

REPORT NUMBER 202-GTL-08-005

SAFETY COMPLIANCE TESTING FOR FMVSS NO. 202 HEAD RESTRAINTS – STATIC REQUIREMENTS

KIA MOTORS CORPORATION
2008 KIA SPORTAGE, MPV
NHTSA NO. C80506

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FEBRUARY 25, 2009

FINAL REPORT

PREPARED FOR

U. S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
1200 NEW JERSEY AVE., SE
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16. Abstract Compliance tests were conducted on the subject, 2008 Kia Sportage MPV in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-202-08 for the determination of FMVSS 202 compliance. Test failures identified were as follows: NONE		
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SECTION 1

PURPOSE OF COMPLIANCE TEST

1.0 PURPOSE OF COMPLIANCE TEST

A 2008 Kia Sportage MPV was subjected to Federal Motor Vehicle Safety Standard (FMVSS) No. 202 testing to determine if the vehicle was in compliance with the requirements of the standard. The purpose of this standard is to establish requirements for head restraints to reduce the frequency and severity of neck injury in rear end and other collisions.

1.1 The test vehicle was a 2008 Kia Sportage MPV. Nomenclature applicable to the test vehicle are:

A. Vehicle Identification Number: KNDJF724587490403

B. NHTSA No.: C80506

C. Manufacturer: KIA MOTORS CORPORATION

D. Manufacture Date: 10/07

1.2 TEST DATE

The test vehicle was subjected to FMVSS No. 202 testing on November 24, 2008.

SECTION 2

COMPLIANCE TEST RESULTS

2.0 TEST RESULTS

All tests were conducted in accordance with NHTSA, Office of Vehicle Safety Compliance (OVSC) Laboratory Procedures, TP-202-08 dated 12 Oct. 1989.

Based on the test performed, the 2008 Kia Sportage MPV appeared to meet the requirements of FMVSS 202 testing.

SECTION 3

COMPLIANCE TEST DATA

3.0 TEST DATA

The following data sheets document the results of testing on the 2008 Kia Sportage MPV.

**DATA SHEET 1
SUMMARY OF RESULTS**

VEH. MOD YR/MAKE/MODEL/BODY STYLE: 2008 KIA SPORTAGE MPV

VEH. NHTSA NO.: C80506 ; VIN: KNDJF724587490403

VEH. BUILD DATE: 10/07 ; TEST DATE: November 24, 2008

TEST LABORATORY: GENERAL TESTING LABORATORIES

OBSERVERS: G. FARRAND, J. LATANE

A. VISUAL INSPECTION OF TEST VEHICLE

Upon receipt for completeness, function, and discrepancies or damage which might influence the testing.

RESULTS: OK for testing.

B. DIMENSIONAL REQUIREMENTS	PASS	FAIL	N/A
------------------------------------	-------------	-------------	------------

Driver's Side	<u> X </u>	<u> </u>	
---------------	--------------	---------------	--

Passenger's Side	<u> X </u>	<u> </u>	
------------------	--------------	---------------	--

C. HEAD FORM DISPLACEMENT	PASS	FAIL	
----------------------------------	-------------	-------------	--

Driver's Side	<u> X </u>	<u> </u>	
---------------	--------------	---------------	--

Passenger's Side	<u> X </u>	<u> </u>	
------------------	--------------	---------------	--

D. HEAD RESTRAINT STRENGTH	PASS	FAIL	N/A
-----------------------------------	-------------	-------------	------------

Driver's Side	<u> X </u>	<u> </u>	
---------------	--------------	---------------	--

Passenger's Side	<u> X </u>	<u> </u>	
------------------	--------------	---------------	--

RECORDED BY: G. FARRAND

DATE: 11/24/08

APPROVED BY: D. MESSICK

**DATA SHEET 2
PRETEST PREPARATION**

VEH. MOD YR/MAKE/MODEL/BODY STYLE: 2008 KIA SPORTAGE MPV

VEH. NHTSA NO.: C80506 ; VIN: KNDJF724587490403

VEH. BUILD DATE: 10/07 ; TEST DATE: November 24, 2008

TEST LABORATORY: GENERAL TESTING LABORATORIES

OBSERVERS: G. FARRAND, J. LATANE

MANUFACTURER'S DATA FOR LOCATING SEATING REFERENCE POINT (SRP)

NOTE: Dimensions are obtained from the vehicle manufacturer and provided to the test laboratory by the OVSC COTR.

	DRVR SIDE	PSGR SIDE
Manufacturer's Torso Line Angle (degrees)	<u>23°</u>	<u>23°</u>
SRP Location (inches)		
(Measured from Driver's Front Outboard Seat Track Anchorage Location)		
X (Longitudinal)	<u>345 mm</u>	<u>344 mm</u>
Y (Lateral or Transverse)	<u>224 mm</u>	<u>940 mm</u>
X (Vertical)	<u>262 mm</u>	<u>264 mm</u>

For rearward simulated occupant loading of a front seat head restraint system, seat adjusters(tracks) shall be located in the FULL REARWARD position.

REMARKS:

RECORDED BY: G. FARRAND

DATE: 11/24/08

APPROVED BY: D. MESSICK

**DATA SHEET 3
DIMENSIONAL REQUIREMENTS**

VEH. MOD YR/MAKE/MODEL/BODY STYLE: 2008 KIA SPORTAGE MPV

VEH. NHTSA NO.: C80506 ; VIN: KNDJF724587490403

VEH. BUILD DATE: 10/07 ; TEST DATE: November 24, 2008

TEST LABORATORY: GENERAL TESTING LABORATORIES

OBSERVERS: G. FARRAND, J. LATANE

TEST REQUIREMENT	DEMONSTRATION REQUIREMENT	TEST RESULT	Pass	Fail
Provide Head Restraints	Driver's Side	<u>YES</u>	<u>X</u>	<u> </u>
	Passenger's Side	<u>YES</u>	<u>X</u>	<u> </u>
Height Above SRP	≥698 mm	Drvr Side- <u>848 mm</u>	<u>X</u>	<u> </u>
		Psgr Side- <u>841 mm</u>	<u>X</u>	<u> </u>
Lateral Width of Head Restraint Measured Either 65 mm below Top OR 635 mm Above SPR (whichever is greater)	Not Less Than--	Driver's Side		
		A. <u>254 mm</u> (Bench Seat)	<u>N/A</u>	<u>N/A</u>
	B. <u>158 mm</u> (Bucket Seat)	B. <u>260 mm</u>	<u>X</u>	<u> </u>
		Passenger's Side		
	A. <u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
	B. <u>260 mm</u>	<u>X</u>	<u> </u>	

REMARKS:

RECORDED BY: G. FARRAND

DATE: 11/24/08

APPROVED BY: D. MESSICK

DATA SHEET 4 (1 of 2)
HEAD FORM DISPLACEMENT

VEH. MOD YR/MAKE/MODEL/BODY STYLE: 2008 KIA SPORTAGE MPV

VEH. NHTSA NO.: C80506 ; VIN: KNDJF724587490403

VEH. BUILD DATE: 10/07 ; TEST DATE: November 24, 2008

TEST LABORATORY: GENERAL TESTING LABORATORIES

OBSERVERS: G. FARRAND, J. LATANE

TEST REQUIREMENT	DEMONSTRATION REQUIREMENT	TEST DATA	Pass	Fail
Torso Line Angle (Unloaded)	Measure Using Test Device OR Data Provided by COTR	Drvr Side <u>23°</u>	<u>N/A</u>	<u>N/A</u>
		Psgr Side <u>23°</u>	<u>N/A</u>	<u>N/A</u>
Displaced Torso Line Angle	S202, 5.2(b)	Drvr Side <u>31°</u>	<u>N/A</u>	<u>N/A</u>
		Psgr Side <u>32°</u>	<u>N/A</u>	<u>N/A</u>
	Force(lbs) req'd to Provide 373Nm Moment to Back Pan	Drvr Side <u>1286 N</u>	<u>N/A</u>	<u>N/A</u>
		Psgr Side <u>1286 N</u>	<u>N/A</u>	<u>N/A</u>
	Distance from SRP to Load Application on Back Pan (meters)	Drvr Side <u>.29 M</u>	<u>N/A</u>	<u>N/A</u>
		Psgr Side <u>.29 M</u>	<u>N/A</u>	<u>N/A</u>
Displacement of Head Form Rearward of Displaced Torso Line when loaded to 373Nm Moment 65 mm below Top of Head Restraint	Shall not be displaced more than 102 mm rearward of Displaced Extended Torso Line	Drvr Side <u>72 mm</u>	<u>X</u>	<u> </u>
		Psgr Side <u>35 mm</u>	<u>X</u>	<u>N/A</u>
	Distance from SRP to Point on Head Form where load is applied (meters)	Drvr Side <u>.84 M</u>	<u>N/A</u>	<u>N/A</u>
		Psgr Side <u>.84 M</u>	<u>N/A</u>	<u>N/A</u>

**DATA SHEET 4 (2 of 2)
HEAD FORM DISPLACEMENT**

TEST REQUIREMENT	DEMONSTRATION REQUIREMENT	TEST DATA	Pass	Fail
Displacement of Head Form Rearward of Displaced Torso Line when loaded to 373Nm Moment 65 mm below top of head restraint	Force applied to head form to produce 373 Nm moment (lbs)	Drvr Side <u>444 N</u>	<u>N/A</u>	<u>N/A</u>
		Psgr Side <u>444 N</u>	<u>N/A</u>	<u>N/A</u>

REMARKS:

TEST # 6129 – Driver Side Back Pan
 6130 – Driver Side Head Form
 6131 – Passenger Side Back Pan
 6132 – Passenger Side Head Form

RECORDED BY: G. FARRAND

DATE: 11/24/08

APPROVED BY: D. MESSICK

**DATA SHEET 5
OWNER'S MANUAL**

VEH. MOD YR/MAKE/MODEL/BODY STYLE: 2008 KIA SPORTAGE MPV

VEH. NHTSA NO.: C80506 ; VIN: KNDJF724587490403

VEH. BUILD DATE: 10/07 ; TEST DATE: November 24, 2008

TEST LABORATORY: GENERAL TESTING LABORATORIES

OBSERVERS: G. FARRAND, J. LATANE

Results of increased load application to 199.5 lbs. OR until failure occurs:

 Head Restraint Failure at lbs

 Seat or Seat Belt Failure at lbs

 X Application of 185 N WITHOUT failure

Describe failure, if encountered, below. If permanent head restraint or seat back deformation is observed, describe below.

