.96 N @ 0.1740 Seconds



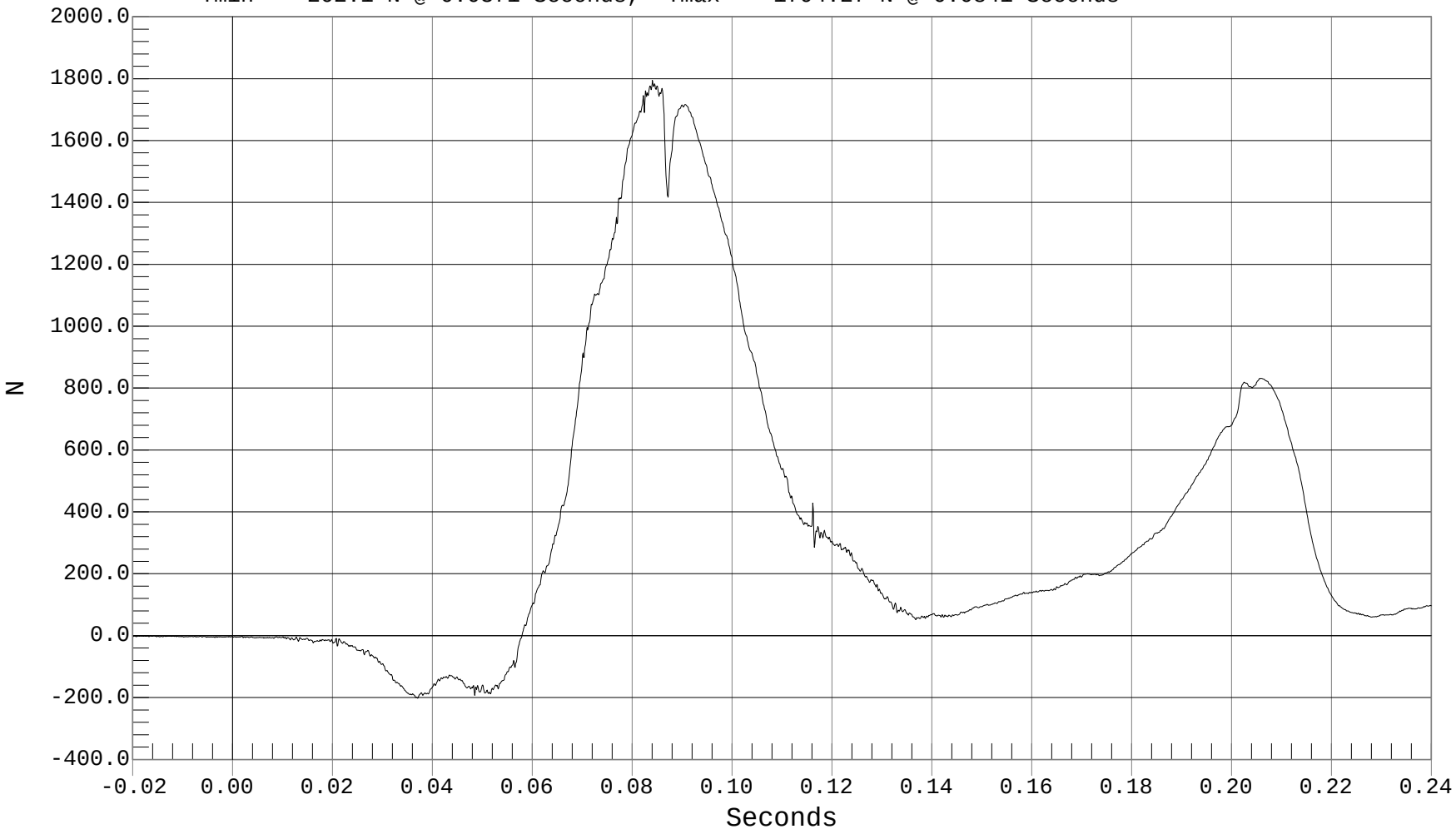
LRS 3 YR OLD UPPER NECK FORCE Z

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 LRS CHILD UPPER NECK FORCE Z, b01005FT.F18

Ymin = -202.1 N @ 0.0371 Seconds, Ymax = 1794.27 N @ 0.0841 Seconds



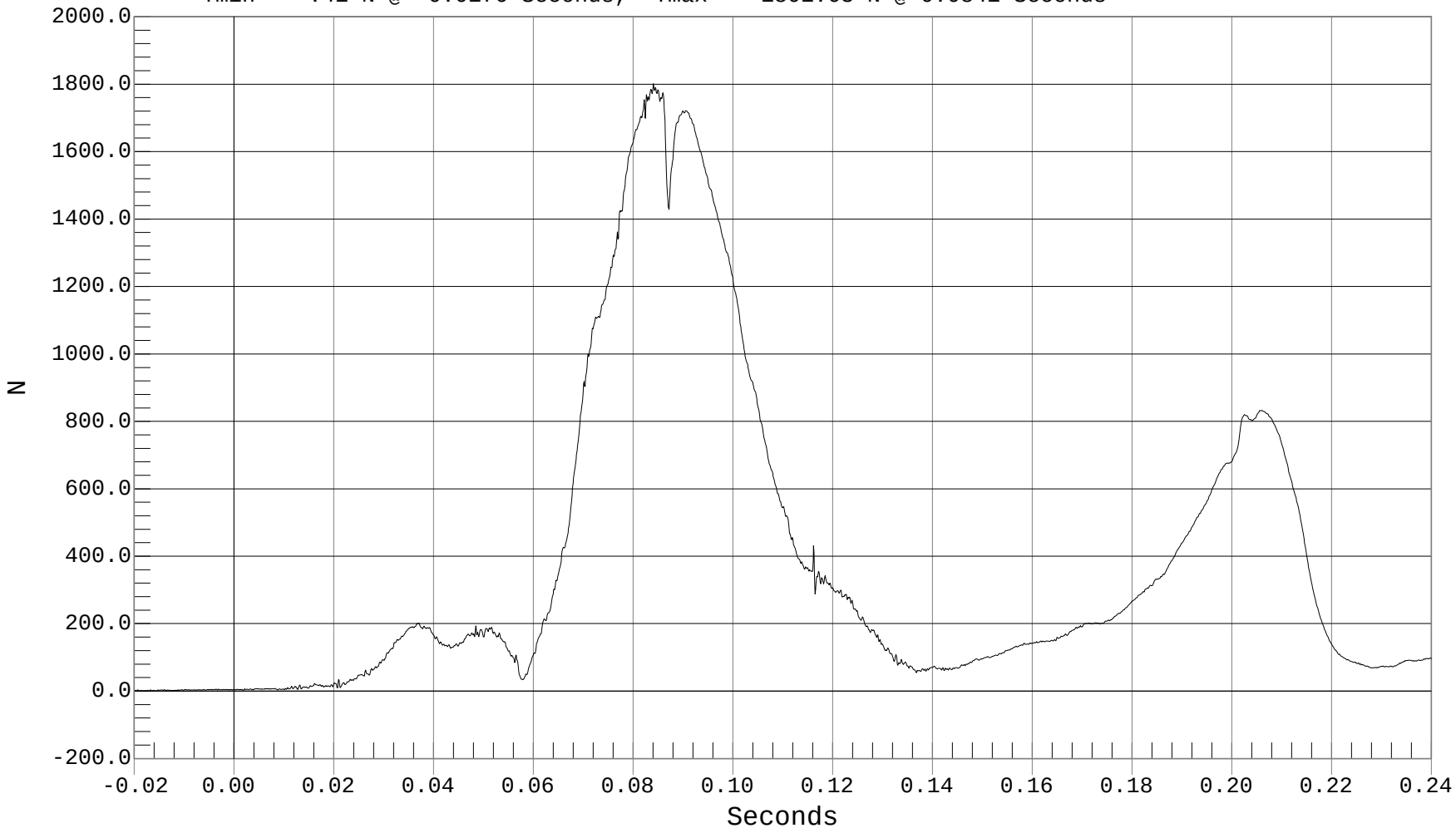
LRS 3 YR OLD UPPER NECK FORCE RESULTANT

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 LRS 3 YR OLD UPPER NECK FORCE RESULTANT, b01005FV.F16

Ymin = .41 N @ -0.0176 Seconds, Ymax = 1801.63 N @ 0.0841 Seconds



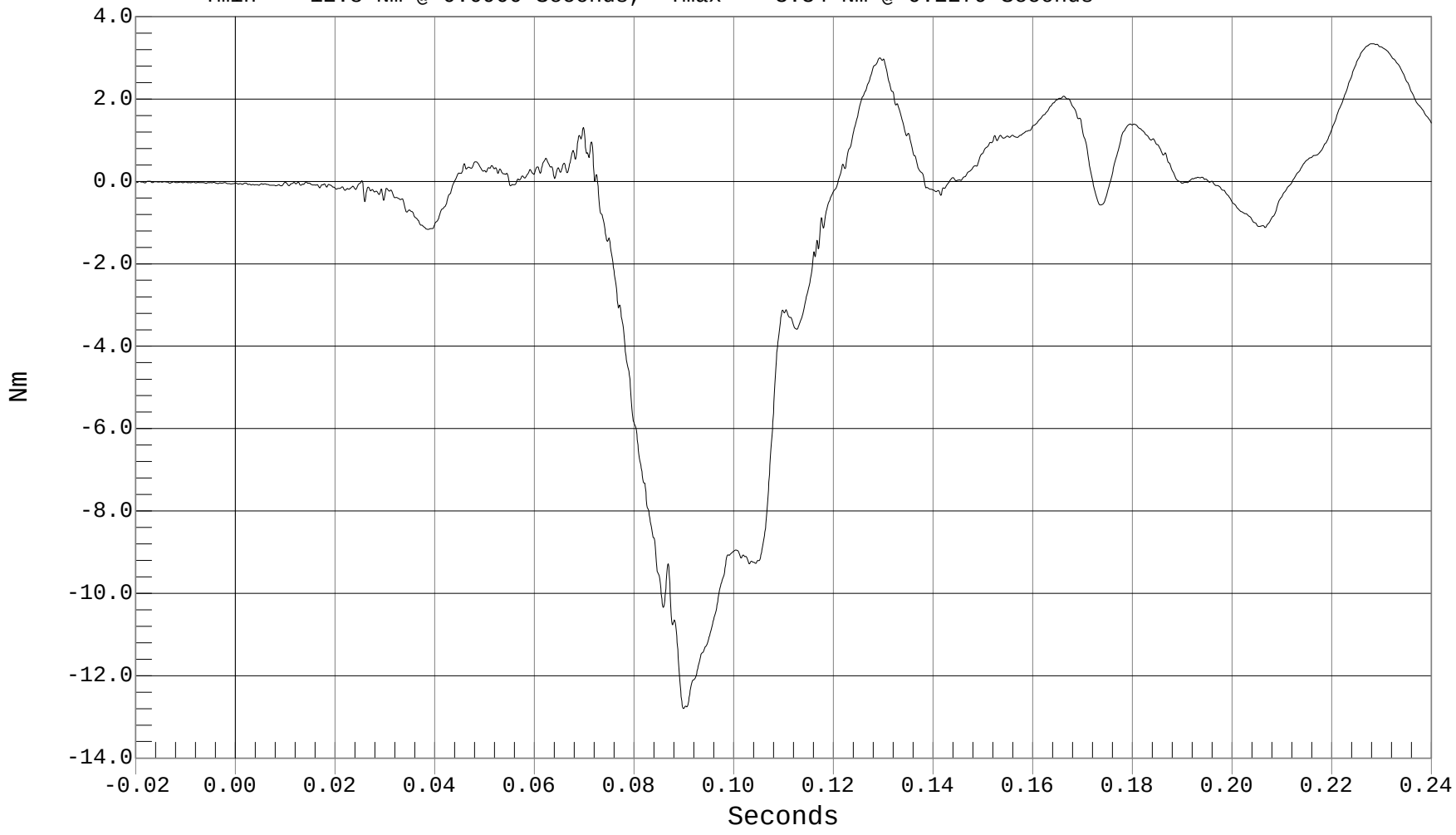
LRS 3 YR OLD UPPER NECK MOMENT X

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 LRS CHILD UPPER NECK MOMENT X, b01005MF.M19

Ymin = -12.8 Nm @ 0.0900 Seconds, Ymax = 3.34 Nm @ 0.2279 Seconds



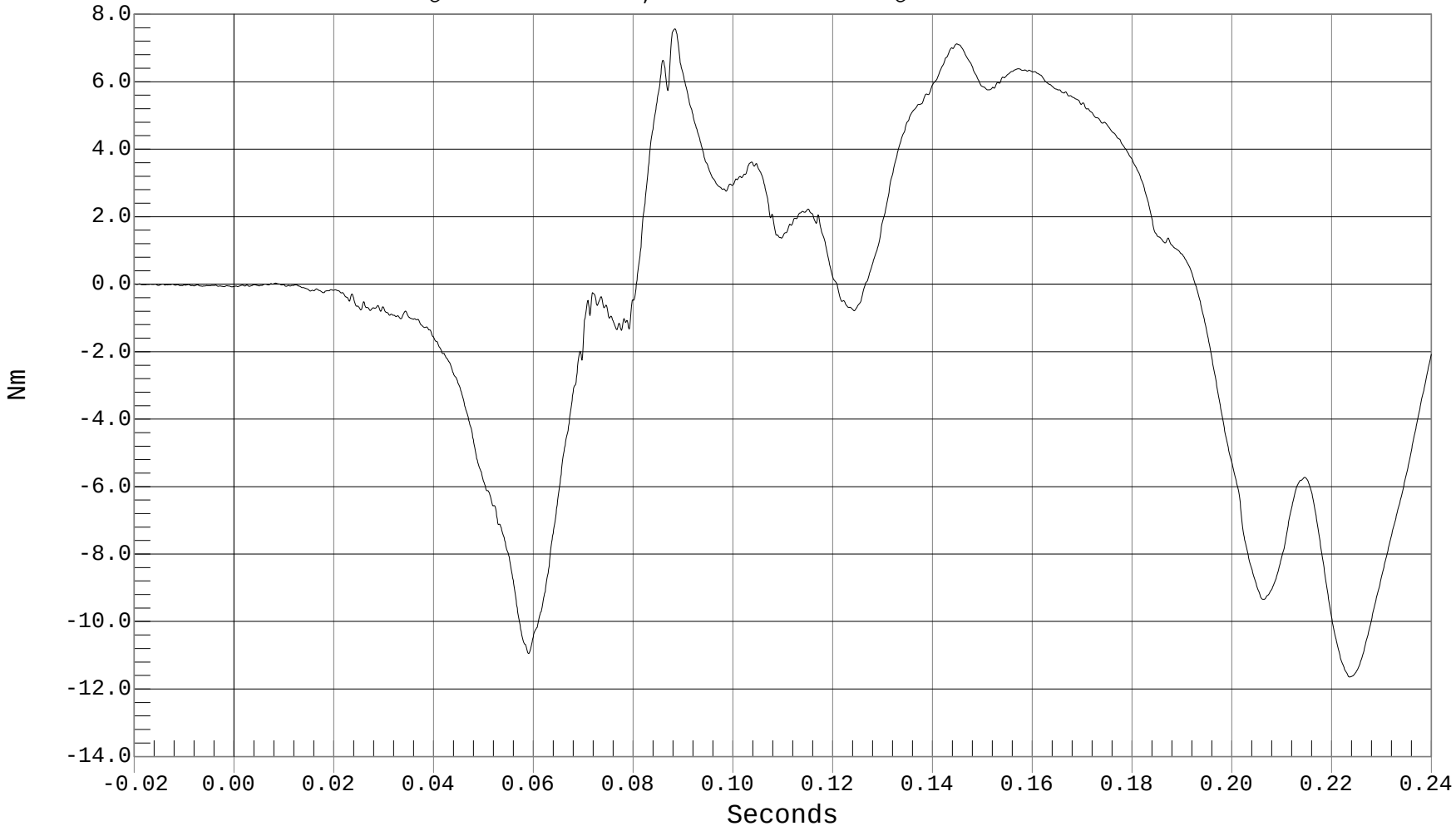
LRS 3 YR OLD UPPER NECK MOMENT Y

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 LRS CHILD UPPER NECK MOMENT Y, b01005MF.M20

Ymin = -11.65 Nm @ 0.2236 Seconds, Ymax = 7.57 Nm @ 0.0884 Seconds



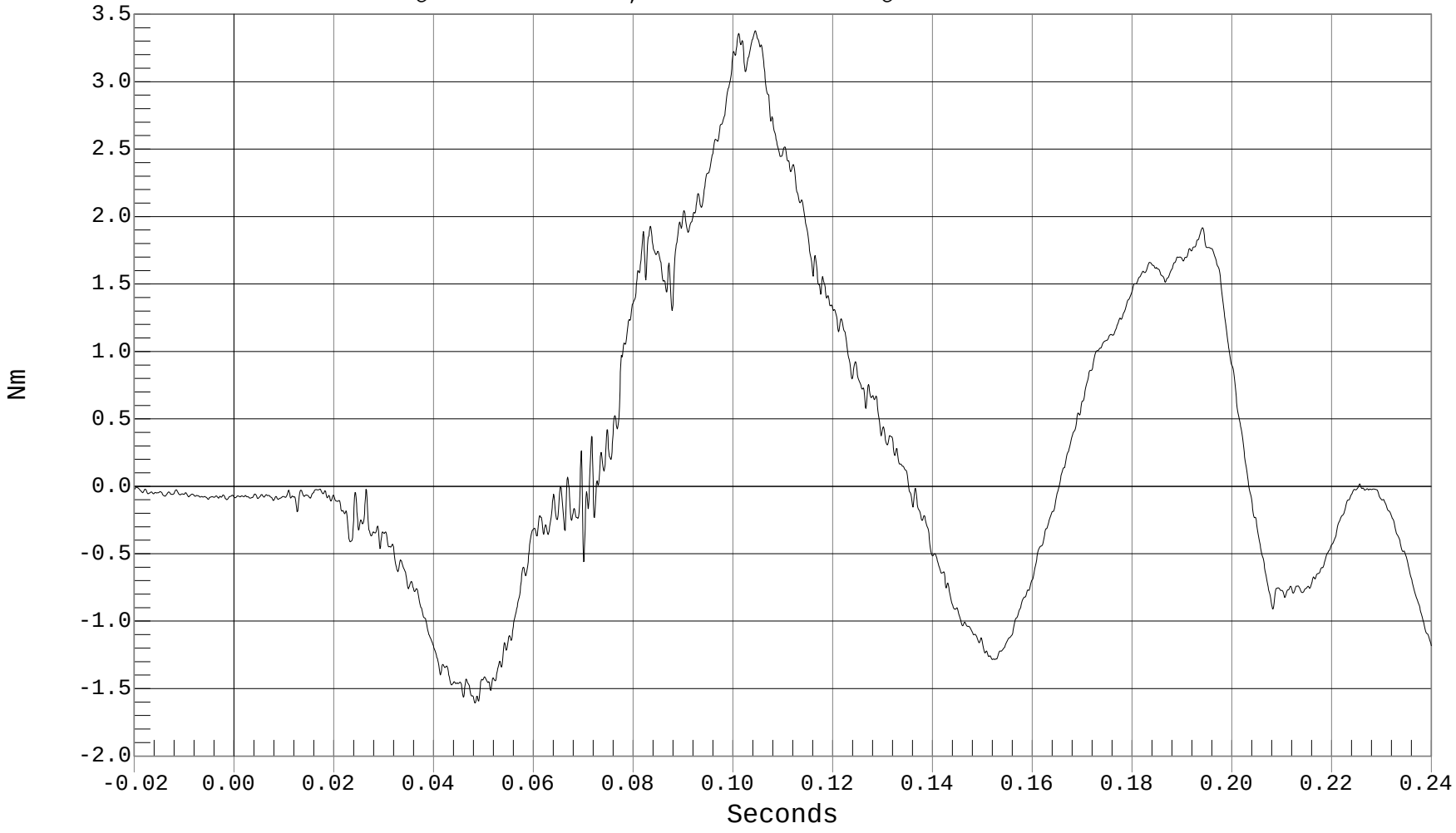
LRS 3 YR OLD UPPER NECK MOMENT Z

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 LRS CHILD UPPER NECK MOMENT Z, b01005MF.M21

Ymin = -1.74 Nm @ 0.2470 Seconds, Ymax = 3.38 Nm @ 0.1045 Seconds



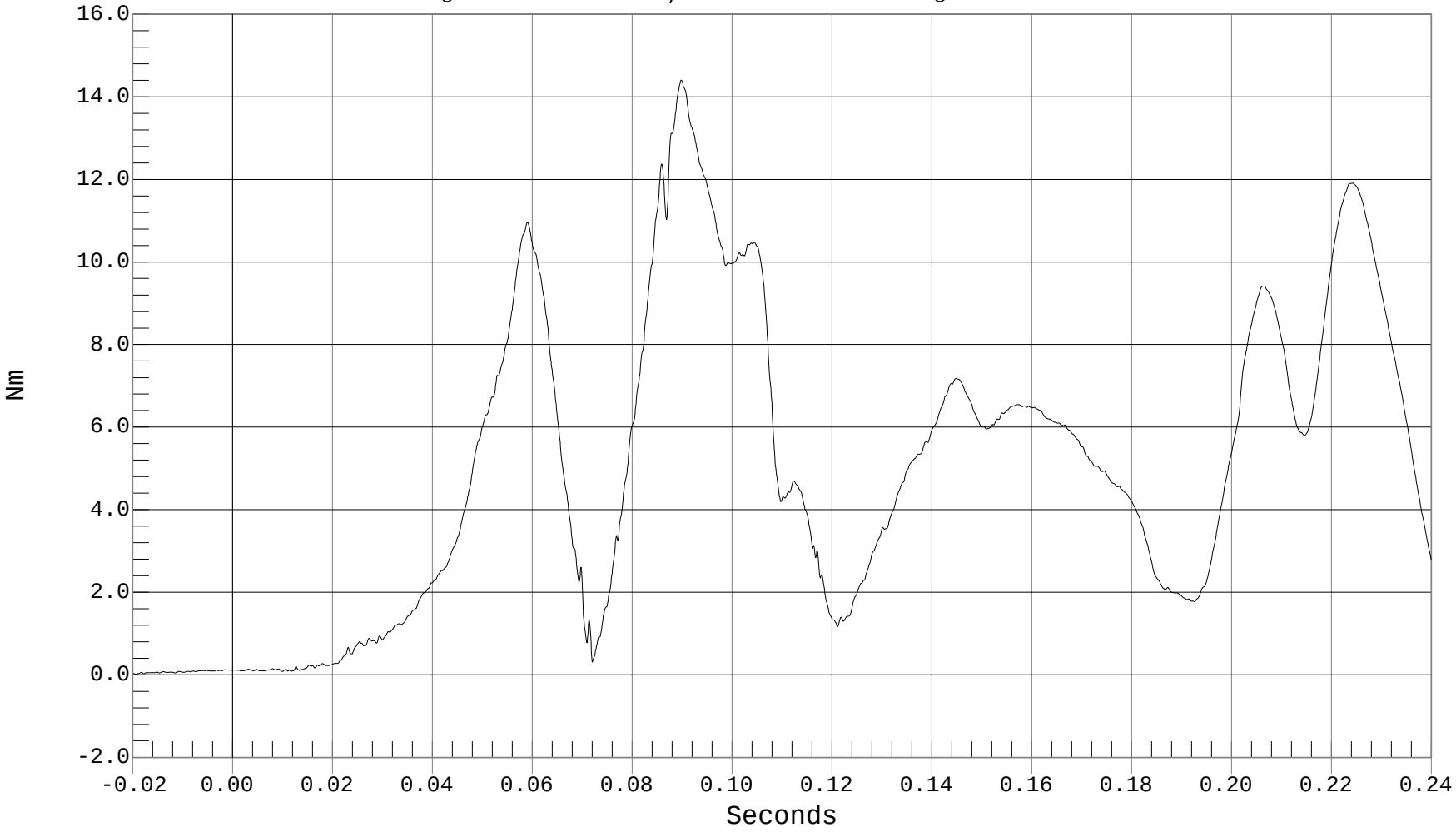
LRS 3 YR OLD UPPER NECK MOMENT RESULTANT

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 LRS 3 YR OLD UPPER NECK MOMENT RESULTANT, b01005MV.M19

Ymin = -0.015 Nm @ -0.0190 Seconds, Ymax = 14.41 Nm @ 0.090 Seconds



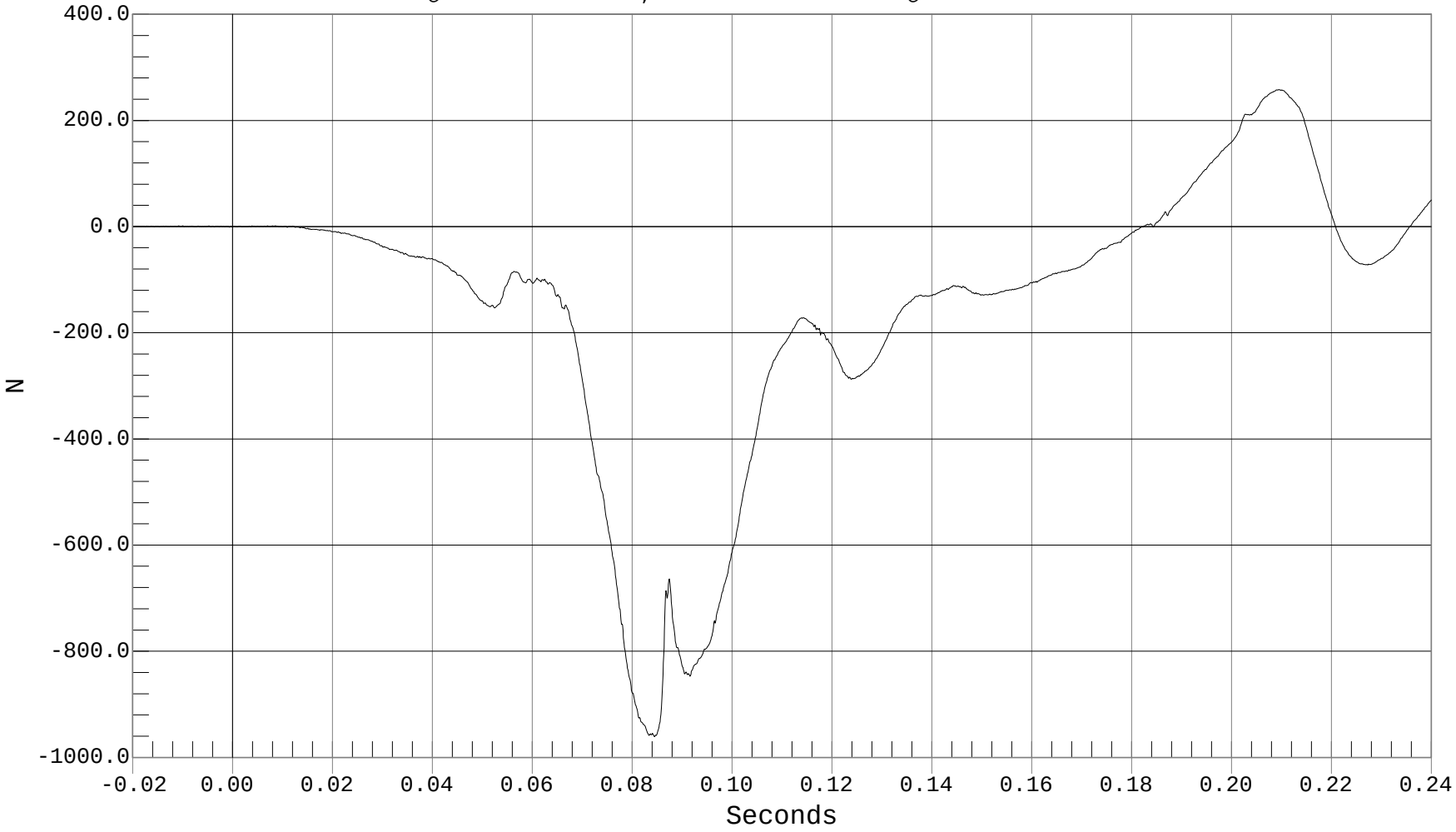
LRS 3 YR OLD LOWER NECK FORCE X

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 LRS CHILD LOWER NECK FORCE X, b01005FT.F22

Ymin = -960.77 N @ 0.0845 Seconds, Ymax = 258.06 N @ 0.2096 Seconds



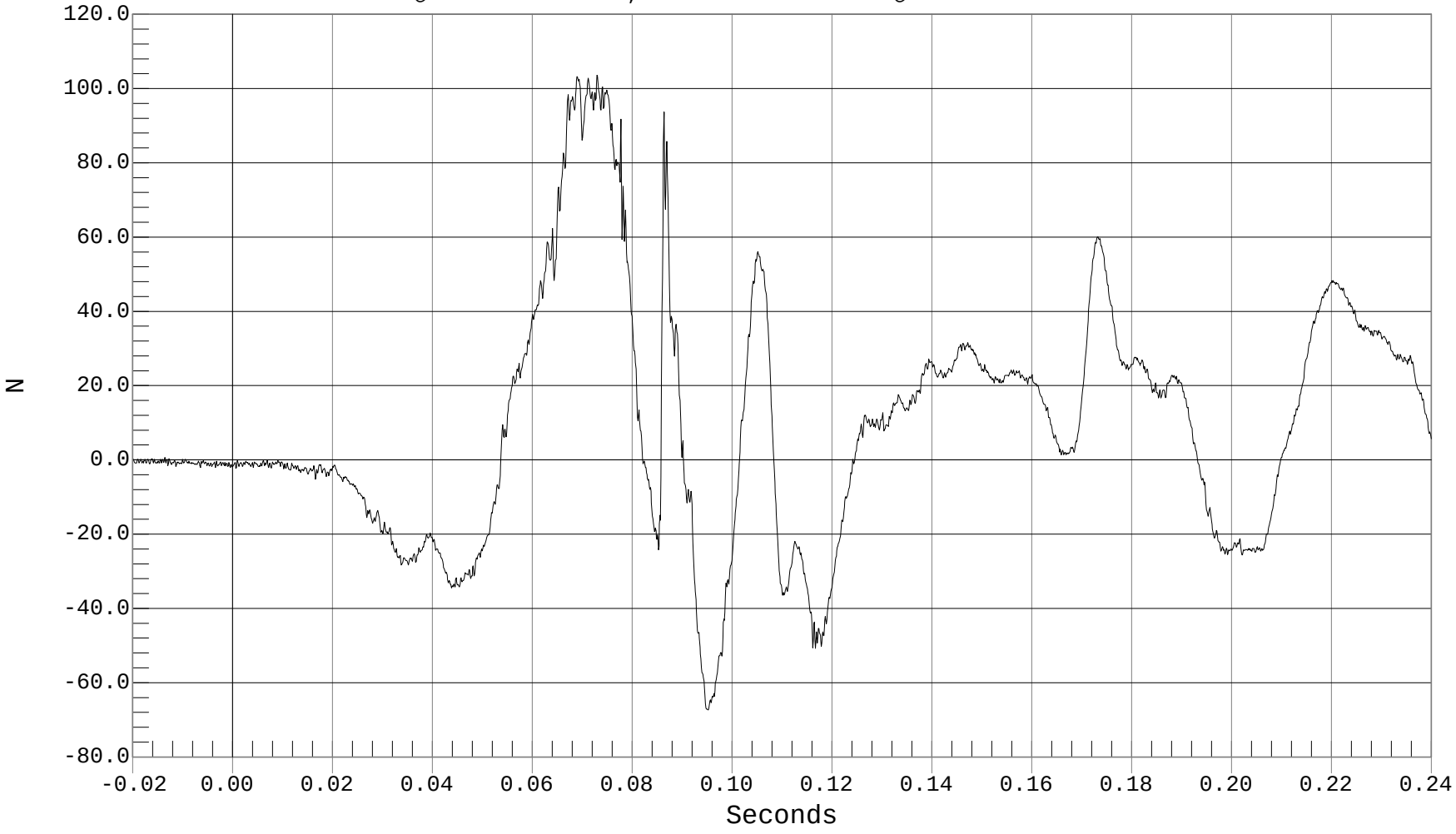
LRS 3 YR OLD LOWER NECK FORCE Y

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 LRS CHILD LOWER NECK FORCE Y, b01005FT.F23

Ymin = -67.34 N @ 0.0952 Seconds, Ymax = 103.63 N @ 0.0730 Seconds



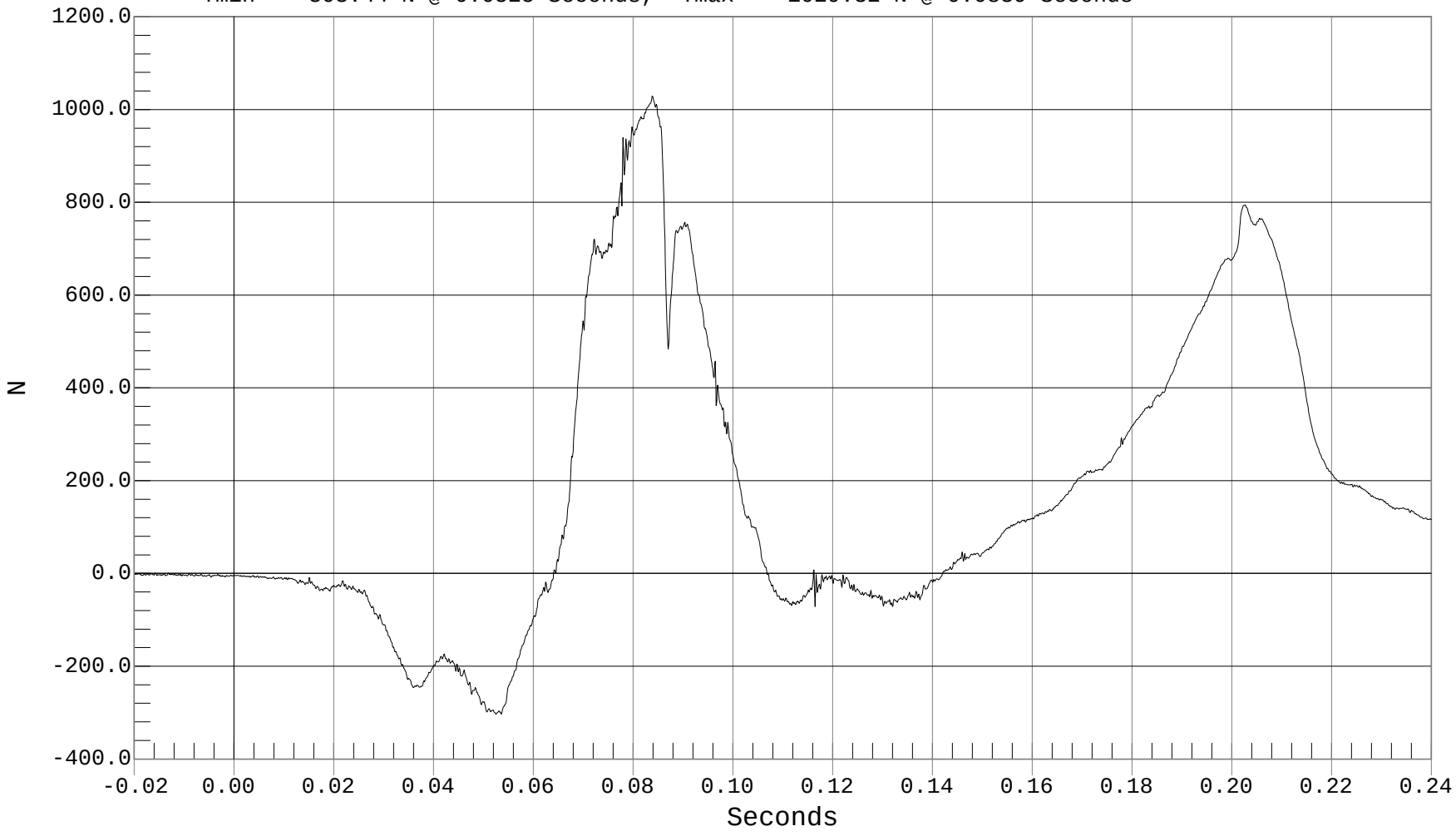
LRS 3 YR OLD LOWER NECK FORCE Z

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 LRS CHILD LOWER NECK FORCE Z, b01005FT.F24

Ymin = -303.44 N @ 0.0525 Seconds, Ymax = 1029.32 N @ 0.0839 Seconds



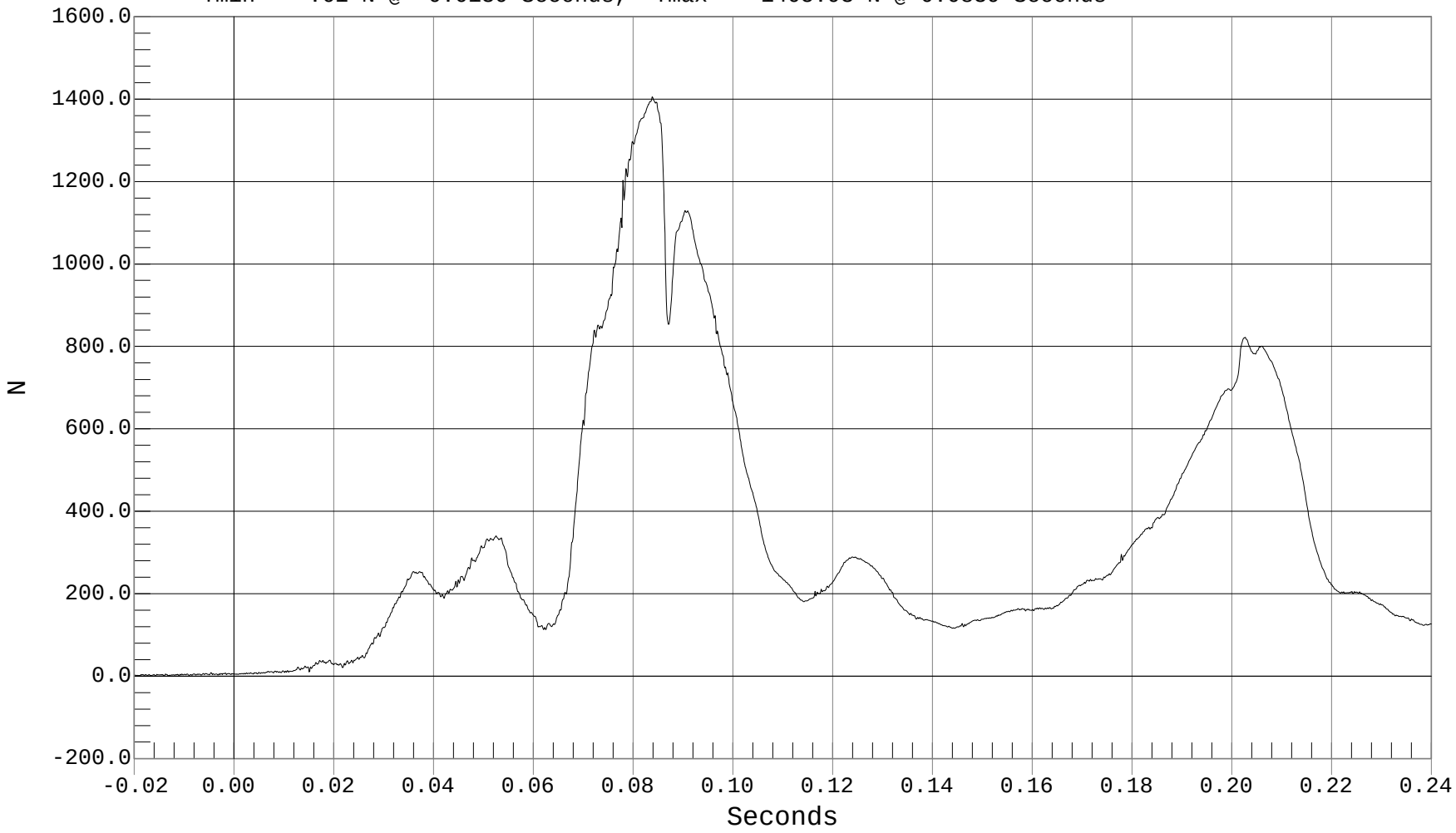
LRS 3 YR OLD LOWER NECK FORCE RESULTANT

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 LRS 3 YR OLD LOWER NECK FORCE RESULTANT, b01005FV.F22

