#### **REDACTED**

## Proprietary / Confidential Information Removed



### **Survival Factors Attachment 1**

## Midwest Automotive Designs Invoice No. 2382

Cranbury, NJ HWY14MH012

(66 Pages)



4251 Pine Creek Rd, Elkhart, IN 46516 P:574-522-4878 F:574-522-5828 2012 Platinum Basinus Class Styleter Series

	Date	3/22/12	Invoice # 2	2382	Sales Rep	
	Customer l	_ake View Custo	m Coach (Montrose)	Customer Sig		
	Address			Contact Jeff B	rown	
	City	Oaklyn		Cust. Phone		
	ST.	NJ	Zip	Cust. Fax		
				Exterior Color		Black
<b>K</b> Z	2500 170	EXT Sprinte	er HT 3.0L Turbo Diese			Bentley
$\boxtimes$	2000 110	Lati opinio	JI 111 0.02 1 41 20 2 103	Seat Color		Blush
VIN 1	# WD3PF80	C1C5666970		Wall / Ceiling		Sand
V 1111	, 1100, 200			Flooring		Wood
Inte	rior Stand	lard Feature	<u>s</u>	Wood Trim		Turkish Burl
* Autom	notive Color Key	ed Walls		* Seat Belt Package		
	Nylon Color Ke			* Rear Luggage Storage Lighted		
	notive Headline			* 5 Facing Buckets seats		
* Floor !	Mats W/Non Sl	ip Rubber Backing		* Rear 3 Pass Power Electric Reclining Sof	a	
* 110 V	Outlets (2)			* Side Wall Consoles w/Cup Holders and	Storage	
* 12 vol	t Outlets at Each	Seat Location		* Driver and Passenger Deluxe Seating Re	cover	
* 42" LC	CD Flat Screen M	lonitor		* Rear Air and Heat 30,000 BTU		
* Front	Partition W/ Po	wer Window		W/Dual Compressor, Condenser, and	Evaporator	
* Rear F	Partition Wall - N	No TV		Digital Rear air Controls		
* Touch	Screen Rear Al	M / FM Radio		* Full Length Wall Consoles W/Cup hold	ers	

- \* Audio Amplifier \* CD Player
- \* DVD Player
- \* I pod Hook Up
- \* Mobile Theater Sound System
- \* Sub Woofer
- \* Wireless Head Phone Jack System
- \* Video Game Prep W/Inverter
- \* Dark Tinted Side and Rear Windows
- \* Deluxe Lighting Controls
- \* Interior Lighting Package Dual Lighting Controls w/Dimmers
- \* Complete Insulation Package
- \* Complete Privacy Shade Package
- \* Overhead and Floor Courtesy Lighting
- \* Rear Speaker Upgrades
- \* Rear Facing Seat Floor Console w/Storage
- \* Intercom Phone

#### **Exterior Standard Features**

- \* Fiberglass Running Board with Step (Color Keyed to Chassis)
- \* Color Keyed Bumpers
- \* Color Keyed Body Moldings
- \* Wheel Covers

- \* 2 Rear Clothes Hangers (Ceiling Mount)
- \* Interior Sound Deadening Package
- \* Coordinated Valances w/Indirect Lighting
- \* Hand Rubbed Custom Made High Gloss Burled Wood Package
  - 6 pc Dash and Door Kit

Window Ledges

Valance Trims (Indirect Lighting) (2)

Upper Corner Trims (Indirect Lighting) (2)

Front Overhead TV Face

Rear Overhead

Speaker Grills (6)

Side Electronics Console

Caddie Tops

- \* Coordinated Door Panels (Rear Half Carpet)
- \* Dual Battery Charging System W/Custom Battery Tray
- \* HDMI Hook Up

#### Platinum Package Special Features

Digital Satellite Directional TV System

Slide Under Sofa Refrigerator

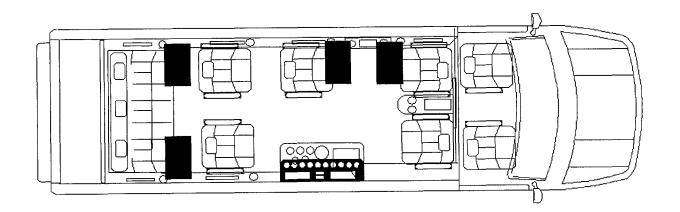
Satellite Radio (Rear)