REMARKS:

RECORDED BY: G. FARRAND

DATE: 11/24/08

APPROVED BY: D. MESSICK

SECTION 4
INSTRUMENTATION AND EQUIPMENT LIST

TABLE 1 – INSTRUMENTATION & EQUIPMENT LIST

EQUIPMENT	DESCRIPTION	MODEL/ SERIAL NO.	CAL. DATE	NEXT CAL. DATE
HRMD	RONA KINETICS & ASSOCIATES LTD.	HRMD 0-62	N/A	N/A
J826 MANIKIN	ALDERSON RESEARCH LABS	3 DM/92	N/A	N/A
DIGITAL PROTRACTOR	MITUTOYO	950-315 PRO 360	BEFORE USE	BEFORE USE
RULE/SCALE	STARRET	C331		
TORPEDO LEVEL	SANDS	500	BEFORE USE	BEFORE USE
FORCE GAUGE	CHATILLON	DPPN-50 870	BEFORE USE	BEFORE USE
CALIPER	STARRET	N/A	BEFORE USE	BEFORE USE
LEVEL, LASER	BLACK & DECKER	360	BEFORE USE	BEFORE USE
LEVEL, LASER	SEAN & STEPHEN CORP	90°, 45°	BEFORE USE	BEFORE USE
LEVEL, LASER	GAERTNER	2789-A	BEFORE USE	BEFORE USE
ACCELEROMETER	ENDEVCO	F209	11/08	11/09
LOAD CELL	SENSOTEC	257818	01/08	01/09
LOAD CELL	INTERFACE	27246	05/08	05/09
STRING POT	WALDALE	102	BEFORE USE	BEFORE USE
STRING POT	CELESCO	69	BEFORE USE	BEFORE USE

SECTION 5
PHOTOGRAPHS



2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.1
LEFT SIDE VIEW OF VEHICLE



2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.2
RIGHT SIDE VIEW OF VEHICLE



2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.3
¾ FRONTAL VIEW FROM LEFT SIDE OF VEHICLE



2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.4
¾ REAR VIEW FROM RIGHT SIDE OF VEHICLE



TIRE AND LOADING INFORMATION PNEUS ET CHARGE-INFORMATION

SEATING CAPACITY	TOTAL 5	FRONT 2	REAR 3
NOMBRE DE SIÈGES	TOTAL 5	AVANT 2	ARRIÈRE 3

The combined weight of occupants and cargo should never exceed 390kg or 860lbs.
Le poids combiné des occupants et du chargement ne doit jamais excéder 390kg ou 860lb.

TIRE / PNEU	SIZE / DIMENSION	COLD TIRE PRESSURE / PRESSION À FROID	SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION	CONSULTER LE GUIDE DU PROPRIÉTAIRE POUR OBTENIR DES RENSEIGNEMENTS ADDITIONNELS
FRONT / AVANT	P215/65R16	210kPa, 30psi		
REAR / ARRIÈRE	P215/65R16	210kPa, 30psi		
SPARE / SECOURS	T155/90D16	420kPa, 60psi		

FIGURE 5.5
VEHICLE CERTIFICATION LABEL



MANUFACTURED IN KOREA BY
KIA MOTORS CORPORATION

10/07

GAWR

GVWR 4519 LB

TIRES

PAINT S6

RIMS

TRIM WK

COLD TIRE INFL

FRONT 2579 LB P215/65R16

6.5Jx16

30 psi SINGLE

REAR 2425 LB P215/65R16

6.5Jx16

30 psi SINGLE

THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S.A. FEDERAL
 MOTOR VEHICLE SAFETY AND THEFT PREVENTION STANDARDS
 IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.

V.I.N KNDJF724587490403

MPV



2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.7
DRIVER SIDE HEAD RESTRAINT



2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.8
TYPICAL HEAD RESTRAINT ADJUSTMENT BUTTON



2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.9
PASSENGER SEAT HEAD RESTRAINT



2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.10
J826 MANIKIN POSITIONED IN DRIVER SEAT



2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.11
DRIVER HEAD RESTRAINT IN HIGHEST POSITION



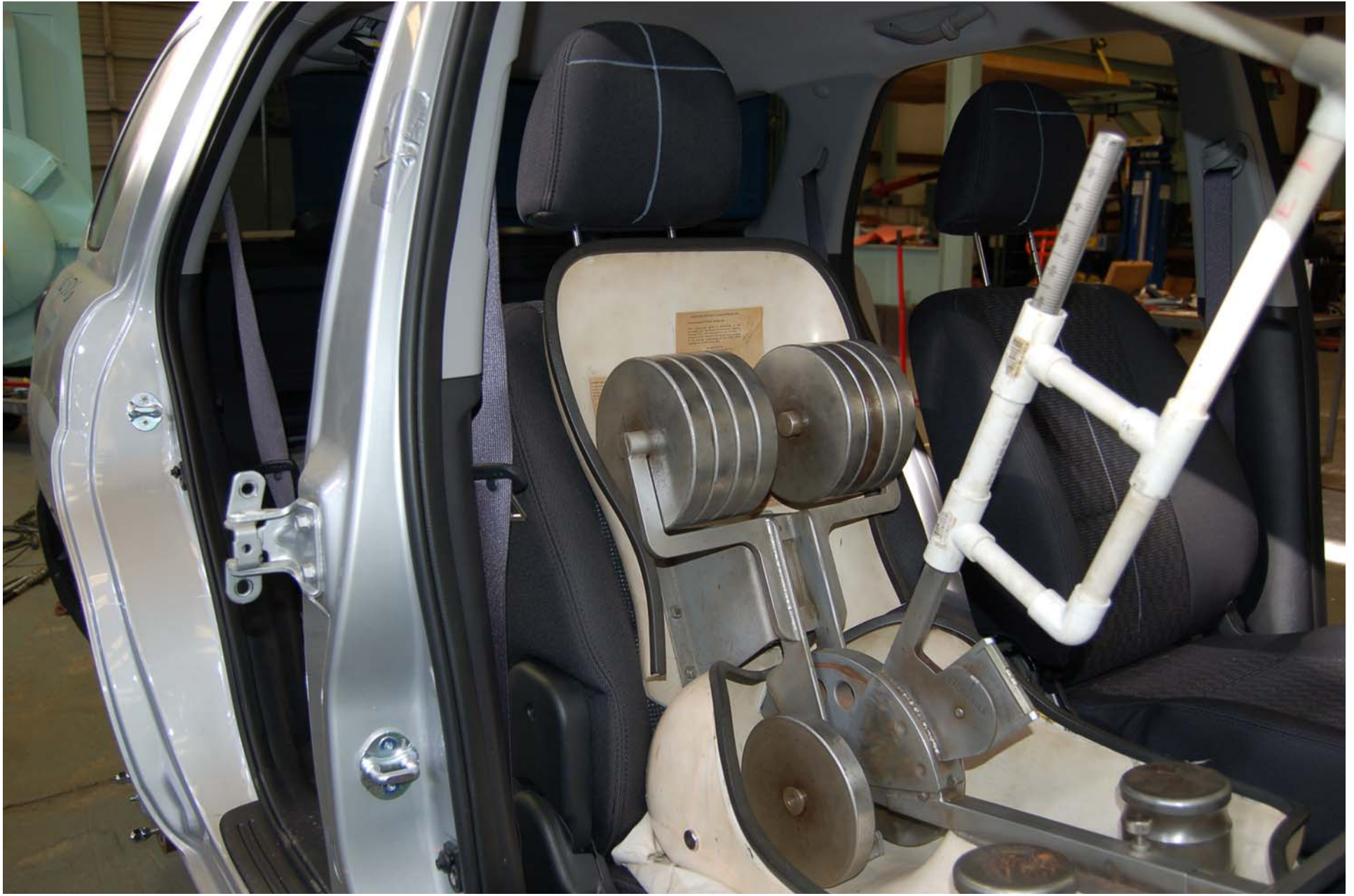
2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.12
DRIVER HEAD RESTRAINT IN LOWEST POSITION



2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.13
DRIVER HEAD RESTRAINT WIDTH MEASUREMENT



2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.14
J826 MANIKIN POSITIONED IN PASSENGER SEAT



2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.15
PASSENGER HEAD RESTRAINT IN HIGHEST POSITION



2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.16
PASSENGER HEAD RESTRAINT IN LOWEST POSITION



2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.17
PASSENGER HEAD RESTRAINT WIDTH MEASUREMENT



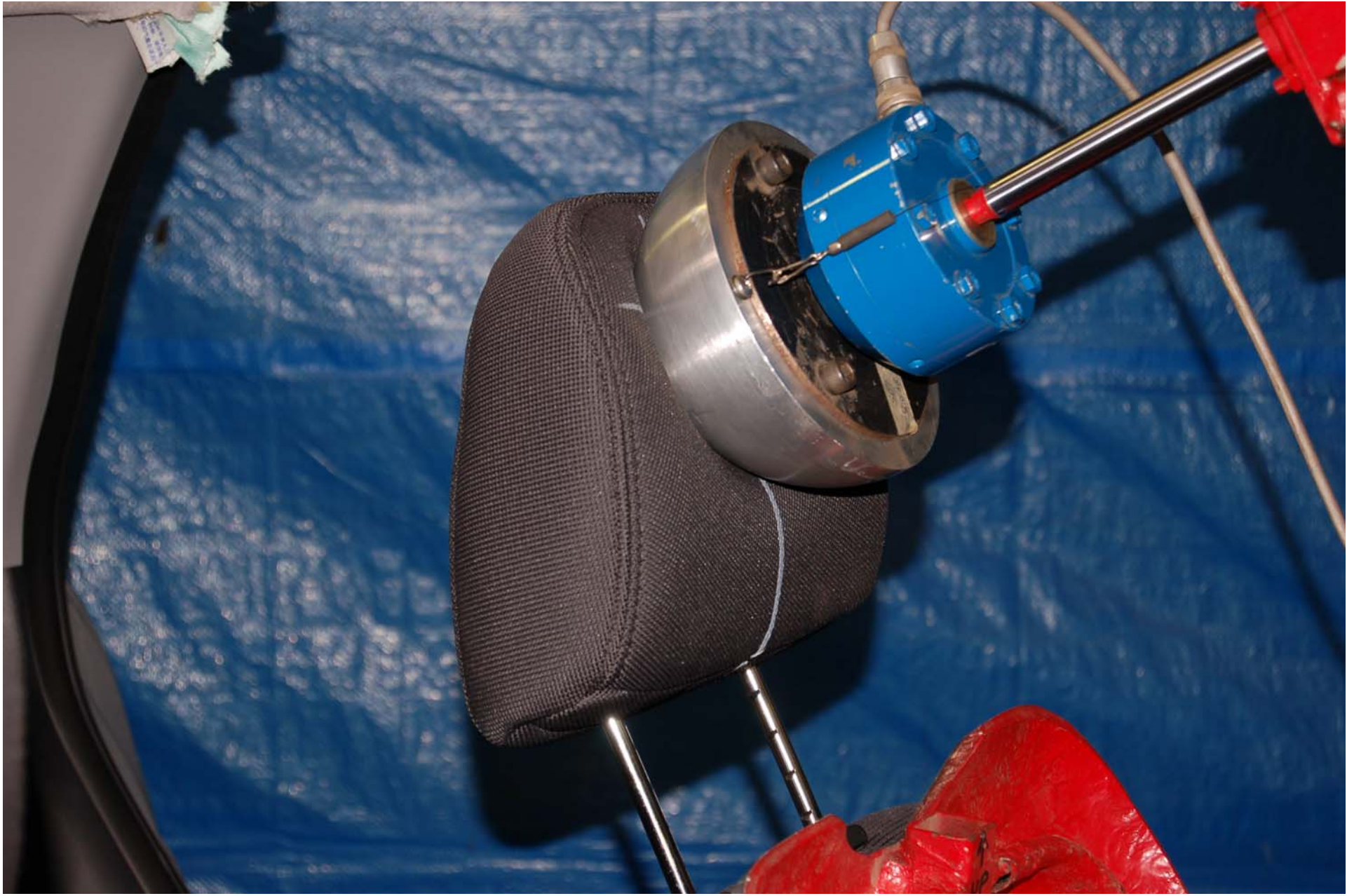
2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.18
PRE-TEST SET-UP FOR BACKSET RETENTION DRIVER
SIDE