Ymin = .61 N @ -0.0130 Seconds, Ymax = 1405.93 N @ 0.0839 Seconds



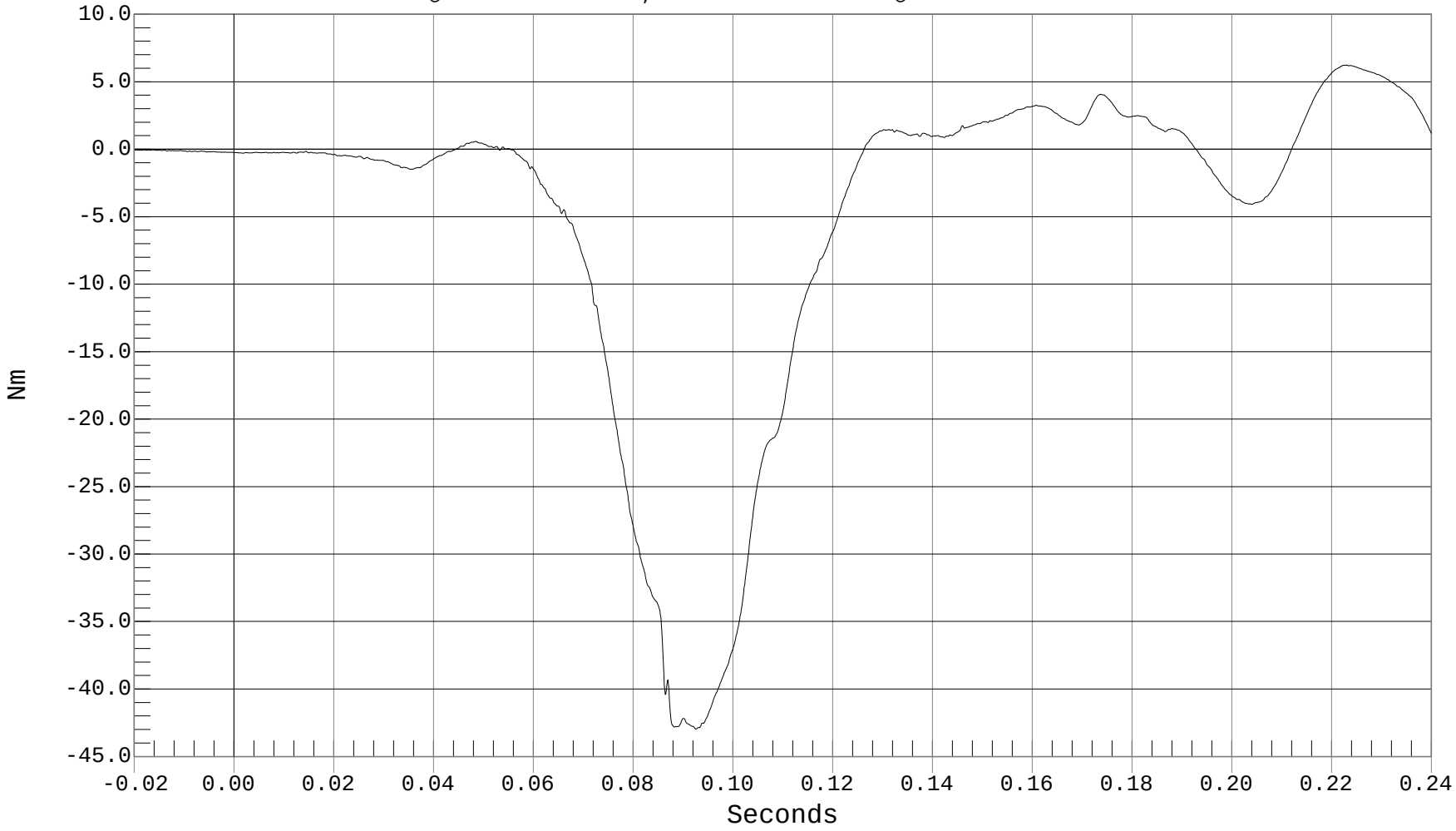
LRS 3 YR OLD LOWER NECK MOMENT X

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 LRS CHILD LOWER NECK MOMENT X, b01005MF.M25

Ymin = -42.97 Nm @ 0.0926 Seconds, Ymax = 6.23 Nm @ 0.2227 Seconds



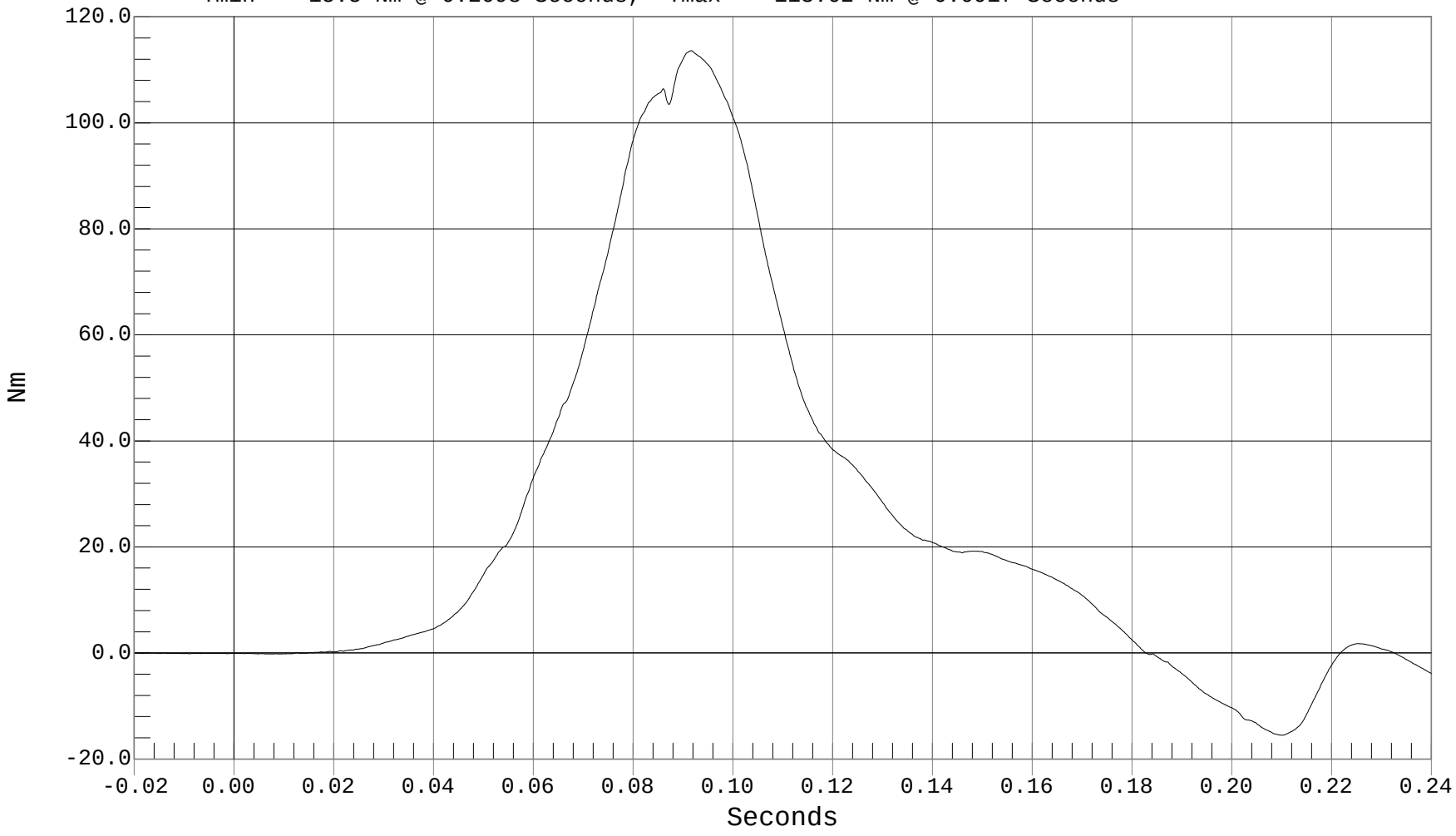
LRS 3 YR OLD LOWER NECK MOMENT Y

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 LRS CHILD LOWER NECK MOMENT Y, b01005MF.M26

Ymin = -15.5 Nm @ 0.2098 Seconds, Ymax = 113.62 Nm @ 0.0917 Seconds



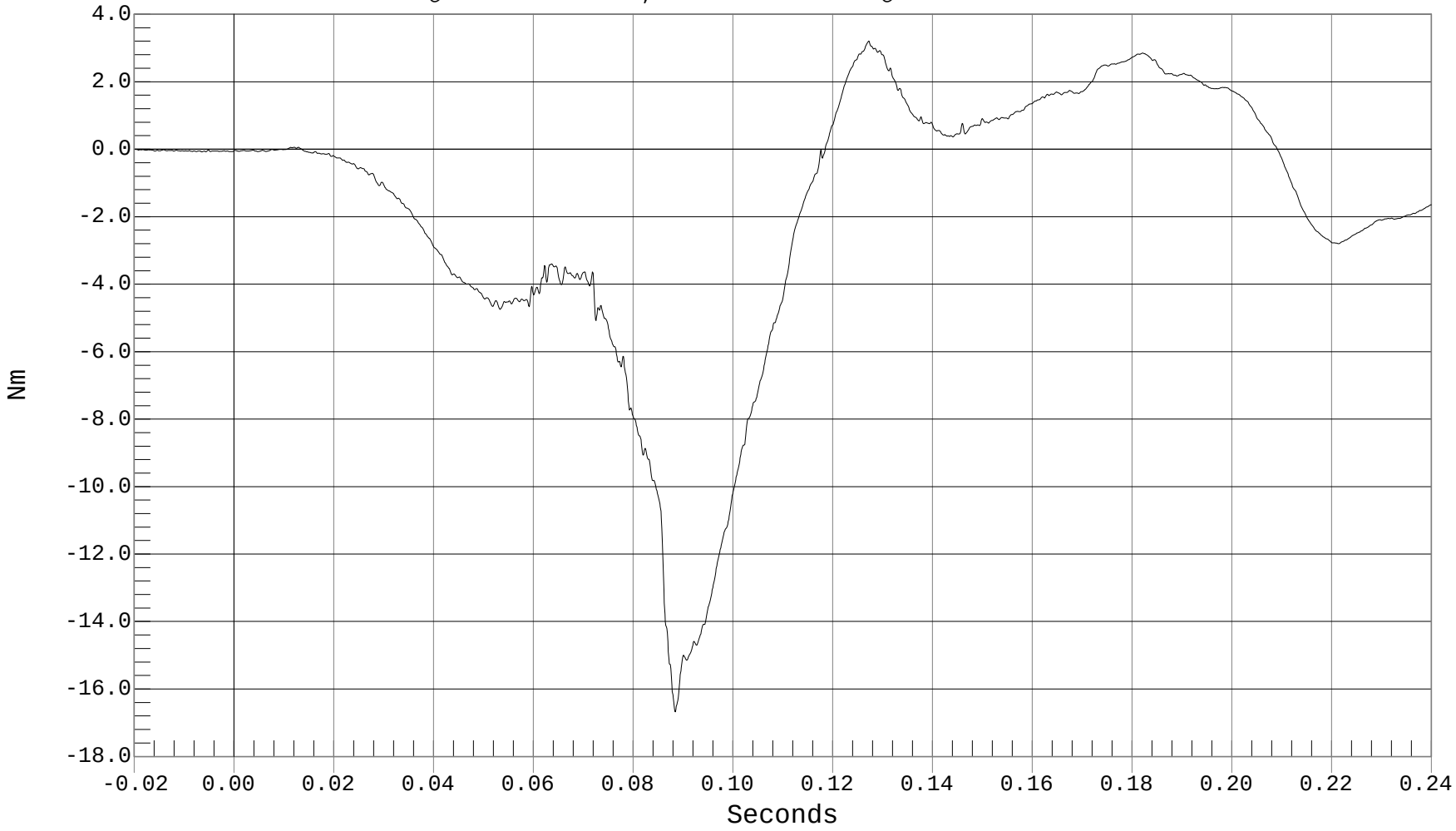
LRS 3 YR OLD LOWER NECK MOMENT Z

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 LRS CHILD LOWER NECK MOMENT Z, b01005MF.M27

Ymin = -16.68 Nm @ 0.0885 Seconds, Ymax = 3.2 Nm @ 0.1272 Seconds



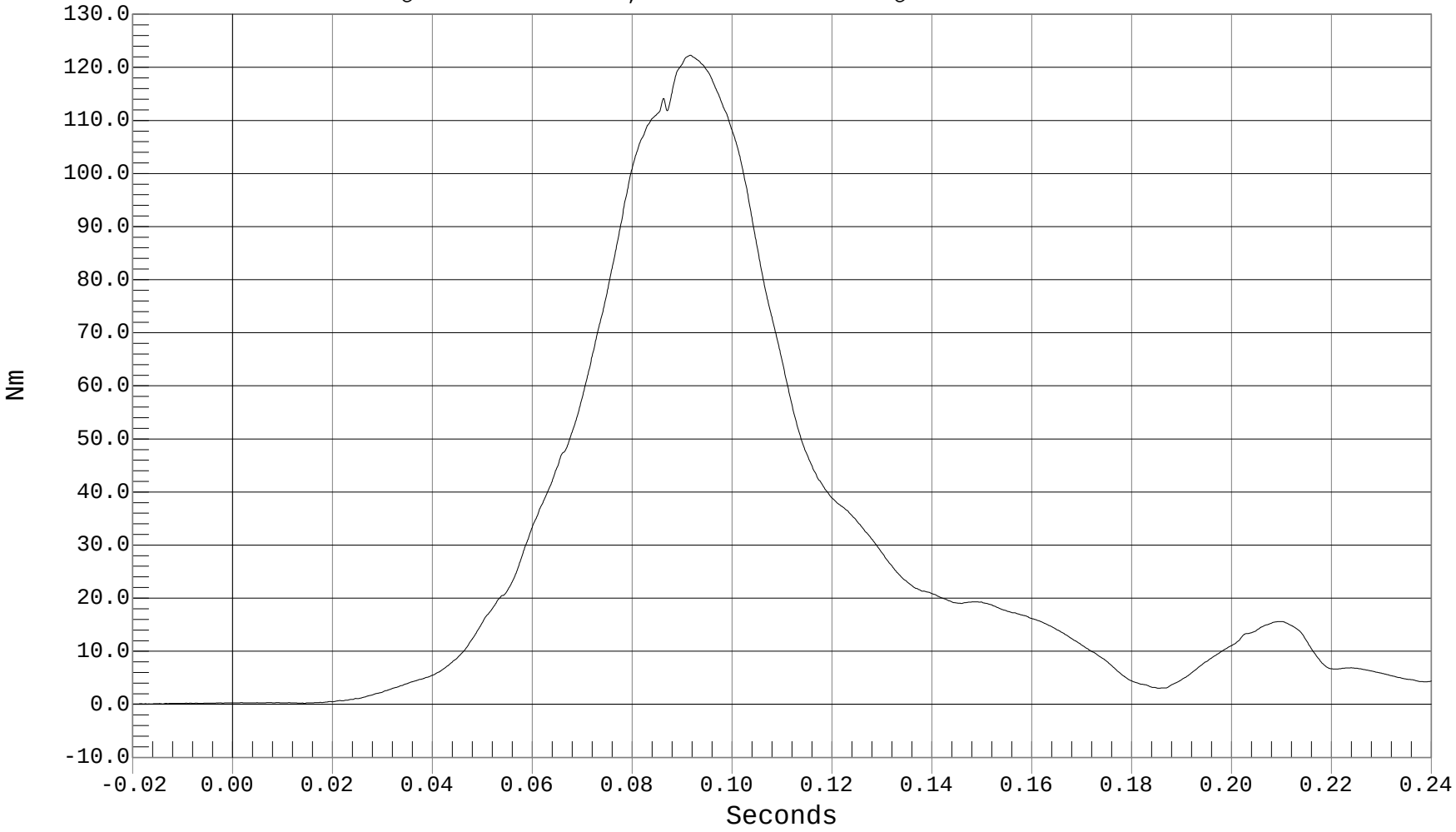
LRS 3 YR OLD LOWER NECK MOMENT RESULTANT

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 LRS 3 YR OLD LOWER NECK MOMENT RESULTANT, b01005MV.M25

Ymin = .06 Nm @ -0.0195 Seconds, Ymax = 122.3 Nm @ 0.0917 Seconds



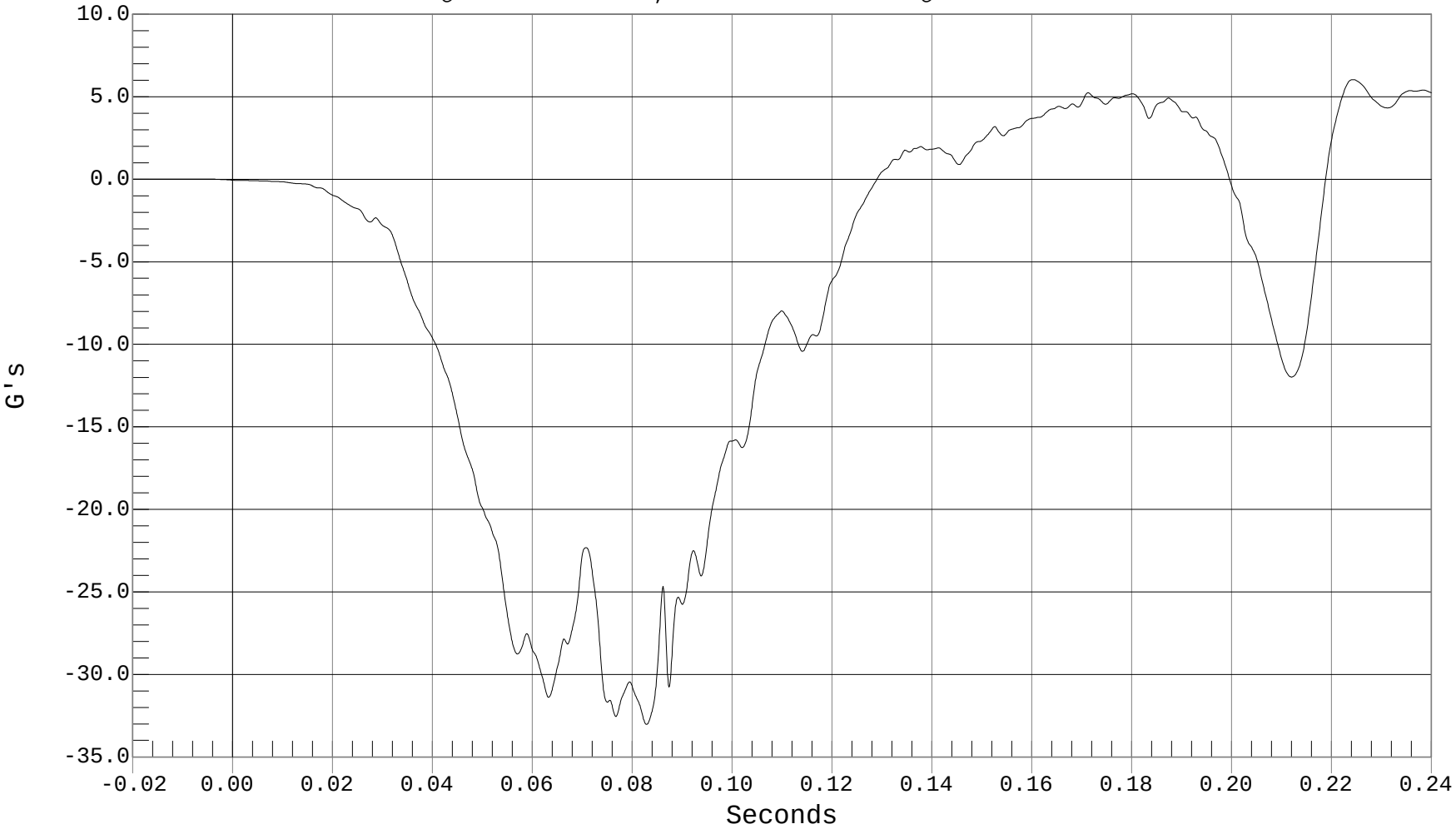
LRS 3 YR OLD CHEST X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 LRS CHILD CHEST X, b01005AF.A28

Ymin = -33.03 G's @ 0.0829 Seconds, Ymax = 6.04 G's @ 0.2243 Seconds



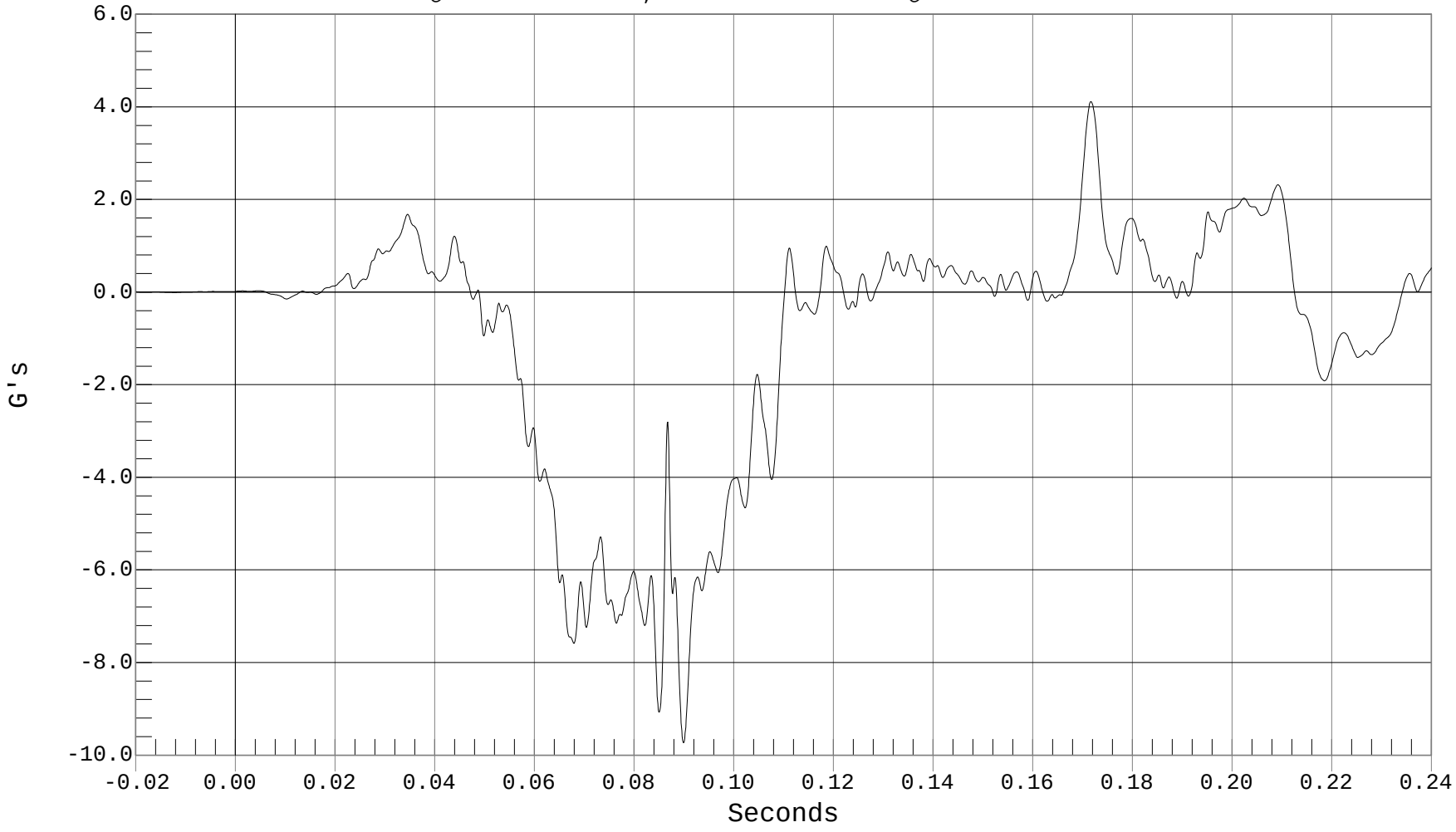
LRS 3 YR OLD CHEST Y ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 LRS CHILD CHEST Y, b01005AF.A29

Ymin = -9.73 G's @ 0.0900 Seconds, Ymax = 4.12 G's @ 0.1717 Seconds



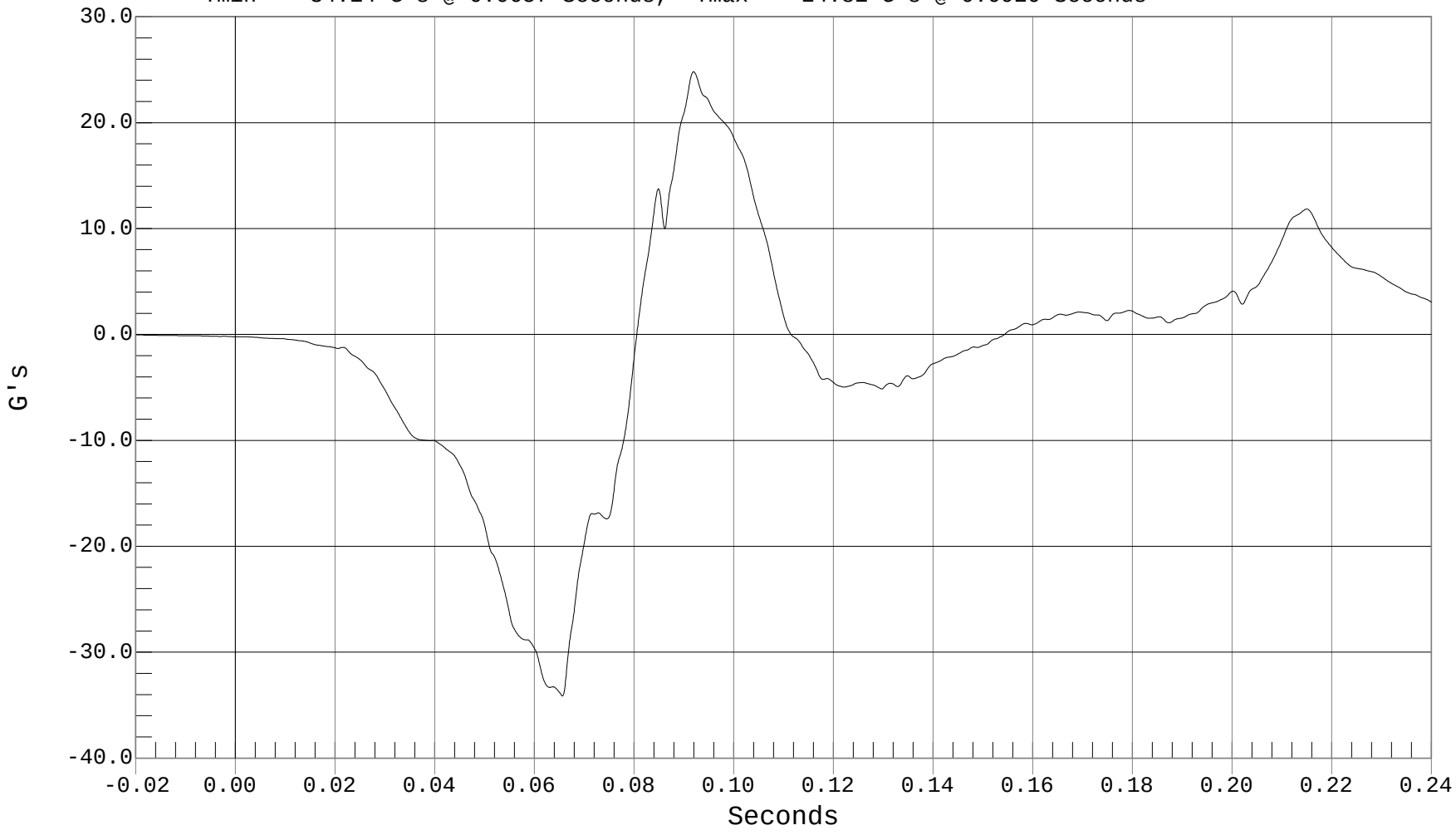
LRS 3 YR OLD CHEST Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 LRS CHILD CHEST Z, b01005AF.A30

Ymin = -34.14 G's @ 0.0657 Seconds, Ymax = 24.81 G's @ 0.0920 Seconds



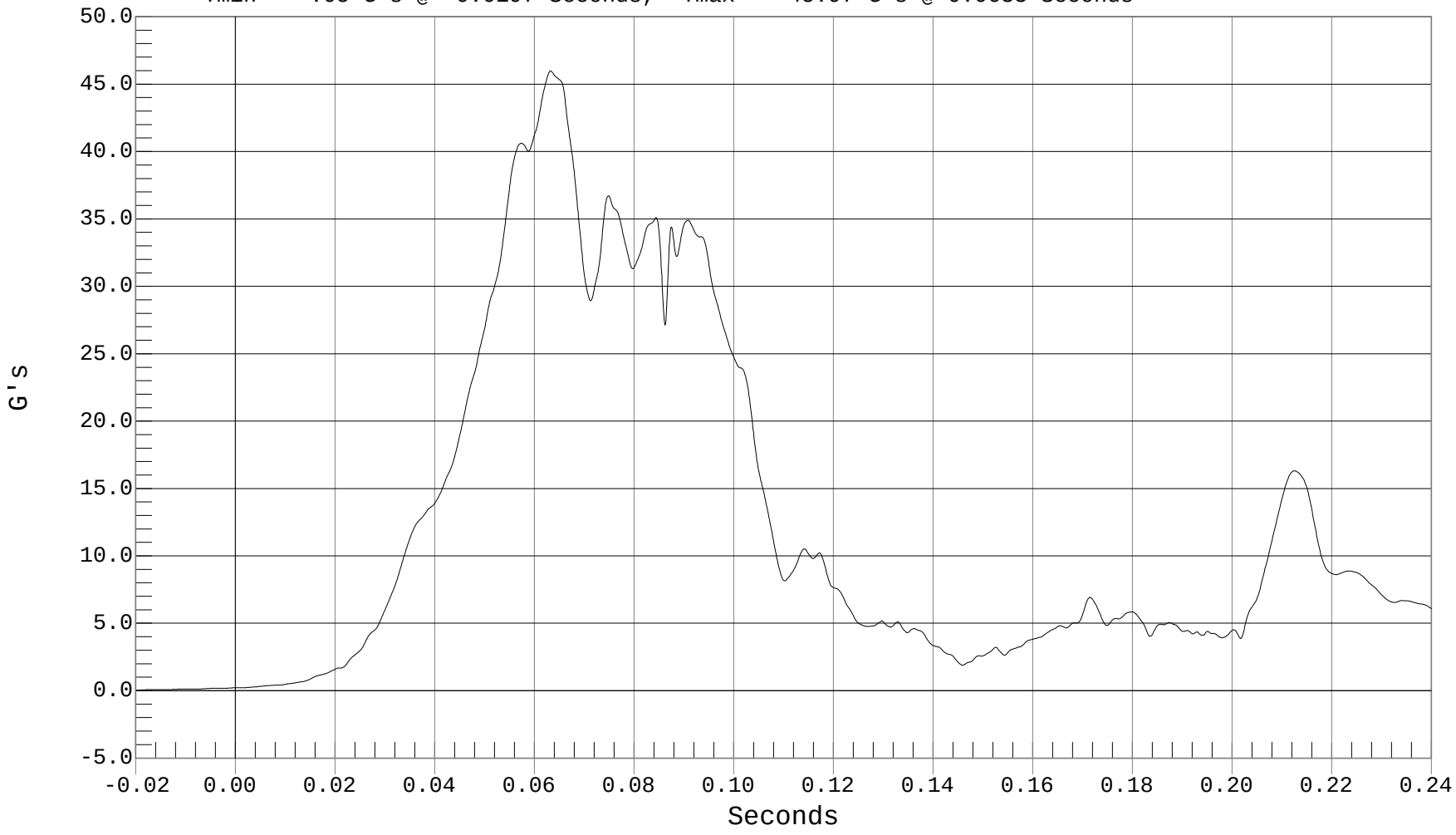
LRS 3 YR OLD CHEST RESULTANT ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 LRS 3 YR OLD CHEST RESULTANT ACCELERATION, b01005AV.A28

Ymin = .05 G's @ -0.0197 Seconds, Ymax = 45.97 G's @ 0.0633 Seconds



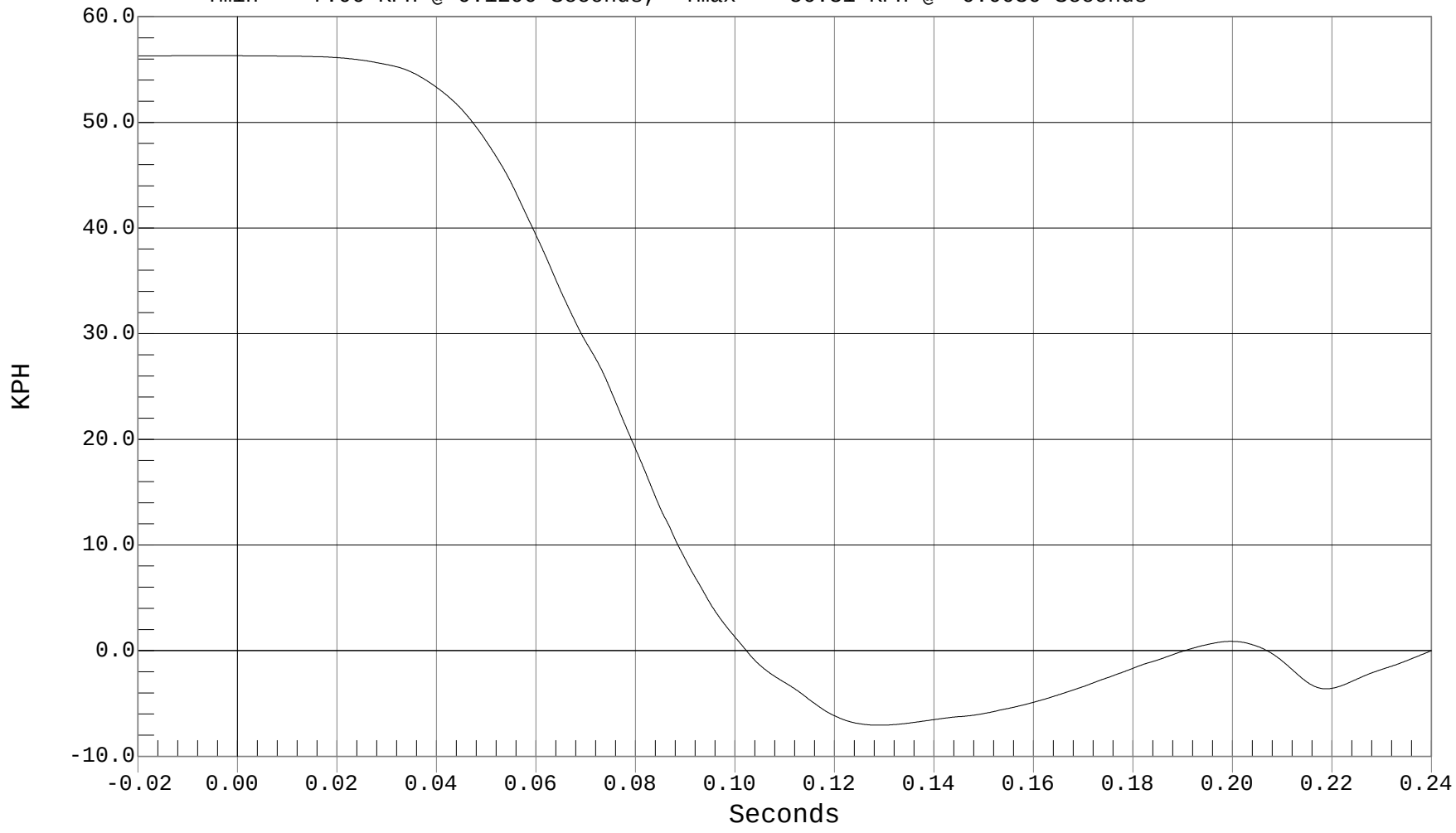
LRS 3 YR OLD CHEST X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 LRS 3 YR OLD CHEST X VELOCITY, b01005AI.V28

Ymin = -7.06 KPH @ 0.1290 Seconds, Ymax = 56.31 KPH @ -0.0030 Seconds



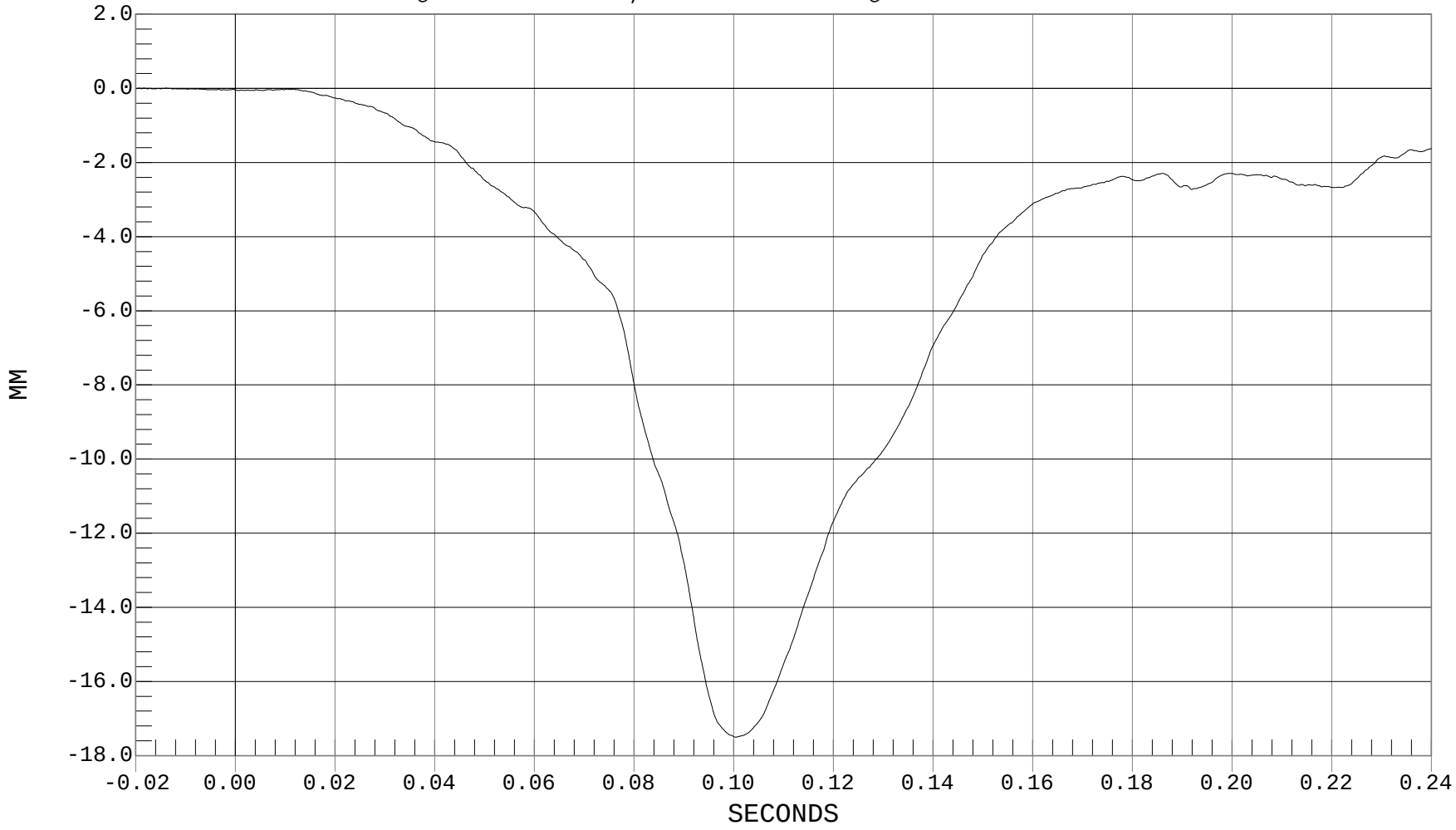
LRS 3 YR OLD CHEST COMPRESSION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 DISPLACEMENT, b01005DF.D31