18" Wheel and Tire Upgrade
Wireless Internet Router
Front Bumper Cover W/Fog Lights
Security System W/Control Pads
Back-up Camera System (Display on GPS)
Overhead Side Cabinets w/Wood Doors
Wood / Leather Steering Wheel

Under Sofa Locking Storage Drawer
Rear 42" Monitor W/Rear Partition Wall
Side Bar w/Window Wine Cabinet
Wood Flooring Upgrade
Wall Mount I pad Dock (I pad Included Wi-Fi 32g)
4 Console Lap Tables (\$275.00 Each)
Crestron AV Remote System
In dash 6.5" LCD GPS, CD, DVD, Navigation Touch Screen

#### **Available Options**

	Dr & Pass Front Center Floor Console w/12volt
$\boxtimes$	Add 16" alum Wheels
$\boxtimes$	Delete Overhead Side Cabinets
$\boxtimes$	Delete Sat TV, 18" Alum Wheels
	Power Leg Lifts ( \$398.00 Per Chair )
	Deluxe Seat Massage ( \$125.00 Per Chair )
	Seat Heat Back and Bottom ( \$109.00 Per Chair )
	Rear Tail Gate 47" TV Audio System
Notes:	



## NORCO INDUSTRIES, INC. 53236 COUNTY ROAD 13 ELKHART, IN 46514

## PRODUCT TESTED:

6048/6049 FRAME 11664 MANUAL SLIDE/SWIVEL PEDESTAL

Man with a supply

	<b>FMVSS</b>	207 SEATING SYSTEM & 210 SEAT BEET PROTECTION
1)	Measu assem	are the lap belt attachment anchorage distance from any bolt center for an individual seat bly. The dimension should measure further apart than 6.50".
2)	Check	all the adjacent seat information below that is true:
	$\boxtimes$	The adjacent seating position faces forward and shares the same occupant seat.
		The dimension from the centerline of any mounting bolt for the occupant seat is further than 12" from the adjacent designated occupant seat bolt centerline that also faces in the same direction.
		The dimension from the centerline of any mounting bolt for the occupant seat is not further than 12" from the adjacent designated occupant seat bolt centerline that also faces the same direction
		The information of the adjacent seat location was not provided to seat supplier for testing.
3)	Speci direct	fy the seat direction that it faces. The seat should face in either the forward or rearward tion for this test.
4)	Chec	k the lap seat belt angle situation that is true:
		The seatbelt does not bear upon the frame and the seat is not adjustable. The line taken from the SRP to the nearest contact point of the belt with the anchorage is at an angle with the horizontal of not less than 30 degrees and not more than 75 degrees.
		The seatbelt does not bear upon the frame and the seat is adjustable. The line from a point 2.520" forward and 0.394" above the SRP to the nearest contact point of the belt with the anchorage extends forward from the anchorage angle with the horizontal of not less than 30 degrees and not more than 75 degrees.
		The seatbelt does bear upon the frame and is not attached to the frame. The seatbelt anchorage is aft of the rearmost belt contact point on the seat frame with the seat in the rearmost position. The line from the SRP to the nearest belt contact point on the seat frame, with the seat positioned at the SRP, extends forward from that contact point at an angle with the horizontal of not less than 30 degrees and not more than 75 degrees.
		The seatbelt attaches to the seat structure. The line from the SRP to the nearest contact point of the belt with the hardware attaching it to the seat structure extends forward from that contact point at an angle with the horizontal of not less than 30 degrees and not more than 75 degrees.
	$\boxtimes$	The seatbelt angle information or all components were not made available to seat supplier for measurement.