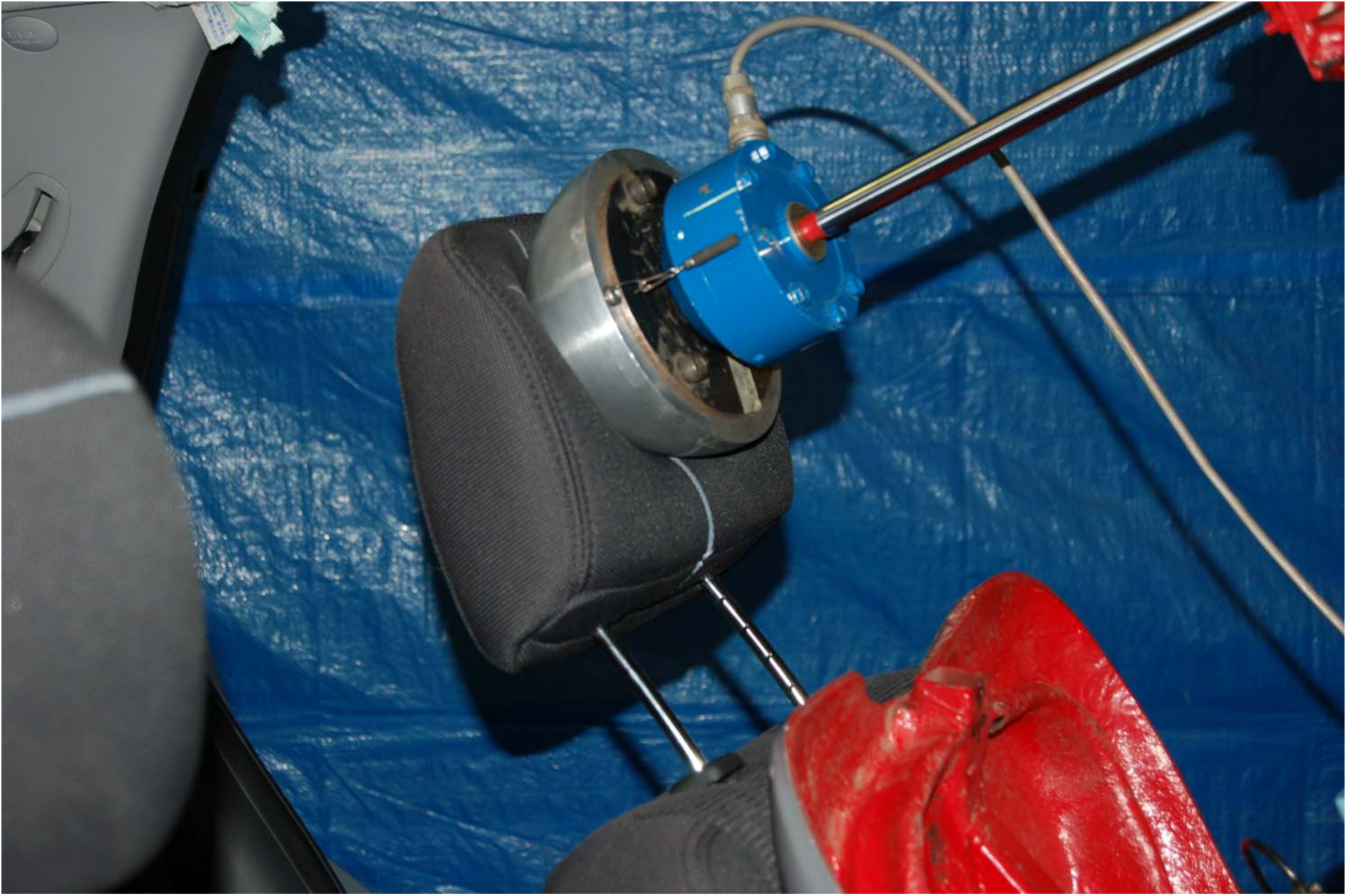
2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.19
BACK PAN LOADED FOR DISPLACED TORSO LINE



2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.20
HEAD RESTRAINT LOADED TO 373 Nm



2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.21
HEAD RESTRAINT LOADED TO 895 NEWTONS



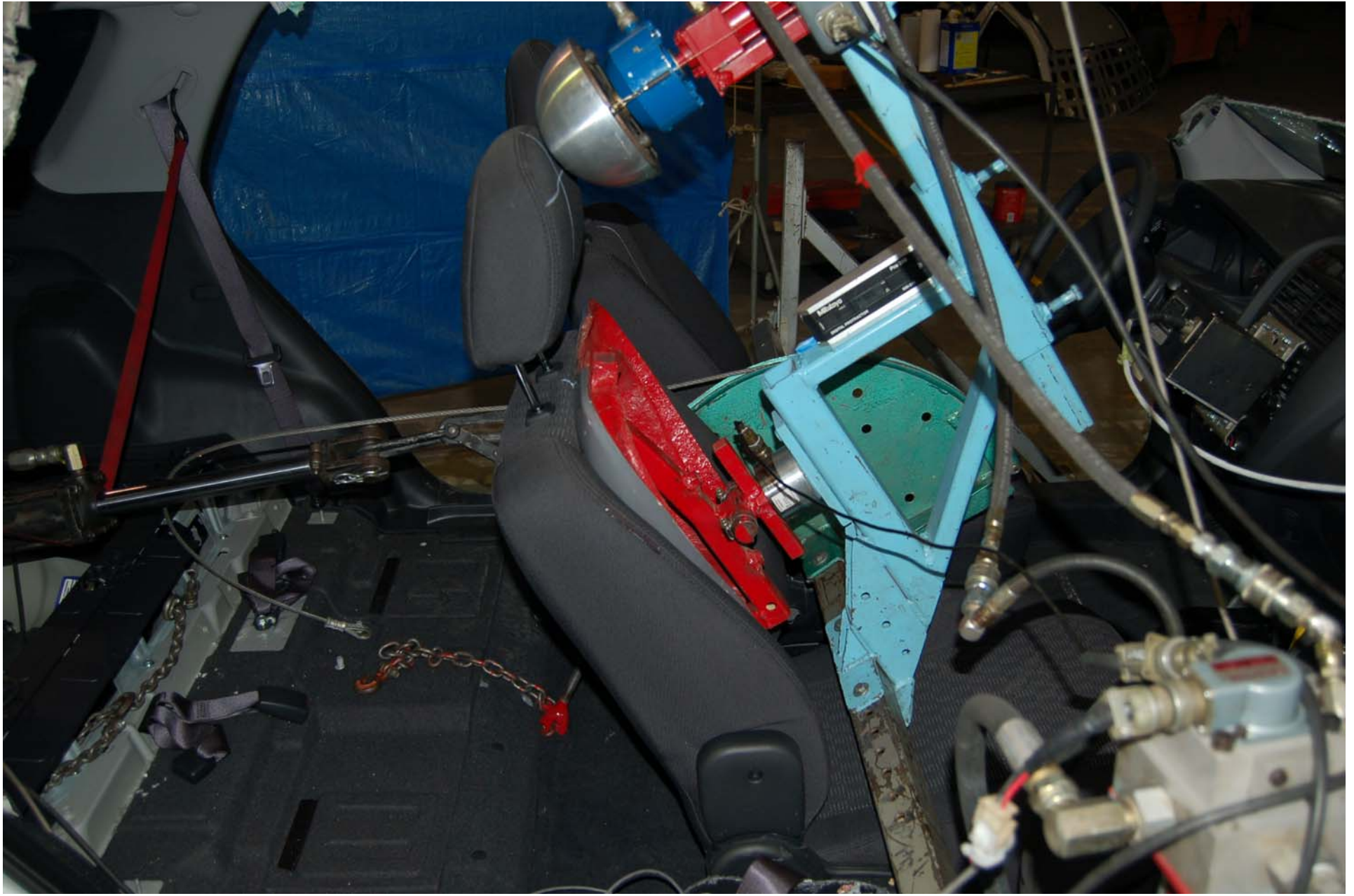
2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.22
HEAD RESTRAINT POST TEST 895 NEWTON LOAD



2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.23
PRE-TEST SET-UP FOR BACKSET RETENTION
PASSENGER SIDE



2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.24
BACK PAN LOADED FOR DISPLACED TORSO LINE



2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.25
HEAD RESTRAINT LOADED TO 373Nm



2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.26
HEAD RESTRAINT LOADED TO 895 NEWTON'S