Ymin = -17.5 MM @ 0.1004 SECONDS, Ymax = .01 MM @ -0.0138 SECONDS



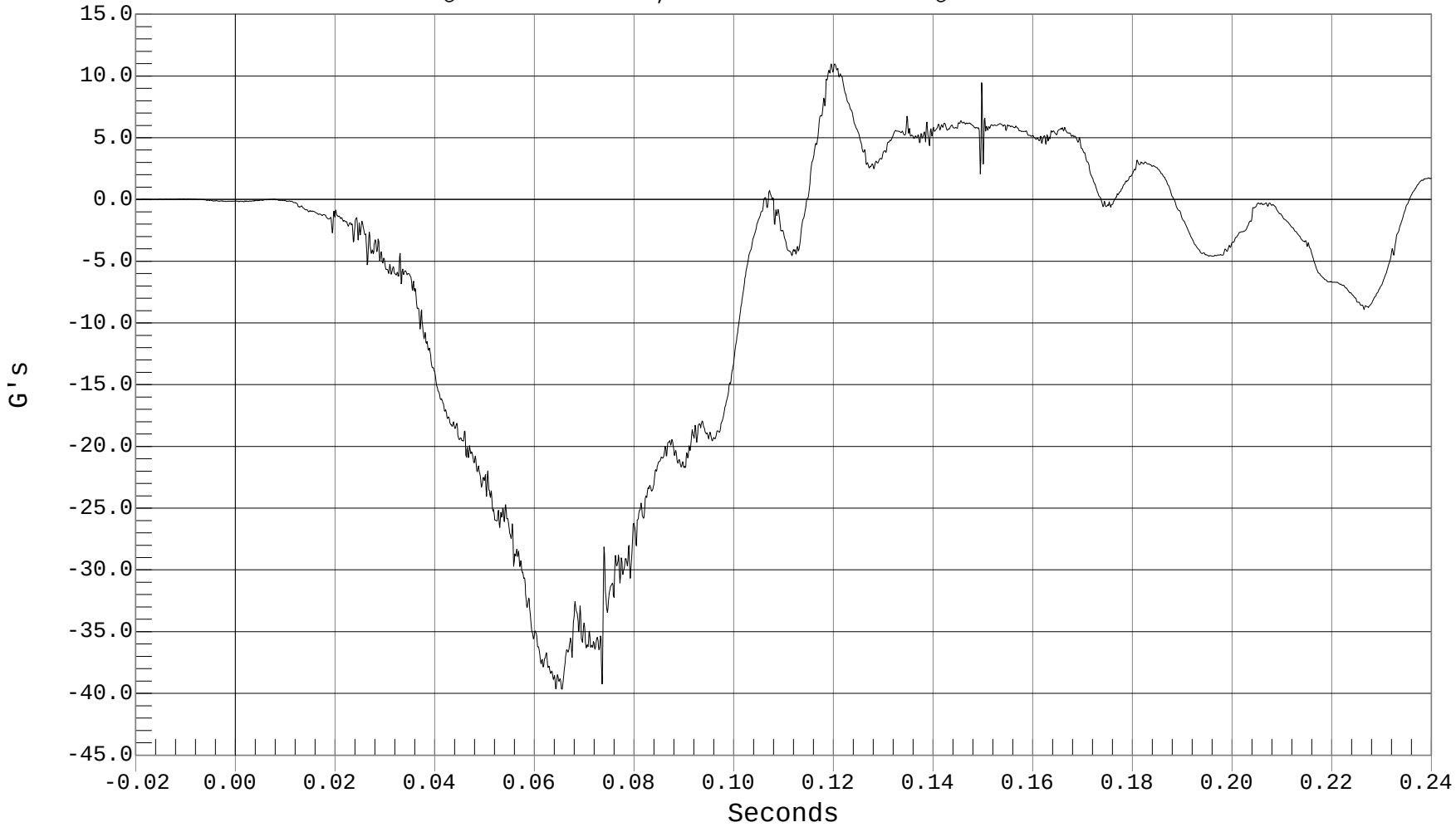
LRS 3 YR OLD PELVIS X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 LRS CHILD PELVIS X, b01005AT.A34

Ymin = -39.65 G's @ 0.0655 Seconds, Ymax = 10.98 G's @ 0.1203 Seconds



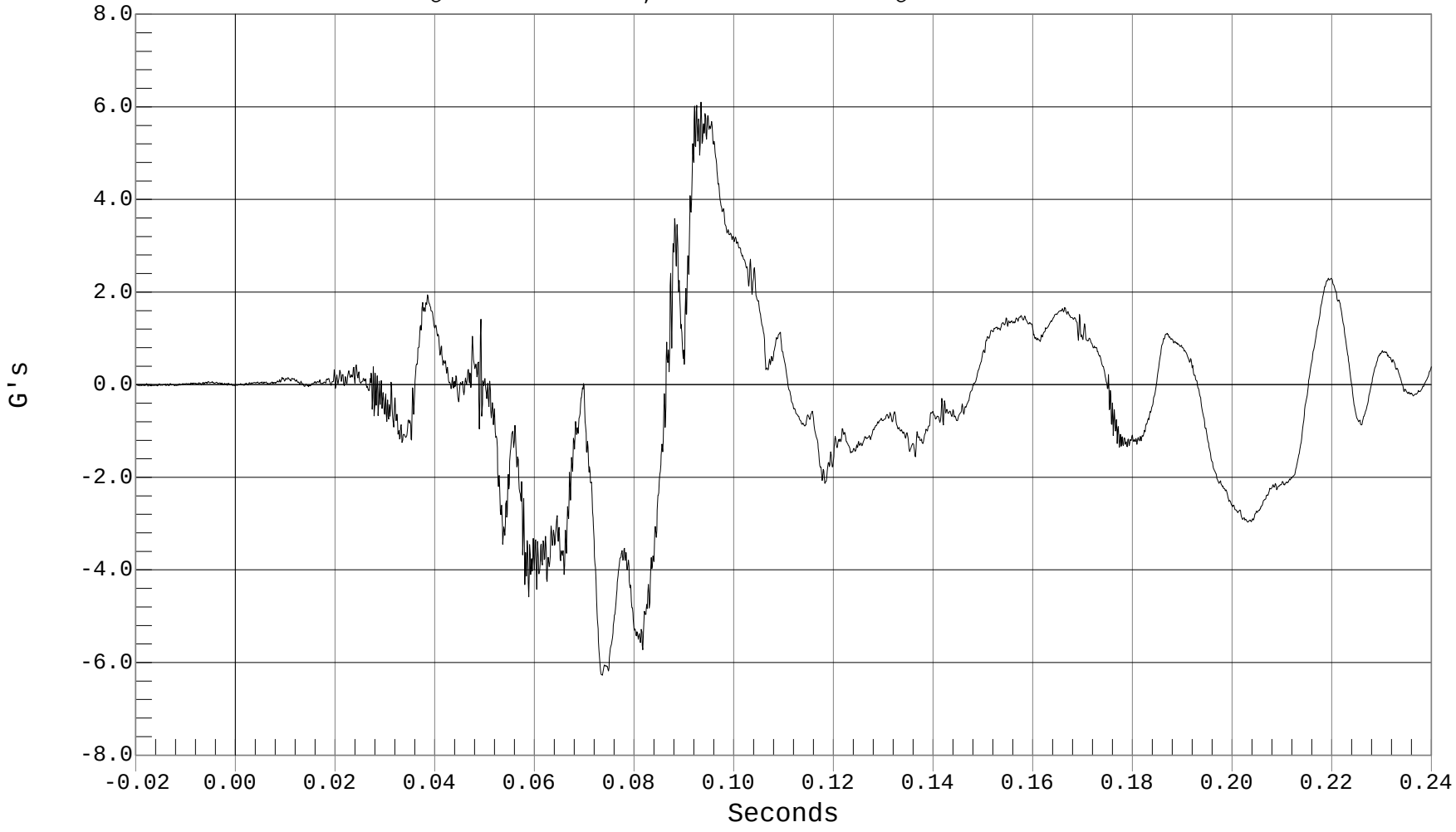
LRS 3 YR OLD PELVIS Y ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 LRS CHILD PELVIS Y, b01005AT.A35

Ymin = -6.28 G's @ 0.0737 Seconds, Ymax = 6.1 G's @ 0.0935 Seconds



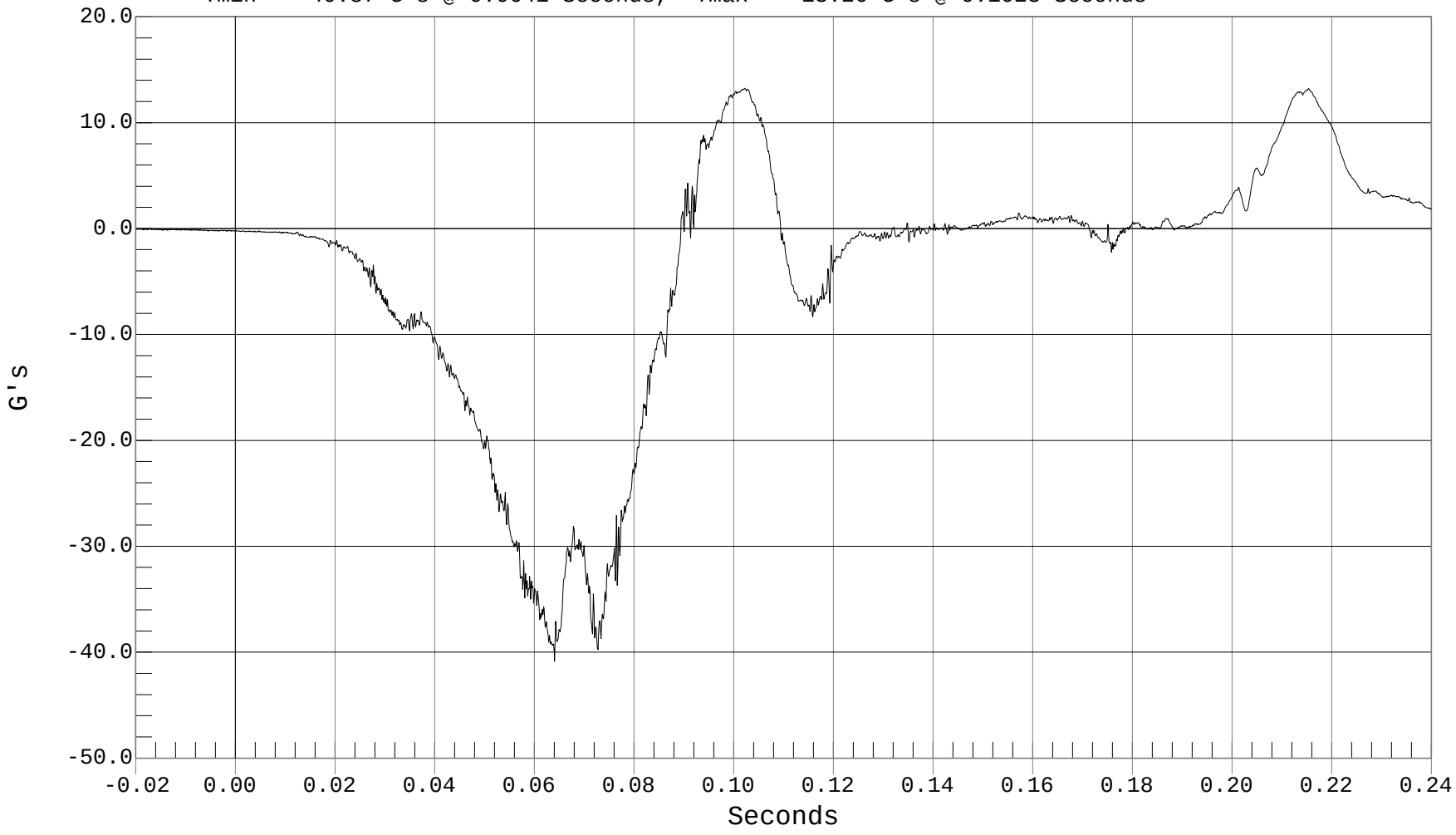
LRS 3 YR OLD PELVIS Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 LRS CHILD PELVIS Z, b01005AT.A36

Ymin = -40.87 G's @ 0.0641 Seconds, Ymax = 13.26 G's @ 0.1023 Seconds



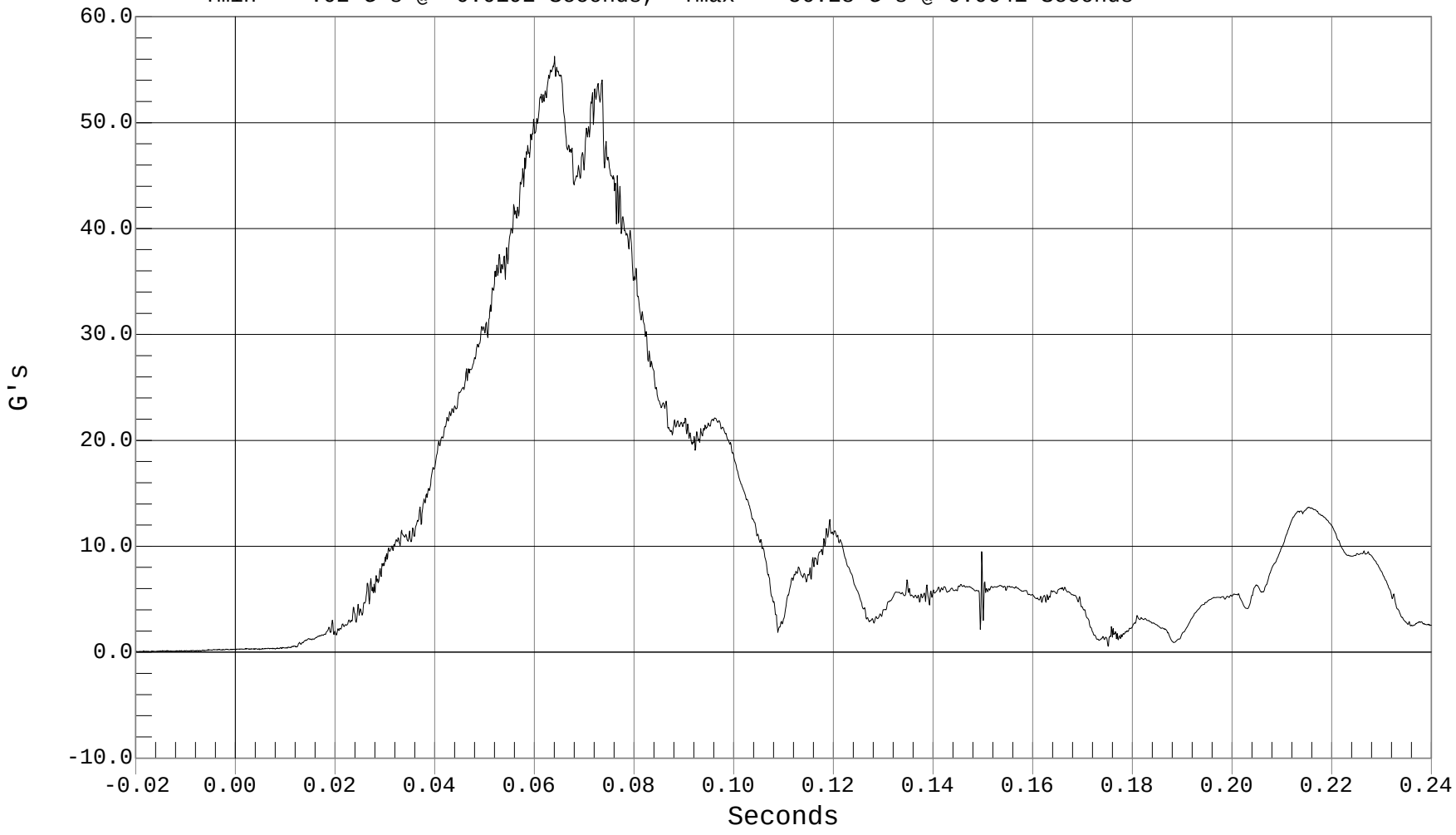
LRS 3 YR OLD PELVIS RESULTANT ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 LRS 3 YR OLD PELVIS RESULTANT ACCELERATION, b01005AV.A34

Ymin = .02 G's @ -0.0192 Seconds, Ymax = 56.28 G's @ 0.0641 Seconds



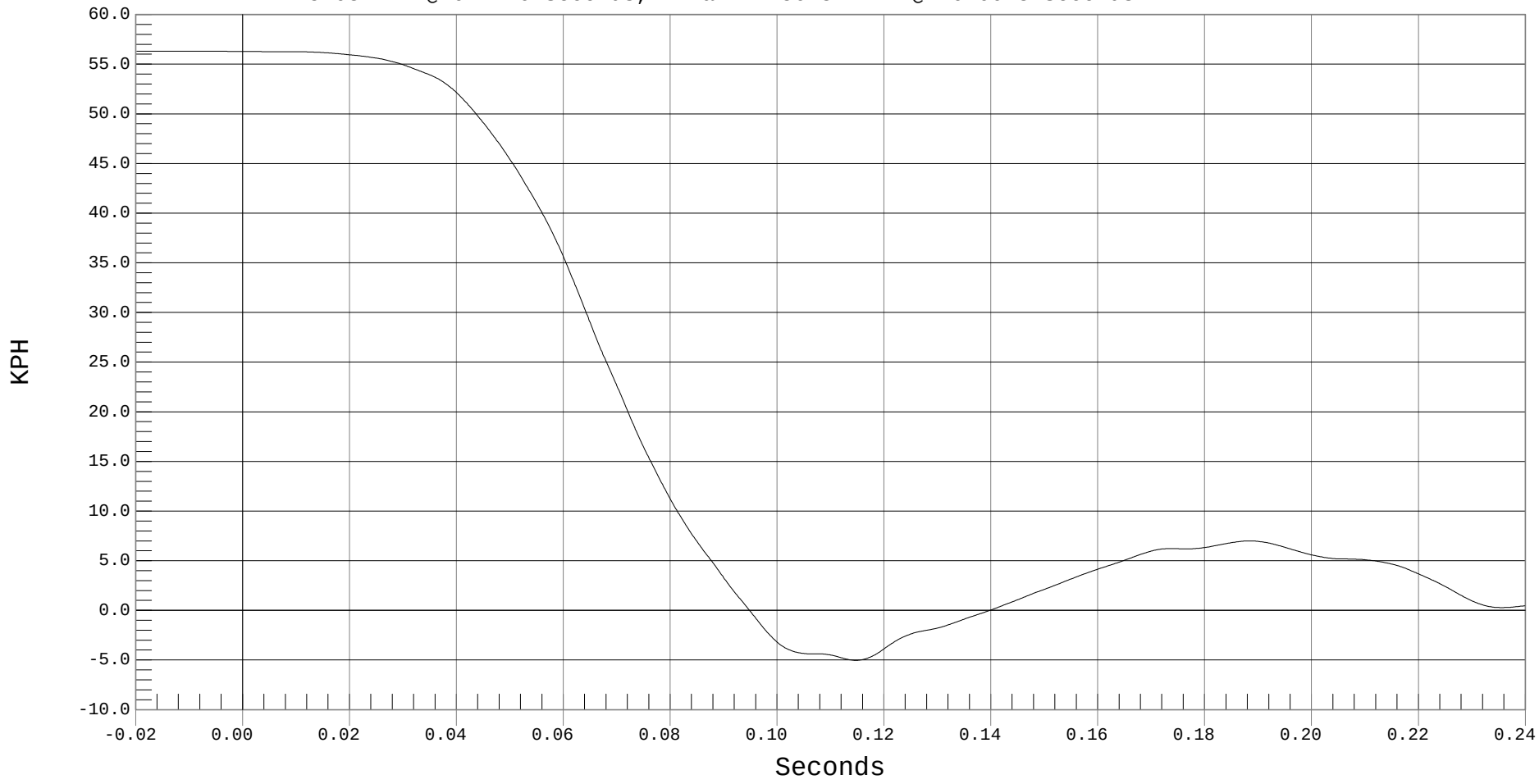
LRS 3 YR OLD PELVIS X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 3 YR OLD PELVIS X VELOCITY, B01005AI.V34

Ymin = -5.03 KPH @ 0.1146 Seconds, Ymax = 56.31 KPH @ -0.0073 Seconds



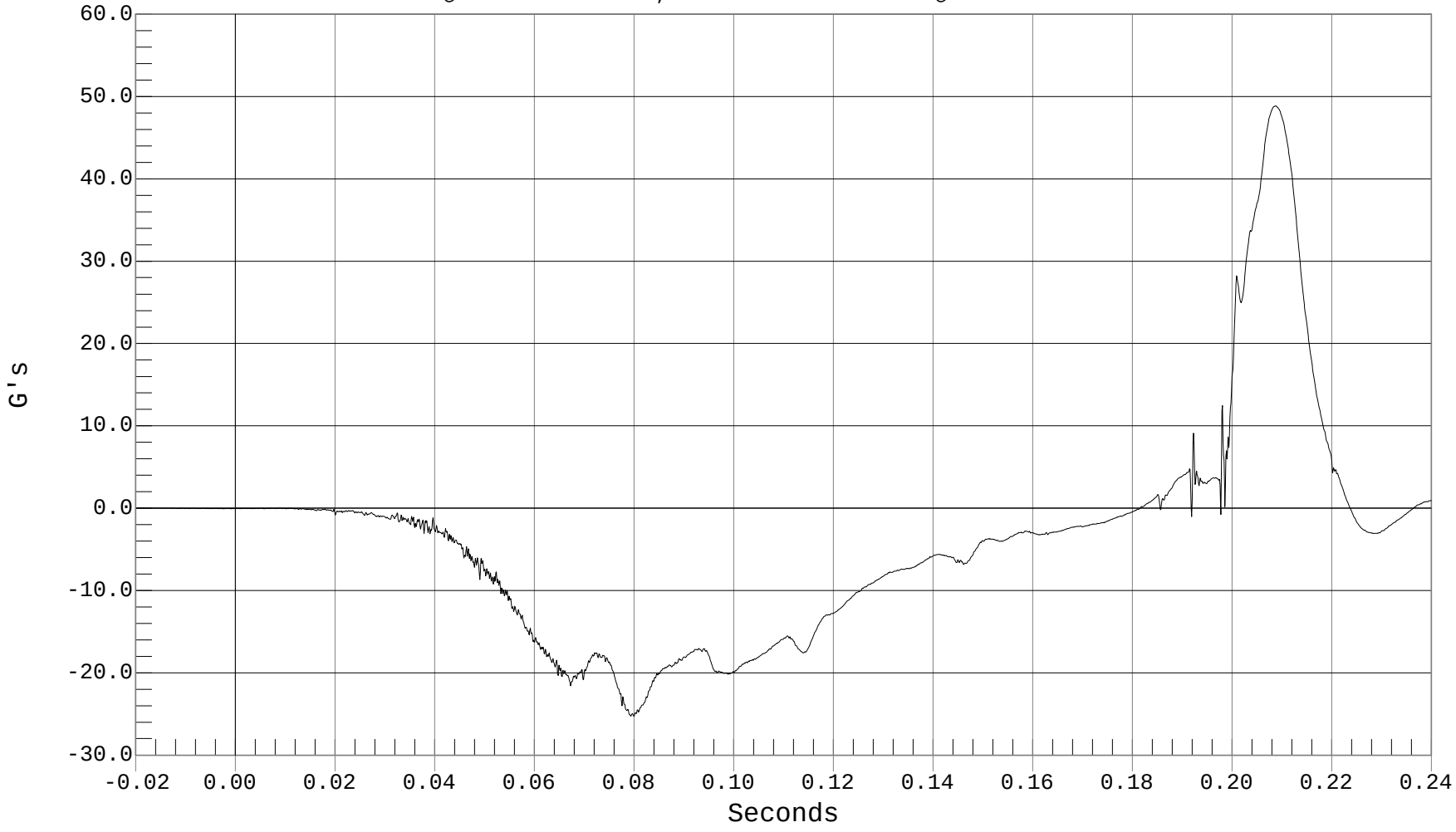
RRS 3 YR OLD HEAD X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 RRS CHILD HEAD X, b01005AT.A37

Ymin = -25.27 G's @ 0.0794 Seconds, Ymax = 48.86 G's @ 0.2088 Seconds



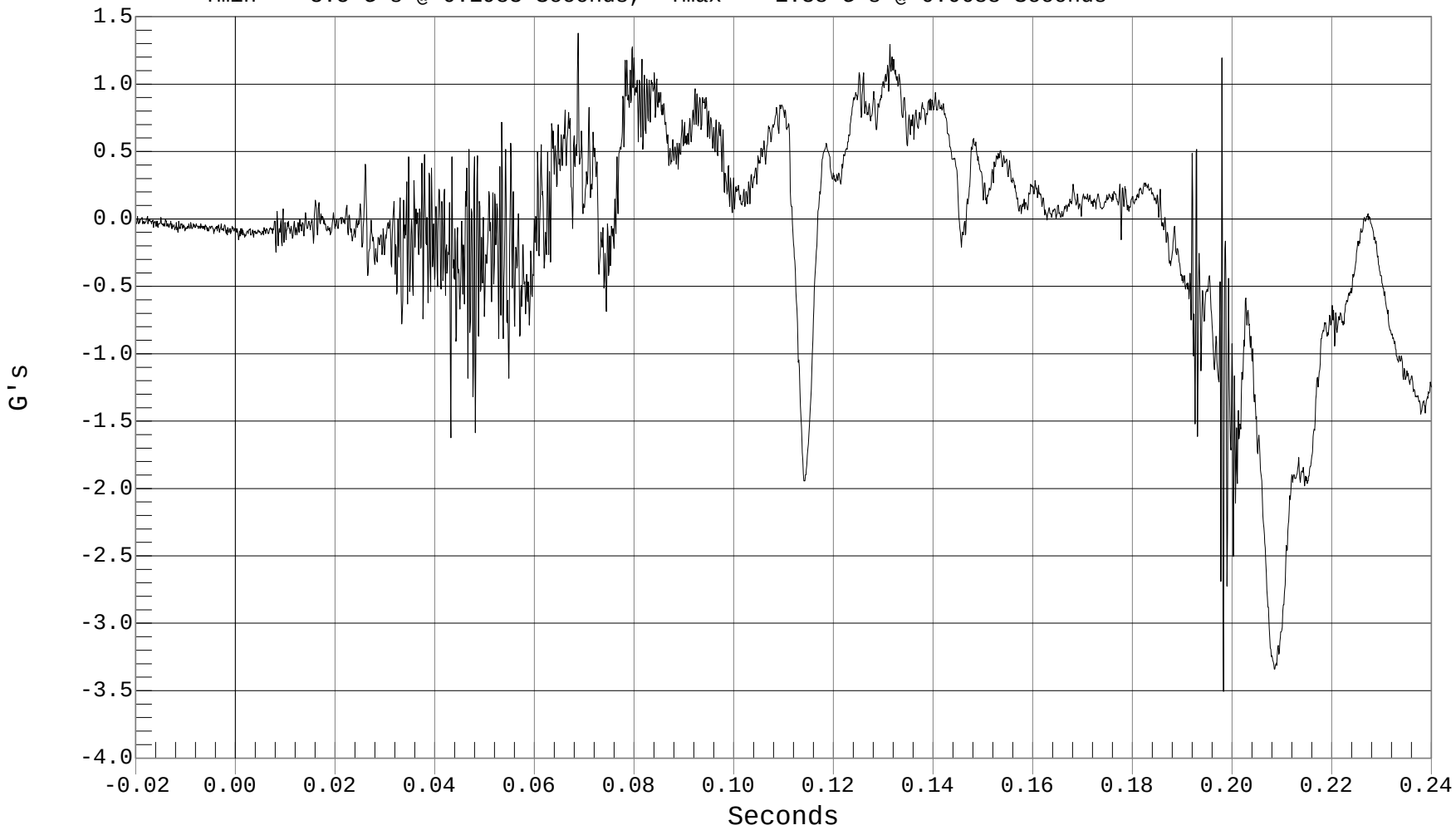
RRS 3 YR OLD HEAD Y ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 RRS CHILD HEAD Y, b01005AT.A38

Ymin = -3.5 G's @ 0.1983 Seconds, Ymax = 1.38 G's @ 0.0688 Seconds



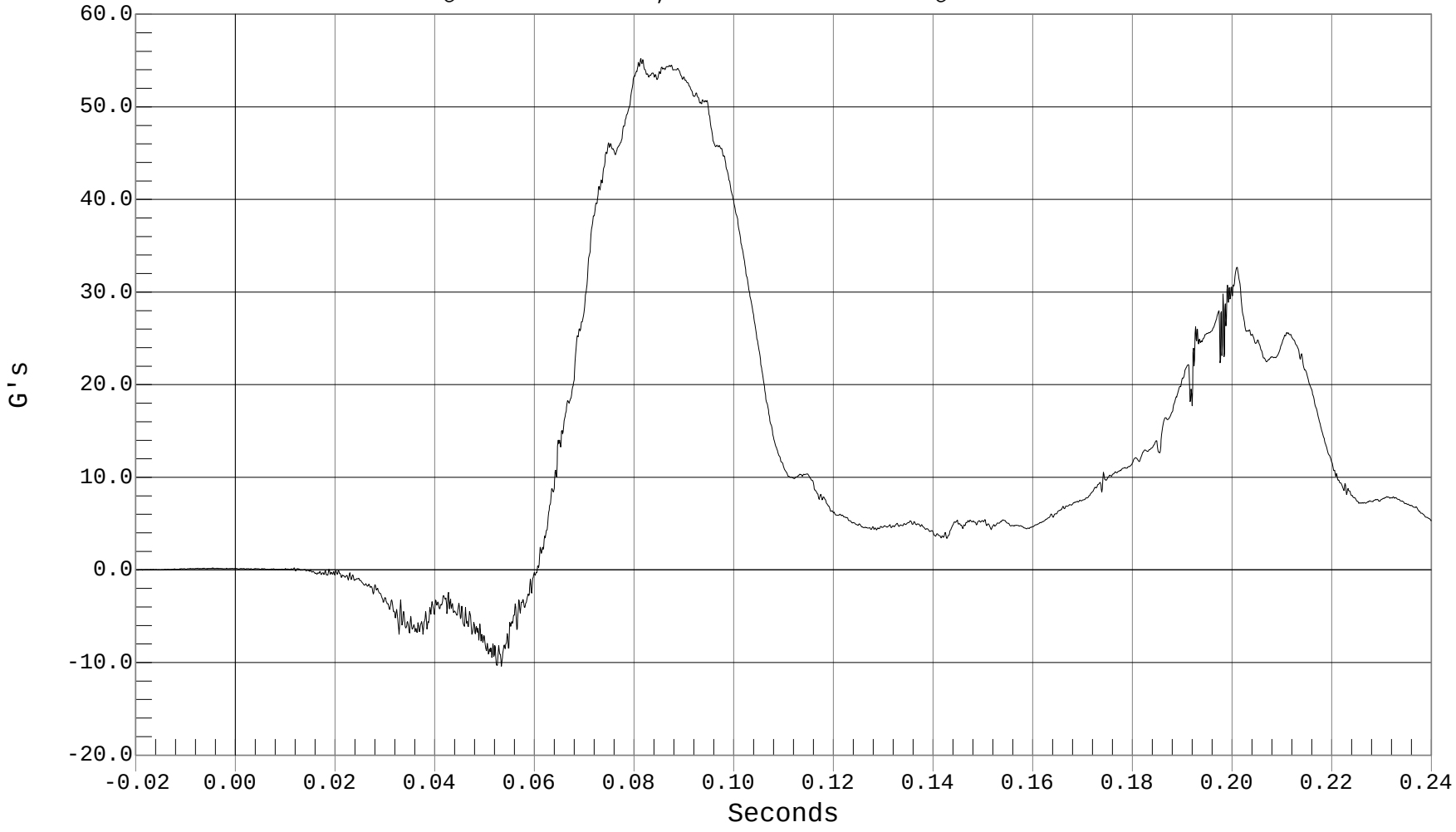
RRS 3 YR OLD HEAD Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 RRS CHILD HEAD Z, b01005AT.A39

Ymin = -10.39 G's @ 0.0534 Seconds, Ymax = 55.22 G's @ 0.0814 Seconds



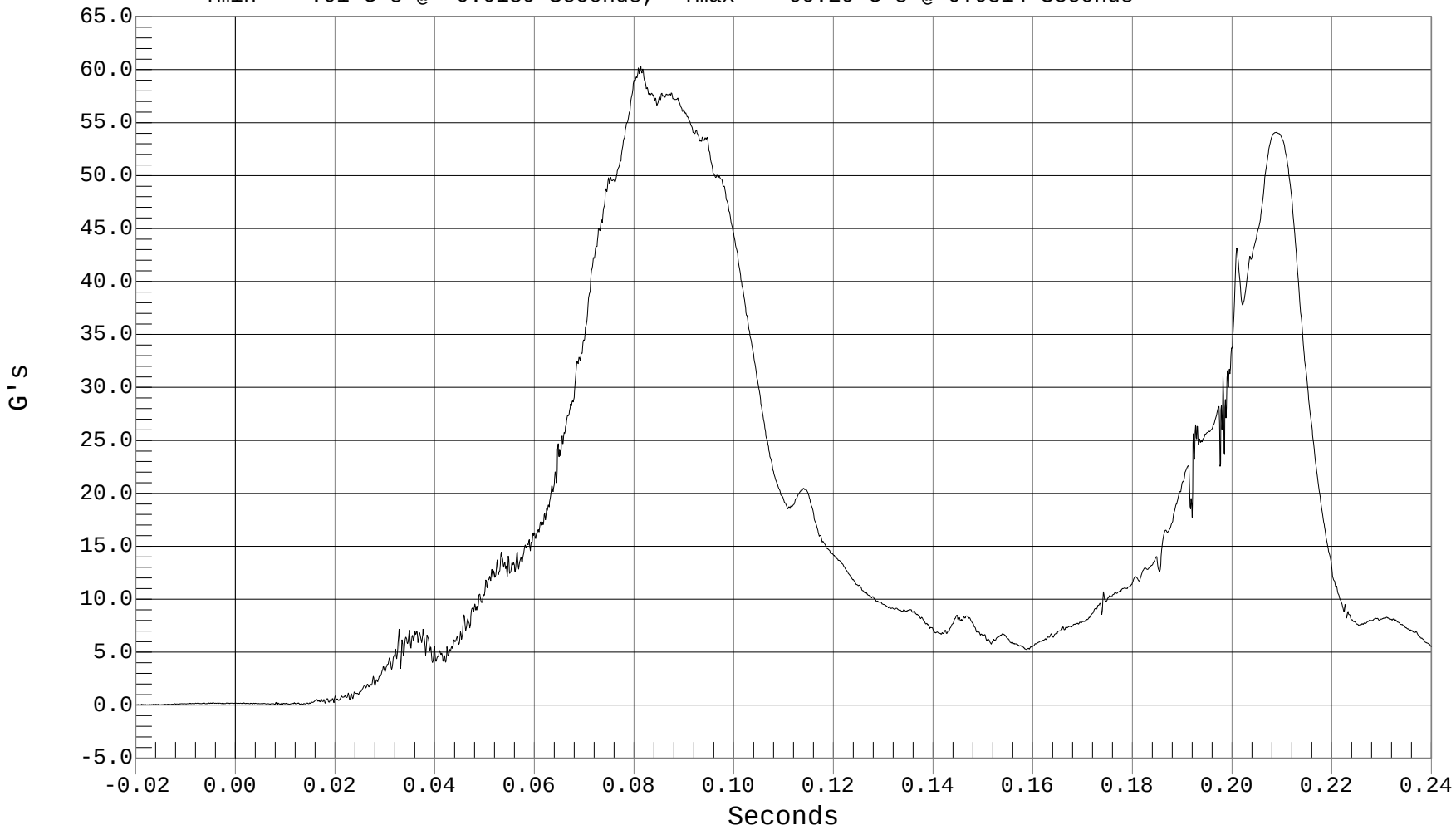
RRS 3 YR OLD HEAD RESULTANT ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 RRS 3 YR OLD HEAD RESULTANT ACCELERATION, b01005AV.A37

Ymin = .01 G's @ -0.0189 Seconds, Ymax = 60.29 G's @ 0.0814 Seconds



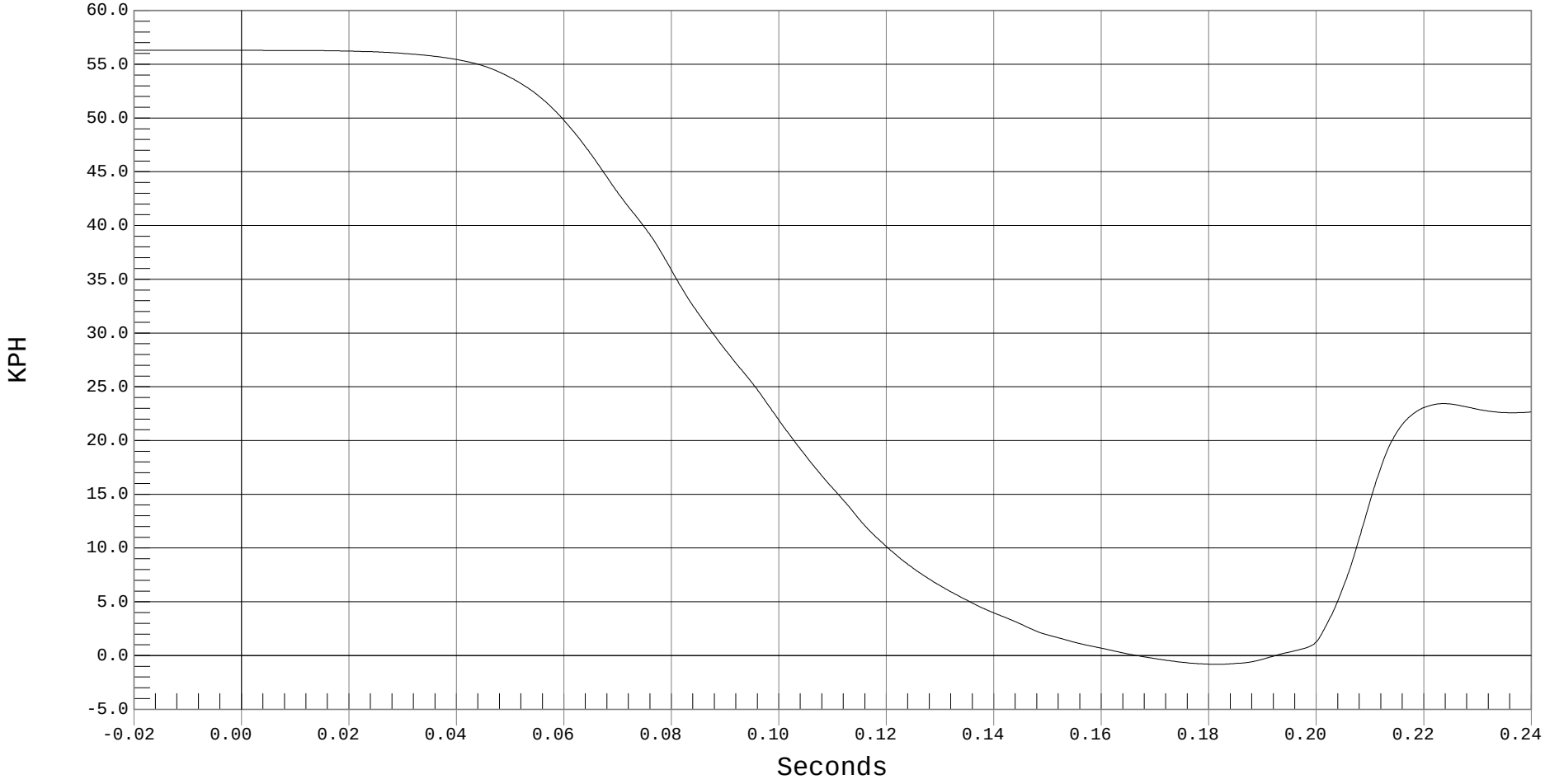
RRS 3 YR OLD HEAD X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 RRS 3 YR OLD HEAD X VELOCITY, B01005AI.V37