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5)	The ve	The vehicle seat is to be positioned in the full rearward and full downward position with the seat back in its most upright position.				
6)	Check	the box that relates most to the situation of the upper torso belt restraint location:				
		The upper torso restraint is located within the acceptable range per figure #1 of section 210 (For adjustable upper torso restraints the mechanism is at mid adjustment position).				
	$\boxtimes$	The upper torso belt location was not provided to seat supplier for measurement.				
7)	Select	the box that is true in relation to the center-of-gravity situation per FMVSS 207:				
	$\boxtimes$	The CG load of twenty times the stack weight was applied at or above the CG point of the full stack.				
		The CG load was applied separately through each of its two major components. The CG load of twenty times the separate component weight was applied through each of its own corresponding CG point.				
8)	load o	arget load for the torso belt at the outboard seating positions is to be set at a minimum of 3000 lbs and at a load rate of not more than 30,000 lbs/second. Apply load at an angle een 5 to 15 degrees.				
9)	of 30	arget load for the lap belt at the outboard seating positions is to be set at a minimum load 00 lbs and at a load rate of not more than 30,000 lbs/second. Apply load at an angle een 5 to 15 degrees.				
10)	5000	arget load for the lap belt at the center seating position is to be set at a minimum load of lbs and at a load rate of not more than 50,000 lbs/second. Apply load at an angle between 15 degrees.				
11)	The	test equipment is to be set to reach all target loads within 30 seconds.				
12)	The	target test loads are to be maintained not less than 10 seconds.				
13)	The	following two pages of information are to be recorded from the test performed.				

Date: 06/05/2012

Technicians:

Vehicle Model Yr/Make/Model/Body: N/A

VIN Number: N/A

Vehicle Mfg Date: N/A

Observers:

Seat Frame Description: Adnik 6048/6049 Manual Recline ISS frame

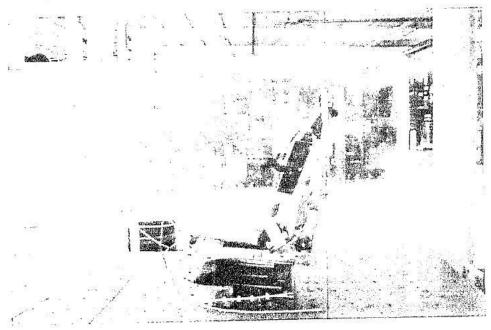
Power Unit Description: Adnik 11664 Manual slide/swivel riser

Slide Track Description: N/A

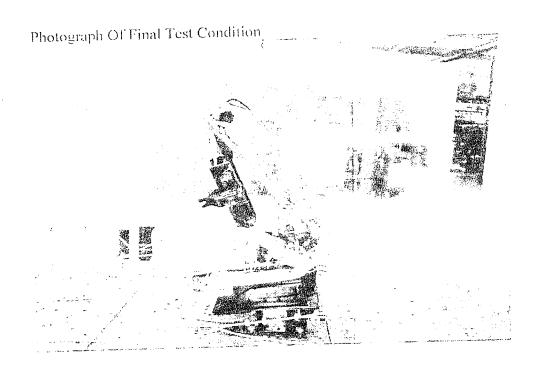
Undercarriage Description: N/A

Sub plate Descriptions: N/A

### Photograph Of Setup:



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Description Of Location In Vehicle: N/A

Distance Between Seatbelt Anchorage More Than 6.50" (y/n): N/A

Seatbelt Angle From Contact Point Between 30 and 75 degrees (y/n): Not measured

Seat Adjusted Rearward & Downward (y/n): N/A

Seat In Most Upright Position (y/n): y

Angle Of Pelvic Body Block Between 5 and 15 Degrees (y/n): y

Angle Of Torso Body Block Between 5 and 15 Degrees (y/n): y

Target Load Value Of Torso Block: 3000 lbs (outboard)

Target Load Value Of Pelvic Block: 3000 lbs (outboard) & 5000 lbs (inboard center)

Target Load Of CG Load (Individual/Both): 1200 lbs for riser, 1100 lbs. for seat

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Weight Of Full Stack: 115 lbs

Time To Reach All Target Loads: 16 seconds

Minimum Time Period Held (y/n): y

Is Seat & Adjacent Seats Required To Be Pulled Simultaneous (y/n): n

Was Test Pulled With Adjacent Seats If Required (y/n): n

Results Of Anchorage Strength Test (Pass/Fail): Pass

Additional Comments:

Test performed on solid bench.