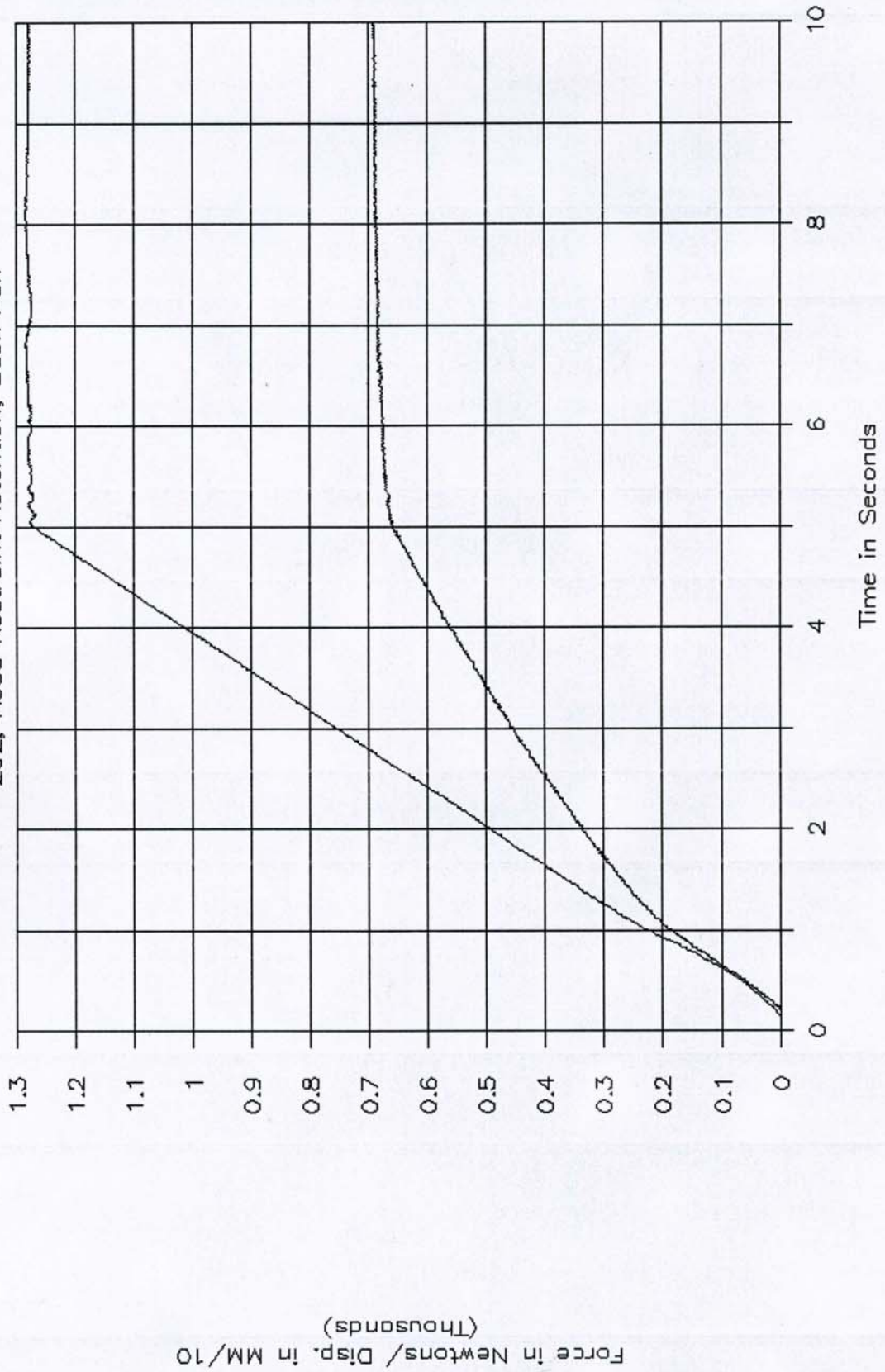
2008 KIA SPORTAGE
NHTSA NO. C80506
FMVSS NO. 202a