Ymin = -.82 KPH @ 0.1814 Seconds, Ymax = 56.3 KPH @ -0.0140 Seconds



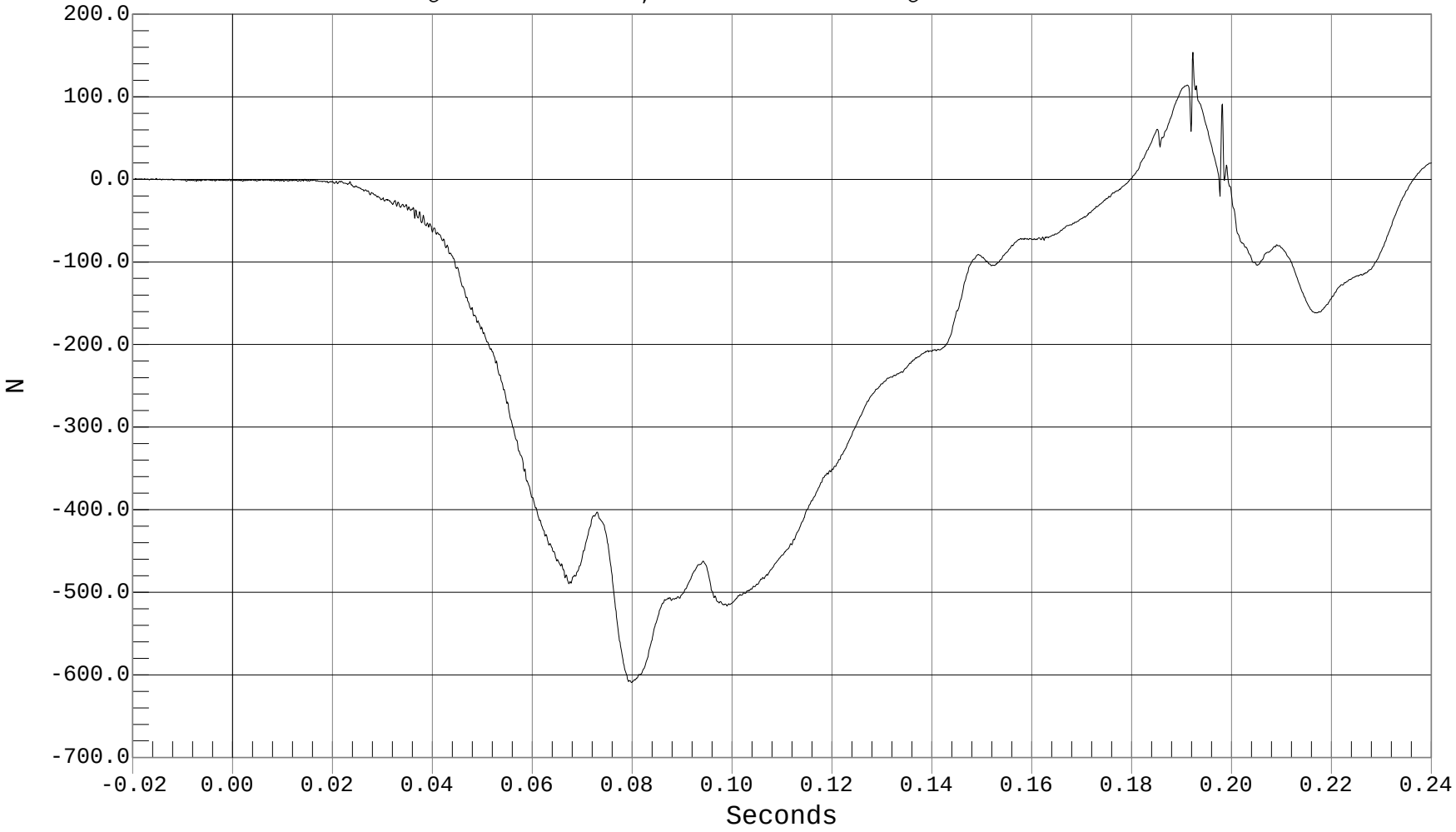
RRS 3 YR OLD UPPER NECK FORCE X

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 RRS CHILD UPPER NECK FORCE X, b01005FT.F40

Ymin = -609.41 N @ 0.0799 Seconds, Ymax = 153.83 N @ 0.1923 Seconds



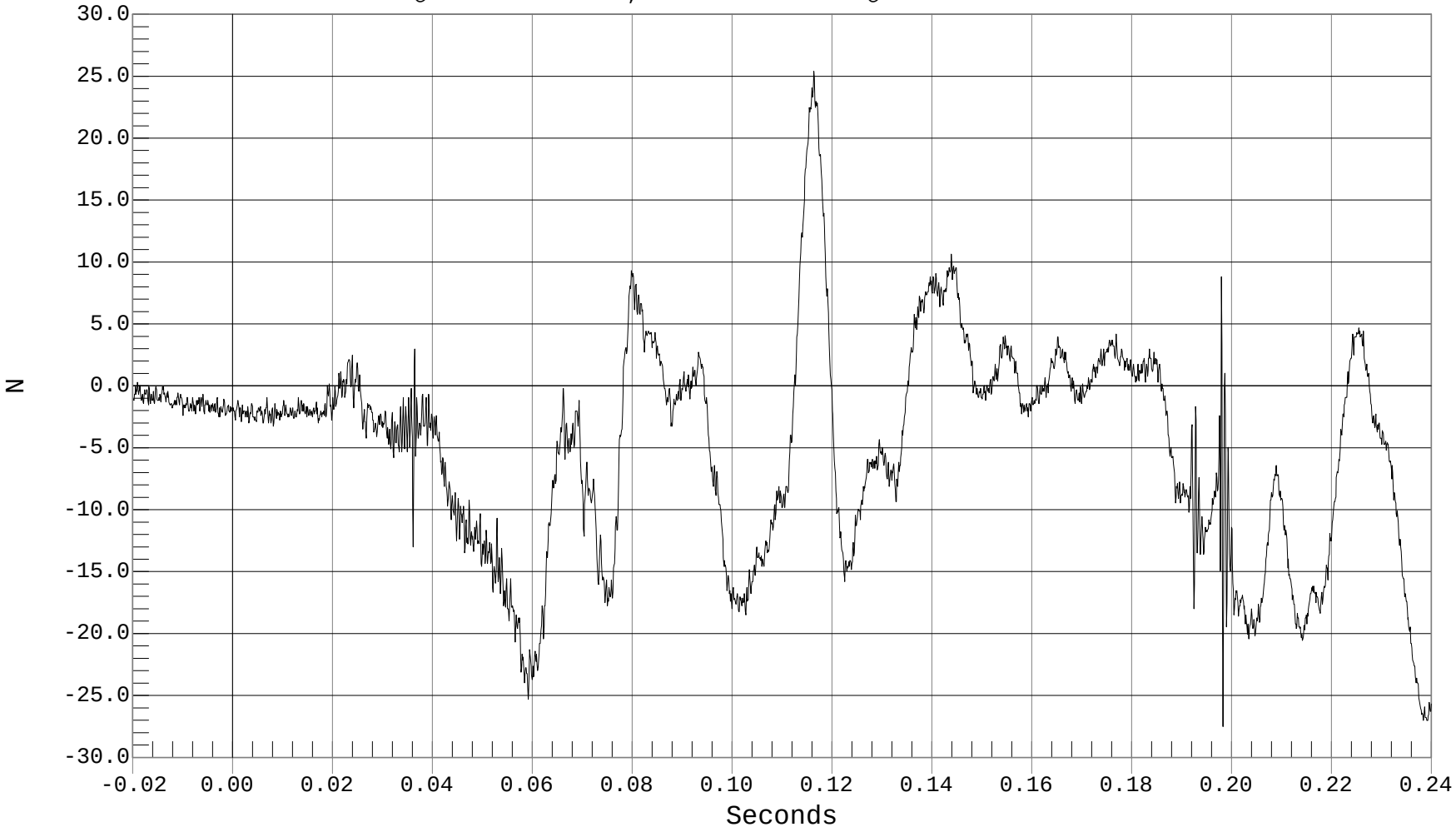
RRS 3 YR OLD UPPER NECK FORCE Y

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 RRS CHILD UPPER NECK FORCE Y, b01005FT.F41

Ymin = -27.51 N @ 0.1983 Seconds, Ymax = 25.4 N @ 0.1164 Seconds



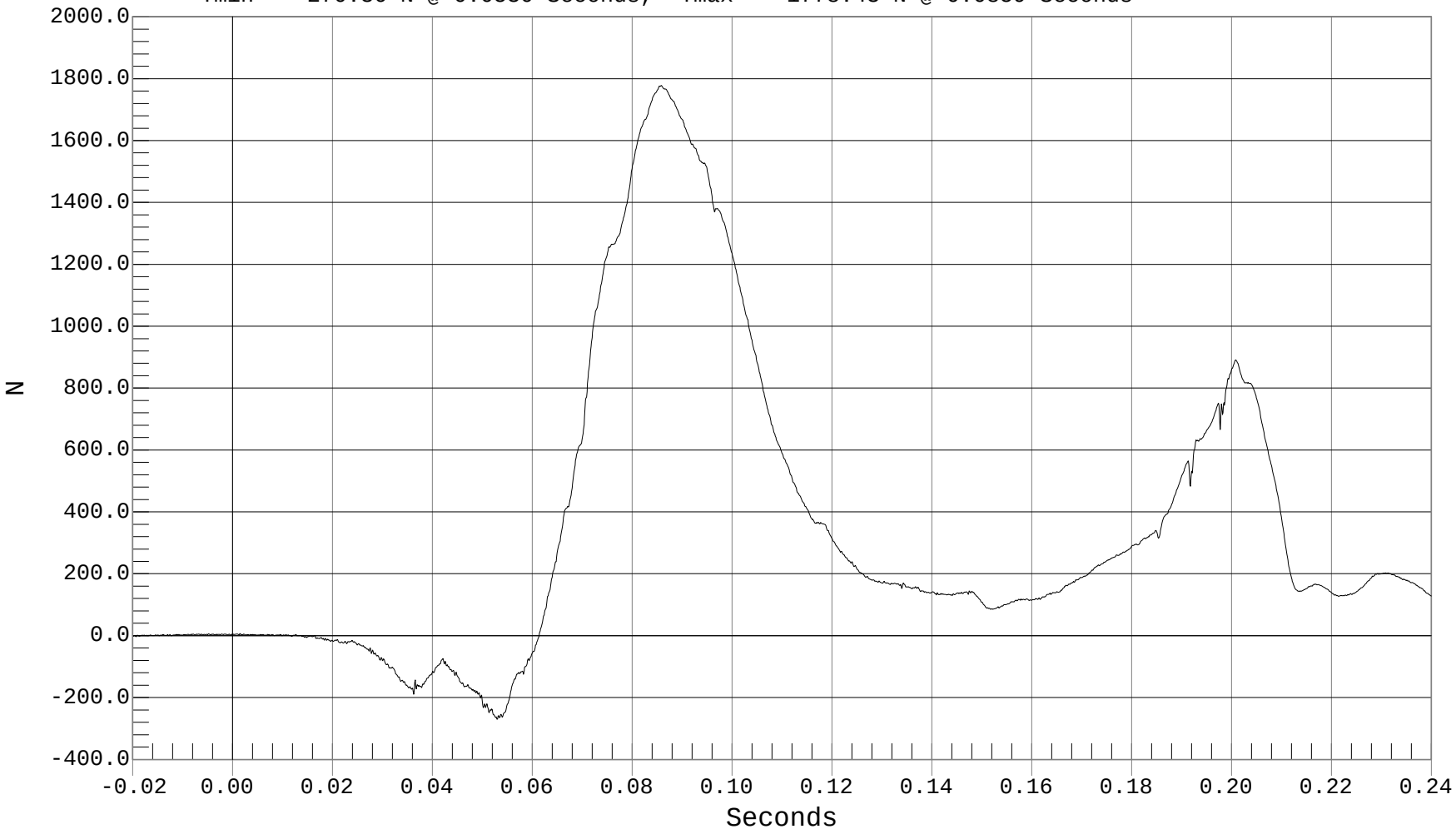
RRS 3 YR OLD UPPER NECK FORCE Z

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 RRS CHILD UPPER NECK FORCE Z, b01005FT.F42

Ymin = -270.36 N @ 0.0530 Seconds, Ymax = 1778.43 N @ 0.0859 Seconds



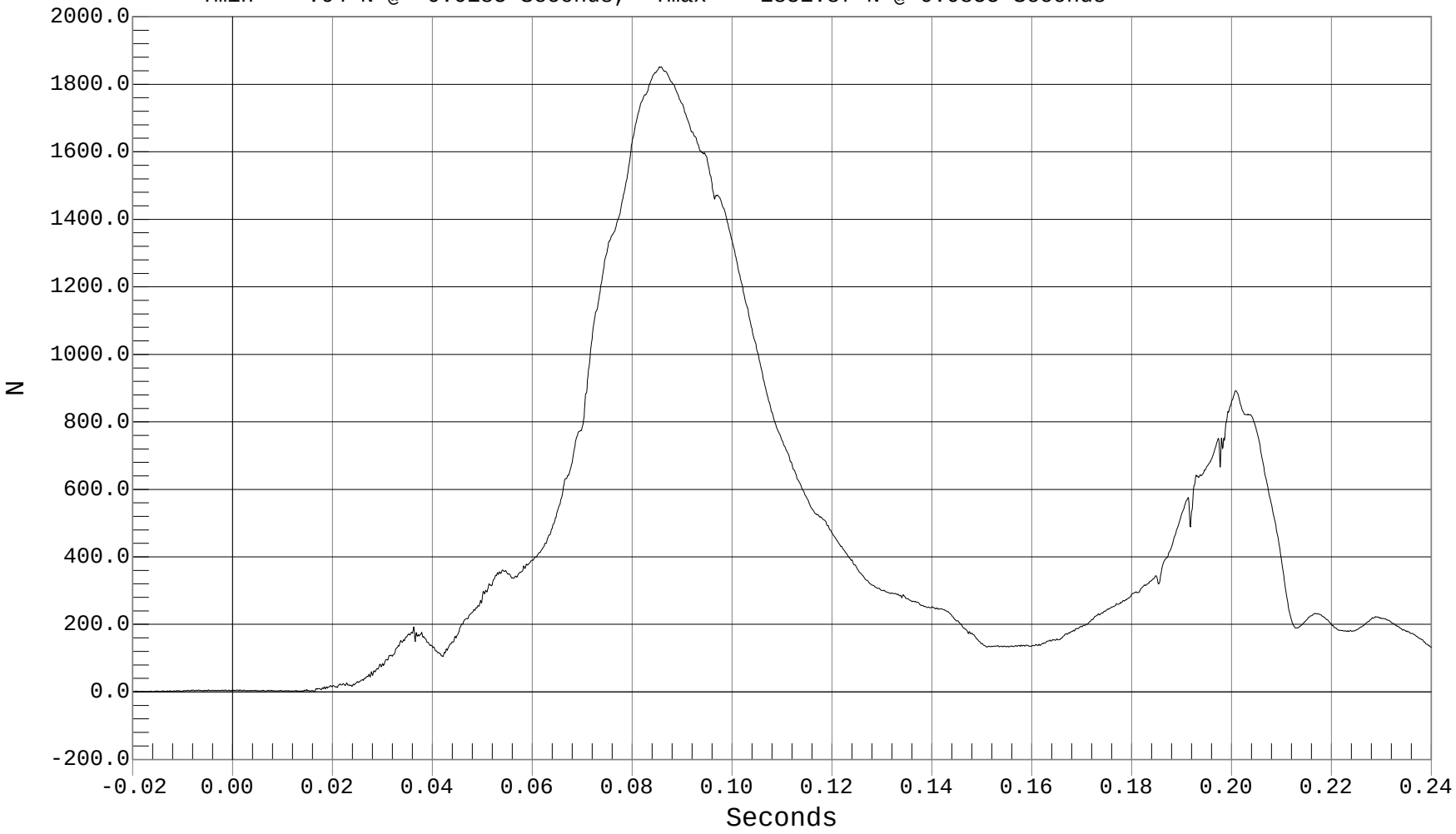
RRS 3 YR OLD UPPER NECK FORCE RESULTANT

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 RRS 3 YR OLD UPPER NECK FORCE RESULTANT, b01005FV.F40

Ymin = .64 N @ -0.0185 Seconds, Ymax = 1851.87 N @ 0.0855 Seconds



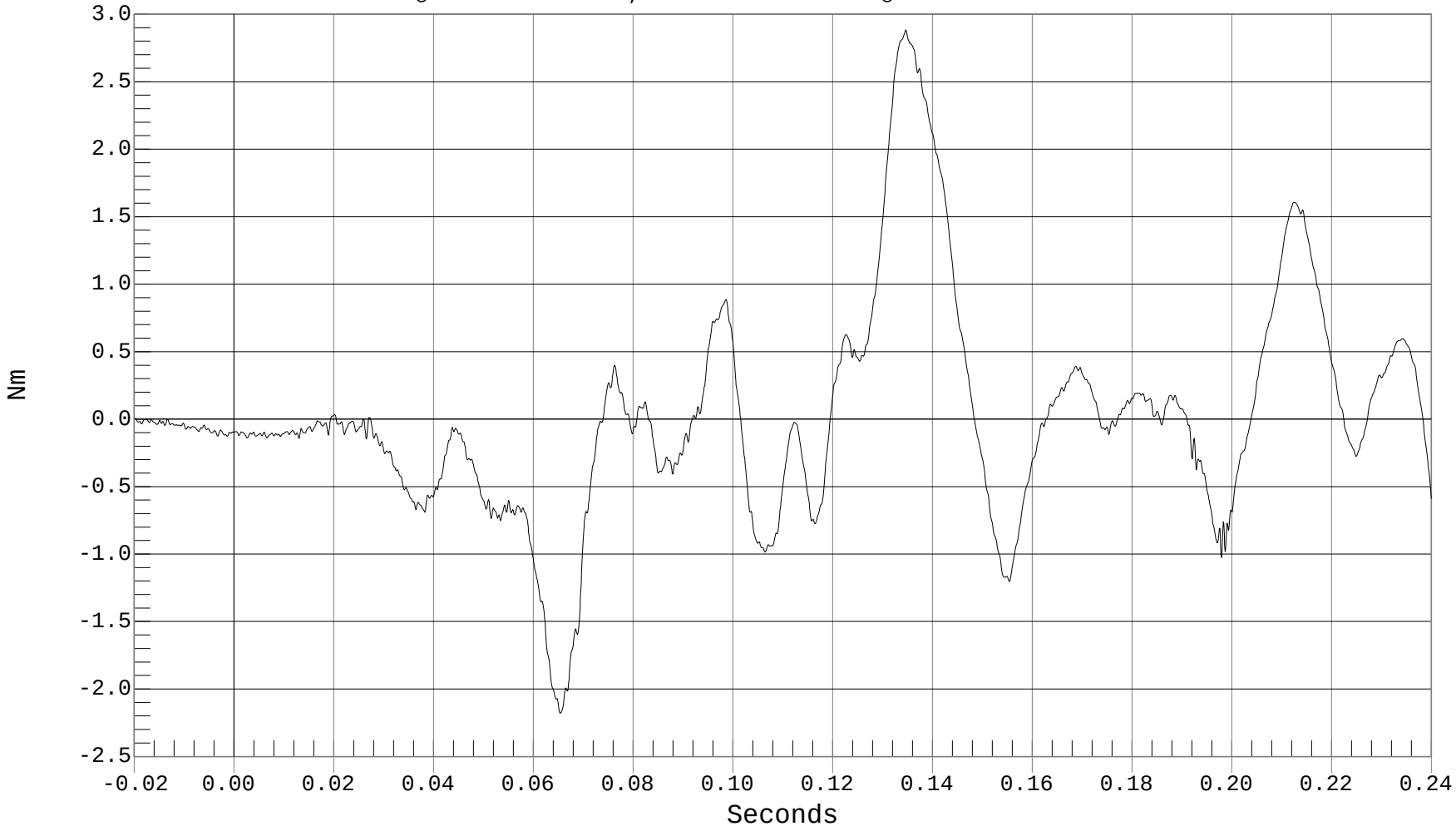
RRS 3 YR OLD UPPER NECK MOMENT X

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 RRS CHILD UPPER NECK MOMENT X, b01005MF.M43

Ymin = -2.25 Nm @ 0.2466 Seconds, Ymax = 2.88 Nm @ 0.1347 Seconds



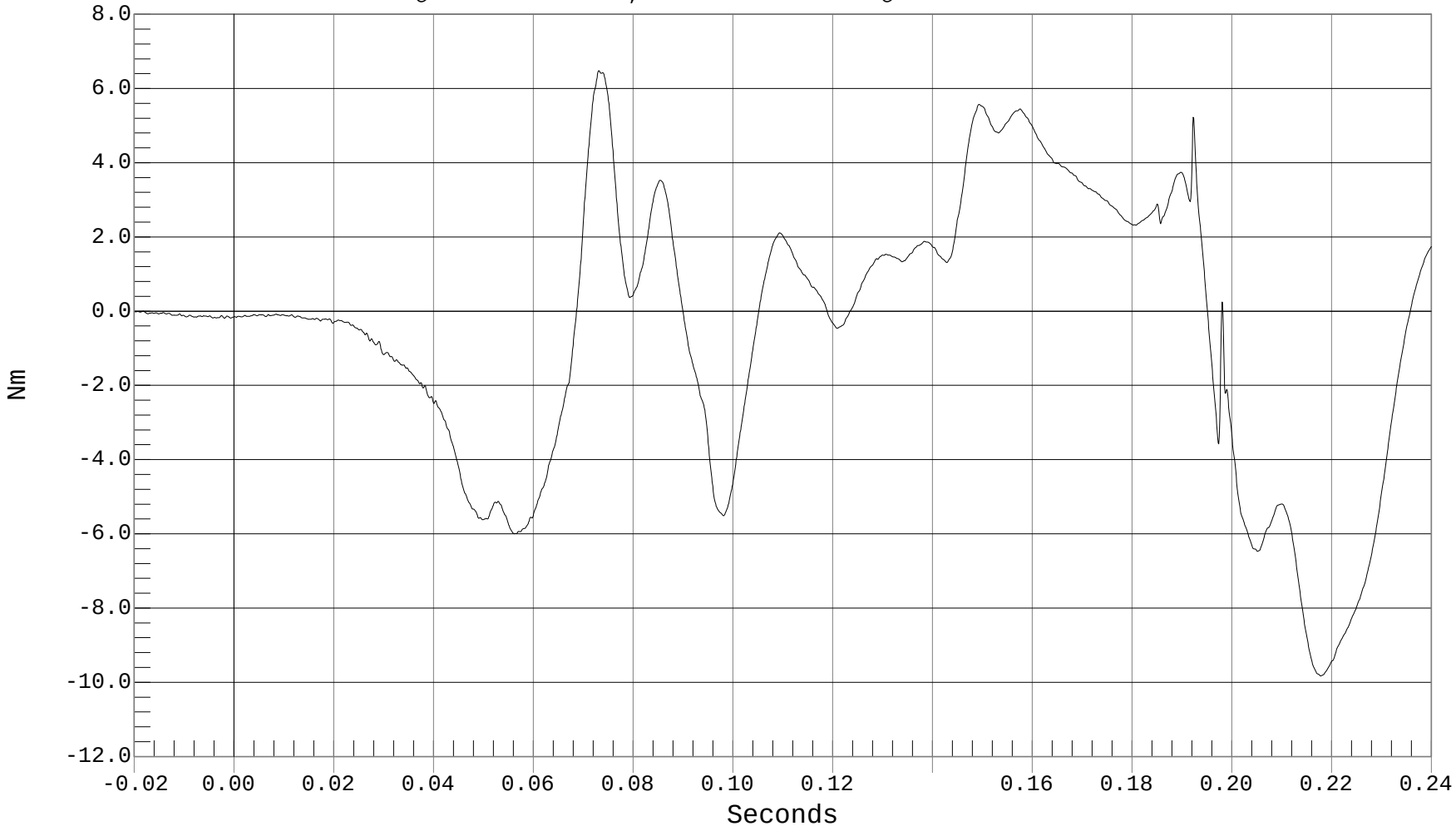
RRS 3 YR OLD UPPER NECK MOMENT Y

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 RRS CHILD UPPER NECK MOMENT Y, b01005MF.M44

Ymin = -9.83 Nm @ 0.2179 Seconds, Ymax = 6.48 Nm @ 0.0732 Seconds



RRS 3 YEAR OLD UPPER NECK MOMENT Z

NO VALID DATA COLLECTED

RRS 3 YEAR OLD UPPER NECK MOMENT RESULTANT

NO VALID DATA COLLECTED

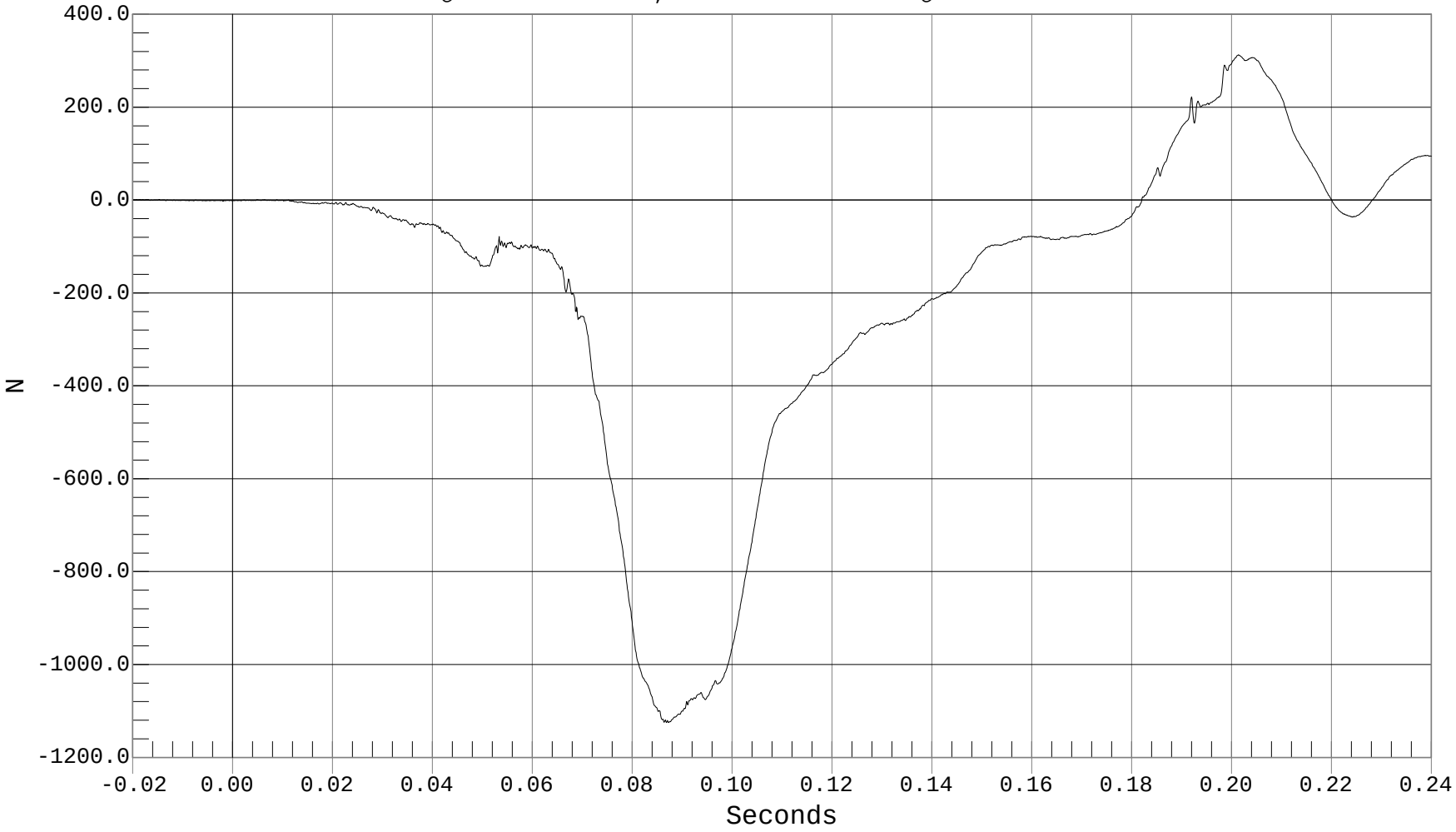
RRS 3 YR OLD LOWER NECK FORCE X

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 RRS CHILD LOWER NECK FORCE X, b01005FT.F46

Ymin = -1124.91 N @ 0.0869 Seconds, Ymax = 312.83 N @ 0.2014 Seconds



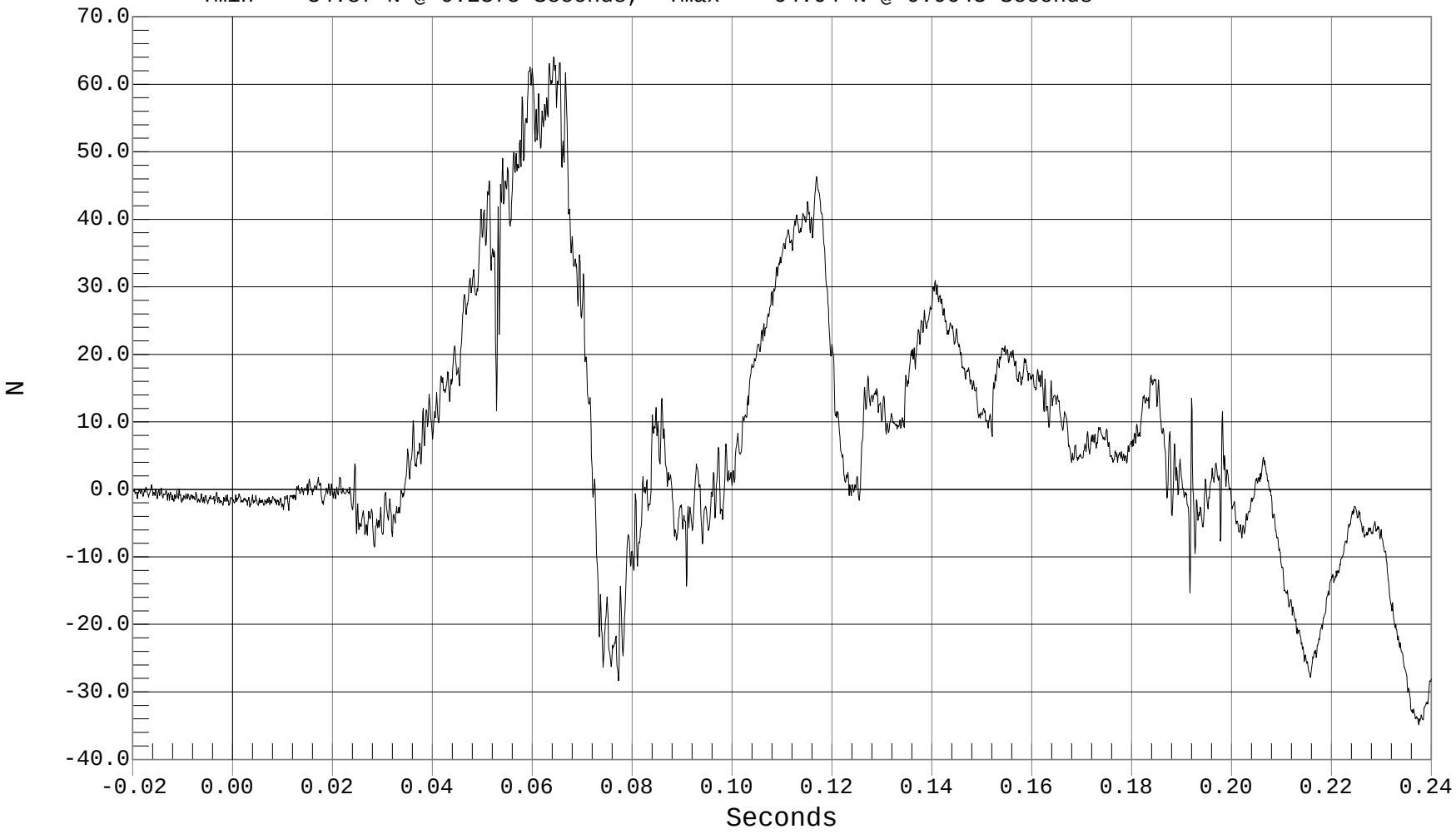
RRS 3 YR OLD LOWER NECK FORCE Y

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 RRS CHILD LOWER NECK FORCE Y, b01005FT.F47

Ymin = -34.87 N @ 0.2375 Seconds, Ymax = 64.04 N @ 0.0643 Seconds



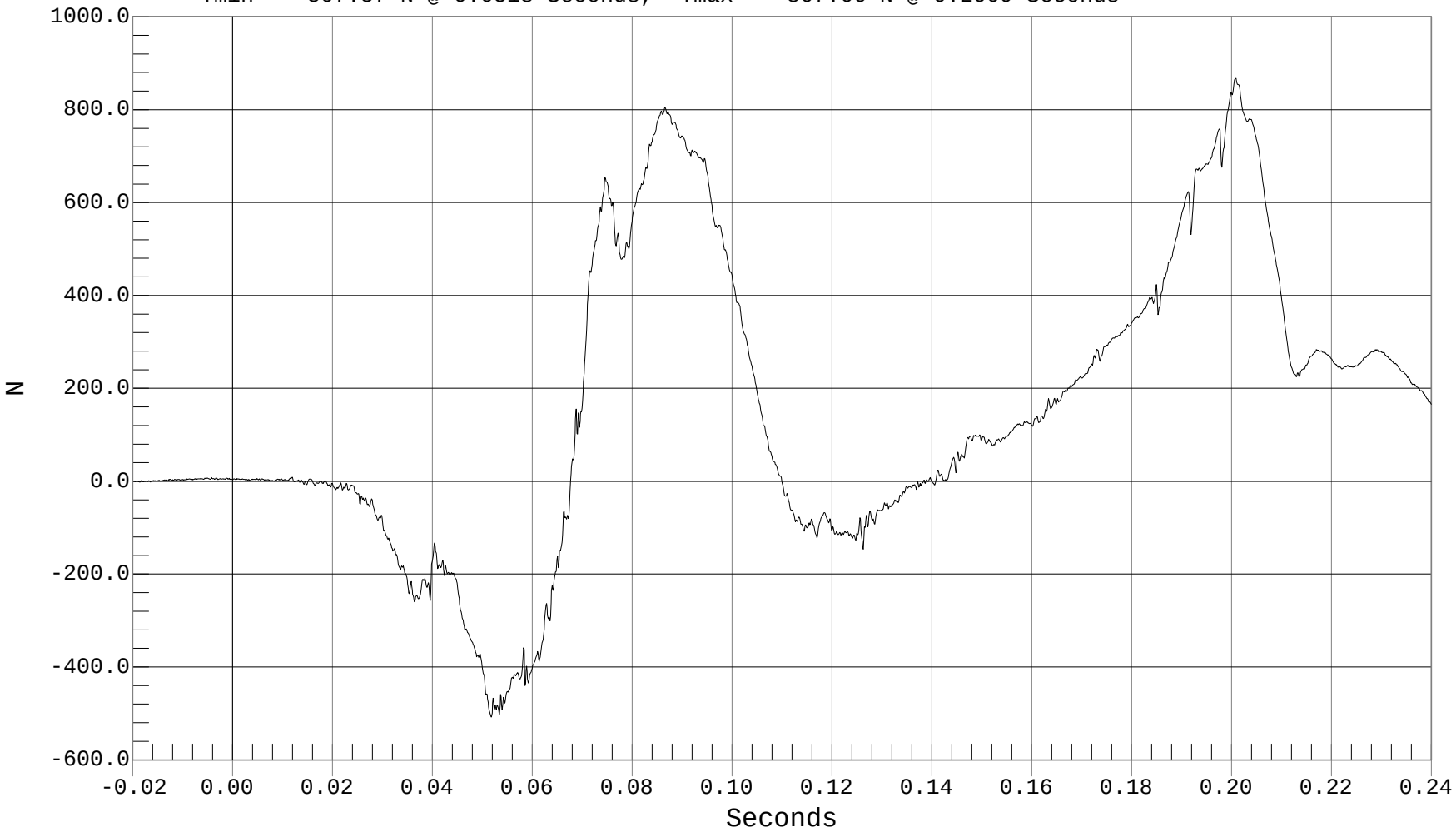
RRS 3 YR OLD LOWER NECK FORCE Z

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 RRS CHILD LOWER NECK FORCE Z, b01005FT.F48

