CRASH DATA RESEARCH CENTER

Calspan Corporation Buffalo, NY 14225

NOT-IN-TRAFFIC SURVEILLANCE CALSPAN REMOTE POWER WINDOW INVESTIGATION

SCI CASE NO.: CA07-016

VEHICLE: 1999 CHEVROLET MONTE CARLO

LOCATION: FLORIDA

DATE OF OCCURANCE: JANUARY 2006

Contract No. DTNH22-07-C-00043

Prepared for:

U.S. Department of Transportation National Highway Traffic Safety Administration Washington, D.C. 20590

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points are coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

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This remote investigation focused on the cause of death for a 23-month-old male front right passenger of a parked 1999 Chevrolet Monte Carlo. The 23-month-old male was fatally injured when his neck became captured between the power window and the door window frame of the Chevrolet.

16. Abstract

This remote investigation focused on the cause of death for a 23-month-old male front right passenger of a parked 1999 Chevrolet Monte Carlo. The 23-month-old male was fatally injured when his neck became captured between the power window and the door window frame of the Chevrolet. The police reported that the vehicle's engine was off at the time of the incident. In a statement to the police, the driver reported that the key was in the ignition and turned rearward activating the accessory mode. The driver of the vehicle stated to police investigators that he dropped off his daughter, girlfriend, and a family nurse at a pediatrician's office and then backed the Chevrolet into a parking space. Additionally, the driver reported that he had fallen asleep as he waited for the occupants to return. During this time, the 23-month-old male was playing in the front right position of the vehicle. While the driver was asleep, the 23-month-old male leaned his head out of the right front window. During this motion, he activated the switch for the window and the window began to roll-up capturing his neck and resulting in asphyxiation.

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TABLE OF CONTENTS

BACKGROUND	
SUMMARY	1
SITE OF INCIDENT	
VEHICLE DATA	
CHILD PASSENGER.	
INCIDENT	2
POLICE INSPECTION OF THE POWER WINDOWS	
EXEMPLAR VEHICLE INSPECTION	3
POWER WINDOW CLOSING FORCE TEST	4

NOT-IN-TRAFFIC SURVEILLANCE CALSPAN REMOTE POWER WINDOW INVESTIGATION SCI CASE NO.: CA07-016

VEHICLE: 1999 CHEVROLET MONTE CARLO LOCATION: FLORIDA

DATE OF OCCURANCE: JANUARY 2006

BACKGROUND

This remote investigation focused on the cause of death for a 23-month-old male front right passenger of a parked 1999 Chevrolet Monte Carlo. The 23-month-old male was fatally injured when his neck became captured between the power window and the door window frame of the Chevrolet. **Figure 1** is of an exemplar Chevrolet Monte Carlo. The police reported that the vehicle's engine was off at the time of the incident. In a statement to the police, the driver reported that the key was in the ignition and turned rearward activating the accessory mode.



Figure 1. Exemplar Chevrolet Monte Carlo.

rearward activating the accessory mode. The driver of the vehicle stated to police investigators that he dropped off his daughter, girlfriend, and a family nurse at a pediatrician's office and then backed the Chevrolet into a parking space. Additionally, the driver reported that he had fallen asleep as he waited for the occupants to return. During this time, the 23-month-old male was playing in the front right position of the vehicle. While the driver was asleep, the 23-month-old male leaned his head out of the right front window. During this motion, he activated the switch for the window and the window began to roll-up capturing his neck and resulting in asphyxiation.

NHTSA provided notification of this occurrence to the Calspan Special Crash Investigations (SCI) team on May 8, 2007. Due to the Agency's interest in Not-In-Traffic incidents, NHTSA assigned a remote-level investigation to the Calspan SCI team. The efforts for this remote investigation included obtaining the Police Incident Peport and an inspection of an exemplar vehicle to determine the power window operation and closure force. This event was documented by the investigating police agency using an Incident Report which is stored at the police department. Since this was not a traffic related crash, it was not reported to the state.