FIGURE 5.27
HEAD RESTRAINT POST TEST 895 NEWTON LOAD

SECTION 6
TEST PLOTS

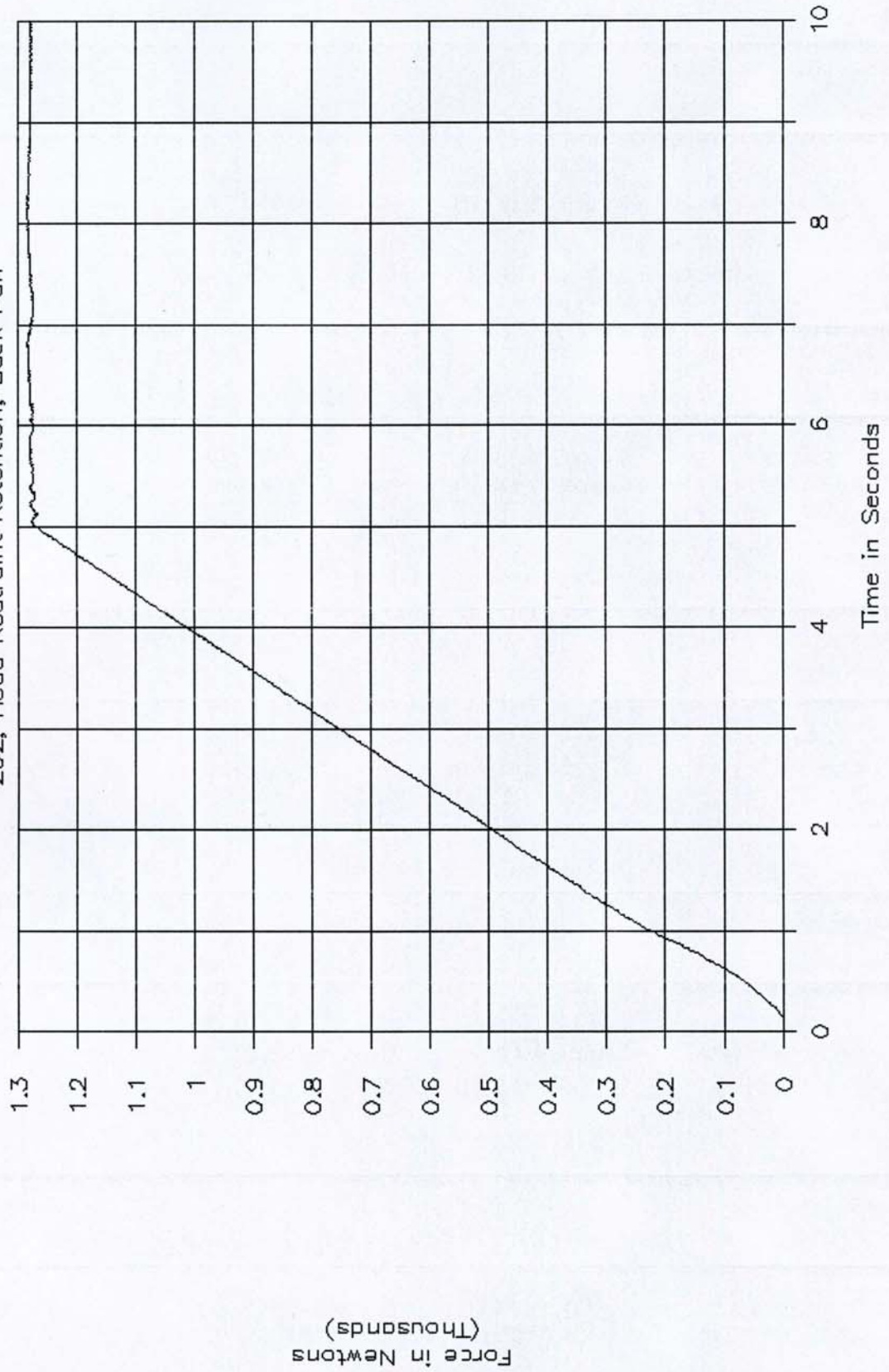
GTL 6129, C80506

202, Head Restraint Retention, Back Pan



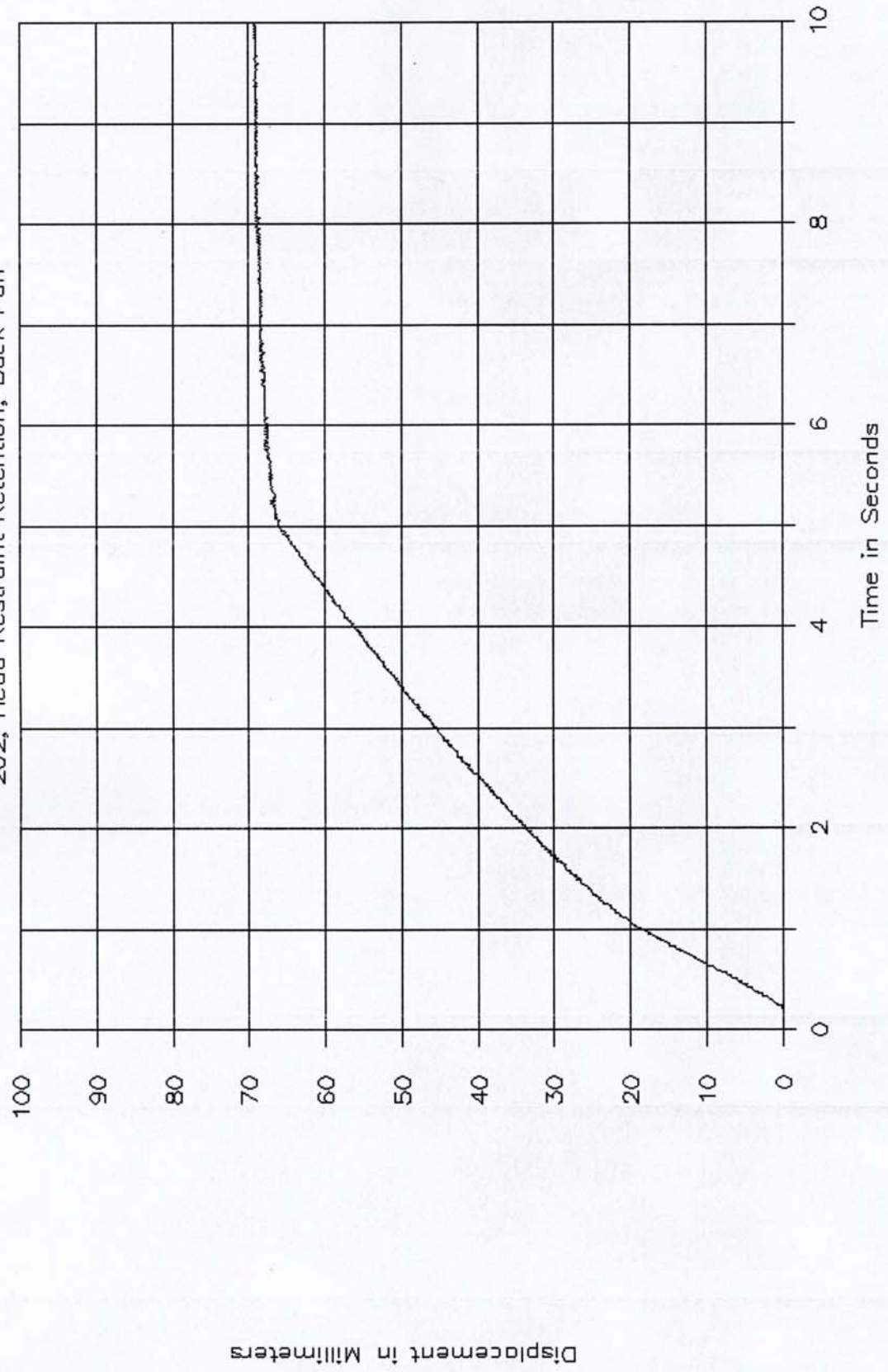
GTL 6129, C80506

202, Head Restraint Retention, Back Pan



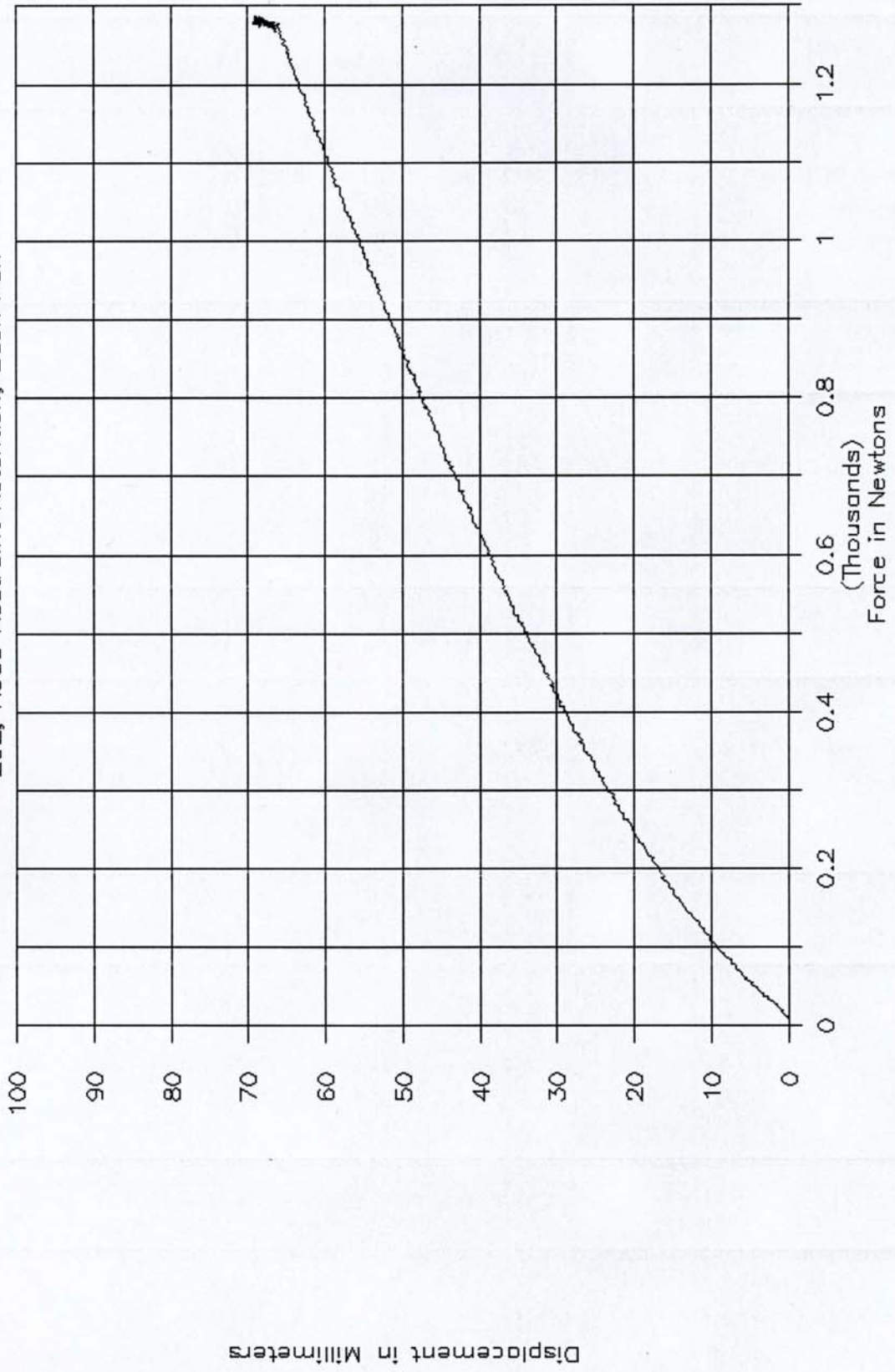
GTL 6129, C80506

202, Head Restraint Retention, Back Pan



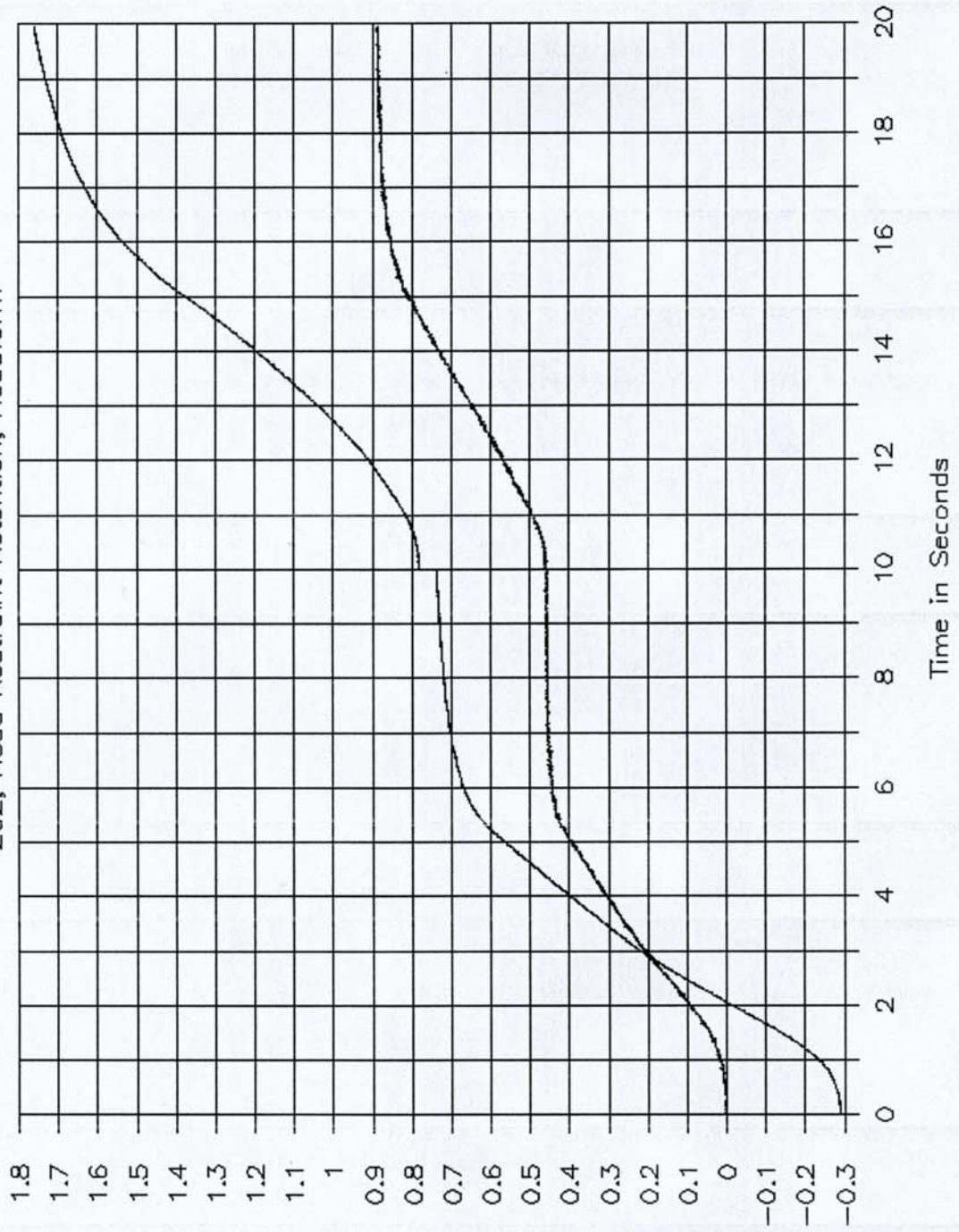
GTL 6129, C80506

202, Head Restraint Retention, Back Pan



GTL 6130, C80506

202, Head Restraint Retention, Headform



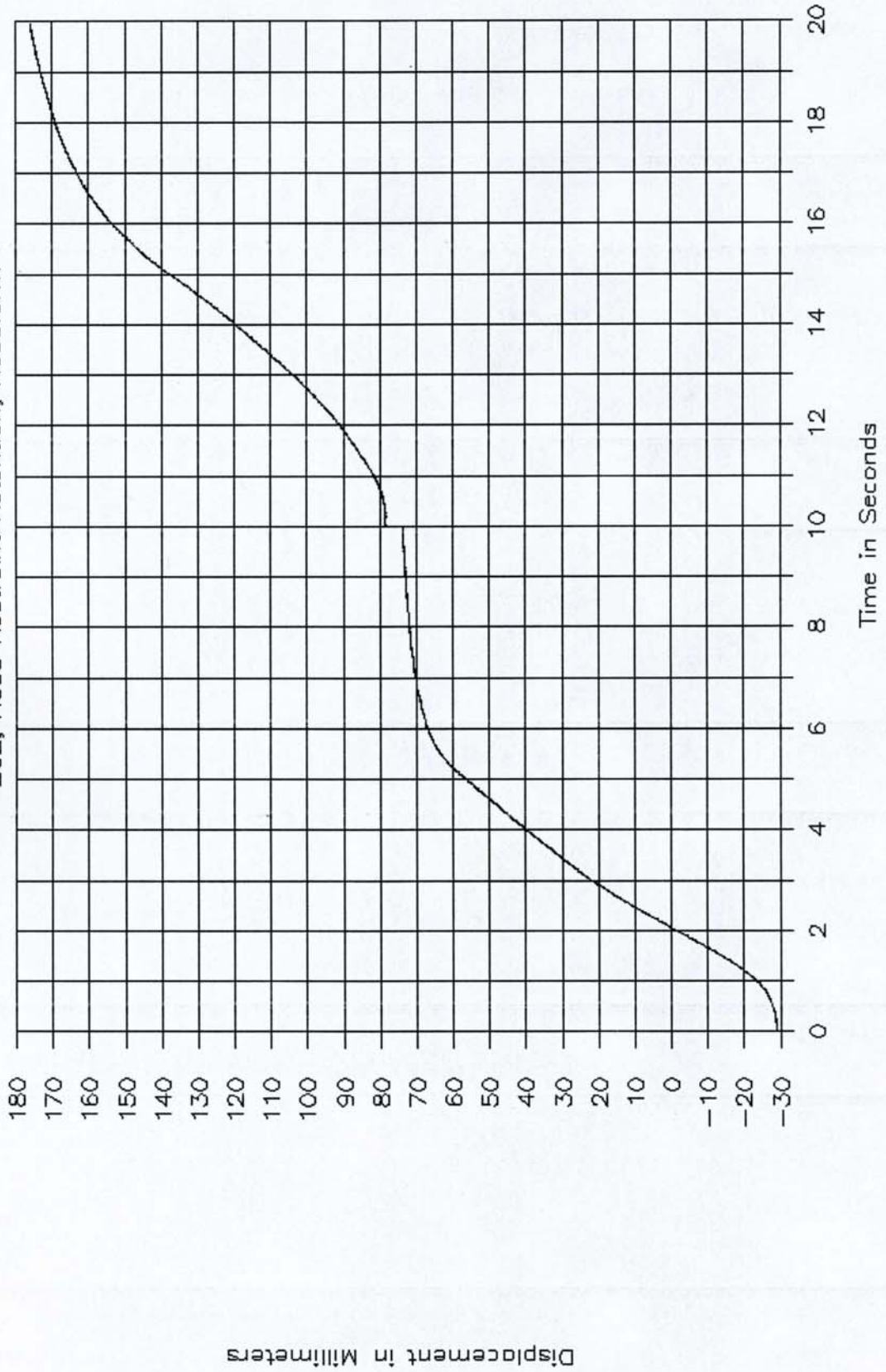
GTL 6130, C80506

202, Head Restraint Retention, Headform



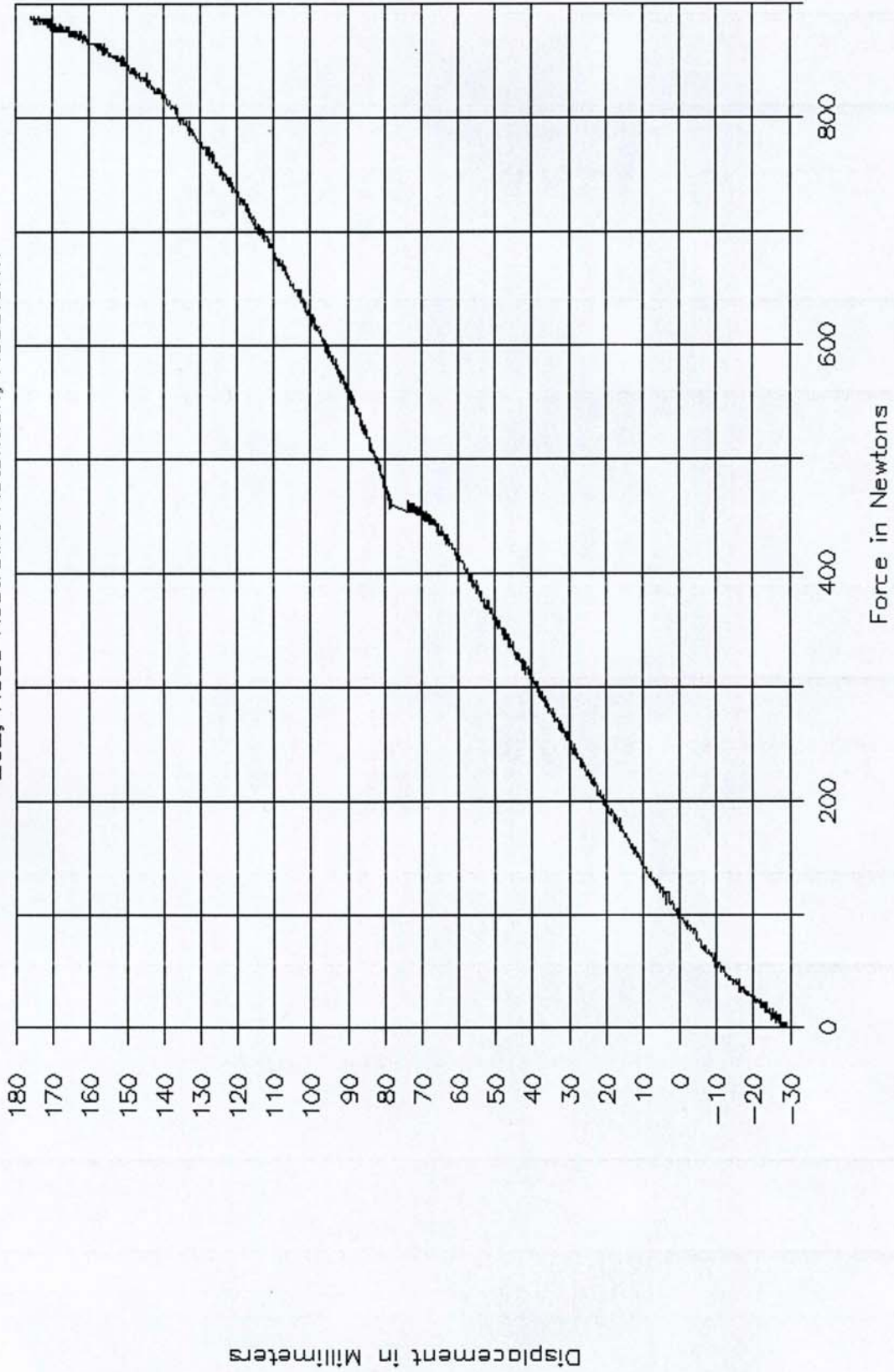
GTL 6130, C80506

202, Head Restraint Retention, Headform