Ymin = -507.57 N @ 0.0518 Seconds, Ymax = 867.66 N @ 0.2009 Seconds



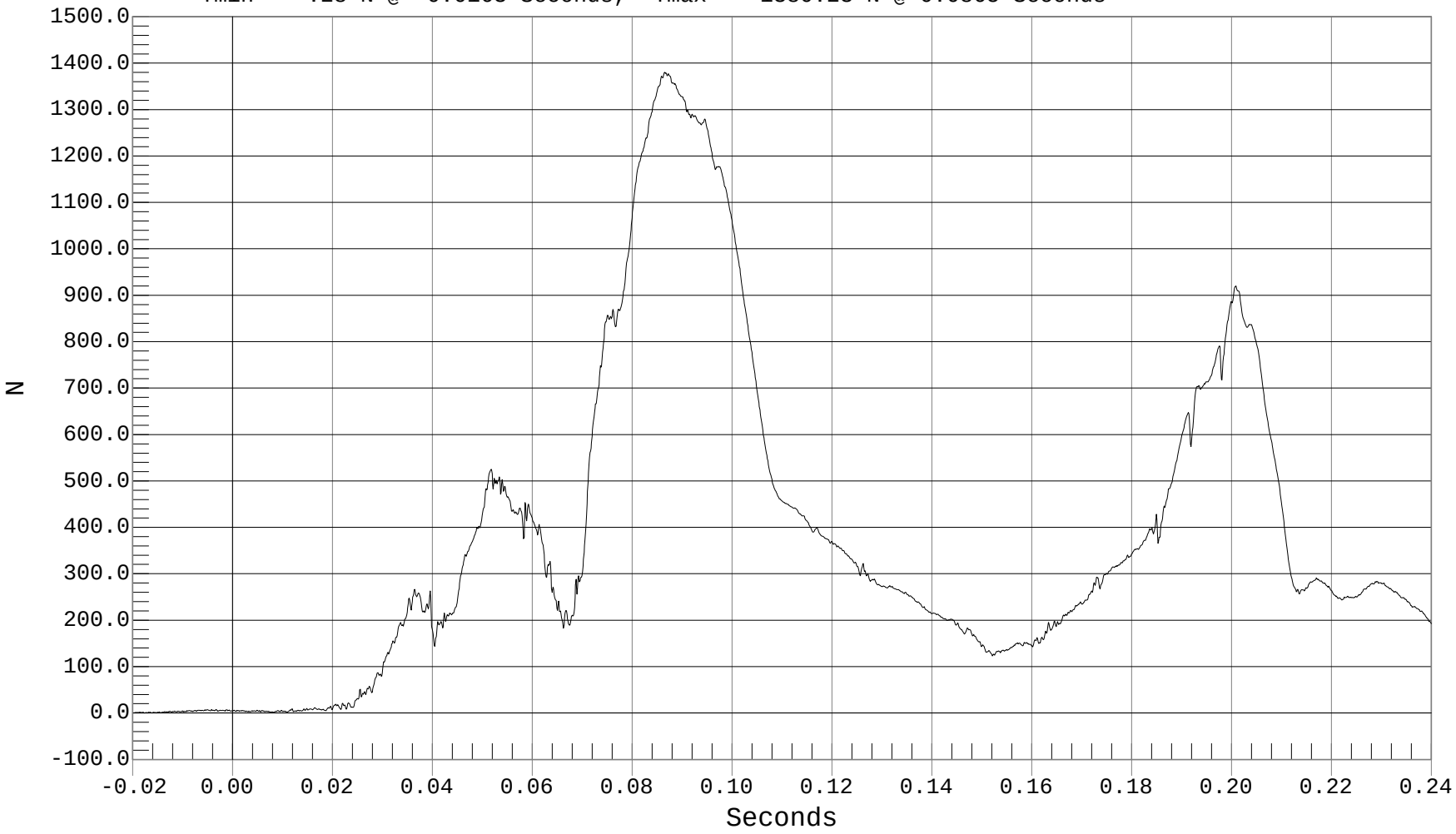
RRS 3 YR OLD LOWER NECK FORCE RESULTANT

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 RRS 3 YR OLD LOWER NECK FORCE RESULTANT, b01005FV.F46

Ymin = .28 N @ -0.0163 Seconds, Ymax = 1380.23 N @ 0.0865 Seconds



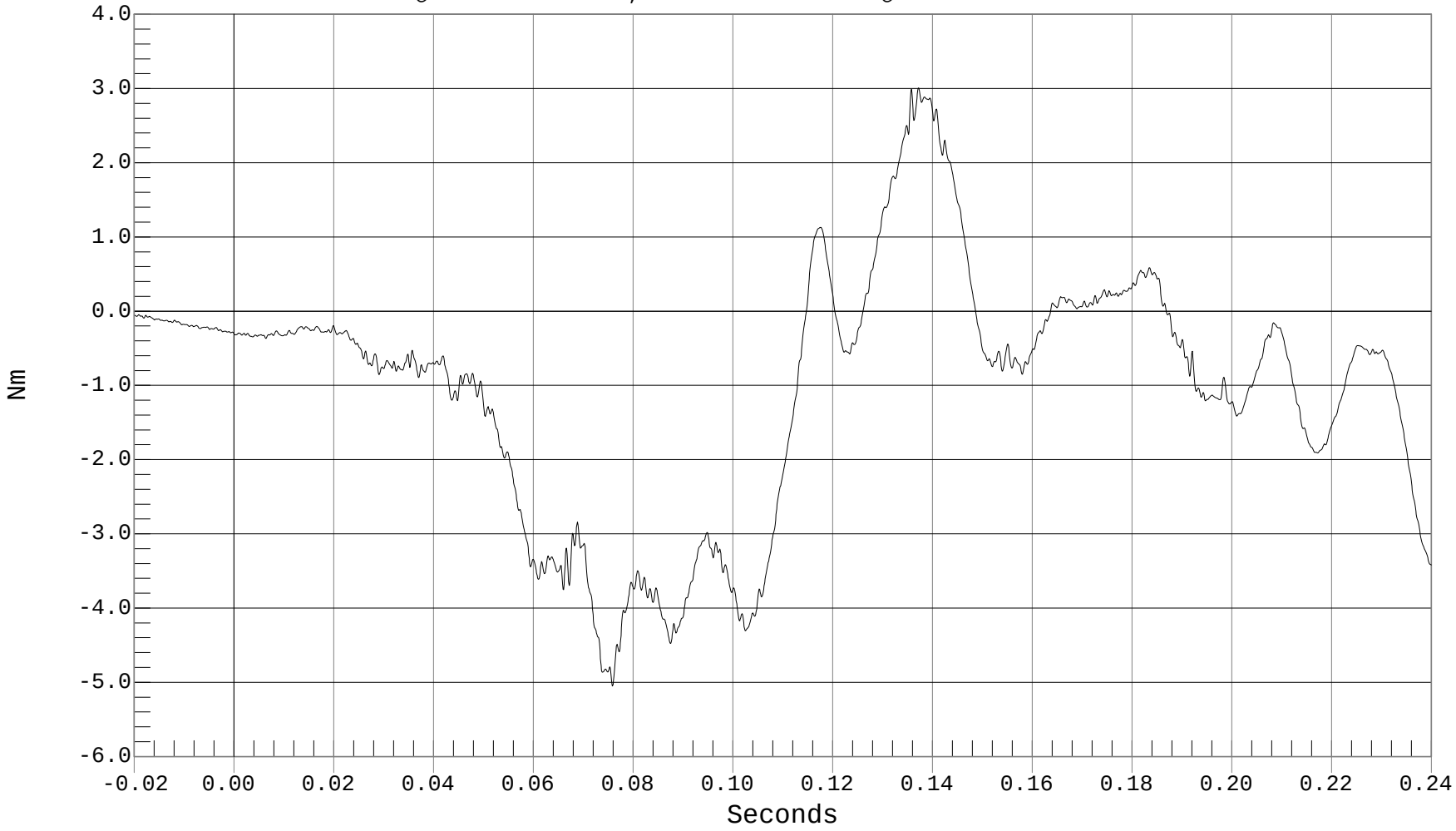
RRS 3 YR OLD LOWER NECK MOMENT X

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 RRS CHILD LOWER NECK MOMENT X, b01005MF.M49

Ymin = -5.05 Nm @ 0.0759 Seconds, Ymax = 3.01 Nm @ 0.1372 Seconds



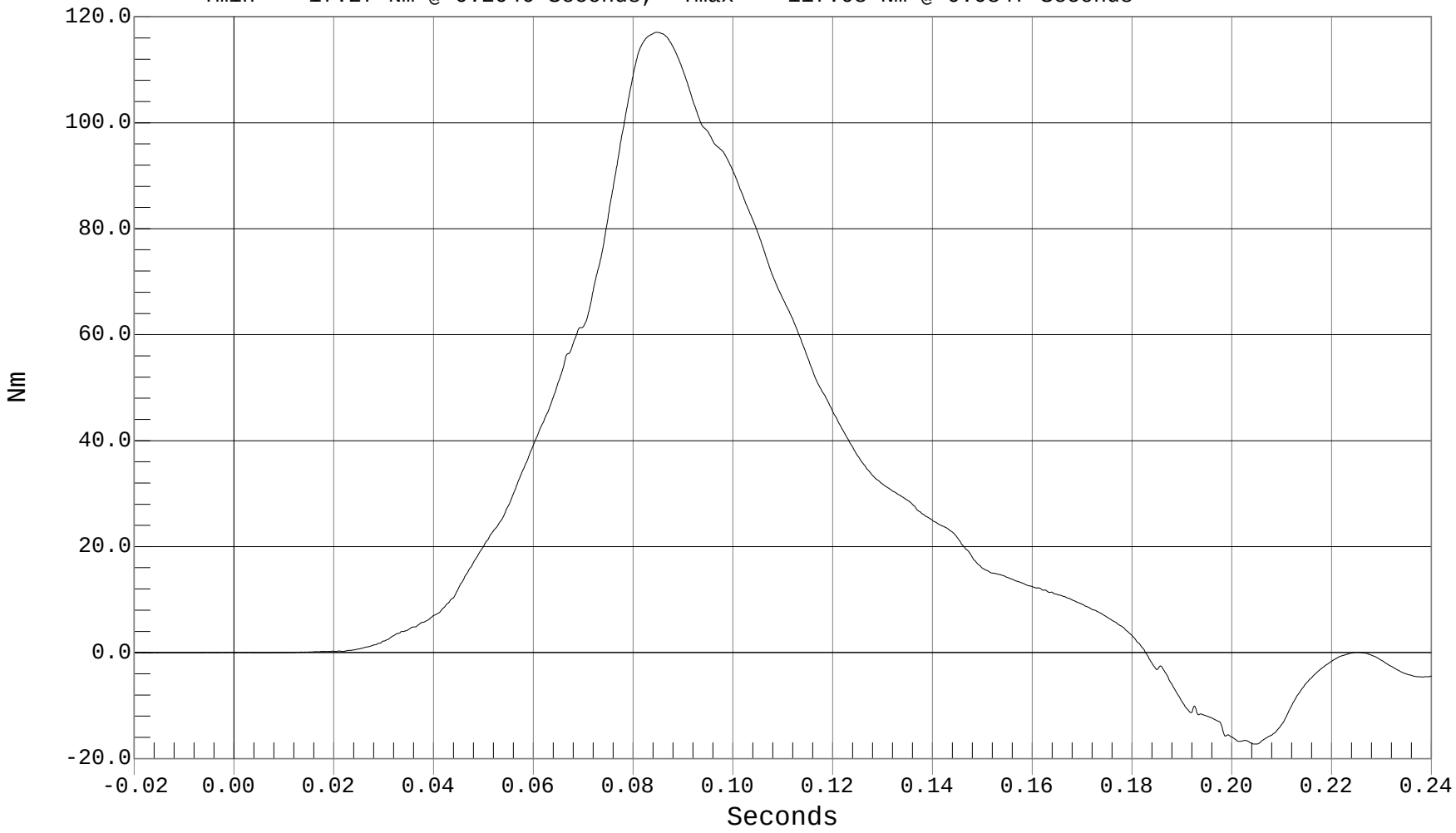
RRS 3 YR OLD LOWER NECK MOMENT Y

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 RRS CHILD LOWER NECK MOMENT Y, b01005MF.M50

Ymin = -17.27 Nm @ 0.2046 Seconds, Ymax = 117.08 Nm @ 0.0847 Seconds



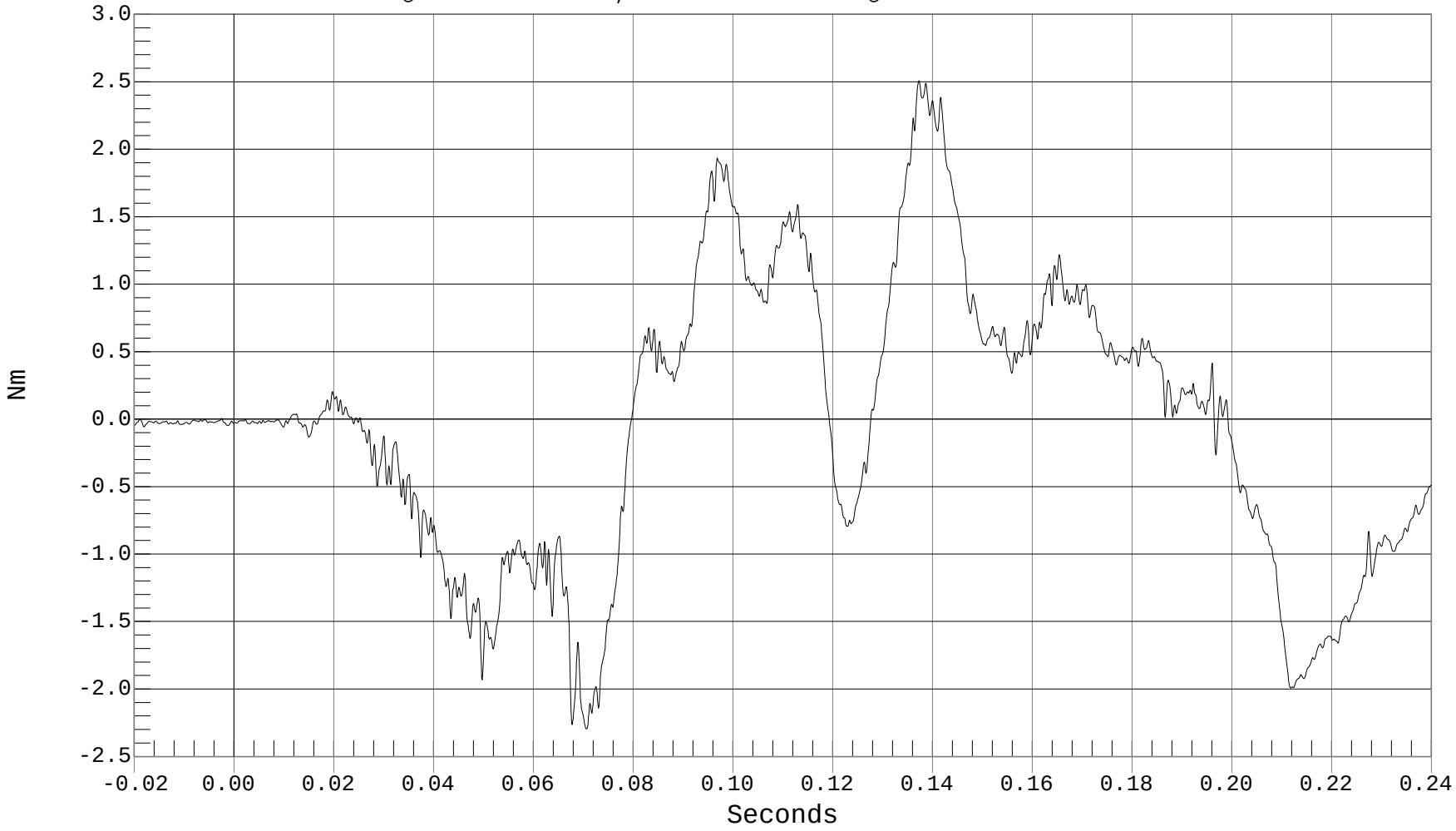
RRS 3 YR OLD LOWER NECK MOMENT Z

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 RRS CHILD LOWER NECK MOMENT Z, b01005MF.M51

Ymin = -2.3 Nm @ 0.0707 Seconds, Ymax = 2.51 Nm @ 0.1373 Seconds



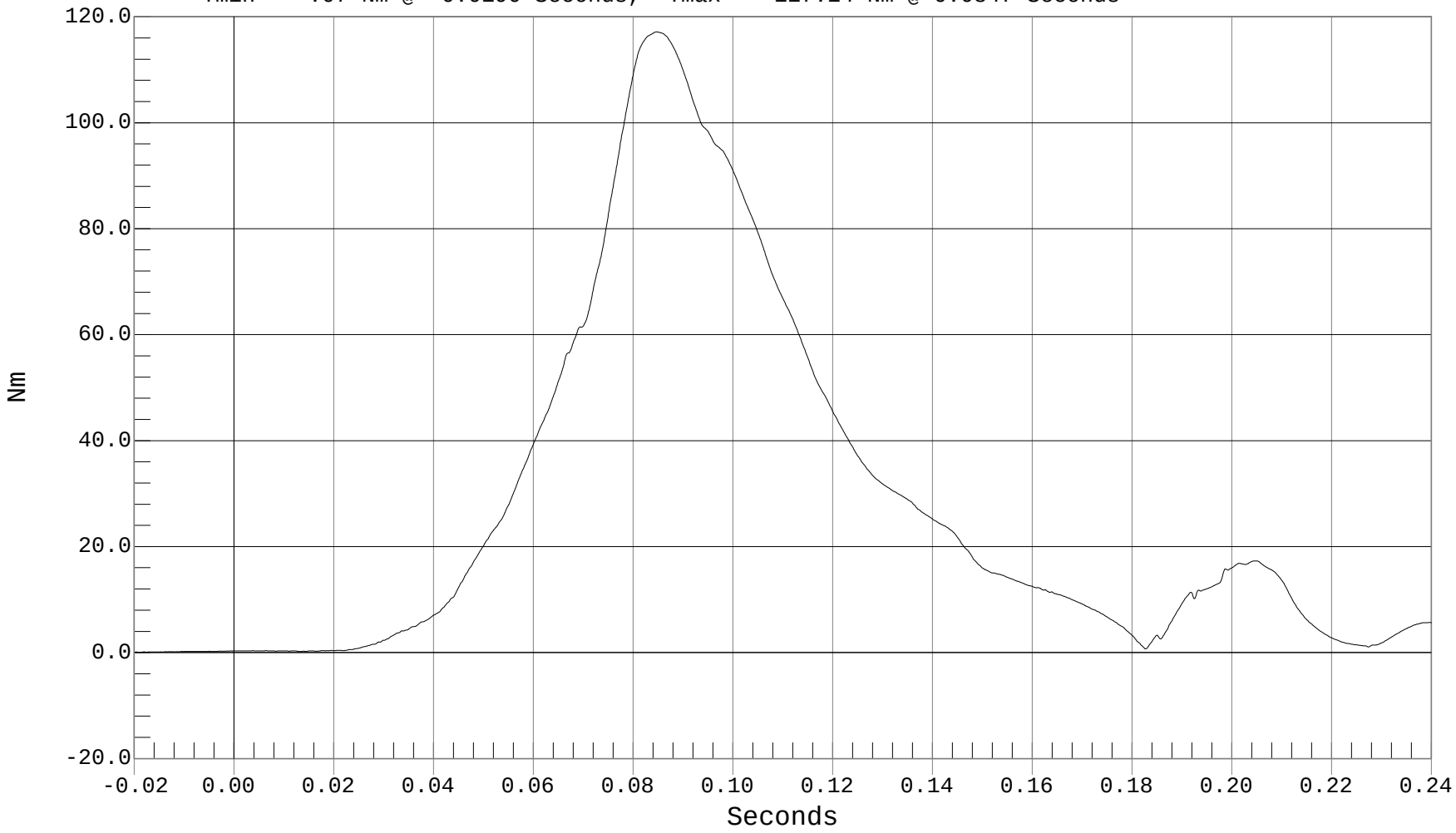
RRS 3 YR OLD LOWER NECK MOMENT RESULTANT

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 RRS 3 YR OLD LOWER NECK MOMENT RESULTANT, b01005MV.M49

Ymin = .07 Nm @ -0.0190 Seconds, Ymax = 117.14 Nm @ 0.0847 Seconds



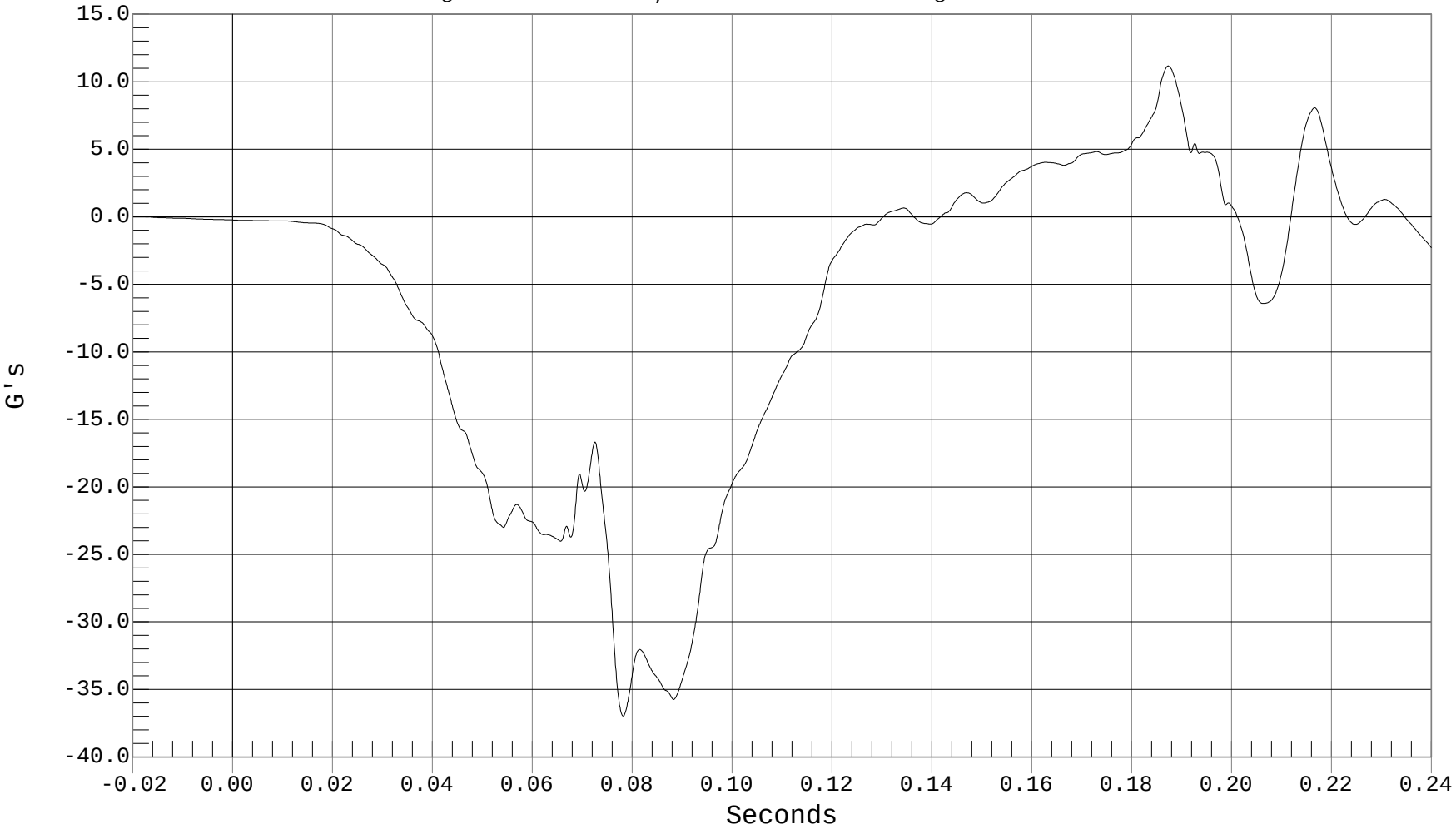
RRS 3 YR OLD CHEST X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 RRS CHILD CHEST X, b01005AF.A52

Ymin = -36.97 G's @ 0.0782 Seconds, Ymax = 11.17 G's @ 0.1873 Seconds



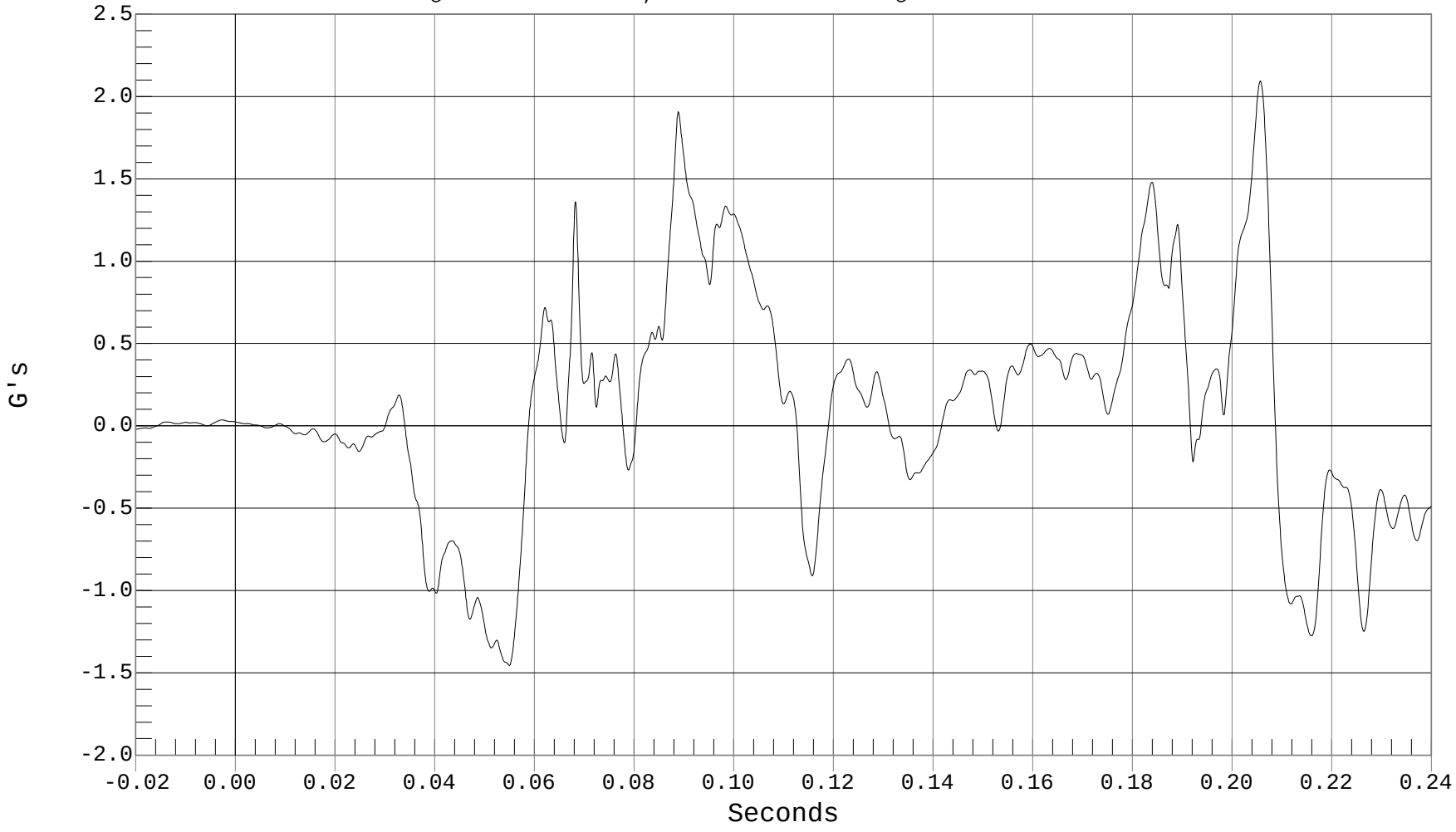
RRS 3 YR OLD CHEST Y ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 RRS CHILD CHEST Y, b01005AF.A53

Ymin = -1.46 G's @ 0.0550 Seconds, Ymax = 2.1 G's @ 0.2057 Seconds



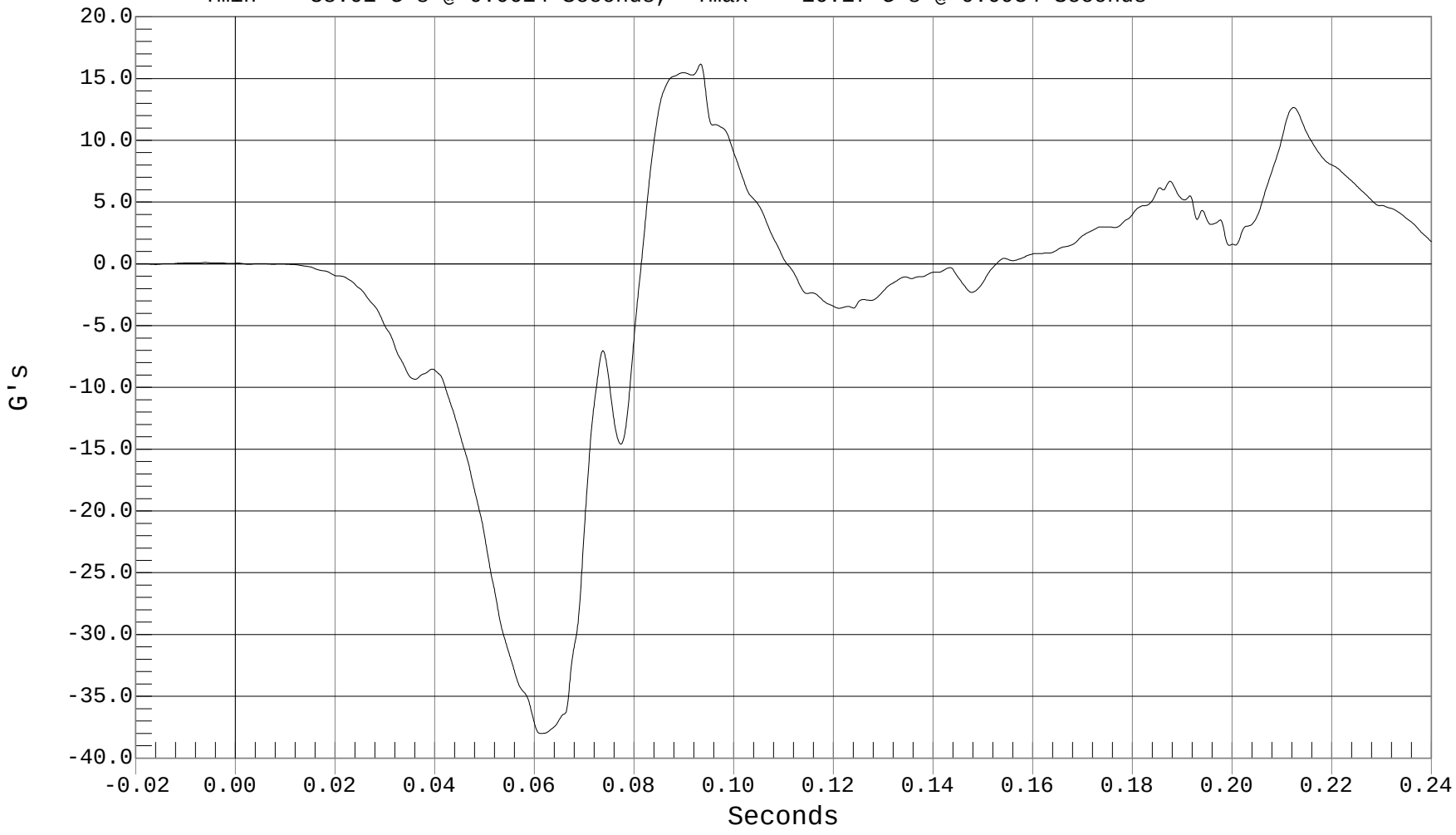
RRS 3 YR OLD CHEST Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 RRS CHILD CHEST Z, b01005AF.A54

Ymin = -38.01 G's @ 0.0614 Seconds, Ymax = 16.17 G's @ 0.0934 Seconds



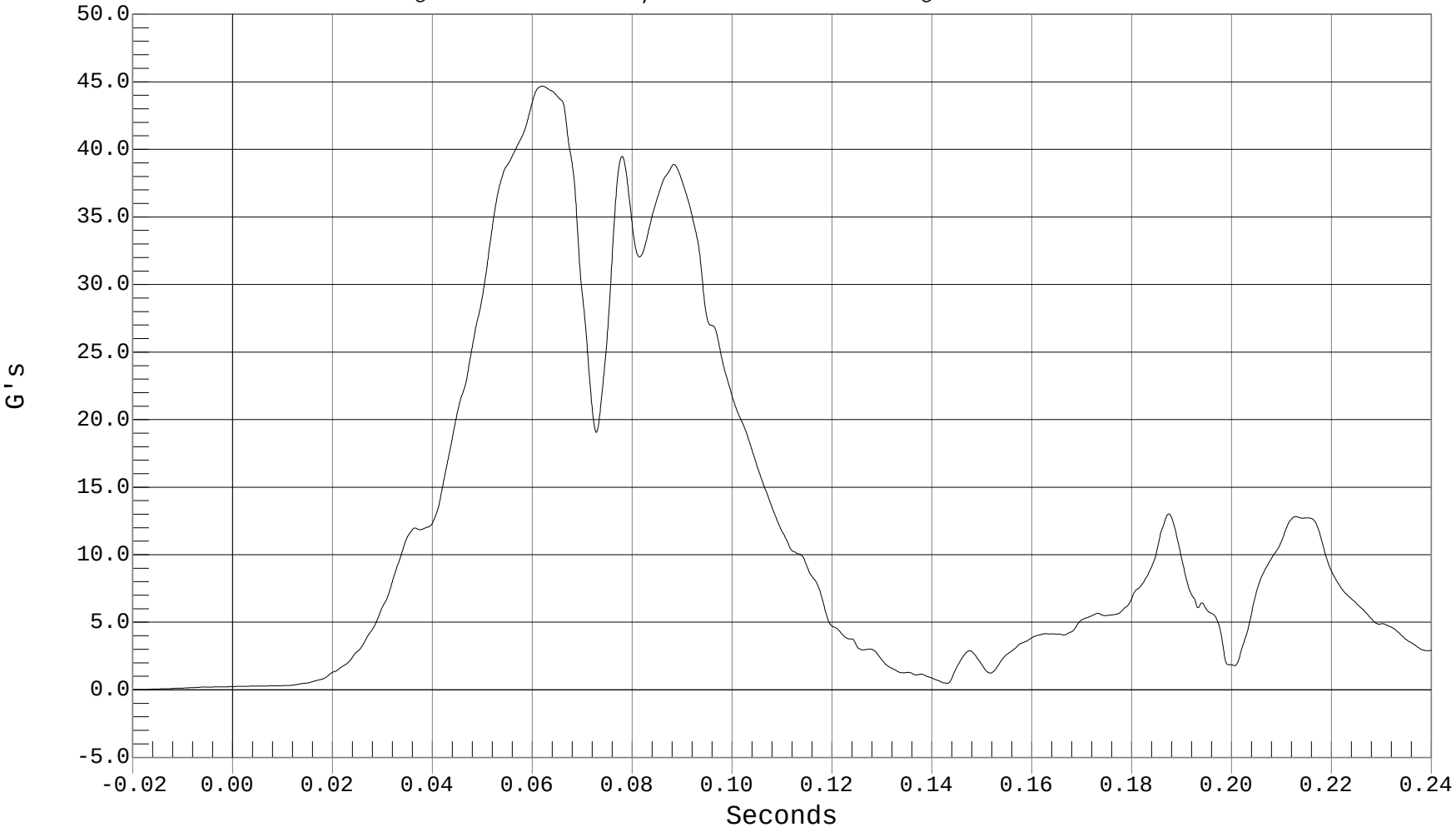
RRS 3 YR OLD CHEST RESULTANT ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 RRS 3 YR OLD CHEST RESULTANT ACCELERATION, b01005AV.A52

Ymin = .02 G's @ -0.0173 Seconds, Ymax = 44.69 G's @ 0.0621 Seconds



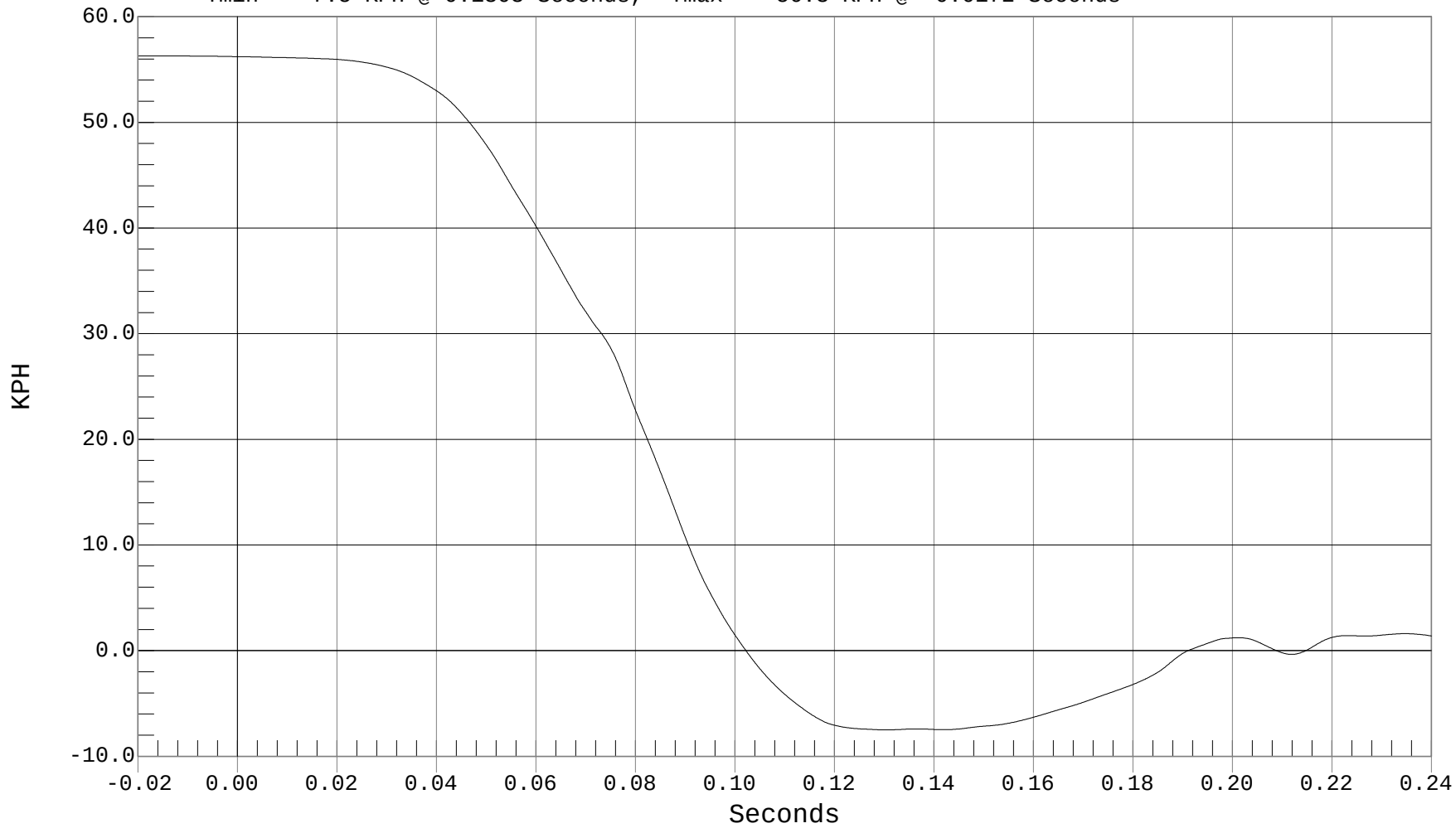
RRS 3 YR OLD CHEST X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 RRS 3 YR OLD CHEST X VELOCITY, b01005AI.V52