Summary

Site of Incident

This incident occurred during the afternoon hours of January 2006 in the state of Florida. The weather was reported as partly cloudy with scattered rain showers. The temperature ranged from a low of 24.4 degrees C (75.9 F) to a high of 29.0 degrees C (85.0 degrees F). This incident occurred in the parking lot of a local pediatrician's office.

Vehicle Data

The 1999 Chevrolet Monte Carlo was a two-door coupe that was equipped with power operated door windows and door locks. In addition to the front door glazing, the Monte Carlo was equipped with fixed second row and backlight glazing. The Chevrolet was equipped with rocker-type switches for the power windows that were mounted in a horizontal position on the forward aspect of the door panel. It was not known if the vehicle contained aftermarket tint film. The history and condition of the vehicle was unknown. The Vehicle Identification Number (VIN) was not reported by the investigating police agency.

Child Passenger

The front passenger at the time of the incident was a 23-month-old male. He was the son the driver. His reported height and weight were 86 cm (34") and 13 kgs (28 lbs). As a result of this incident, 23-year-old male sustained the following injuries:

Injury	Injury Severity AIS90/Update 98	Injury Source
Asphyxia induced cerebral edema with flat gyri and narrow sulci, NFS	Not coded under AIS	Power window
Red and blue superficial discoloration to the left side of the neck 2.5 x 0.5 cm (1" x 0.2")	Not coded under AIS	Power window

Source – Autopsy

Incident

The vehicle was initially occupied by a 25-year-old male driver, an adult female front right passenger (age unknown), the 23-month-old male, a female child passenger (age unknown), and a second adult female passenger (age unknown). The driver transported the passengers to the family pediatrician's office where the adult female passengers and the female child passenger exited the vehicle. The driver proceeded to back the vehicle into a designated parking space in the commercial parking lot. He reportedly positioned the ignition key rearward to the accessories mode and lowered the front windows halfway down and turned on the radio. The driver subsequently fell asleep. The 23-month-old male was in the front right seat during this time and began to play within the vehicle. While the driver was asleep, the 23-month-old male leaned his head out of the front right window. With his head positioned out of the vehicle, he inadvertently pressed and held the rocker-type power window switch and the window began to roll-up. The child's neck became captured between the window and the door window frame.

A passerby noticed the child's head protruding from the window as she was walking to her vehicle in the parking lot. She entered her vehicle and activated the horn in an attempt to gain the attention of the driver. She was unable to wake the driver and approached the Chevrolet and began to knock on the front right window and awoke the driver. The driver observed the child captured within the front right window and

powered the window down. He removed the child from the vehicle and carried him into the pediatrician's office. A doctor at the facility examined the child and began CPR efforts until emergency medical personnel arrived. The child was transported by ambulance to a local hospital where he pronounced deceased.

The investigating police officer attended the autopsy for the 23-month-old male. The medical examiner ruled the caused of death as asphyxia and the manner of death was accidental.

Police Inspection of the Power Windows

A police department mechanic conducted an inspection of the power window function. The inspection included testing the operation of the front right window from the driver's main control and the front right rocker switch. The test from the main driver's control consisted of lowering and raising the window six times. This test was conducted without failure. The same test was repeated using the front right switch which yielded the same results. The window tests were conducted with the ignition in the accessory and run positions. The police department mechanic noted that upon completing the test and inspection, he determined that the power windows functioned properly.

Exemplar Vehicle Inspection

An exemplar Chevrolet Monte Carlo was inspected for this remote investigation. The vehicle was equipped with power operated windows for the driver and right door similar to the subject vehicle. The rear side glazing was fixed. The windows operated depressing were by horizontally mounted rocker-type switch. Depressing the forward aspect of the switch raised the window; depressing the switch's rear aspect lowered the window. The main switch panel was located on the top forward aspect of the left door panel



Figure 2. Left front door and main switch panel.

(**Figure 2**). The left window was equipped with an Auto-down feature. Full depression to the rear aspect of the rocker switch was required to activate this feature. The Chevrolet was not equipped with a lock-out switch for the right window; this was also noted in the police incident report.