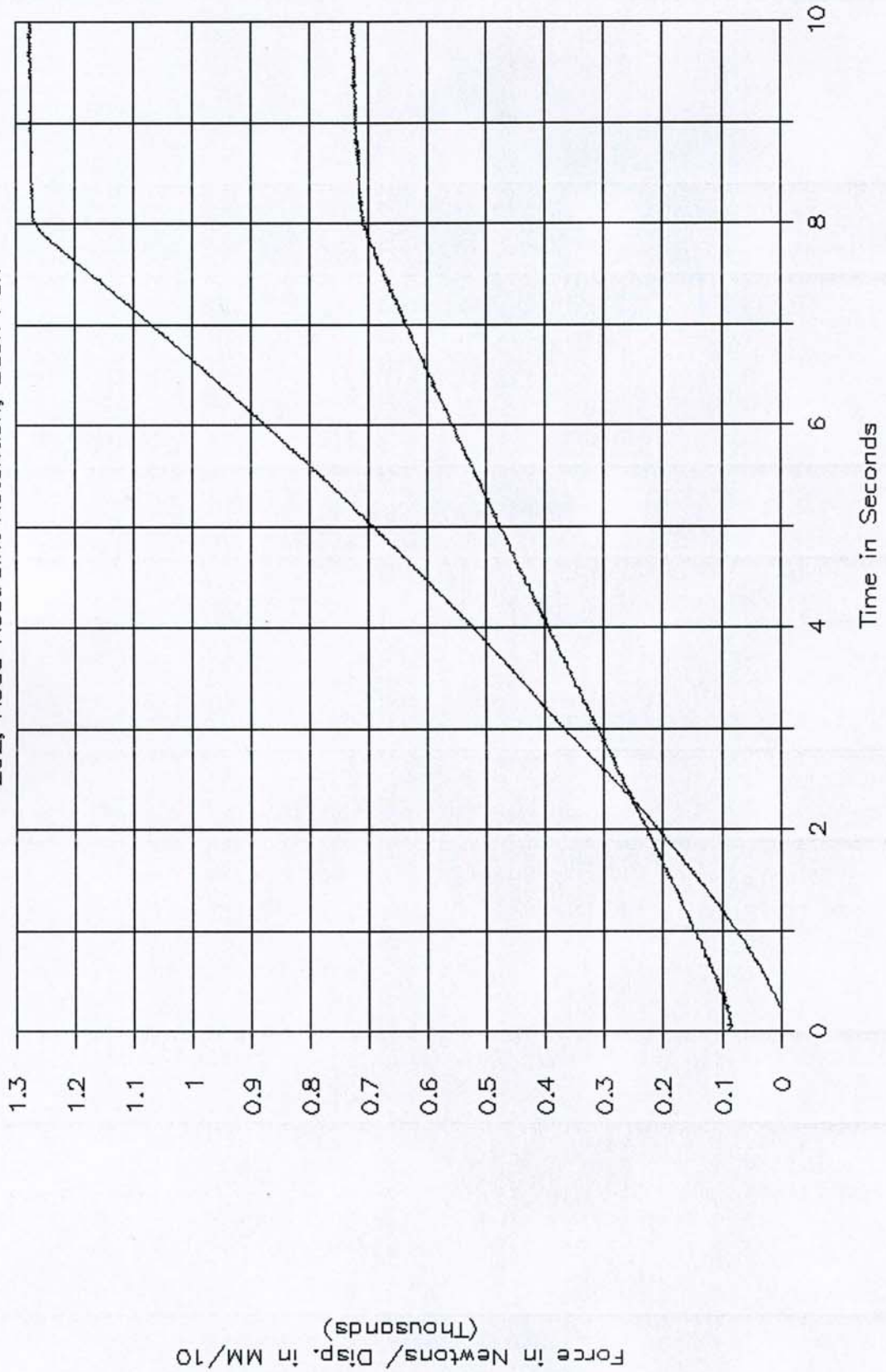
GTL 6130, C80506

202, Head Restraint Retention, Headform



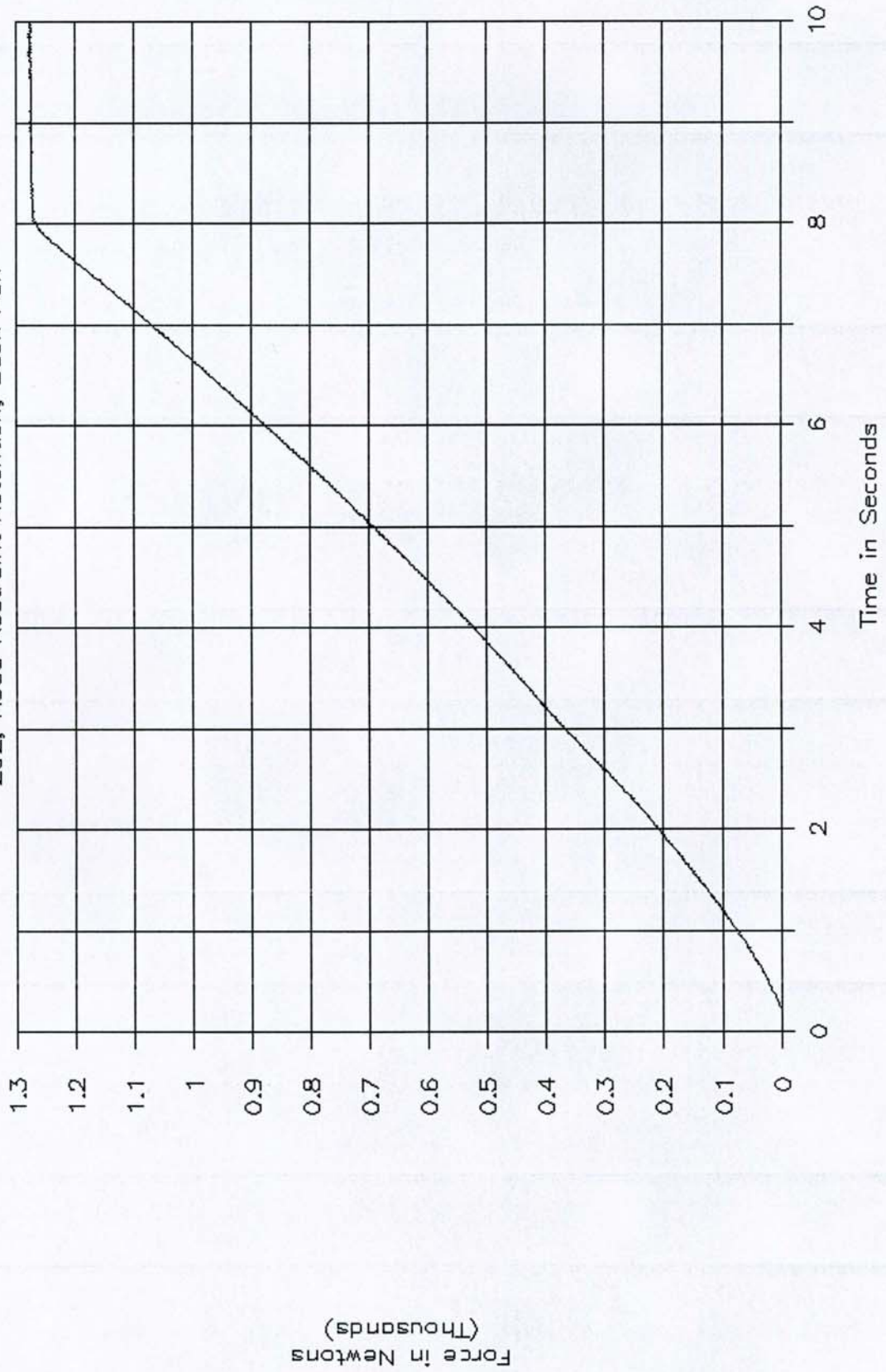
GTL 6131, C80506

202, Head Restraint Retention, Back Pan



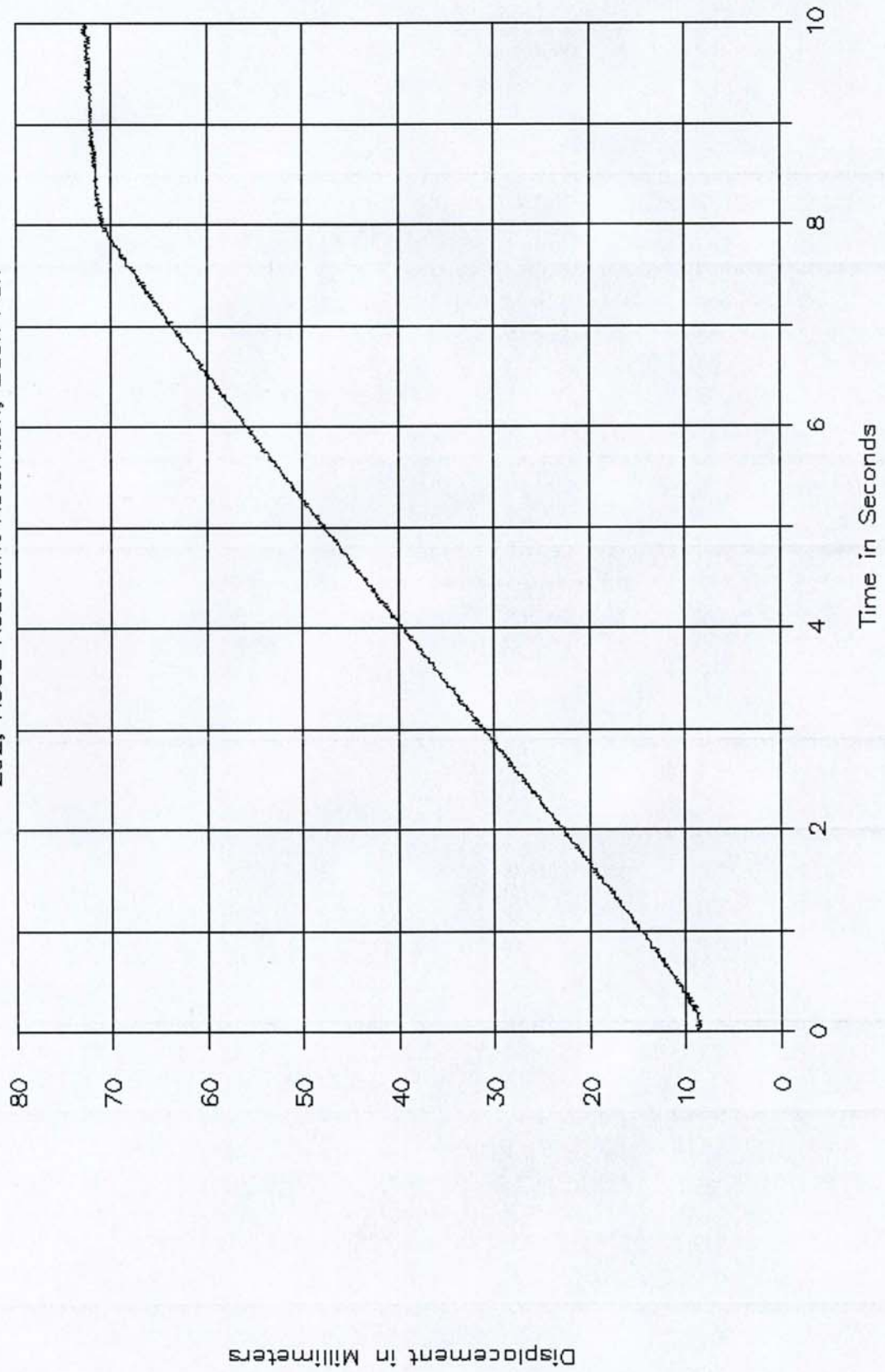
GTL 6131, C80506

202, Head Restraint Retention, Back Pan



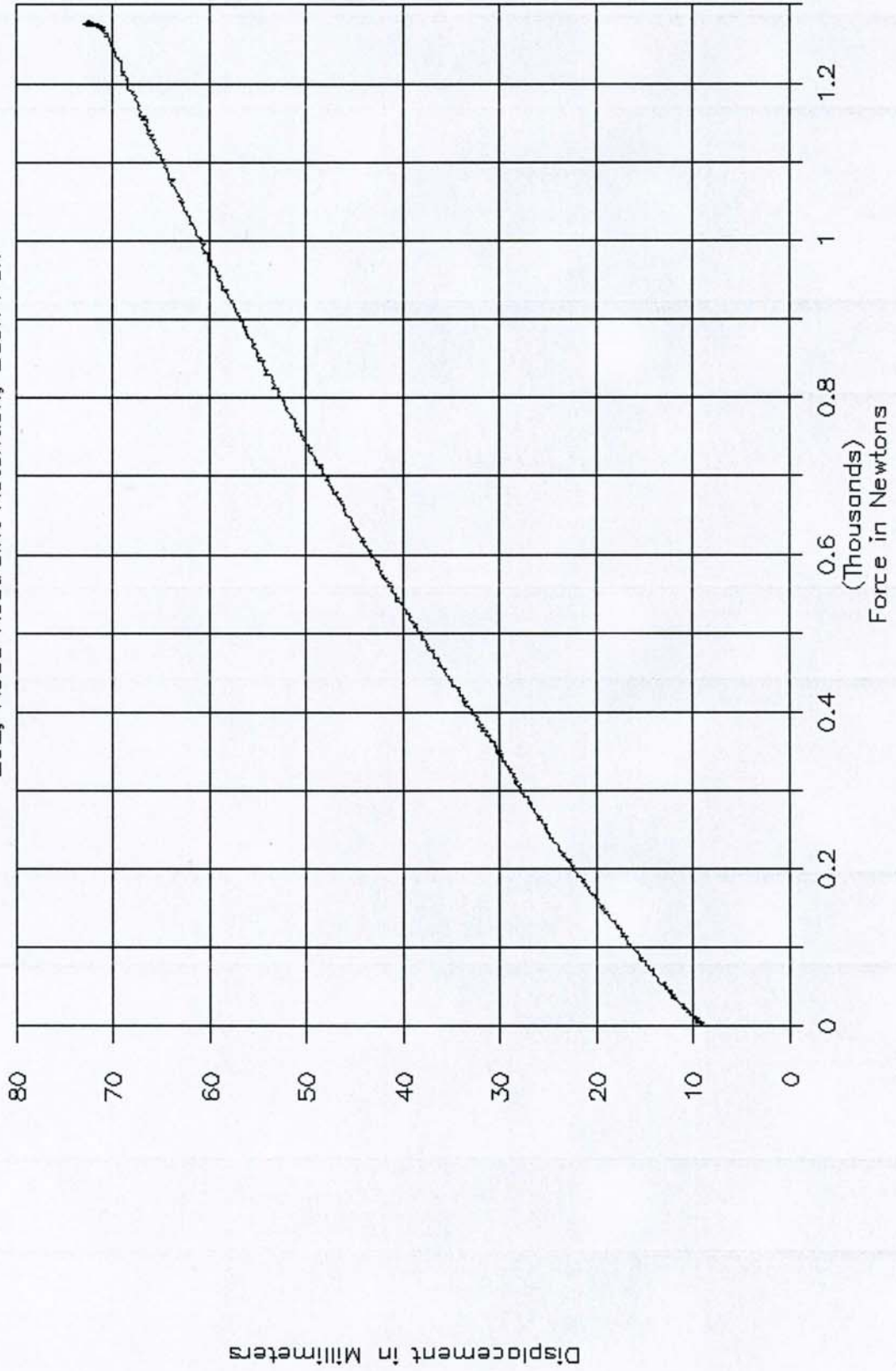
GTL 6131, C80506

202, Head Restraint Retention, Back Pan



GTL 6131, C80506

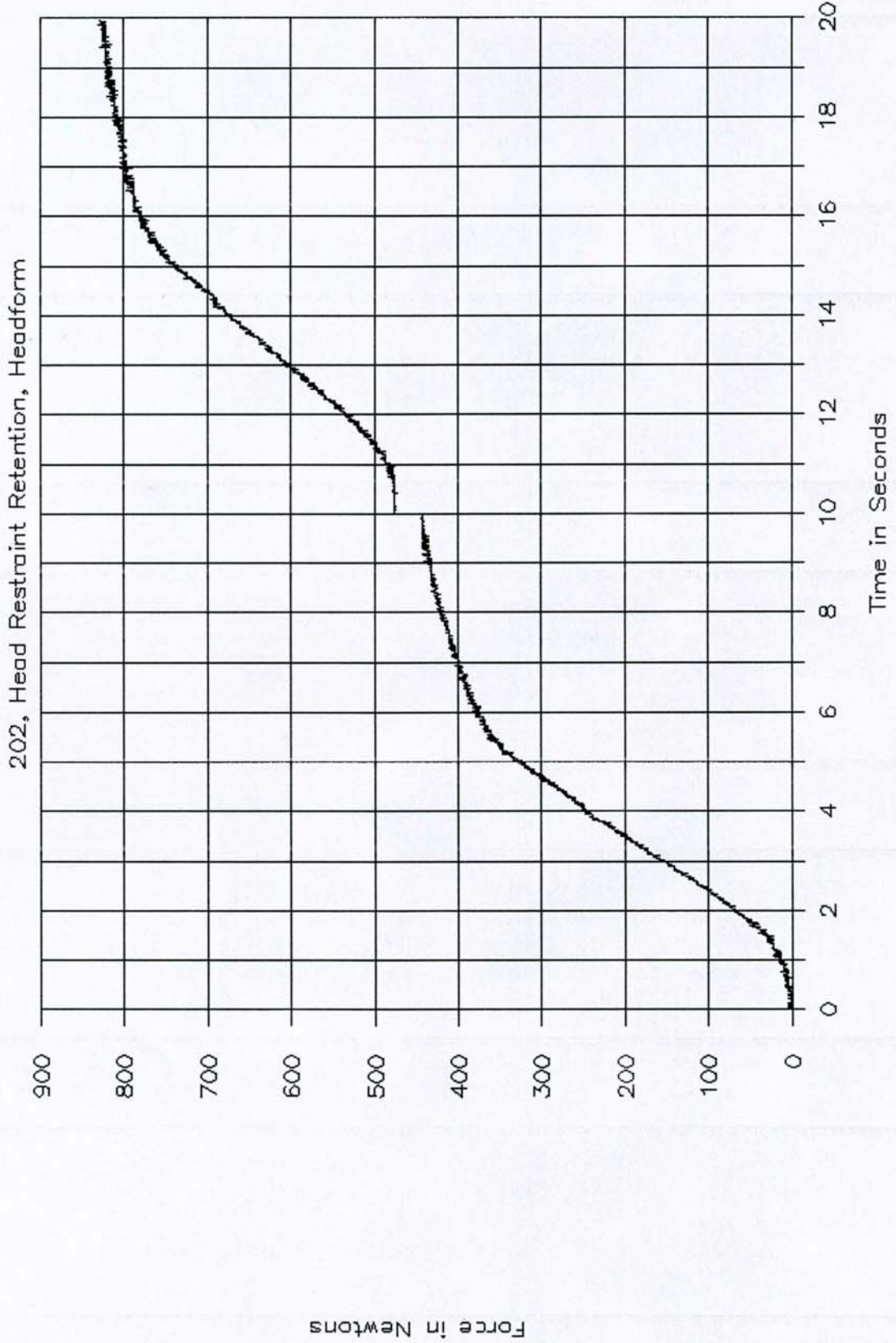
202, Head Restraint Retention, Back Pan



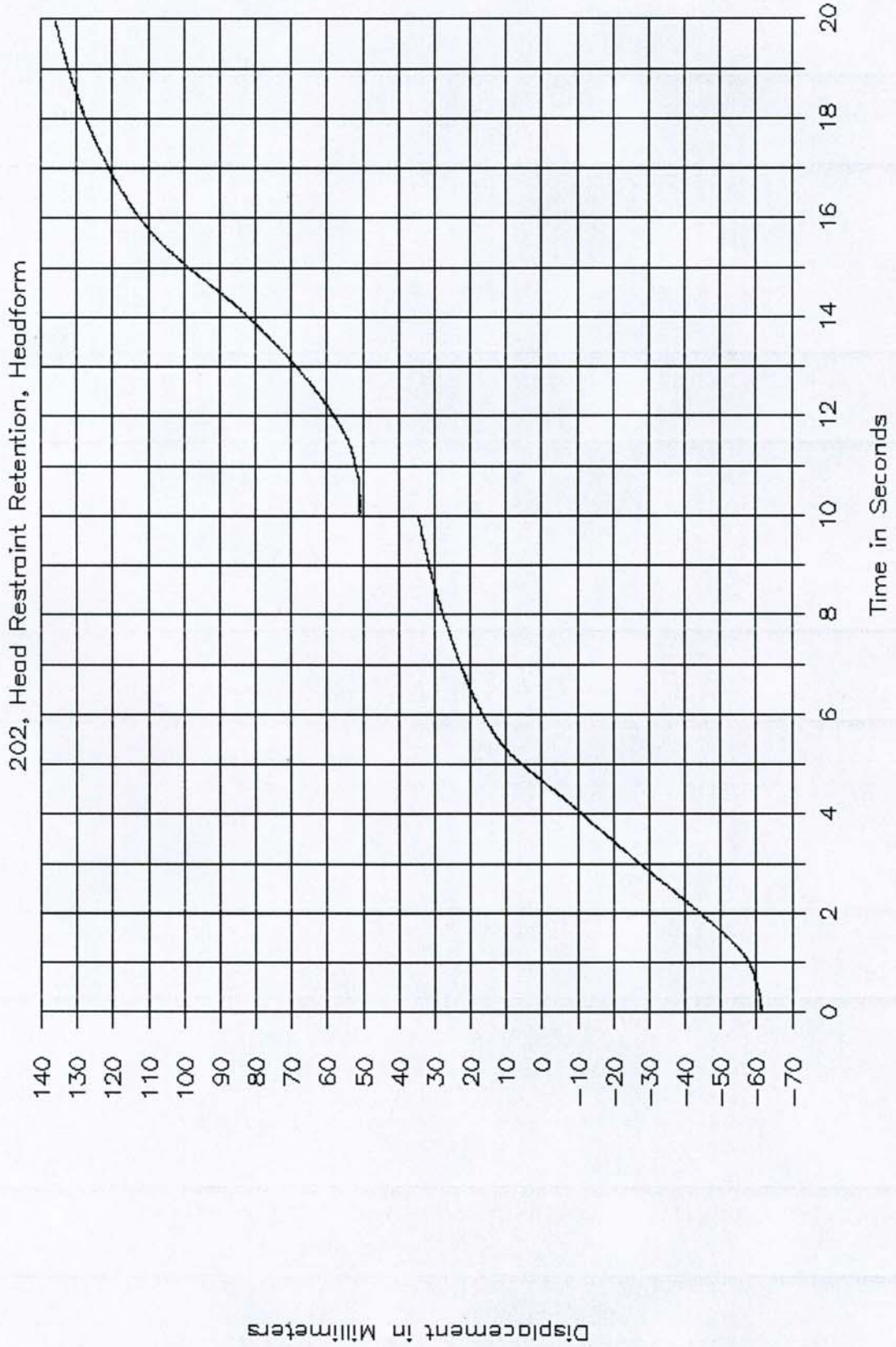
GTL 6132, C80506



GTL 6132, C80506

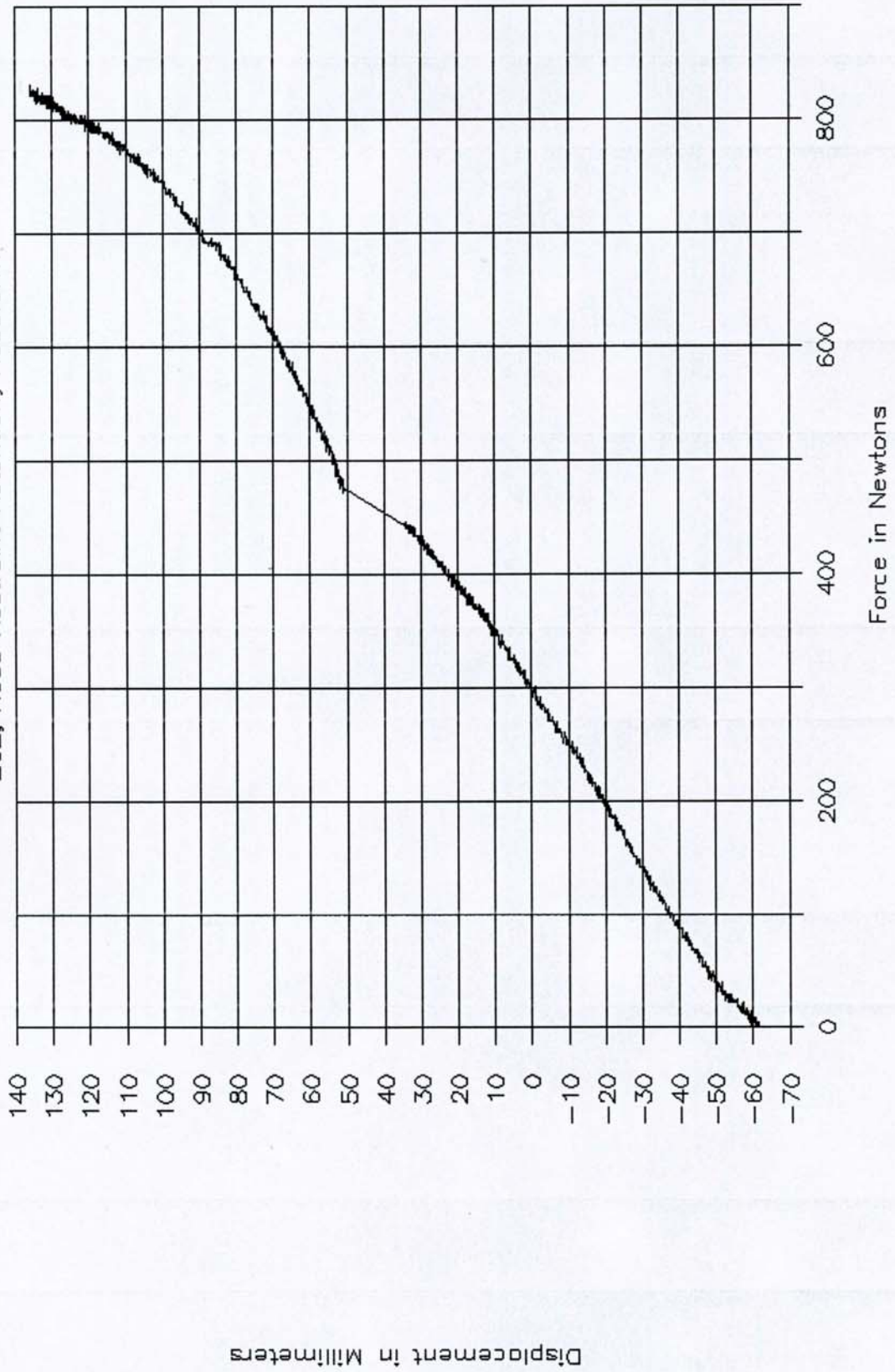


GTL 6132, C80506



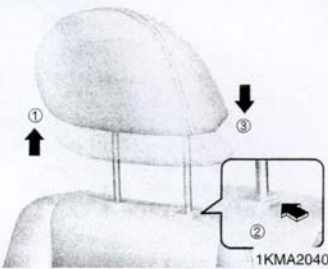
GTL 6132, C80506

202, Head Restraint Retention, Headform