Ymin = -7.5 KPH @ 0.1303 Seconds, Ymax = 56.3 KPH @ -0.0172 Seconds



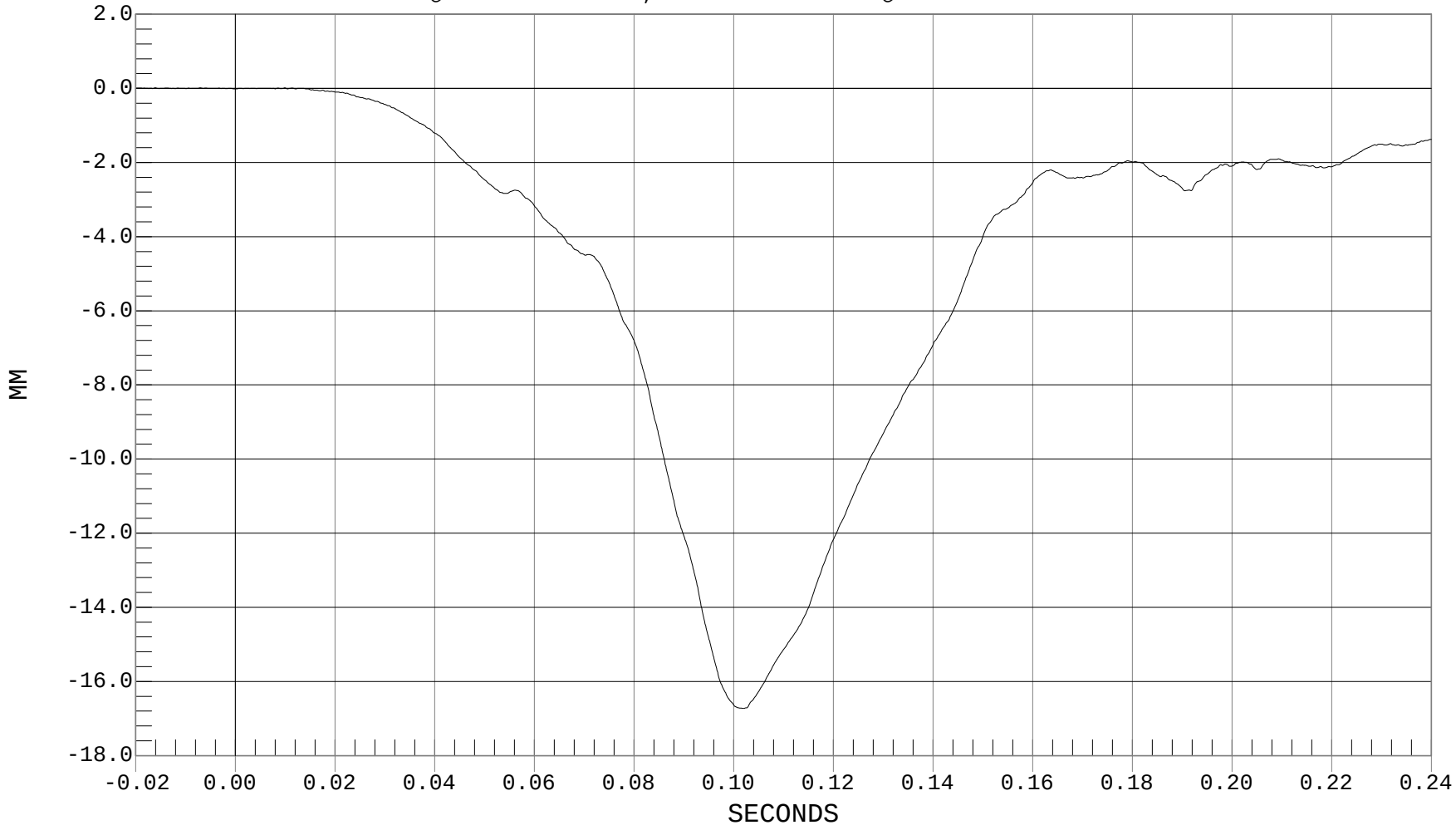
RRS 3 YR OLD CHEST COMPRESSION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 600

1 DISPLACEMENT, b01005DF.D55

Ymin = -16.73 MM @ 0.1019 SECONDS, Ymax = .02 MM @ -0.0160 SECONDS



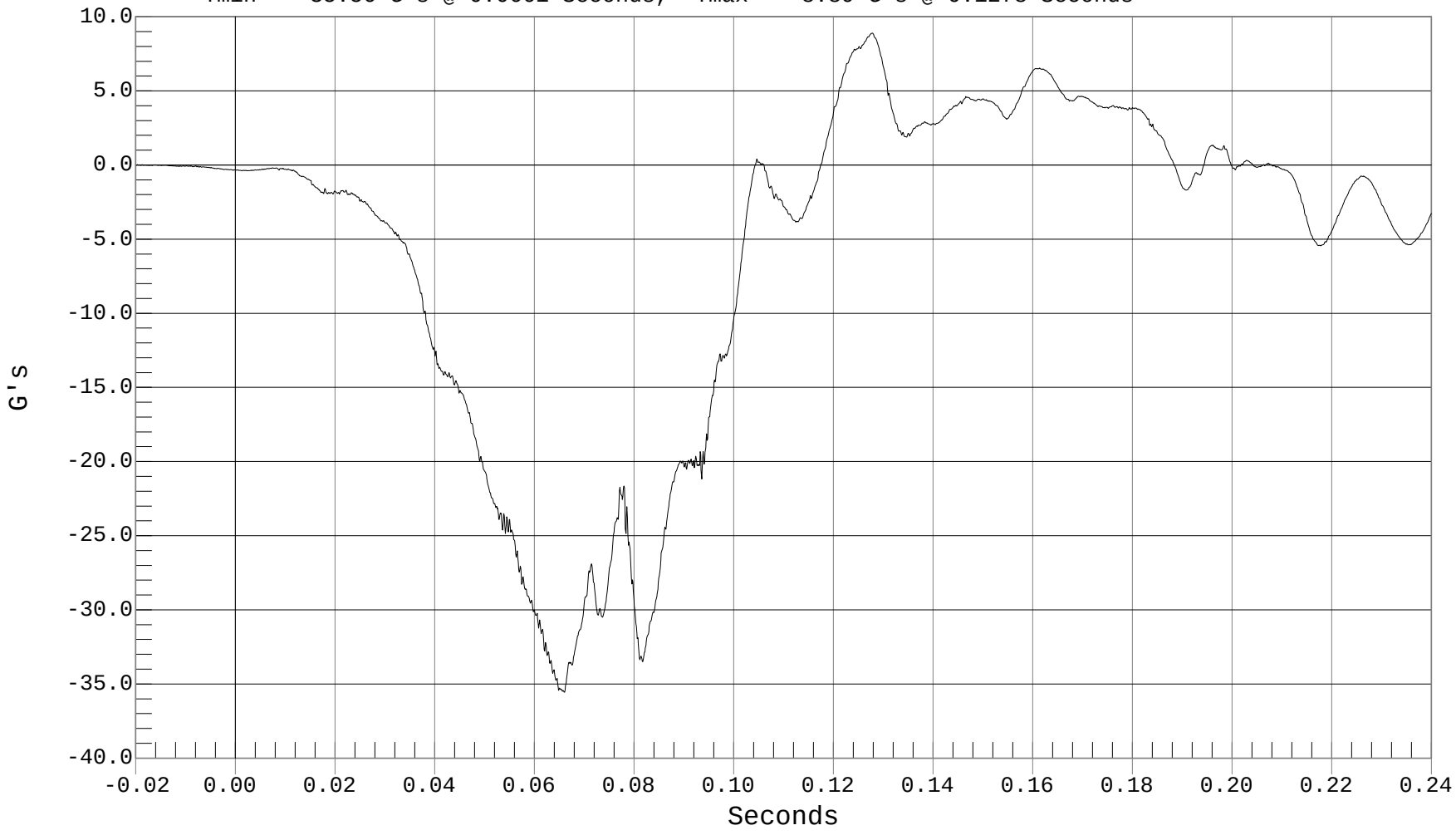
RRS 3 YR OLD PELVIS X ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 RRS CHILD PELVIS X, b01005AT.A56

Ymin = -35.56 G's @ 0.0661 Seconds, Ymax = 8.89 G's @ 0.1278 Seconds



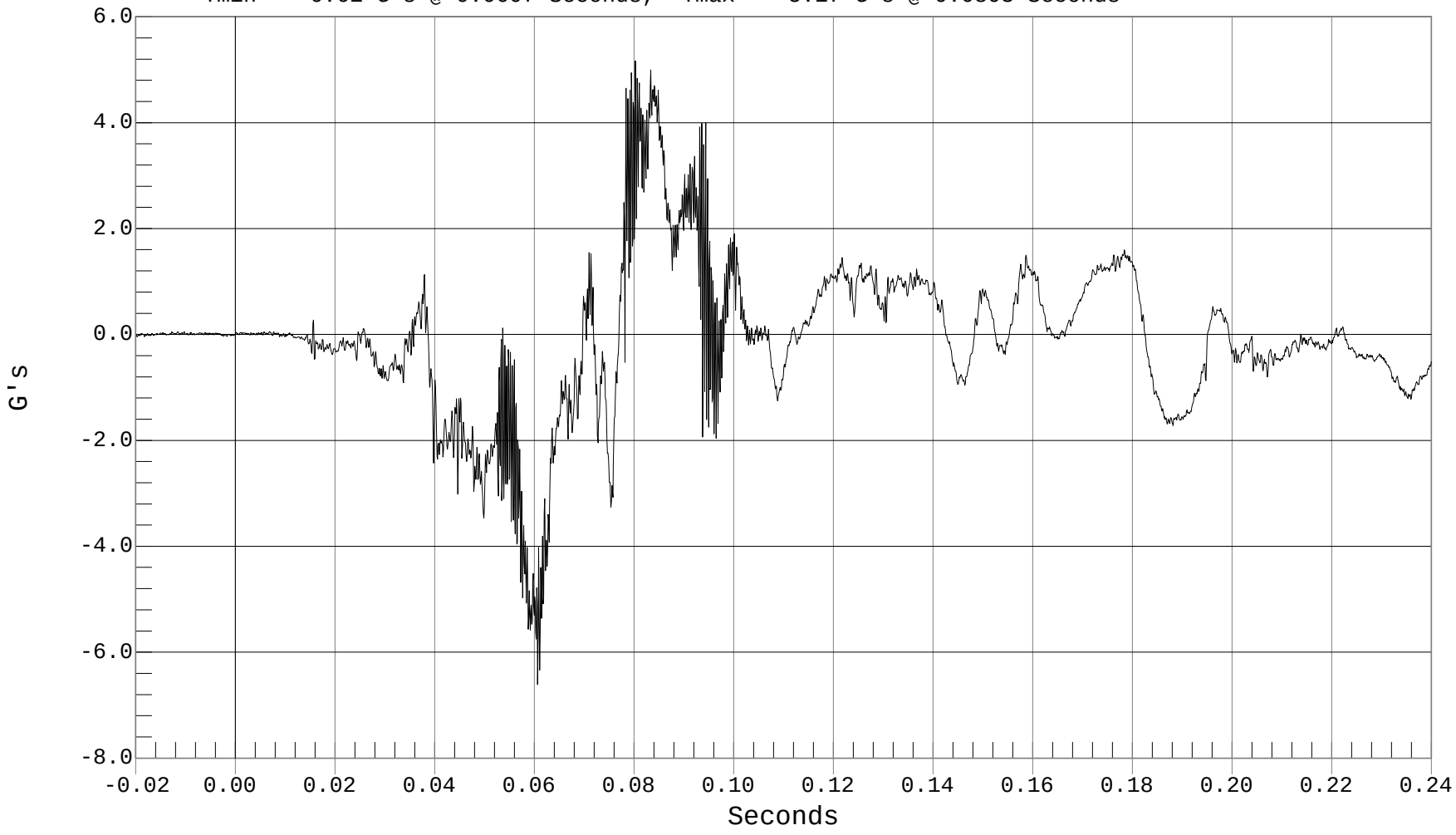
RRS 3 YR OLD PELVIS Y ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 RRS CHILD PELVIS Y, b01005AT.A57

Ymin = -6.61 G's @ 0.0607 Seconds, Ymax = 5.17 G's @ 0.0803 Seconds



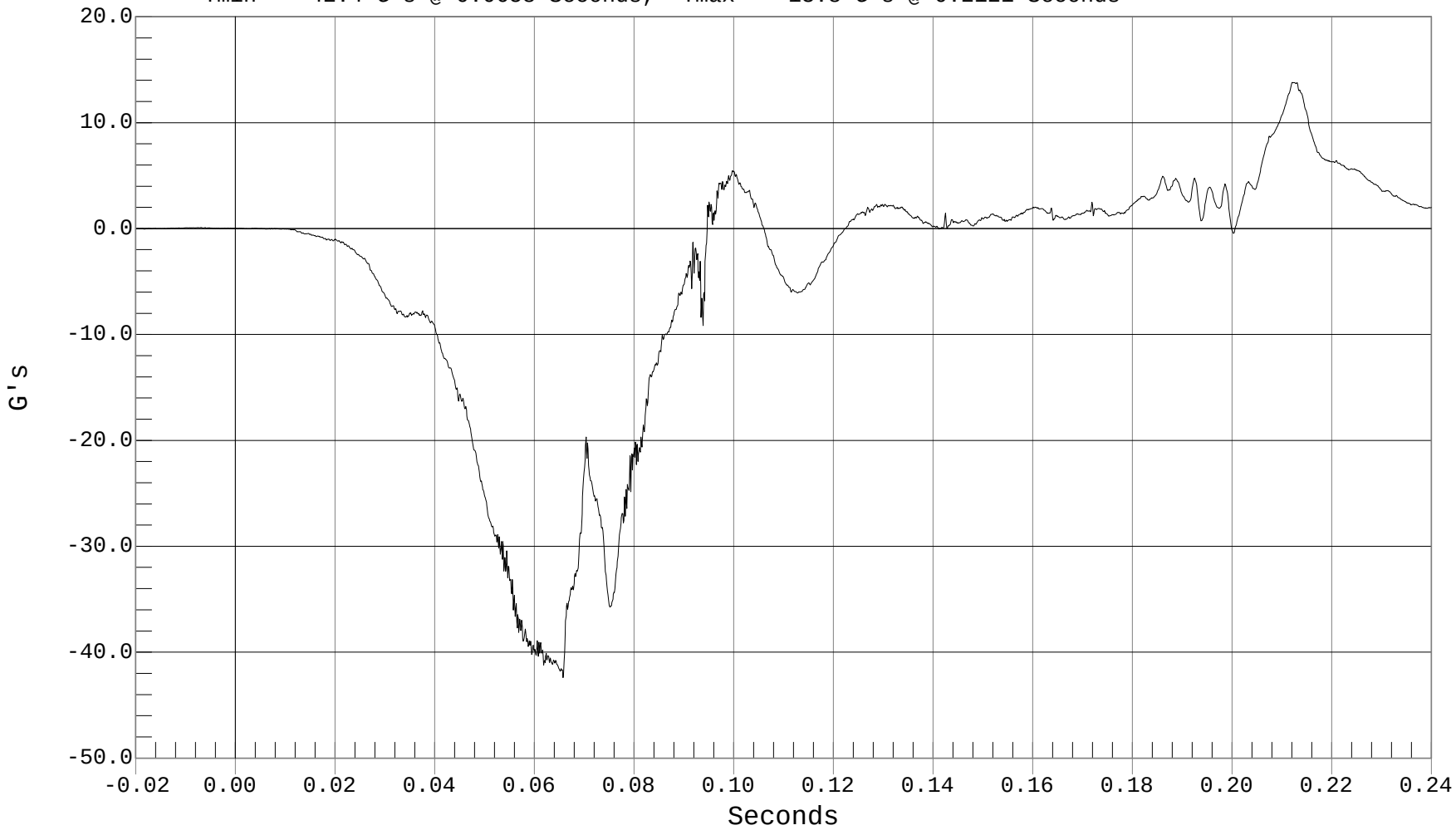
RRS 3 YR OLD PELVIS Z ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 RRS CHILD PELVIS Z, b01005AT.A58

Ymin = -42.4 G's @ 0.0658 Seconds, Ymax = 13.8 G's @ 0.2121 Seconds



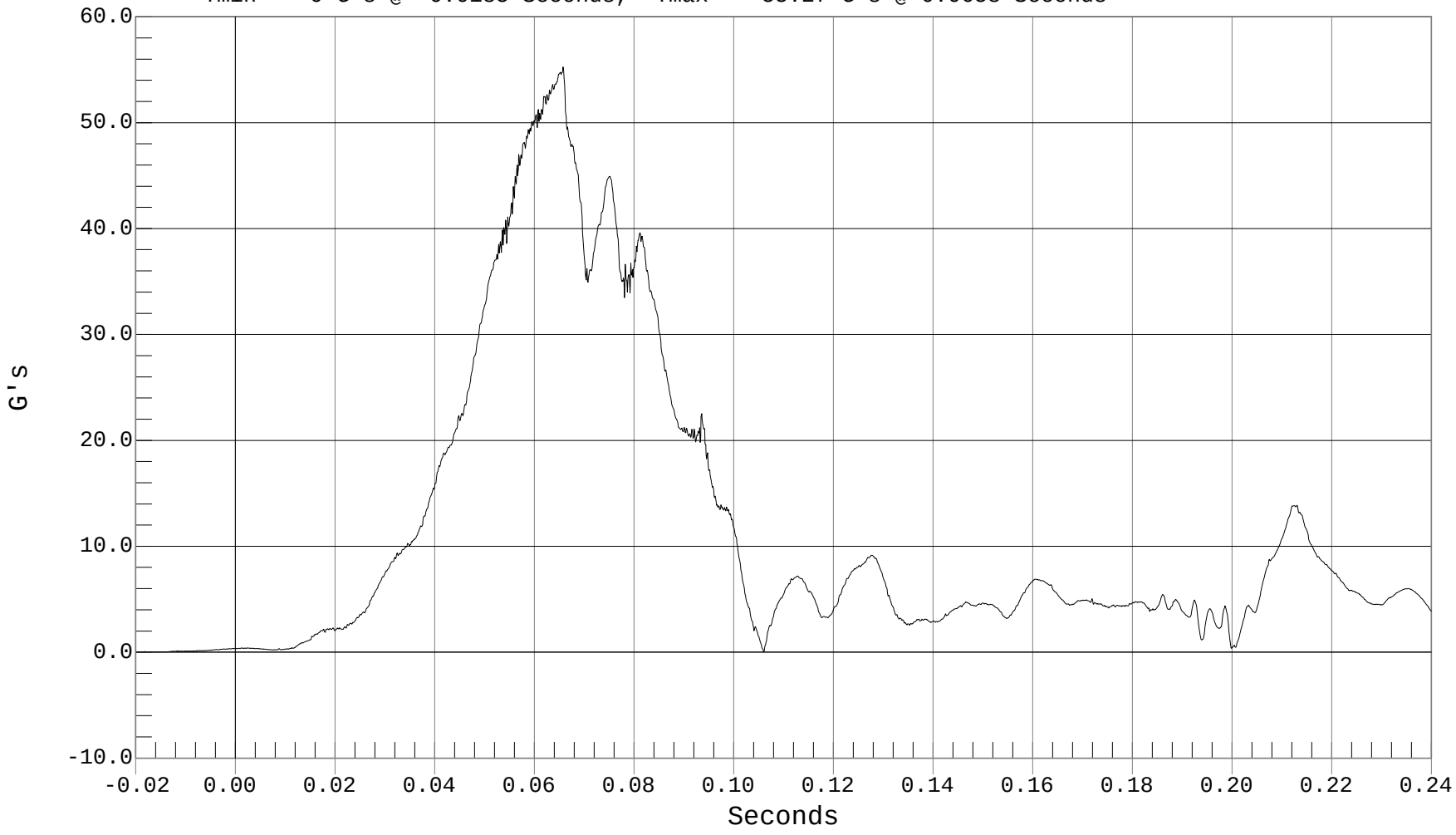
RRS 3 YR OLD PELVIS RESULTANT ACCELERATION

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 1000

1 RRS 3 YR OLD PELVIS RESULTANT ACCELERATION, b01005AV.A56

Ymin = 0 G's @ -0.0185 Seconds, Ymax = 55.27 G's @ 0.0658 Seconds



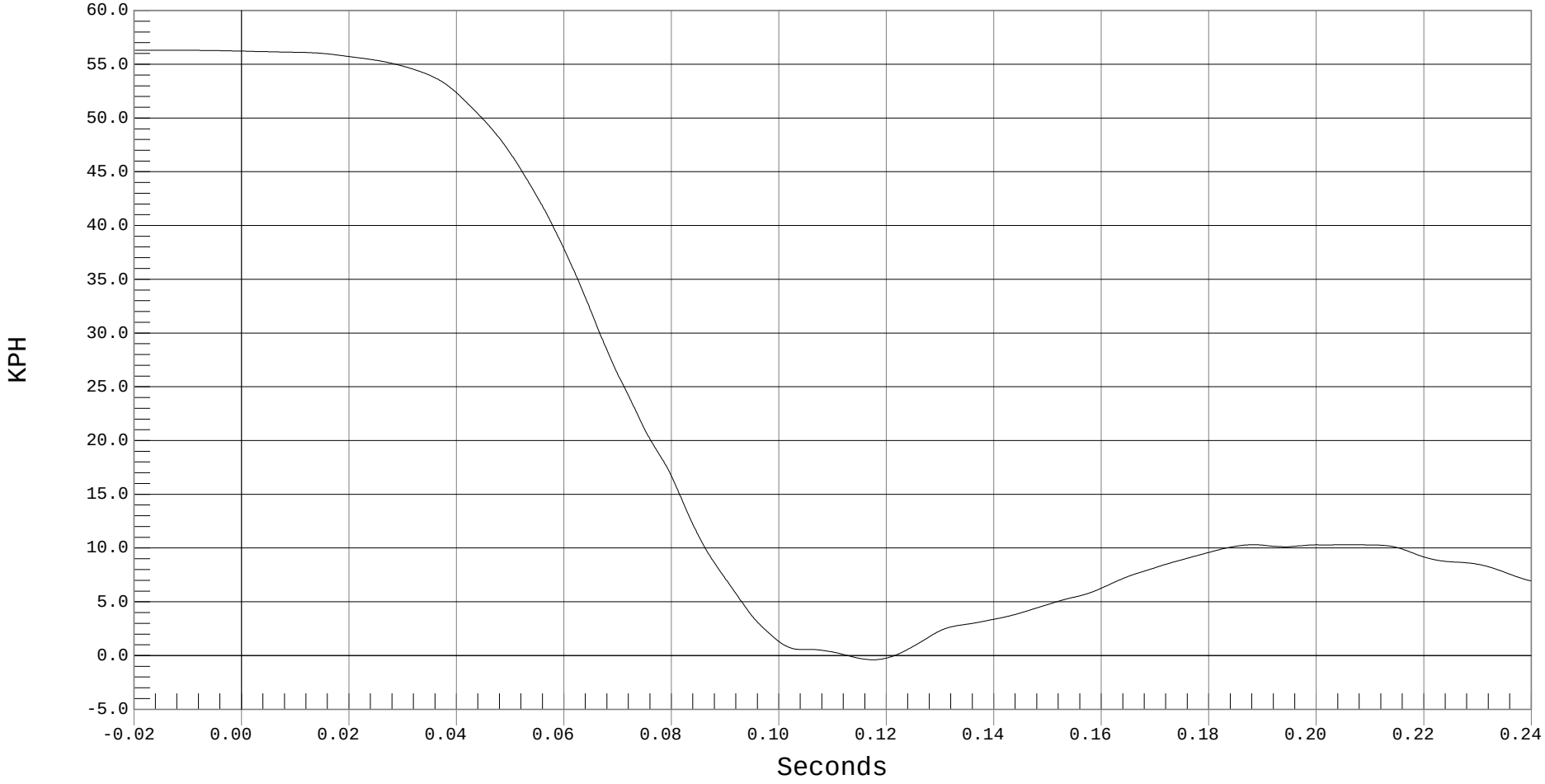
RRS 3 YR OLD PELVIS X VELOCITY

Test Desc.: NCAP FRONTAL IMPACT
Component: 2001 DODGE STRATUS 4 DOOR (M10313)
Other Info:

Test Date: 01-18-01
Speed: 35.0 MPH, 56.3 KPH
Filter Class: 180

1 RRS 3 YR OLD PELVIS X VELOCITY, B01005AI.V56

Ymin = -.39 KPH @ 0.1174 Seconds, Ymax = 56.3 KPH @ -0.0199 Seconds



CHILD DUMMY CALIBRATION DATA TRACES AND TABLES

Hybrid III Calibration Data Sheet

3 Year Old

Head Drop Calibration

ATD Serial No.: 139 Test I.D.: D01061

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.7°	PASS
Laboratory Relative Humidity	%	10 to 70	23%	PASS
Peak Resultant Acceleration	G's	250.0 to 280.0	261.7	PASS
Peak Lateral Acceleration	G's	≤ ±15.0	1.7	PASS
Is Acceleration Unimodal?	Yes/No	< 10% Peak	Yes	PASS
		Overall Test Results		PASS

1/11/00

Laboratory Technician

Test Date

Approved By

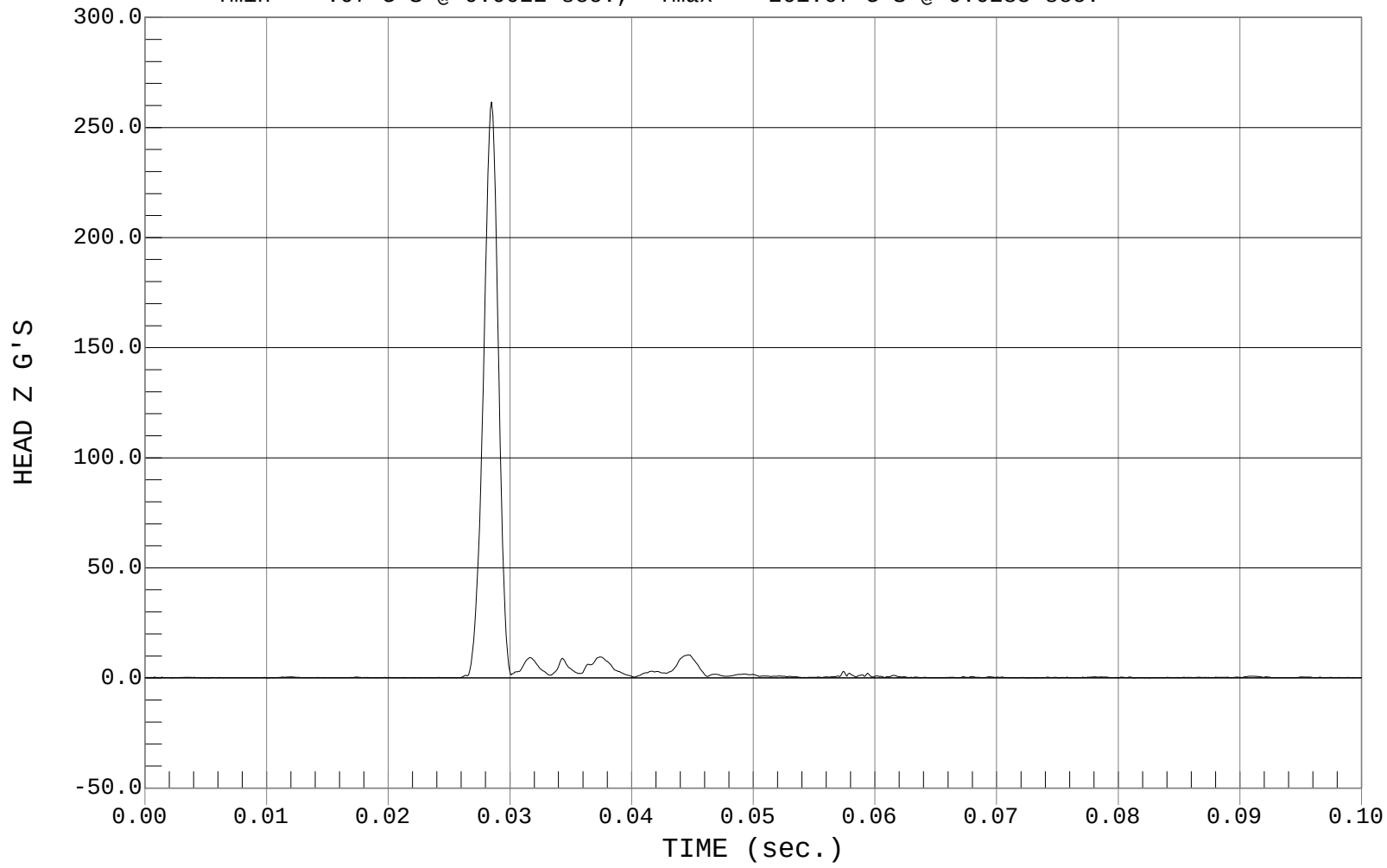
PEAK RESULTANT ACCELERATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #139

Test Date: 01-11-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

1 HEAD Z, D01061AV.A01

Ymin = .07 G'S @ 0.0022 sec., Ymax = 261.67 G'S @ 0.0285 sec.



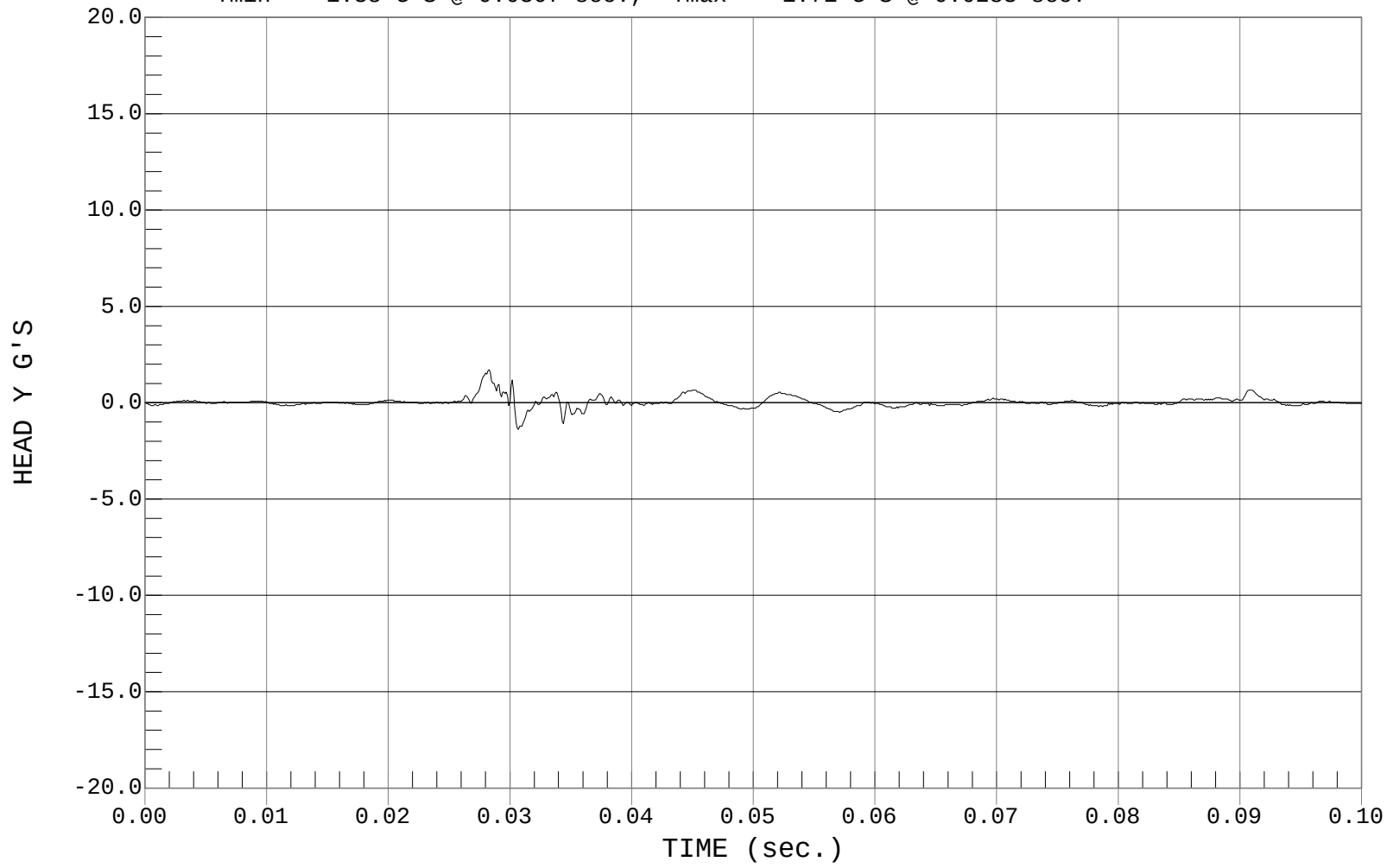
PEAK LATERAL ACCELRATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #139

Test Date: 01-11-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

1 HEAD Y, D01061AR.A02

Ymin = -1.38 G'S @ 0.0307 sec., Ymax = 1.71 G'S @ 0.0283 sec.



Hybrid III Calibration Data Sheet

3 Year Old

Thorax Impact Test

ATD Serial No.: 139 Test I.D.: D01064

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.7°	PASS
Laboratory Relative Humidity	%	10 to 70	29%	PASS
Probe Velocity	m/s	5.9 to 6.1	6.0	PASS
Peak Deflection	mm	32 to 38	33	PASS
Peak Resistive Force Within Deflection Corridor	kN	.68 to .81	.78	PASS
Internal Hysteresis	%	65 to 85	71%	PASS
Max Force 12.5 mm – 32 mm Deflection	kN	Max .86	.83	PASS
		Overall Test Results		PASS

Laboratory Technician

1/14/01
Test Date

Approved By

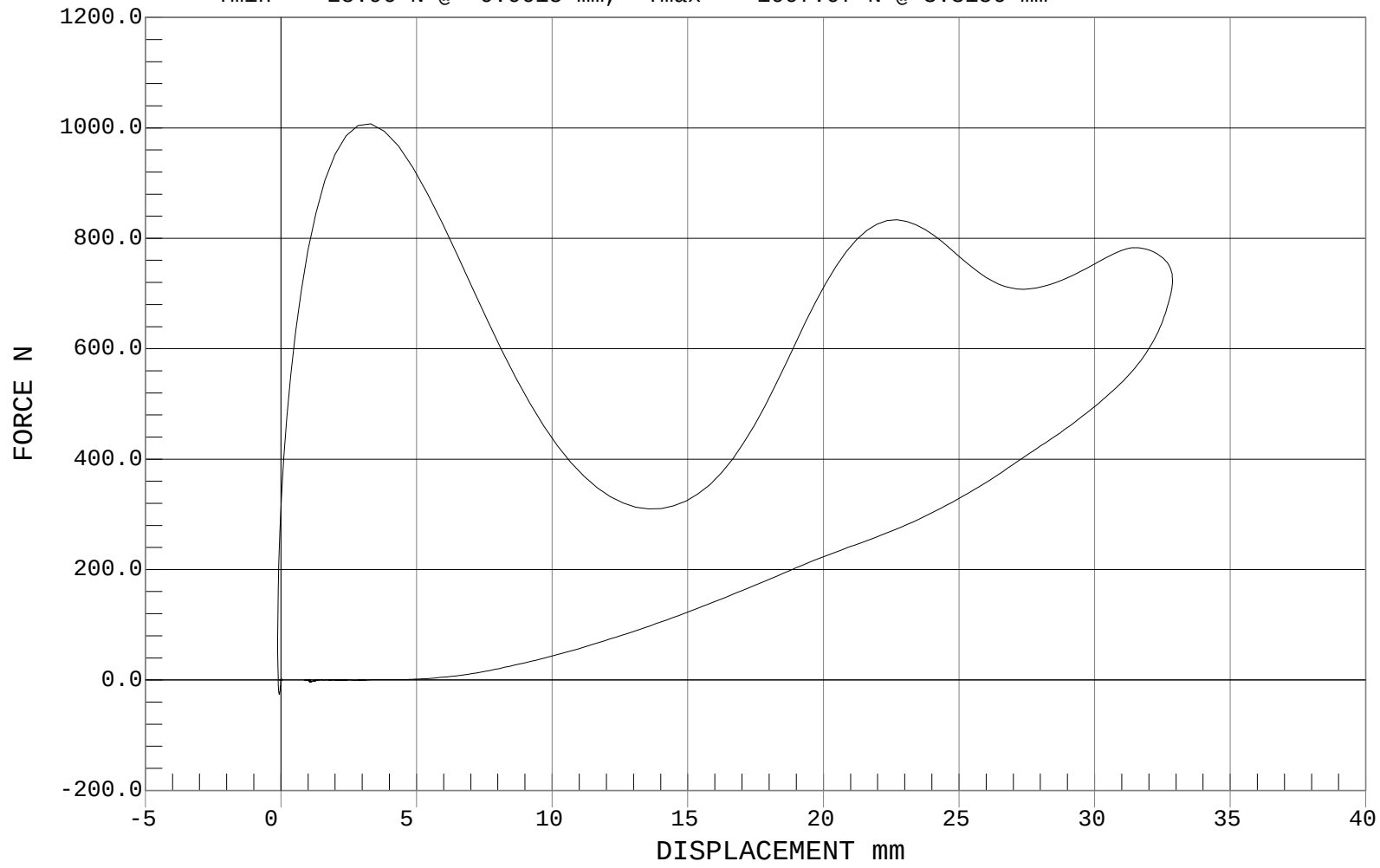
THORAX IMPACT

Test Desc.: Dummy Calibration - Chest Impact
Component: Dummy #139

Test Date: 01-14-01
Speed: 19.62 FT/SEC, 5.98 M/SEC

1 FORCE, D01064CH.FVD

Ymin = -25.96 N @ -0.0615 mm, Ymax = 1007.07 N @ 3.3156 mm



Hybrid III Calibration Data Sheet

3 Year Old

Neck Flexion Test

ATD Serial No.: 139 Test I.D.: D01062

Tested Parameter		Units	Specification	Result	Pass/Fail
Laboratory Temperature		°C	20.6 to 22.2	21.7°	PASS
Laboratory Relative Humidity		%	10 to 70	23%	PASS
Pendulum Velocity		m/s	5.4 to 5.6	5.5	PASS
Pendulum Deceleration	10 Msec.	m/s	2.0 to 2.7	2.4	PASS
	15 Msec.	m/s	3.0 to 4.0	3.5	PASS
	20 Msec.	m/s	4.0 to 5.1	4.7	PASS
"D" Plane Rotation	Maximum	Deg.	70.0 to 82.0	73.1	PASS
Moment About Occipital Condyle	Maximum	Nm	42.0 to 53.0	43.4	PASS
Positive Moment Decay Time To 10 Nm		Msec.	60.0 to 80.0	71.3	PASS
			Overall Test Results		PASS

Laboratory Technician

1/12/01
Test Date

Approved By

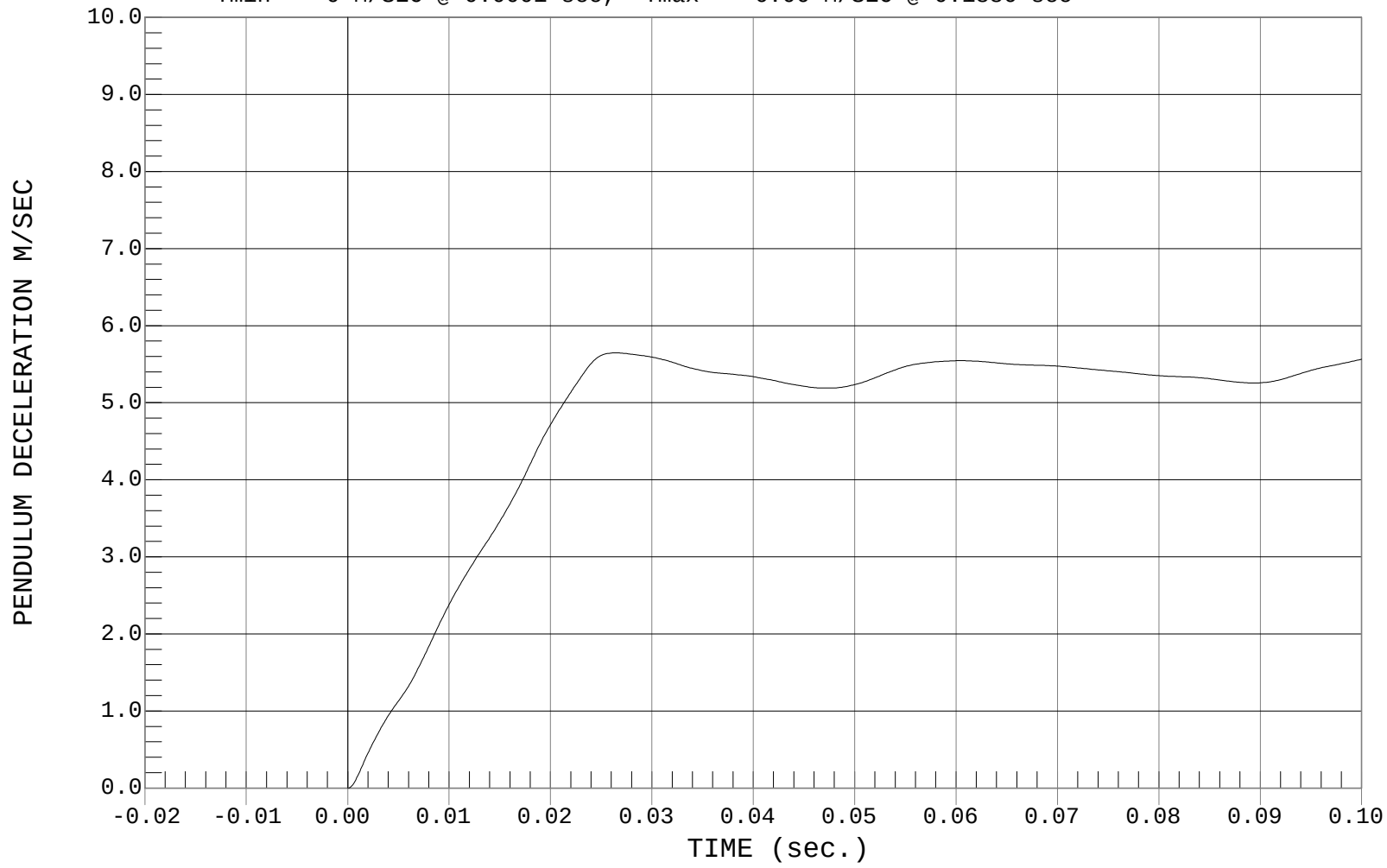
PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Neck Flexion
Component: Dummy #139

Test Date: 01-11-01
Speed: 18.00 FT/SEC, 5.49 M/SEC

1 PENDULUM DECELERATION, D01062AI.A04

Ymin = 0 M/SEC @ 0.0001 sec, Ymax = 6.06 M/SEC @ 0.1886 sec



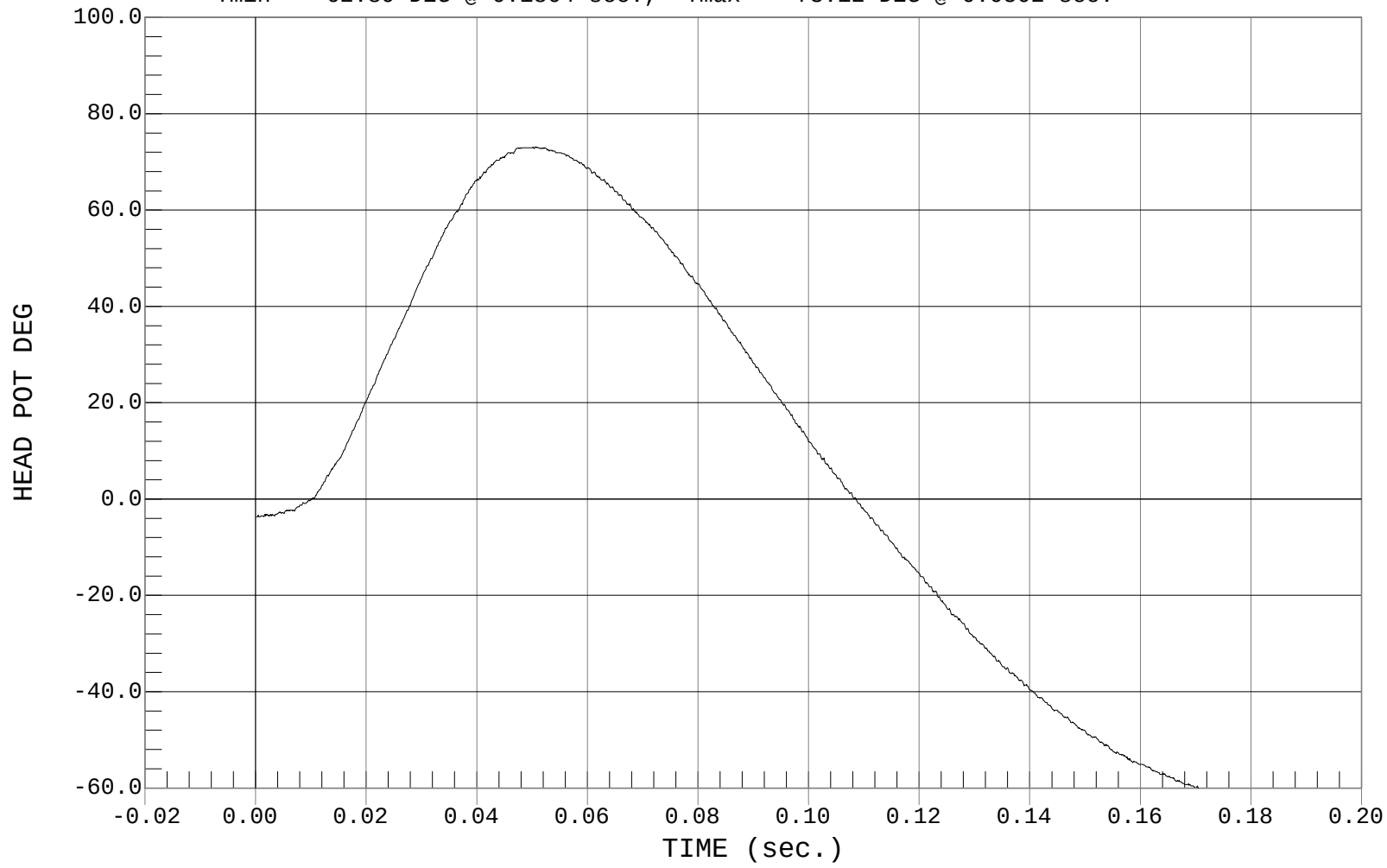
NECK ROTATION

Test Desc.: Dummy Calibration - Neck Flexion
Component: Dummy #139

Test Date: 01-11-01
Speed: 18.00 FT/SEC, 5.49 M/SEC

1 HEAD POT, D01062DU.D05

Ymin = -62.89 DEG @ 0.1864 sec., Ymax = 73.12 DEG @ 0.0502 sec.