Hardware:

Riser to Floor ~ 1/2-13 grade 5 Bolts

 $\sim \frac{1}{2}$ -13 lock nuts

~ 1/2" USS flat washers

2.5 x 5 backup washers

Seat frame to riser:

Rear mounting holes  $\sim 3/8-16$  grade 5 bolts

~ 3/8" USS flat washers

 $\sim 3/8-16$  pal nuts

Front mounting holes ~ 5/16-18 grade 5 bolts

~ 5/16-18 pal nuts

~ 5/15" USS flat washers

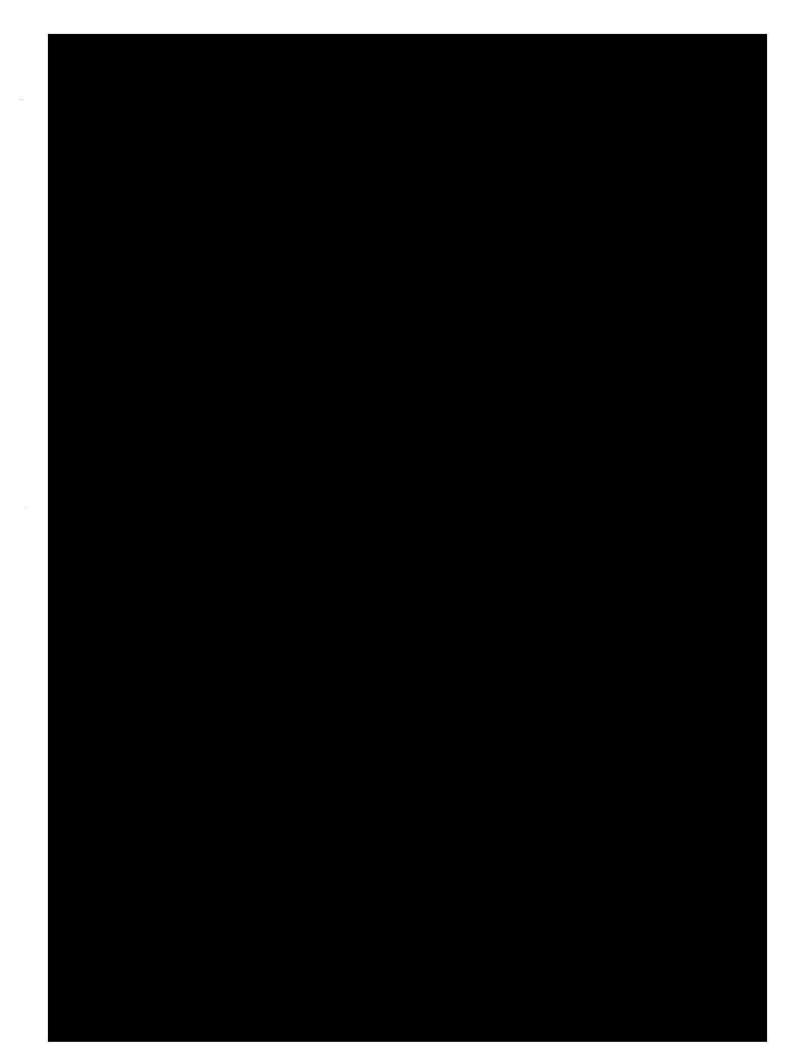
This test does not certify to all sections of FMVSS 207 and 210. This test shows that the product meets all strength requirements of anchorage when tested simultaneously per these sections.