Figure 3. Overall view of the front right door.



Figure 4. Front right window rocker switch.

During the inspection of the exemplar vehicle, it was determined that the power windows could be operated with the ignition key turned rearward in the accessories mode. The windows could also be operated with the ignition switch turned forward to the run position.

The front right window was operated by a rocker switch that was horizontally mounted on the top of the door panel arm rest at the forward aspect. **Figure 3** is an overall view of the front right door. This window was not equipped with an Auto-Down feature. The rocker switch was flush mounted within a plastic trim face plate (**Figure 4**). The switch was located 81 cm (31.75") forward of the lower right corner of the glazing and 8 cm (3.25") below the bottom of the window frame. Additionally, the switch was located 34 cm (13.25") above the seat cushion.

The door glazing was AS2 tempered glass and was enclosed in a full door window frame. The maximum width of the glazing was 97 cm (38") with a maximum height of 50 cm (15.9").

Power Window Closing Force Test

The closing force test of the front right window was conducted on the exemplar Chevrolet Monte Carlo by the SCI team. The instrument used to conduct this test was an IMADA digital force gauge that was calibrated to 311 N (70 lbs) of force on 11/6/2006. The gauge consisted of a plunger with a duck-bill cut on the bottom. The test was conducted by placing the top aspect of the gauge against the top of the window frame and the plunger against the glazing (**Figure 5**).



Figure 3. Placement of the force gauge.

The test was conducted by raising the glazing against the force gauge with the vehicle ignition in the accessory position with the engine off (battery power) and with the vehicle engine on (maximum power). The window operating force was lower using solely battery power to open and close the window. With the engine off, the maximum force measured 211 N (47.4 lbs). The maximum closing force measured 238 N (53.4 lbs) with the engine on. **Figures 6 and 7** are of the force gauge readings.



Figure 6. Maximum force achieved with battery power.



Figure 7. Maximum force with the engine on.

SCENE FORM

Special Crash Investigations Not In Traffic Surveillance

Unknown = 999 Reference Items 11,12, 13, 14, 15

1 Casa Number	SCENE INFORMATION
Case Number	7. Type of area in which crash occurred
	(Select all that apply) O Single family residential
IDENTIFICATION	O Row houses/townhouses
	O Multi family housing O Commercial
2. Date of Crash //	O Industrial O Rural
	O Unknown
3. Time of Crash	Driver exterior sightline obstructions
Code reported military time of crash.	(Select all that apply)
NOTE: Midnight = 2400	O None O Utility poles
Unknown = 9999	O Other vehicles O Signs O Building O Glare
AMBIENT CONDITIONS	O Trees O Unknown O Shrubbery O No driver present
	O Other (specify)
4. Light Conditions	9. Crash location
O Daylight O Dark	O Driveway O Road / street
O Dark but lighted O Dawn	O Parking Lot O Roadside / shoulder
O Dusk	O Alley O Unknown
O Unknown	O Intersection of driveway and sidewalk
Atmospheric Conditions (Select all that apply)	10. Non motorist sightline obstructions (Select all that apply)
O Clear-No adverse conditions	O None
O Cloudy O Rain	O Other vehicles O Building
O Snow	O Trees
O Fog, Smog, SmokeO Sleet, Hail (freezing rain or drizzle)	O Shrubbery O Utility poles
O Blowing Snow O Severe Crosswinds	O Signs O Glare
O Blowing Sand, Soil, Dirt O Other (specify):	O Other (specify)
O Unknown	+/-
6. Temperature	11. Grade at parked position %
O Below 0 degrees Celsius (Below 32 F)	12. Estimated distance from parked position to impact
O 1-10 degrees Celsius (33-50 F) O >10-24 degrees Celsius (51-75 F)	m
O Over 24 degrees Celsius (Over 75 F) O Unknown	13. Estimated speed at impact kmph
Olimiowii	+/ - 14. Grade at impact %
	Estimated distance from impact to vehicle final rest
	m
	1