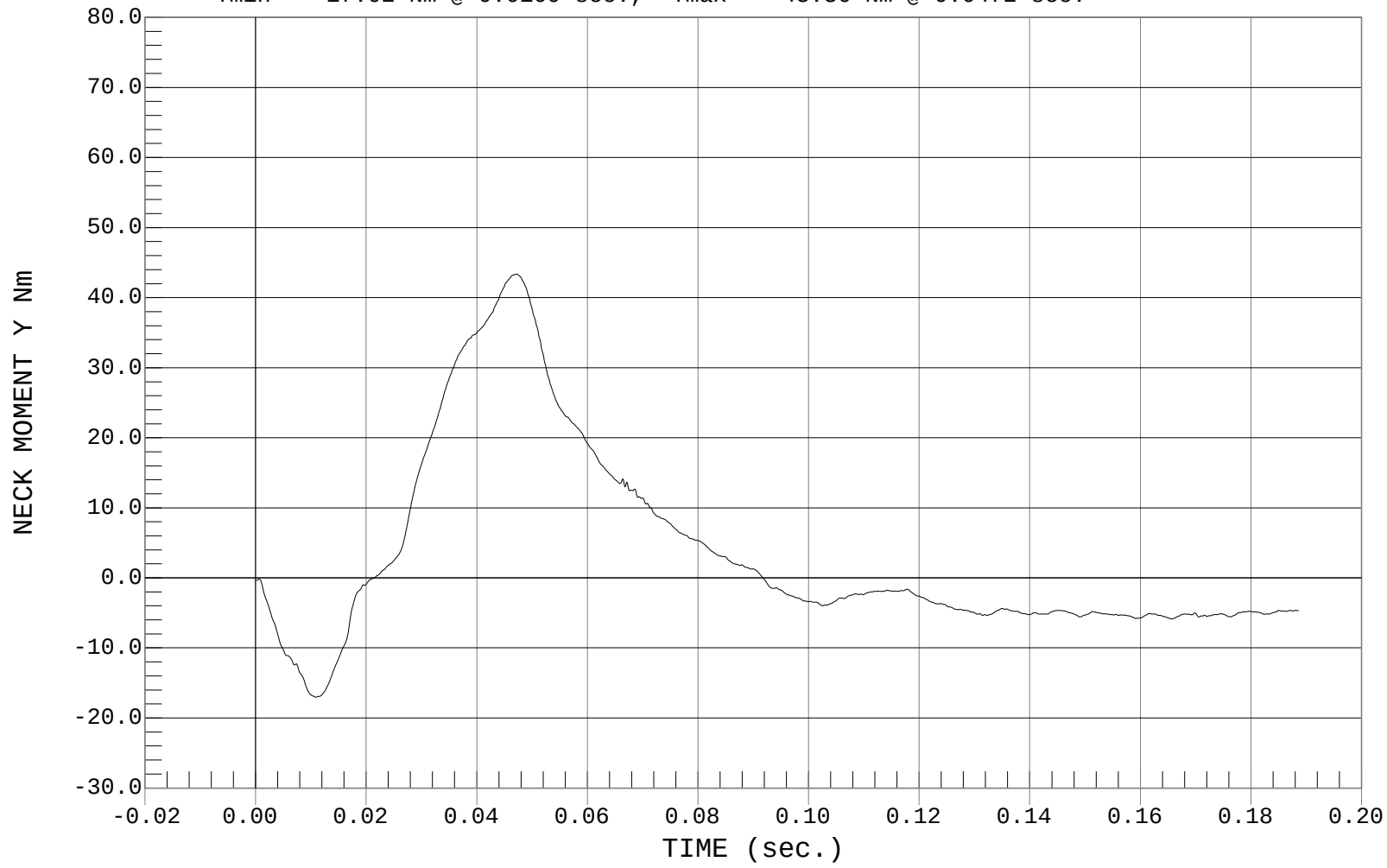
OCCIPITAL MOMENT

Test Desc.: Dummy Calibration - Neck Flexion
Component: Dummy #139

Test Date: 01-11-01
Speed: 18.00 FT/SEC, 5.49 M/SEC

1 NECK MOMENT Y, D01062MF.M01

Ymin = -17.02 Nm @ 0.0109 sec., Ymax = 43.36 Nm @ 0.0472 sec.



Hybrid III Calibration Data Sheet

3 Year Old

Neck Extension Test

ATD Serial No.: 139 Test I.D.: D01063

Tested Parameter		Units	Specification	Result	Pass/Fail
Laboratory Temperature		°C	20.6 to 22.2	21.5°	PASS
Laboratory Relative Humidity		%	10 to 70	24%	PASS
Pendulum Velocity		m/s	3.55 to 3.75	3.66	PASS
Pendulum Deceleration	6 Msec.	m/s	1.0 to 1.4	1.2	PASS
	10 Msec.	m/s	1.9 to 2.5	2.1	PASS
	14 Msec.	m/s	2.8 to 3.5	2.9	PASS
"D" Plane Rotation	Maximum	Deg.	83.0 to 93.0	88.5°	PASS
Moment About Occipital Condyle	Minimum	Nm	-53.3 to -43.7	-46.4	PASS
Negative Moment Decay Time To -10Nm		Msec.	60.0 to 80.0	68.9	PASS
			Overall Test Results		PASS

Laboratory Technician

1/11/01
Test Date

Approved By

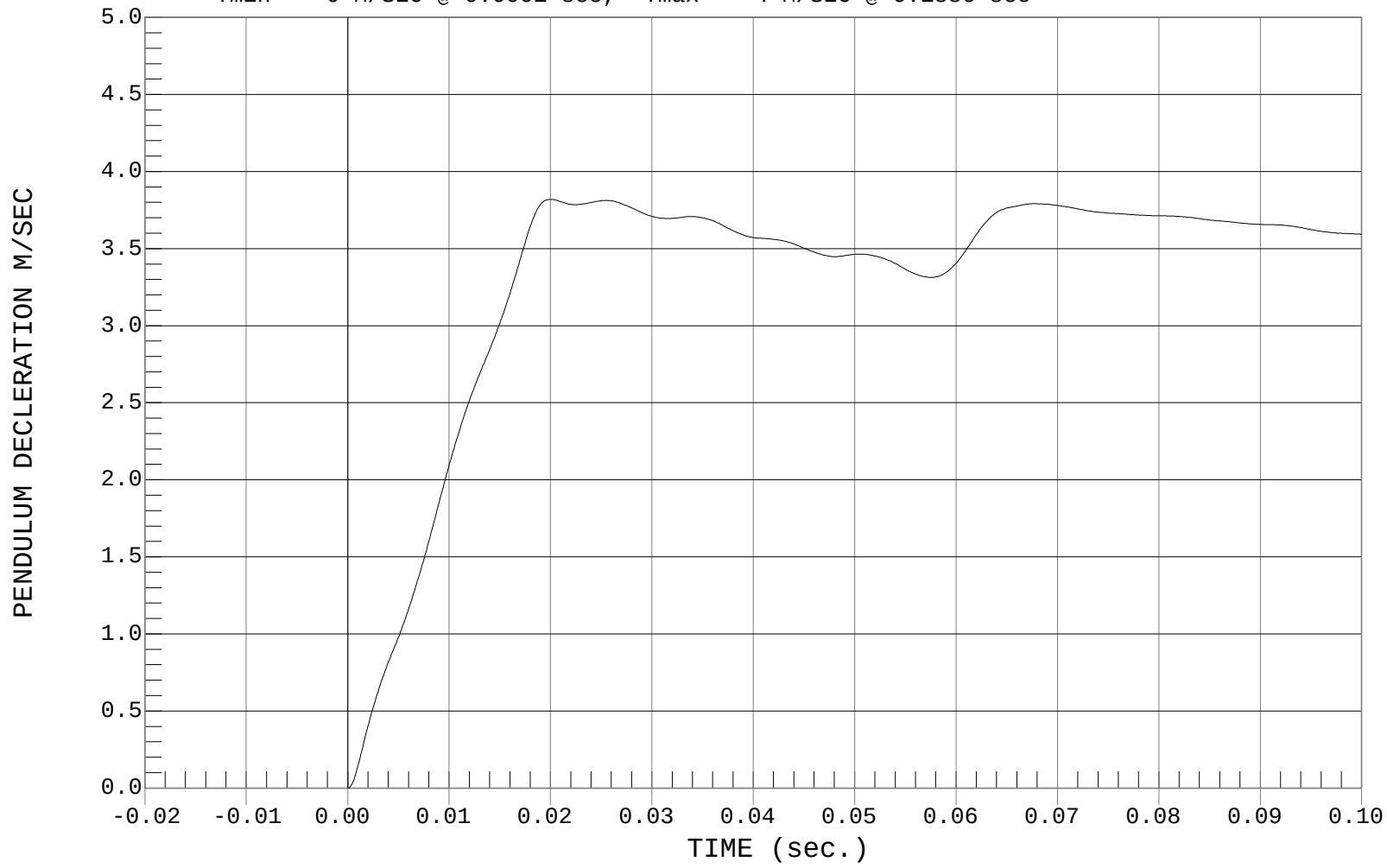
PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Neck Extension
Component: Dummy #139

Test Date: 01-11-01
Speed: 12.00 FT/SEC, 3.66 M/SEC

1 PENDULUM DECLERATION, D01063AI.A04

Ymin = 0 M/SEC @ 0.0001 sec, Ymax = 4 M/SEC @ 0.1886 sec



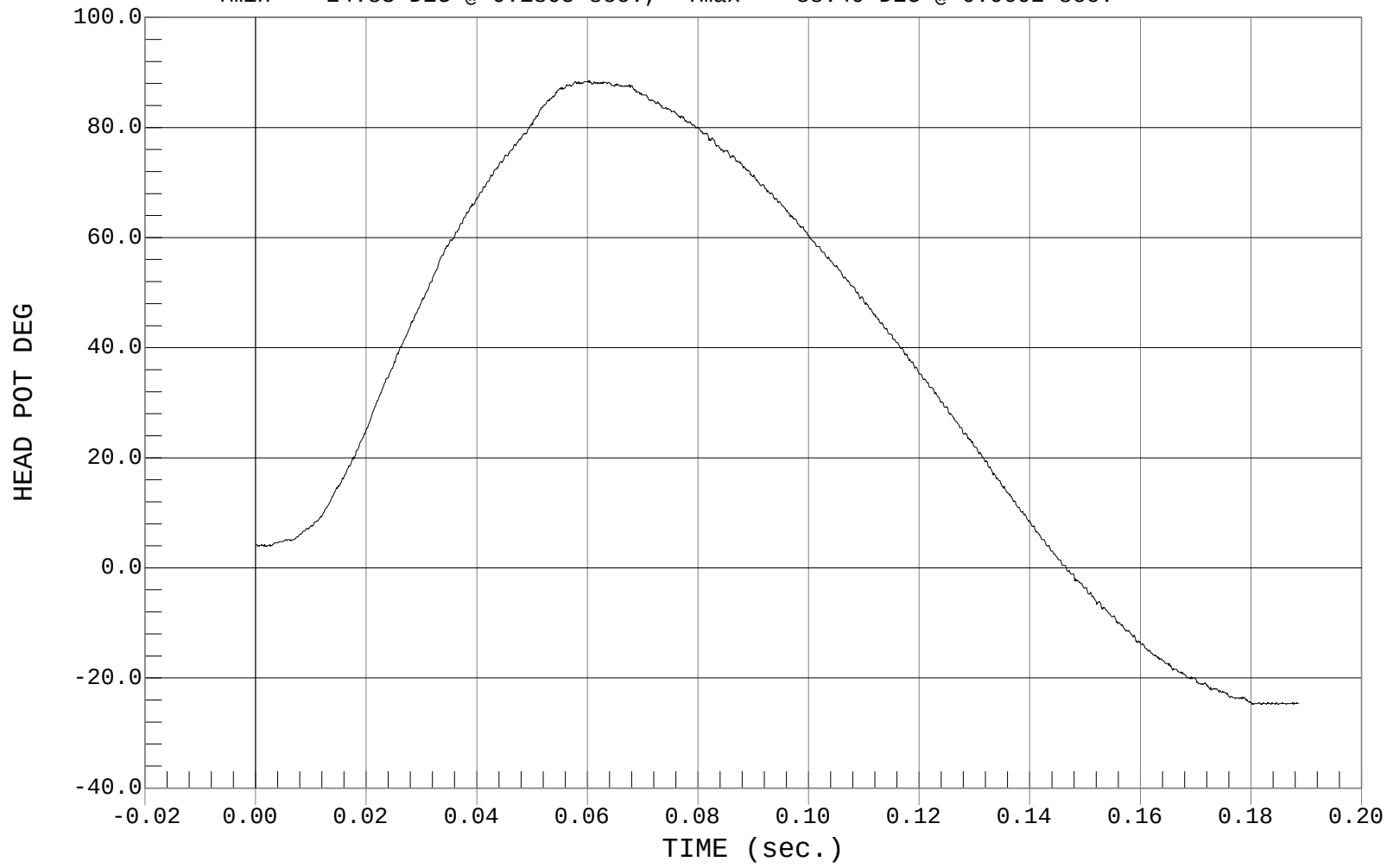
NECK ROTATION

Test Desc.: Dummy Calibration - Neck Extension
Component: Dummy #139

Test Date: 01-11-01
Speed: 12.00 FT/SEC, 3.66 M/SEC

1 HEAD POT, D01063DU.D05

Ymin = -24.83 DEG @ 0.1805 sec., Ymax = 88.49 DEG @ 0.0602 sec.



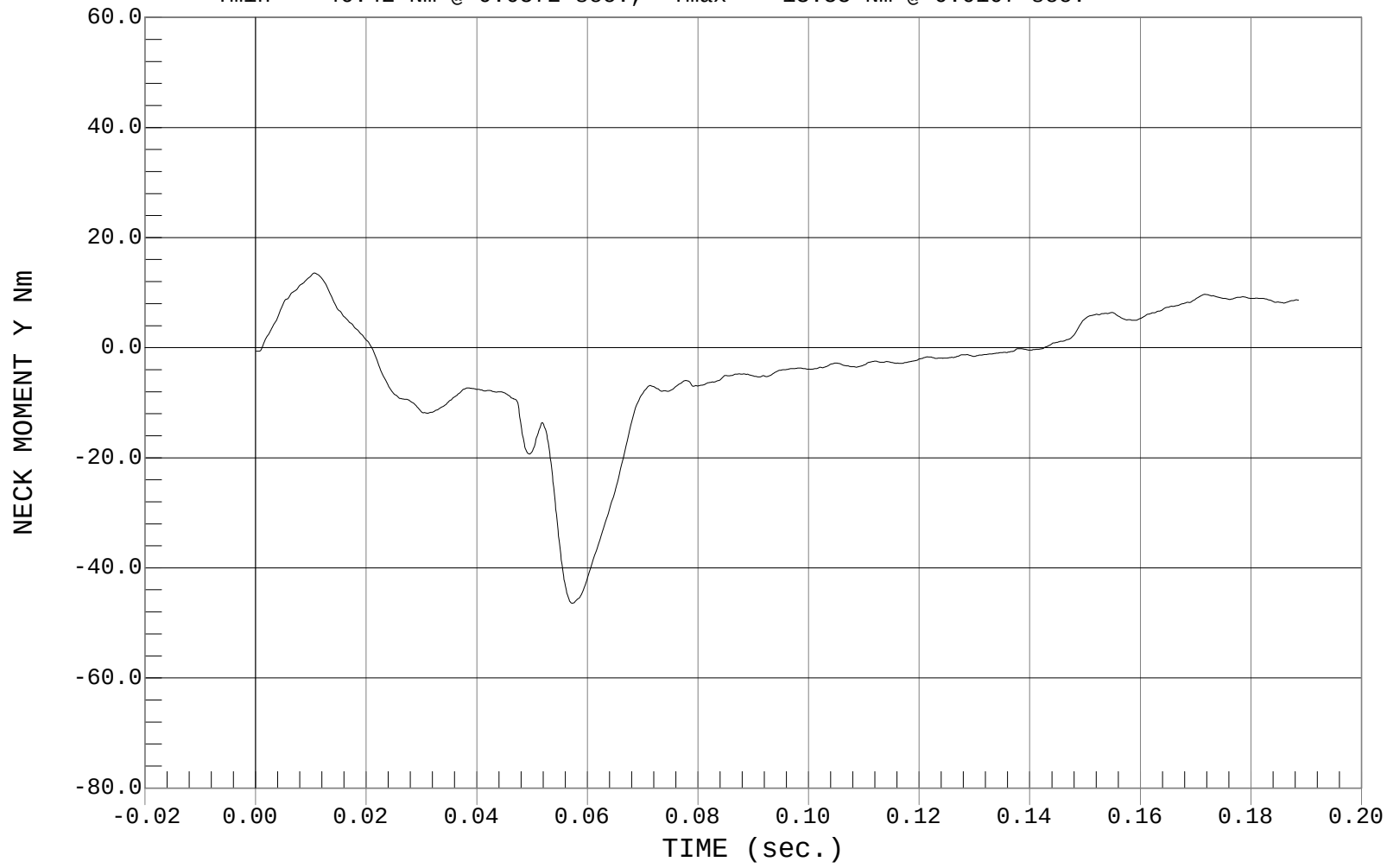
OCCIPITAL MOMENT

Test Desc.: Dummy Calibration - Neck Extension
Component: Dummy #139

Test Date: 01-11-01
Speed: 12.00 FT/SEC, 3.66 M/SEC

1 NECK MOMENT Y, D01063MF.M01

Ymin = -46.42 Nm @ 0.0572 sec., Ymax = 13.55 Nm @ 0.0107 sec.



Hybrid III Calibration Data Sheet

3 Year Old

Torso Flexion Test

ATD Serial No.: 139 Test I.D.: D01065

Tested Parameter	Units	Specification	Result	Pass/Fail
Temperature	°C	18.9 to 25.6	21.4°	PASS
Relative Humidity	%	10 to 70	24%	PASS
Force @ 45°	N	130 to 180	161	PASS
Initial Angle	Deg	0-15	10°	PASS
Return Angle	Deg	0-10	2°	PASS
		Overall Test Results		PASS

1/12/01

Laboratory Technician

Test Date

Approved By

Hybrid III Calibration Data Sheet

3 Year Old

Head Drop Calibration

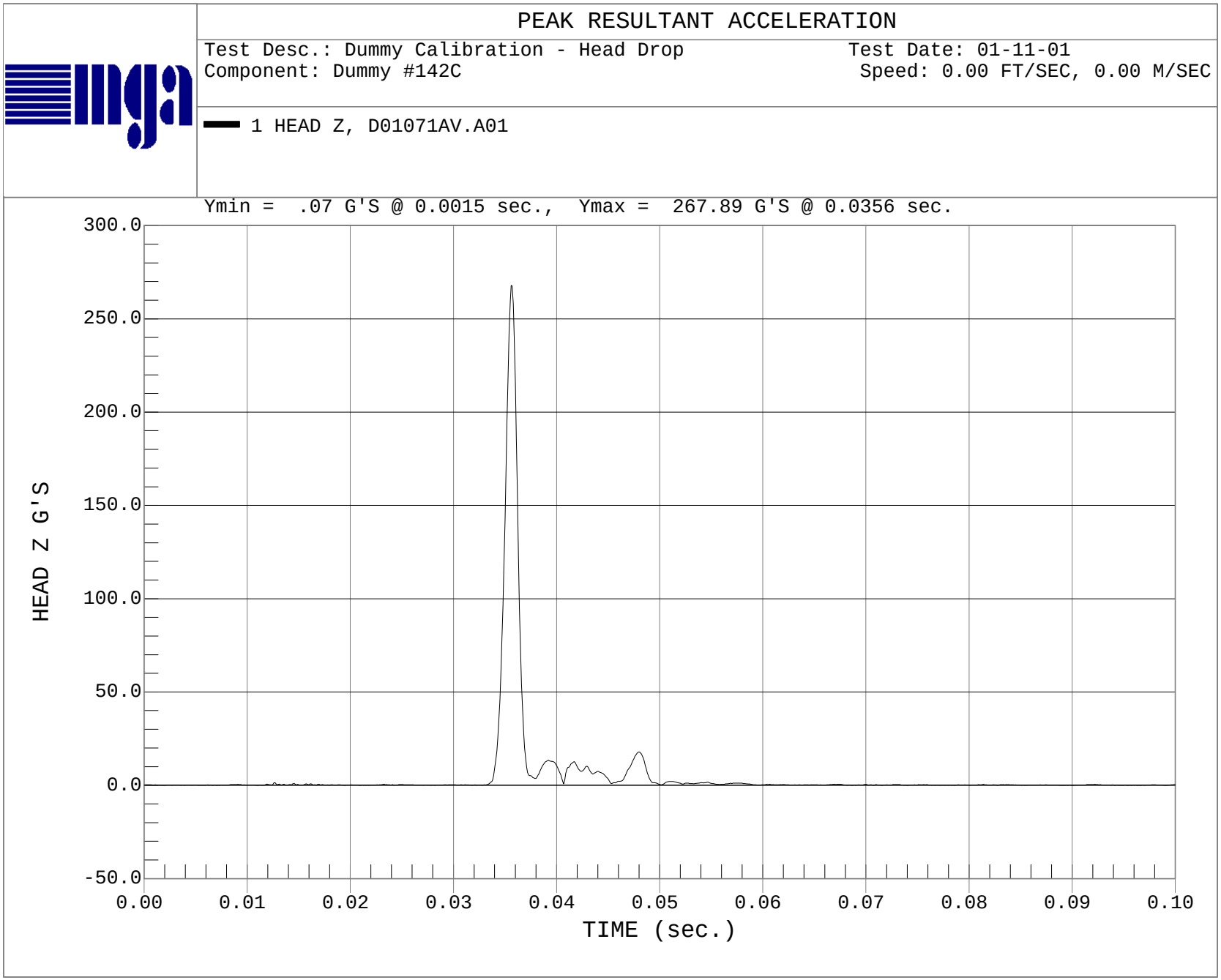
ATD Serial No.: 142C Test I.D.: D01071

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	22.1°	PASS
Laboratory Relative Humidity	%	10 to 70	23%	PASS
Peak Resultant Acceleration	G's	250.0 to 280.0	267.9	PASS
Peak Lateral Acceleration	G's	≤±15.0	-4.0	PASS
Is Acceleration Unimodal?	Yes/No	<10% Peak	Yes	PASS
		Overall Test Results		PASS

1/11/01

Laboratory Technician Test Date

Approved By


PEAK RESULTANT ACCELERATION
Test Desc.: Dummy Calibration - Head Drop
Test Date: 01-11-01
Component: Dummy #142C
Speed: 0.00 FT/SEC, 0.00 M/SEC
1 HEAD Z, D01071AV.A01
Ymin = .07 G'S @ 0.0015 sec., Ymax = 267.89 G'S @ 0.0356 sec.
HEAD Z G'S
300.0
250.0
200.0
150.0
100.0
50.0
0.0
-50.0
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10
TIME (sec.)

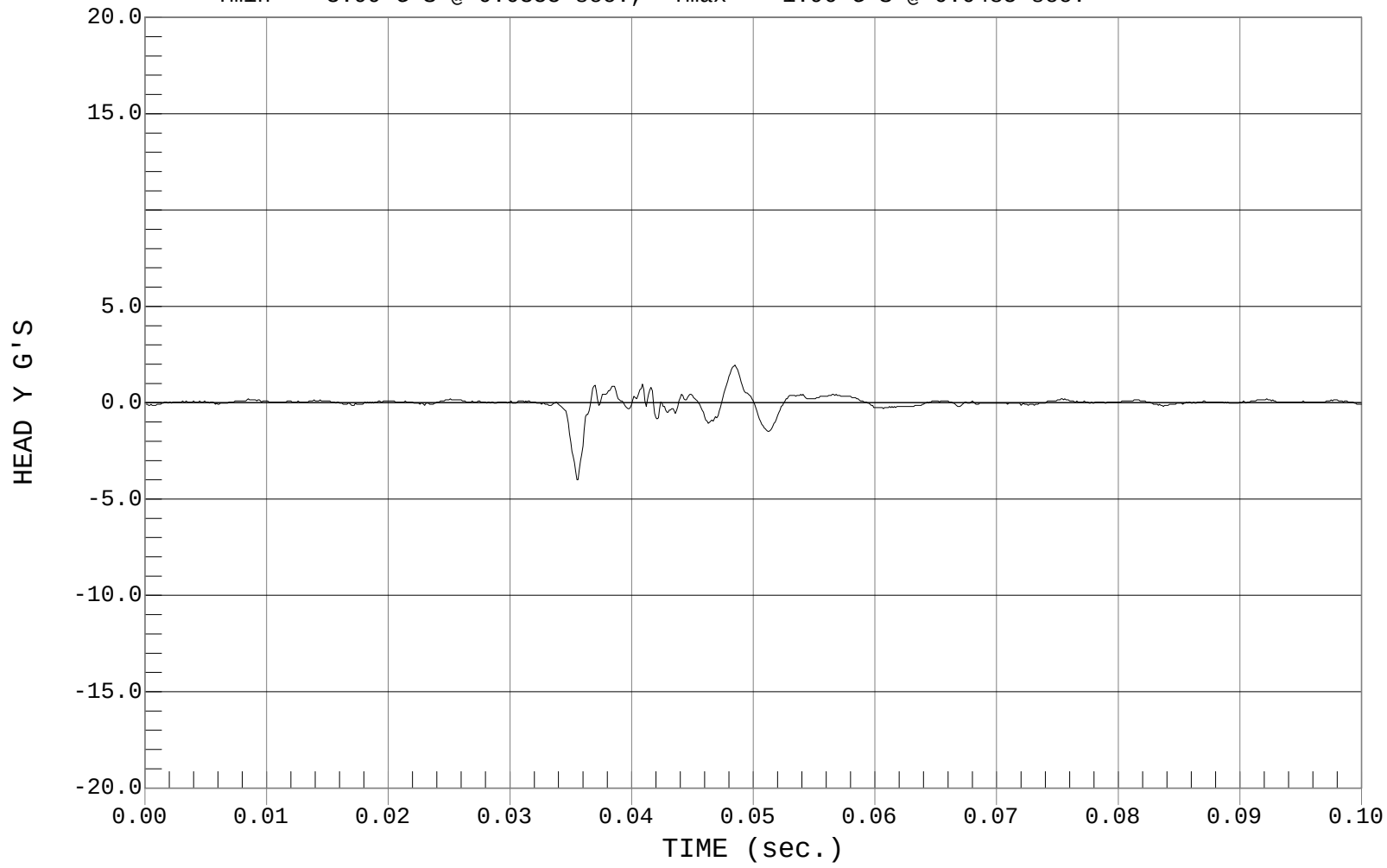
PEAK LATERAL ACCELRATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #142C

Test Date: 01-11-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

1 HEAD Y, D01071AR.A02

Ymin = -3.99 G'S @ 0.0355 sec., Ymax = 1.96 G'S @ 0.0485 sec.



Hybrid III Calibration Data Sheet

3 Year Old

Thorax Impact Test

ATD Serial No.: 142C Test I.D.: D01074

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.7°	PASS
Laboratory Relative Humidity	%	10 to 70	29%	PASS
Probe Velocity	M/s	6.58 to 6.82	6.0	PASS
Peak Resistive Force Within Deflection Corridor	kN	.68 to .81	.80	PASS
Internal Hysteresis	%	65 to 85%	73%	PASS
Max Force 12.5 mm to 32 mm Deflection	kN	Max .86	.88*	FAIL
		Overall Test Results		FAIL

* TEST DOES NOT MEET SPECIFICATION

Laboratory Technician

1/14/01
Test Date

Approved By

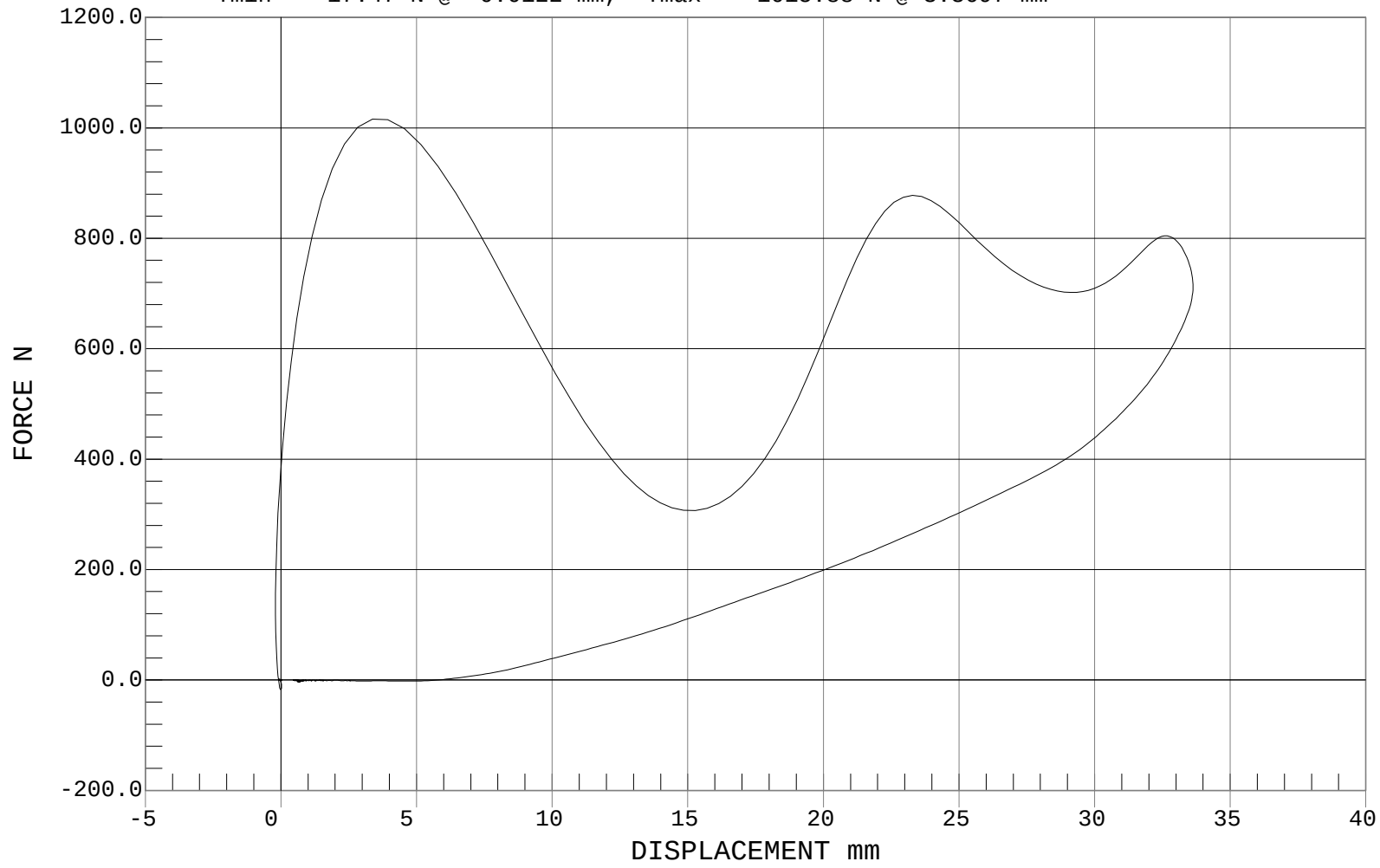
THORAX IMPACT

Test Desc.: Dummy Calibration - Chest Impact
Component: Dummy #142C

Test Date: 01-14-01
Speed: 19.72 FT/SEC, 6.01 M/SEC

1 FORCE, D01074CH.FVD

Ymin = -17.47 N @ -0.0122 mm, Ymax = 1015.88 N @ 3.3697 mm



Hybrid III Calibration Data Sheet

3 Year Old

Neck Flexion Test

ATD Serial No.: 142C Test I.D.: D01072

Tested Parameter		Units	Specification	Result	Pass/Fail
Laboratory Temperature		°C	20.6 to 22.2	21.3°	PASS
Laboratory Relative Humidity		%	10 to 70	22%	PASS
Pendulum Velocity		m/s	5.4 to 5.6	5.5	PASS
Pendulum Deceleration	10 Msec.	m/s	2.0 to 2.7	2.4	PASS
	15 Msec.	m/s	3.0 to 4.0	3.4	PASS
	20 Msec.	m/s	4.0 to 5.1	4.6	PASS
"D" Plane Rotation	Maximum	Deg.	70.0 to 82.0	73.8°	PASS
Moment About Occipital Condyle	Maximum	Nm	42.0 to 53.0	44.4	PASS
Positive Moment Decay Time to 10Nm		Msec.	60.0 to 80.0	73.4	PASS
			Overall Test Results		PASS