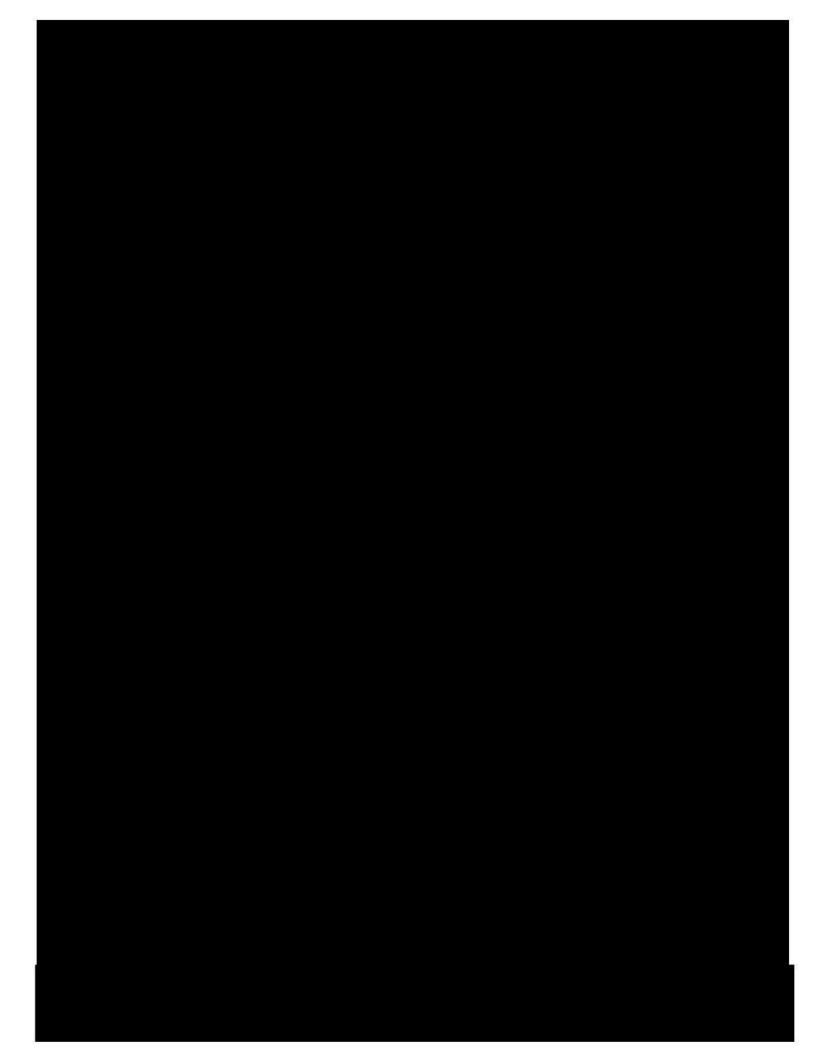
Test Approvals:

-1000

Test Technician:	Date:
Engineering Director: Brand Manager:	Date: 6/5/2012
5000	
4000	10:07:34, 4625 LBS
3000	10:07 4 , 3441 LBS  (6 ) :47, 3357 LBS
2000	10:07:35, 2298 LBS
1000	
10:07:19.099	10:07:28.317 10:07:28.208 10:07:28.680 10:07:28.680 10:07:38.582 10:07:38.333 10:07:38.234 10:07:38.233 10:07:38.234 10:07:38.687 10:07:38.688 10:07:38.683 10:07:38.683 10:07:48.333 10:07:48.311 10:07:48.602 10:07:48.602 10:07:48.602 10:07:48.602 10:07:48.602 10:07:48.603 10:07:48.603 10:07:48.603 10:07:48.603