SECTION 7
OWNER'S MANUAL INFORMATION

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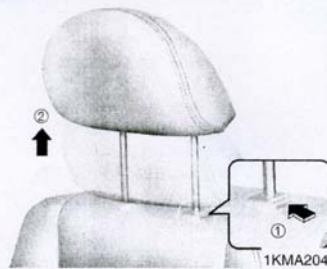


Front headrest adjustment

Adjusting the height up and down

The headrest not only provides comfort for the driver and passengers, but also helps to protect the head and neck in the event of a collision.

To raise the headrest, pull it up to the desired position (1). To lower the headrest, push and hold the release button (2) on the headrest support and lower the headrest to the desired position (3). For best protection, adjust the headrest so its center is as high as your ears. Also adjust the headrest so its distance from the head is as wide as your fist.



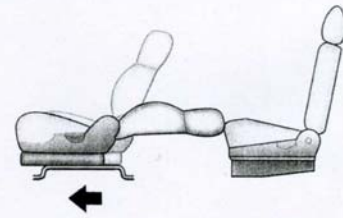
Removal

To remove the headrest, raise it as far as it can go then press the release lever (1) while pulling upward (2).

⚠ WARNING - Headrest positioning

To reduce the risk of head and neck injuries, each occupant headrest must be properly adjusted. Do not drive the vehicle with the headrest removed or improperly positioned.

Do not adjust the driver's headrest while driving, or else loss of control and an accident is possible.



Full flat seat (if equipped)

When the vehicle is parked, you can place the front seat in a reclined position, nearly flat.

1. Remove the headrest.
2. Move the front seat to the farthest forward position.
3. Recline the seatback as far as it can go to allow the rear seat passenger to support their legs in the reclined position.