Laboratory Technician

1/12/01
Test Date

Approved By

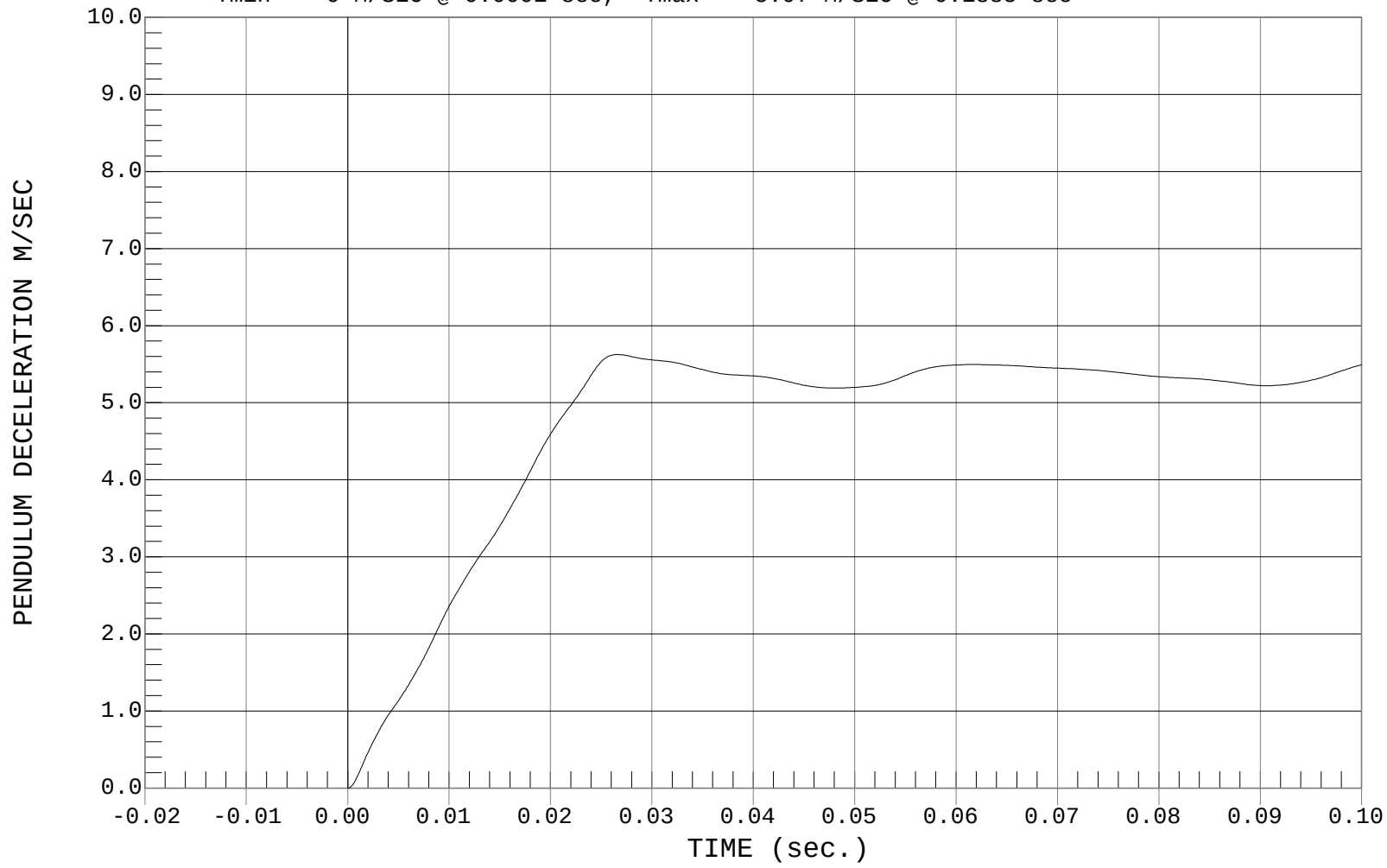
PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Neck Flexion
Component: Dummy #142C

Test Date: 01-12-01
Speed: 18.00 FT/SEC, 5.49 M/SEC

1 PENDULUM DECELERATION, D01072AI.A04

Ymin = 0 M/SEC @ 0.0001 sec, Ymax = 5.97 M/SEC @ 0.1885 sec



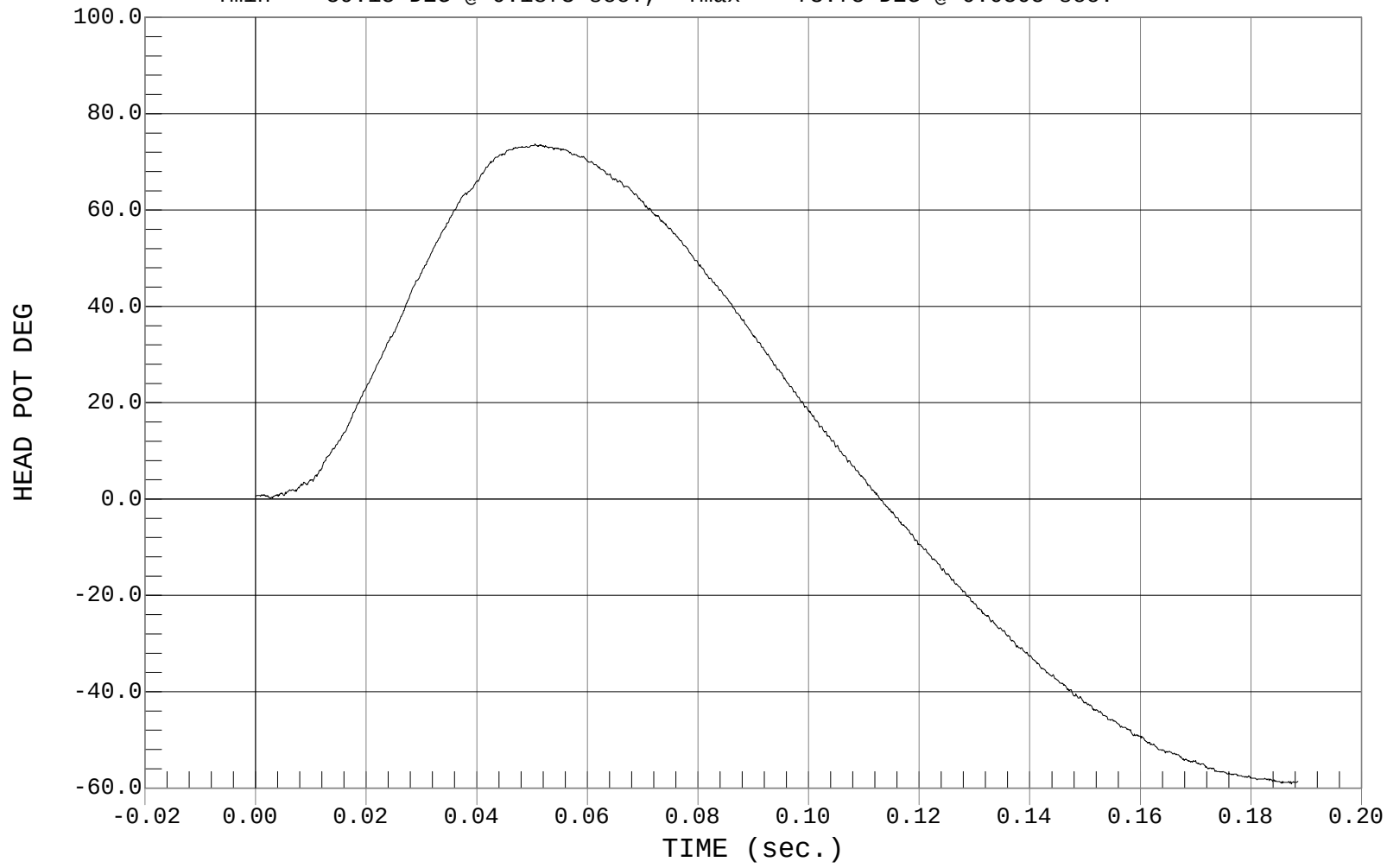
NECK ROTATION

Test Desc.: Dummy Calibration - Neck Flexion
Component: Dummy #142C

Test Date: 01-12-01
Speed: 18.00 FT/SEC, 5.49 M/SEC

1 HEAD POT, D01072DU.D05

Ymin = -59.15 DEG @ 0.1873 sec., Ymax = 73.75 DEG @ 0.0505 sec.



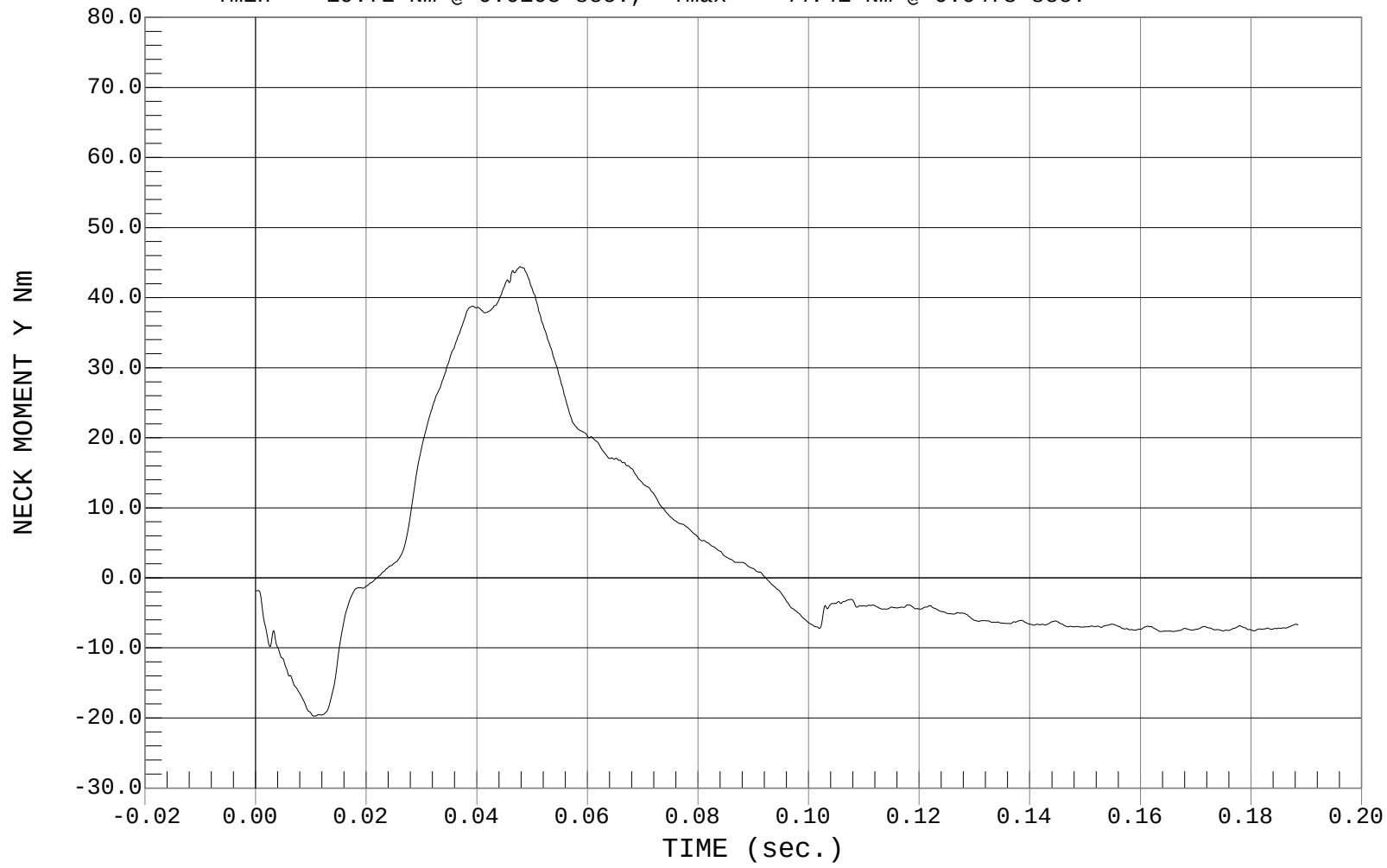
OCCIPITAL MOMENT

Test Desc.: Dummy Calibration - Neck Flexion
Component: Dummy #142C

Test Date: 01-12-01
Speed: 18.00 FT/SEC, 5.49 M/SEC

1 NECK MOMENT Y, D01072MF.M01

Ymin = -19.72 Nm @ 0.0105 sec., Ymax = 44.41 Nm @ 0.0478 sec.



Hybrid III Calibration Data Sheet

3 Year Old

Neck Extension Test

ATD Serial No.: 142C Test I.D.: D01073

Tested Parameter		Units	Specification	Result	Pass/Fail
Laboratory Temperature		°C	20.6 to 22.2	21.3°	PASS
Laboratory Relative Humidity		%	10 to 70	22%	PASS
Pendulum Velocity		m/s	3.55 to 3.75	3.66	PASS
Pendulum Deceleration	6 Msec.	m/s	1.0 to 1.4	1.2	PASS
	10 Msec.	m/s	1.9 to 2.5	2.1	PASS
	14 Msec.	m/s	2.8 to 3.5	2.9	PASS
"D" Plane Rotation	Maximum	Deg.	83.0 to 93.0	88.8°	PASS
Moment About Occipital Condyle	Minimum	Nm	-53.3 to –43.7	-46.3	PASS
Negative Moment Decay Time to -10 Nm		Msec.	60.0 to 80.0	68.8	PASS
			Overall Test Results		PASS

Laboratory Technician

1/12/01
Test Date

Approved By

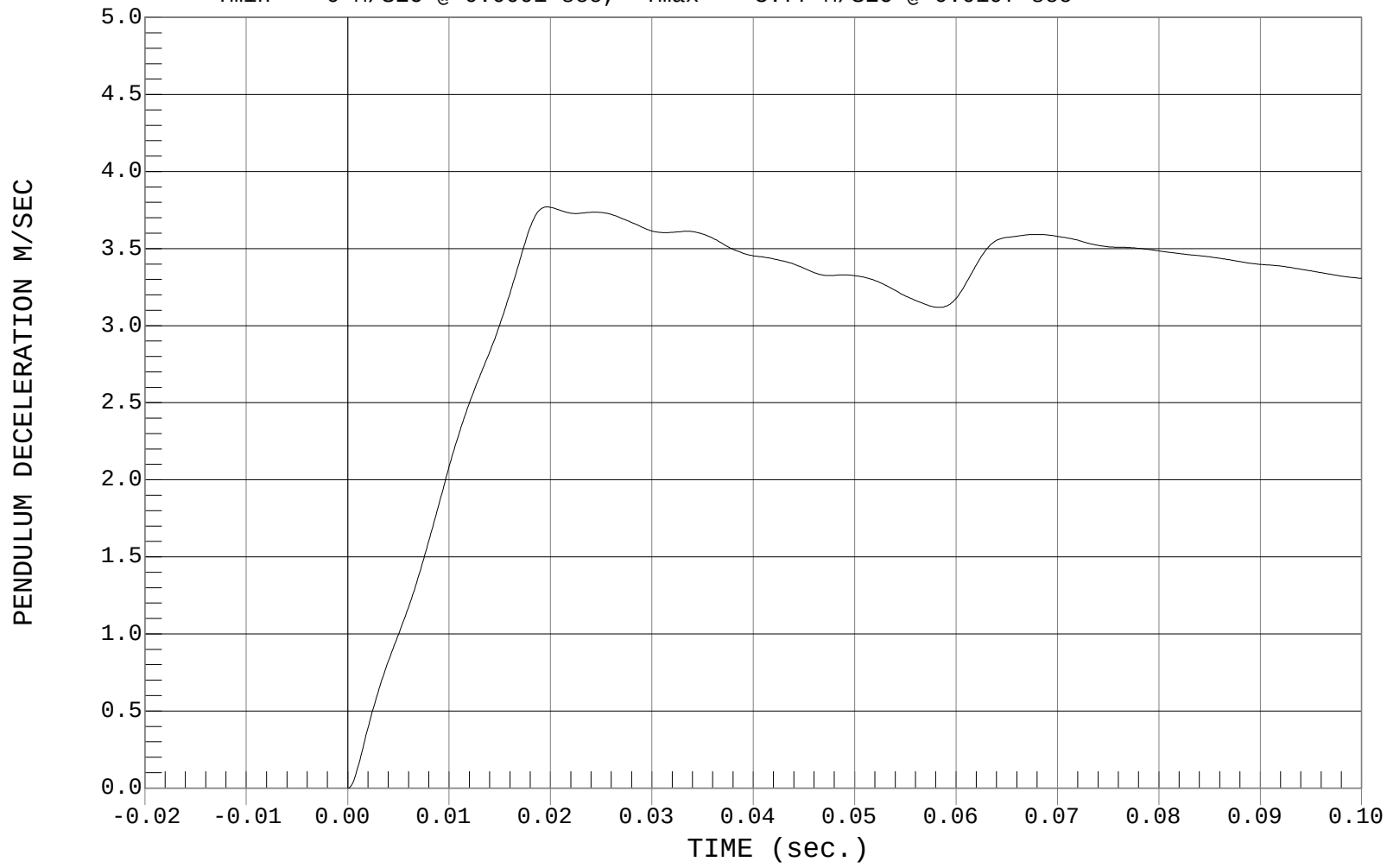
PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Neck Extension
Component: Dummy #142C

Test Date: 01-12-01
Speed: 12.00 FT/SEC, 3.66 M/SEC

1 PENDULUM DECELERATION, D01073AI.A04

Ymin = 0 M/SEC @ 0.0001 sec, Ymax = 3.77 M/SEC @ 0.0197 sec



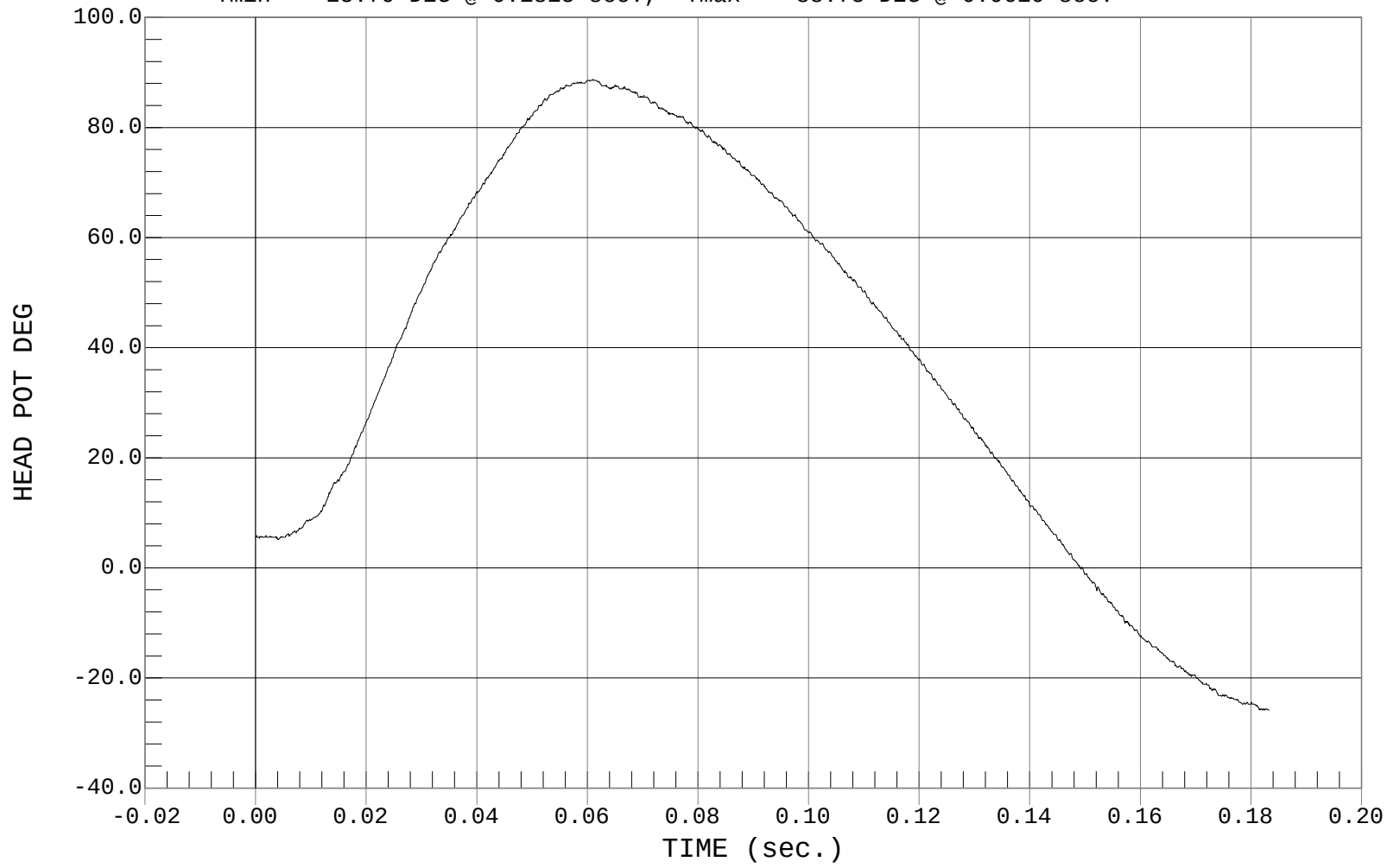
NECK ROTATION

Test Desc.: Dummy Calibration - Neck Extension
Component: Dummy #142C

Test Date: 01-12-01
Speed: 12.00 FT/SEC, 3.66 M/SEC

1 HEAD POT, D01073DU.D05

Ymin = -25.79 DEG @ 0.1815 sec., Ymax = 88.75 DEG @ 0.0610 sec.



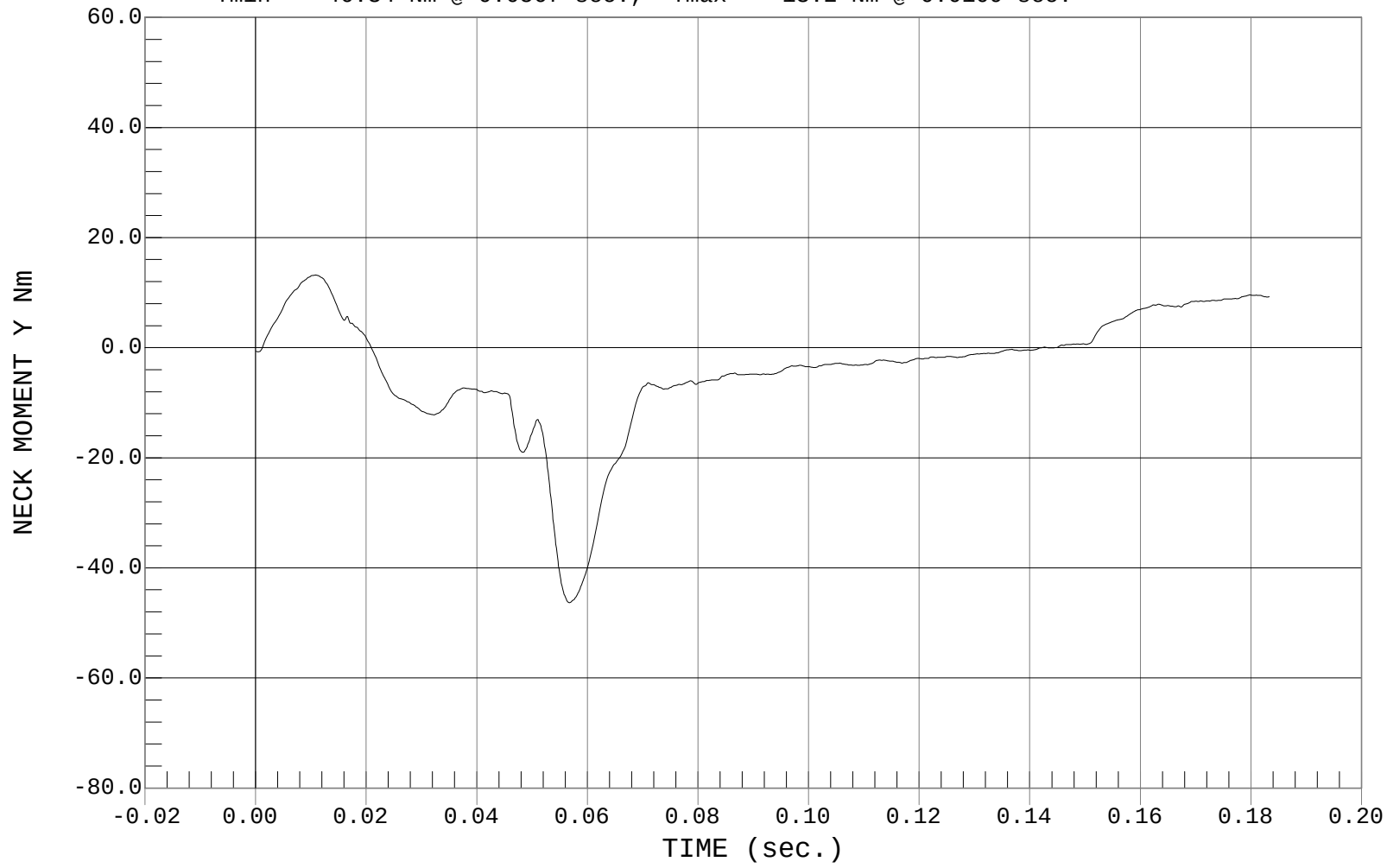
OCCIPITAL MOMENT

Test Desc.: Dummy Calibration - Neck Extension
Component: Dummy #142C

Test Date: 01-12-01
Speed: 12.00 FT/SEC, 3.66 M/SEC

1 NECK MOMENT Y, D01073MF.M01

Ymin = -46.34 Nm @ 0.0567 sec., Ymax = 13.2 Nm @ 0.0109 sec.



Hybrid III Calibration Data Sheet

3 Year Old

Torso Flexion Test

ATD Serial No.: 142C Test I.D.: D01075

Tested Parameter	Units	Specification	Result	Pass/Fail
Temperature	°C	18.9 to 25.6	21.4°	PASS
Relative Humidity	%	10 to 70	25%	PASS
Force @ 45°	N	130 to 180	158	PASS
Initial Angle	Deg	0 to 15	6°	PASS
Return Angle	Deg	0 to 10	2°	PASS
		Overall Test Results		PASS

1/12/01

Laboratory Technician Test Date

Approved By

TEST EQUIPMENT AND INSTRUMENTATION CALIBRATION

DUMMY AND LABORATORY INSTRUMENT CALIBRATION

INSTRUMENTS FOR CHILD DUMMY NO. 139

	INSTRUMENTS FOR DUMMY NO. 139		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Head X	AJ7F6	Endevco	1/4/01
Head Y	J19843	Endevco	1/4/01
Head Z	J19244	Endevco	1/4/01
Chest X	AJ7F7	Endevco	1/4/01
Chest Y	AJ454	Endevco	1/4/01
Chest Z	J23757	Endevco	1/4/01
Pelvis X	AJ8C0	Endevco	1/4/01
Pelvis Y	J14189	Endevco	1/4/01
Pelvis Z	J23943	Endevco	1/4/01
Upper Neck Force X	114	FTSS	11/7/00
Upper Neck Force Y	114	FTSS	11/7/00
Upper Neck Force Z	114	FTSS	11/7/00
Upper Neck Moment X	114	FTSS	11/7/00
Upper Neck Moment Y	114	FTSS	11/7/00
Upper Neck Moment Z	114	FTSS	11/7/00
Lower Neck Force X	119	FTSS	11/8/00
Lower Neck Force Y	119	FTSS	11/8/00
Lower Neck Force Z	119	FTSS	11/8/00
Lower Neck Moment X	119	FTSS	11/8/00
Lower Neck Moment Y	119	FTSS	11/8/00
Lower Neck Moment Z	119	FTSS	11/8/00
Chest Deflection Gauge	139	Servo	1/8/01

DUMMY AND LABORATORY INSTRUMENT CALIBRATION

INSTRUMENTS FOR CHILD DUMMY NO. 142C

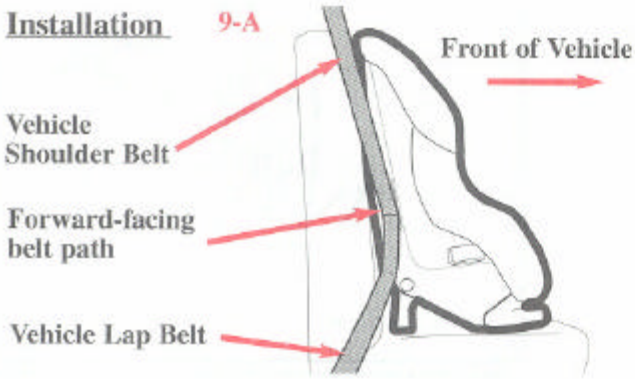
	INSTRUMENTS FOR DUMMY NO. 142C		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Head X	J19927	Endevco	1/4/01
Head Y	J18736	Endevco	1/4/01
Head Z	J14674	Endevco	1/4/01
Chest X	J14235	Endevco	1/4/01
Chest Y	J18724	Endevco	1/4/01
Chest Z	AJ5R0	Endevco	1/4/01
Pelvis X	J19440	Endevco	1/4/01
Pelvis Y	AJ4W2	Endevco	1/4/01
Pelvis Z	J20093	Endevco	1/4/01
Upper Neck Force X	120	FTSS	11/6/00
Upper Neck Force Y	120	FTSS	11/6/00
Upper Neck Force Z	120	FTSS	11/6/00
Upper Neck Moment X	120	FTSS	11/6/00
Upper Neck Moment Y	120	FTSS	11/6/00
Upper Neck Moment Z	120	FTSS	11/6/00
Lower Neck Force X	121	FTSS	11/8/00
Lower Neck Force Y	121	FTSS	11/8/00
Lower Neck Force Z	121	FTSS	11/8/00
Lower Neck Moment X	121	FTSS	11/8/00
Lower Neck Moment Y	121	FTSS	11/8/00
Lower Neck Moment Z	121	FTSS	11/8/00
Chest Deflection Gauge	142C	Servo	1/12/01

CHILD SEAT OWNER'S MANUAL RESTRAINT INSTRUCTIONS

Toddler Installation: over 22 and up to 40 lbs (over 10 and up to 18 kg) and 40" (102 cm) or less

In the forward-facing toddler position, the shoulder harness must be just at or above the child's shoulders. You must change the harness height before installing the seat in the vehicle. See "To Change Harness Height" on Page 3. Read general warnings on page 2 and seat belt compatibility information on pages 6 and 7 before installing this child restraint.

Installation 9-A



9-B

WRONG



To Install:

1. Toddlers over 22 up to 35 pounds (over 10 up to 15.9 kg) who are over 1 year old may ride facing the front of the vehicle. Toddlers 35-40 pounds (15.9-18 kg) and under 40 inches (102 cm) tall must ride facing the front of the vehicle (Fig 9-A.). Either the upright or a reclined position may be used forward-facing. To change positions, see Page 3.
2. Thread the vehicle lap belt through the forward-facing belt path as shown in Fig. 9-A. If the lap and shoulder belts are attached, pass both through the belt path.
3. Buckle the vehicle belt and adjust as tightly as possible. Put one knee in the seat and push down firmly on the car seat while pulling up on the shoulder belt until the lap belt is tight. It is not necessary to make the seat completely immobile. Some "play" from front to back is acceptable. The car seat should not move more than an inch or two from side to side. If it does, you may need to use a locking clip or move the seat; use of the tether will also help stabilize the car seat. See information on pages 6, 7 and 10.
4. Place your toddler in the car seat. Secure and adjust the harness system as described in "Putting Your Child in the Restraint" on page 4.

Do not use the child restraint in any vehicle seat where the lap belt cannot be tightened securely and properly or where it can be loosened by pulling on it. (See Pages 2, and 6-7).

Tether strap installation and removal

Vehicles manufactured after 1989 have pre-drilled holes but need to have the anchor hardware installed. Some dealers may offer free installation. Vehicles made after 9/1/99 have the anchor hardware already installed. Refer to your owner's manual or call your dealer.

⚠ You must follow the threading diagram exactly. Failure to follow these steps could cause the strap to loosen in a crash, which could result in injury to your child.

#1 Thread end down in between the pad and the shell, out through the top center slot of shell, around reinforcement and through lower slot, then back up between shell and pad.

#2 Thread end back up through both adjuster slides and then down through both adjusters.

#3 Loop tether end up and over the adjuster slides. Thread down between adjuster slides. Tighten.

To adjust tether:

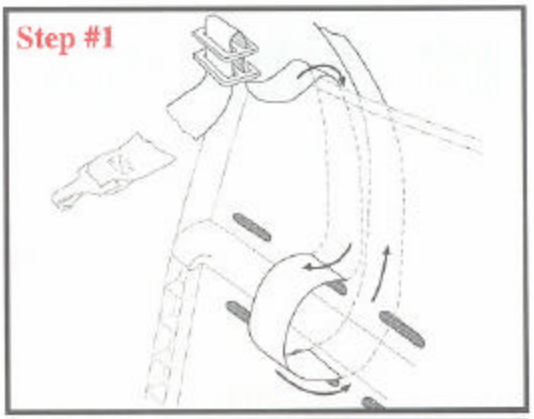
Loosen slides. Pull on the end of the strap (A) to tighten. Pull on the anchor attachment (B) to loosen. Tighten strap completely so there is no slack or play.

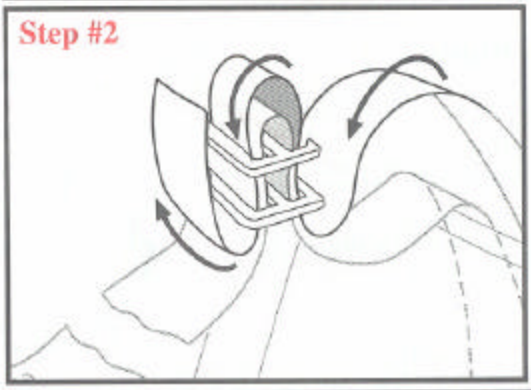
Use and storage:

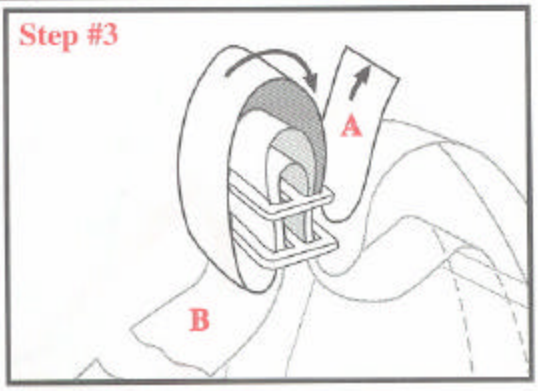
The tether is used for the forward-facing position, 22-40 lbs (10-18 kg) **only**. When not in use, it is preferable for the tether to be removed. To do so, reverse steps 1-3 above.

If the tether is attached and the car seat is used in the rear-facing infant position, the tether should be placed over the back of the car seat with the anchor hook secured under the base or recline stand of the car seat.

NOTE: If you need a longer tether (for example, to tether a car seat in a van), call Cosco's Consumer Relations Department, 1-800-544-1108.







LATCH (Lower Anchors and Tether for CHildren) Attachment System

This car seat is also equipped with the LATCH attachment system. These are the two extra sets of belts already threaded through the belt paths. The LATCH attachment system can ***only*** be used in vehicles that already have the anchor bars installed in the vehicle seat bight. These anchor bars ***cannot*** be retrofit onto the vehicle.

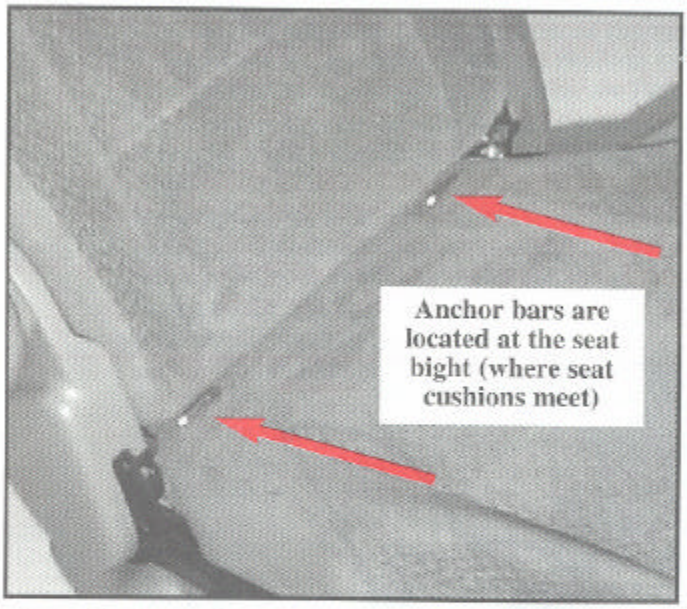
The LATCH system allows a car seat to be secured in the vehicle without using the vehicle belt system, which may not be compatible with car seats. No extra parts, such as a locking clip, are required.

If your vehicle is equipped with this system, the bars should either be visible or clearly marked. Refer to you vehicle owner's manual to see which seating positions may be equipped with the LATCH system. The owner's manual may refer to it as a universal attachment system.

The car seat is used with the LATCH system the same way as it is for the vehicle belt system. The LATCH system does not, for example, allow an infant to be placed rear facing in the front passenger seat with an active air bag. See warnings on page 2.

Refer to pages 12-14 for specific installation instructions.

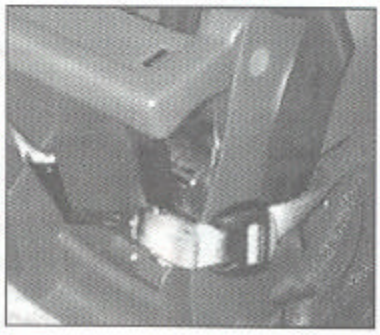
⚠ WARNING! Make sure that LATCH hooks that are NOT in use are securely hooked together or they could seriously injure someone in a crash or sudden stop.



The back belt hooks should be hooked together behind the seat when using the seat rear-facing.



The front belt hooks should be hooked together under the seat when using the seat forward-facing.

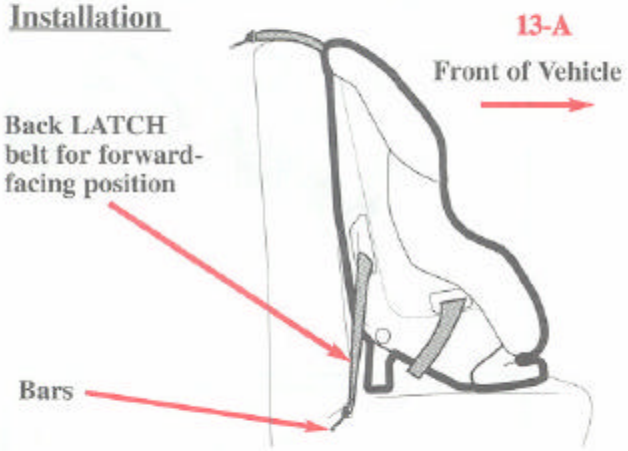


Toddler Installation–LATCH system ONLY
over 22 and up to 40 lbs (over 10 and up to 18 kg) and 40" (102 cm) or less

In the forward-facing toddler position, the shoulder harness must be just at or above the child's shoulders. You must change the harness height before installing the seat in the vehicle. See "To Change Harness Height" on Page 3. Read general warnings on page 2 and information on page 11 before installing this car seat.

Installation

13-A



WARNING! Make sure LATCH hooks are securely fastened or car seat will come out and child will be injured or killed. If you cannot get the seat to remain tight, do not use the car seat in this seating location with this LATCH attachment system.
Do not use the LATCH system along with the adult lap or lap/shoulder belt.

To Install:

1. Toddlers over 22 up to 35 pounds (10-15.9 kg) who are over 1 year old may ride facing the front of the vehicle. Toddlers 35-40 pounds (15.9-18 kg) and under 40 inches (102 cm) tall must ride facing the front of the vehicle (Fig 9-A.). Either the upright or a reclined position may be used forward-facing. To change positions, see Page 3.
2. The shoulder harness must be threaded properly at or just below the child's shoulders. (See "To Change Harness Height", page 3).
3. Lengthen the back belt by pushing in on button and pulling on harness. Always pull slowly to make sure belt remains flat so it doesn't twist and get stuck.
4. Fasten both LATCH hooks onto the bars (Fig. 13-B); see your vehicle owner's manual and page 11 for location and information.
5. Push down firmly on the car seat while pulling up on the loop to tighten belt securely (Fig. 13-C). Putting one knee in the seat and pushing down firmly while pulling up on the belt may provide a tighter fit, but it is not necessary to make the seat completely immobile. All vehicles with these attachment bars also have a built-in tether anchor for use with a forward-facing car seat. You should secure and tighten the tether as shown on page 14.
6. Place your toddler in the car seat. Secure and adjust the harness system as described in "Putting Your Child in the Restraint" on page 4.
7. To remove car seat, push down on release button and pull away from car seat (Fig. 13-D). Remove the LATCH hooks from bars.