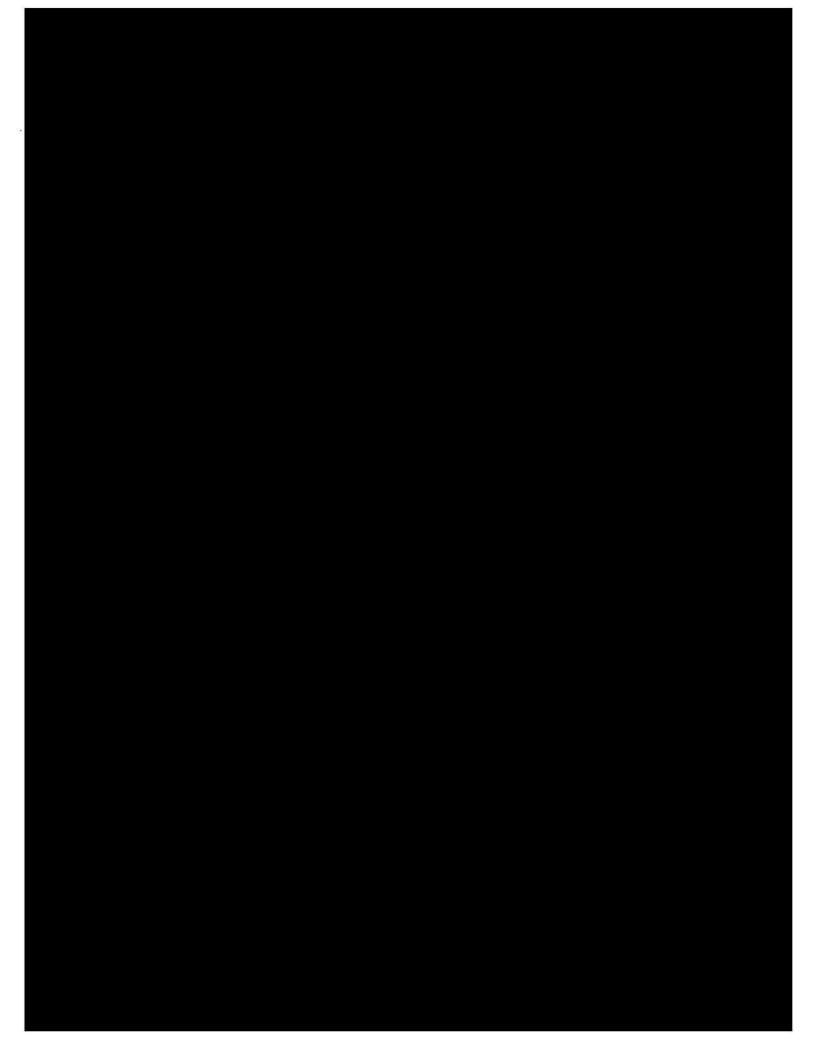


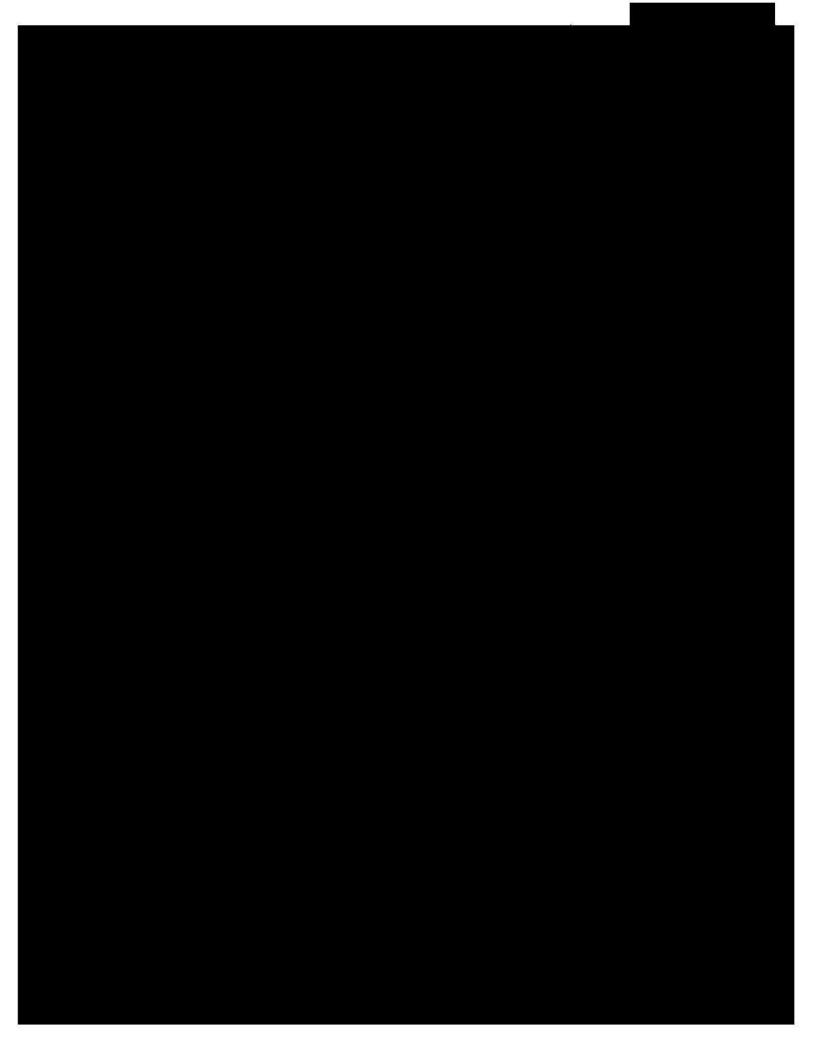


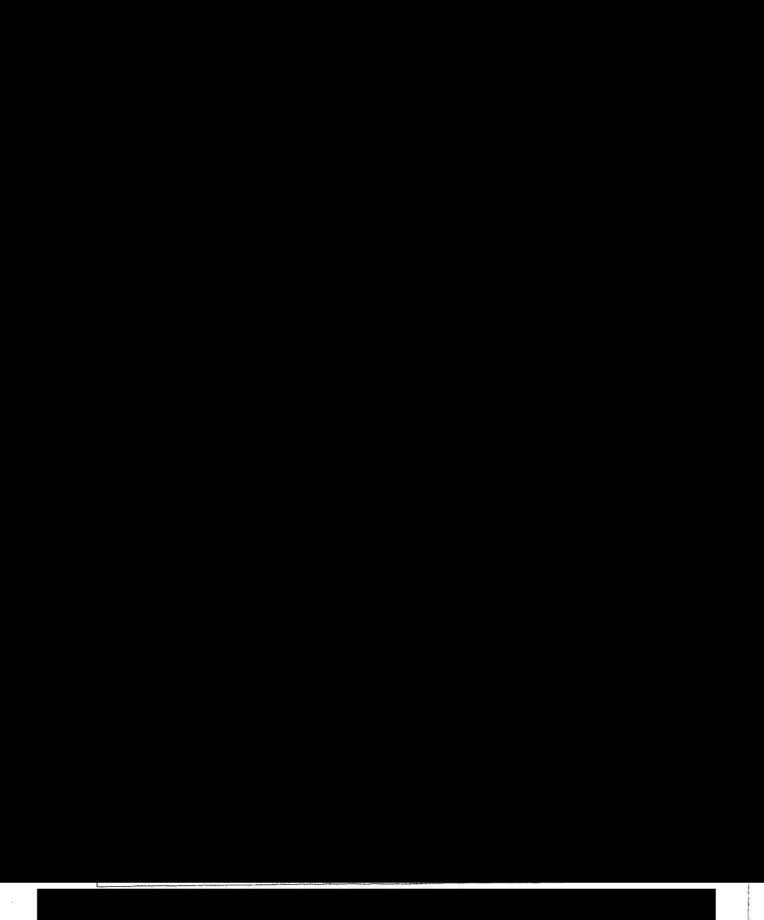


















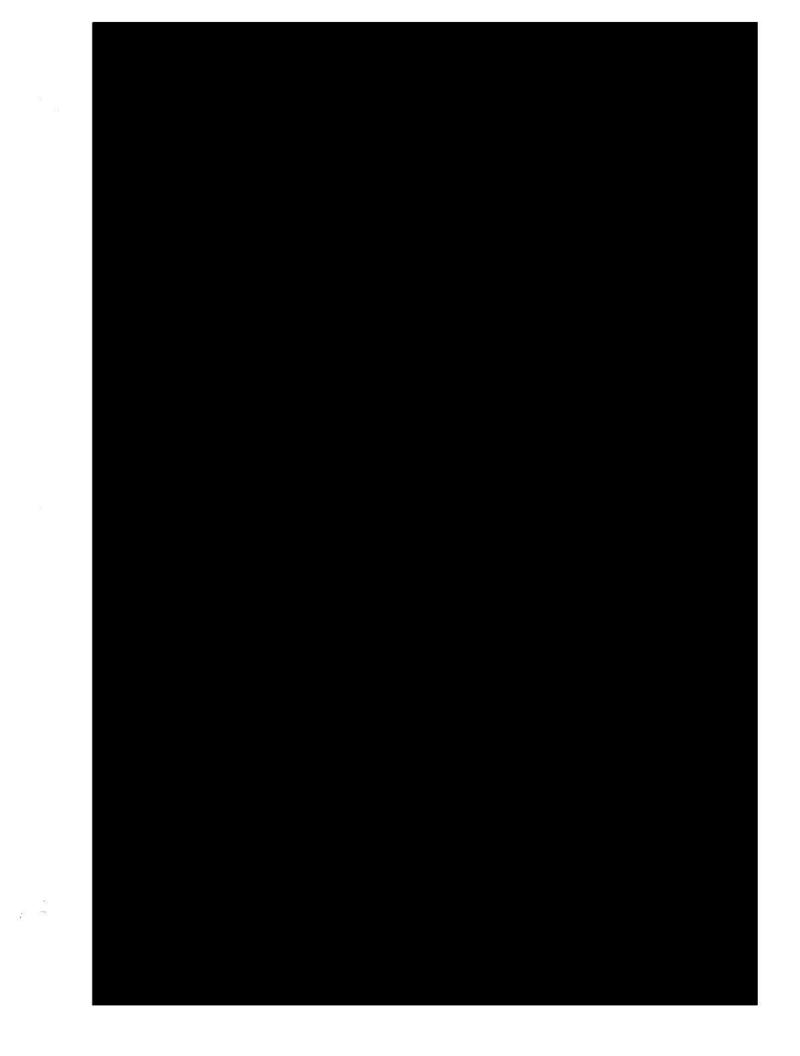








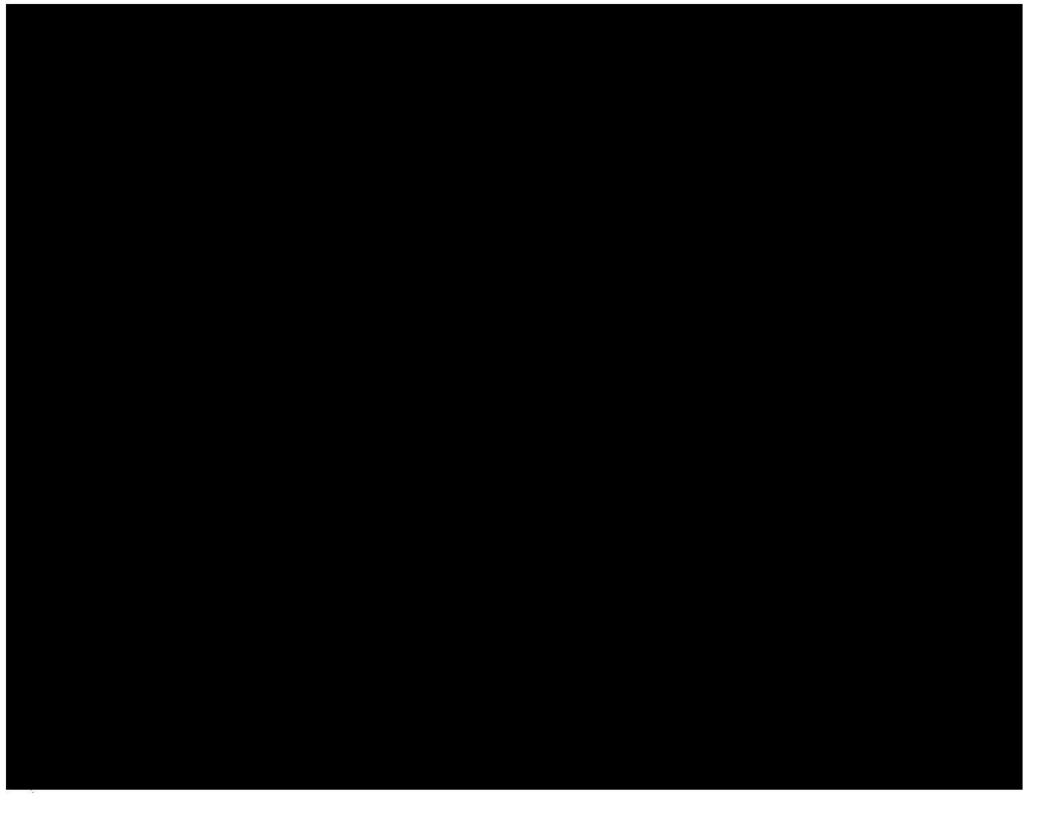




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