VEHICLE FORM

Special Crash Investigations Not In Traffic Surveillance

1. Case Number						
		VEHICLE IDEN	ITIFICATION			
2. VIN						
3. Model Ye	ear					
4. Vehicle N	Make (specify	y):			_	
5. Vehicle N	Model (specif	fy):		· · · · · · · · · · · · · · · · · · ·	_	
		GLAZ	ING			
Location	Presence (check)	Status (select)	Clarity (select)	Tint (check)	Glazing Obstructions (specify if present)	
Windshield		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
LF		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
RF		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
2 nd Left		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
2 nd Right		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
3 rd Left		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
3 rd Right		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
Backlight		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
Left Backlight		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
Right Backlight		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
Roof		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
Other (specify)		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown			
TIRE DATA						
6. Vehicle	Manufactu	urer Recommended Tire Size _				
7. LF Tire	Size	9.	RF Tire Size			
8. LR Tire Size 10. RR Tire Size						

Seat Position	Seat Type (Select from below)	Head Restraint (Check if available)	Head Restraint Adjustment (select)	NOTES:
Front Left			Full Down / Mid / Full Up	
Front Middle			Full Down / Mid / Full Up	
Front Right			Full Down / Mid / Full Up	
2 nd Left			Full Down / Mid / Full Up	
2 nd Middle			Full Down / Mid / Full Up	
2 nd Right			Full Down / Mid / Full Up	
3 rd Left			Full Down / Mid / Full Up	
3 rd Middle			Full Down / Mid / Full Up	
3 rd Right			Full Down / Mid / Full Up	

Seat Type codes:

0 = No seat or seat folded down

1 = Bucket

2 = Bucket w/ folding back

3 = Bench

4 = Bench with folding back cushions

5 = Bench w/ folding back

6 = Split bench w/ separate back cushions

7 = Split bench w/ separate folding back

8 = Pedestal (i.e. column supported)

9 = Box mounted (i.e. van type)

10= Other seat type (specify)

99= Unknown seat type

VEHICLE MEASUREMENTS					
Clearance Heights	Measurements (all from ground, and in centimeters	NOTES			
Beltline					
Top of trunk/tailgate					
Bottom of bumper					
Trailer hitch (if applicable)					
Undercarriage					
Sway bar					
Axle					
Differential					
Other (specify):					
Sensor Height (if equipped)					
Camera Height (if equipped)					

Rev September/2007

Back Up / Parking Aid Form

Special Crash Investigations Not In Traffic Surveillance

Case Number	Video image quality under scene lighting conditions
PARKING AID PRESENCE 2. Type of backing/parking aid present O OEM camera O OEM ultrasonic/radar sensor O OEM combination camera-ultrasonic/radar sensor O OEM Fresnel lens O OEM interior mirrors O Aftermarket camera O Aftermarket ultrasonic/radar sensor O Aftermarket combination camera-ultrasonic radar sensor O Aftermarket Fresnel lens O Aftermarket interior mirrors O Other (specify):	O None present O Good O Average O Poor (specify): O Unknown 8. Was the camera functioning properly O None present O Yes O No, poor image quality due to glare O No, poor image quality due to atmospheric conditions O No, camera turned off O No, camera inoperable O Unknown ULTRASONIC/RADAR SENSOR
CAMERA INFORMATION	Specify object detection range on diagram
Specify field of view measurements on diagram	9. System make/model
System make/model	Auditory warning illumination No sensor present Yes
4. Video monitor type	O No O Unknown
O None present O LCD (color) O CRT (black & white)	11. Number of sensors
O Unknown	12. Sensor locations (Select all that apply)
5. Video display size cm (Diagonal) 6. Camera location O None present O Bumper O License plate	O No sensor present O Left bumper O Center bumper O Right bumper O License plate area O Tailgate/Hatch/Trunk
O Tailgate/Hatch/Trunk O Other (specify):	 13. Was warning system functioning properly O No sensor present O Yes, system alerted driver O No, system did not alert driver O No, system turned off O No, system inoperable O Unknown

Spe	ecial Crash Investigations – Not In Traffic Surveill	ance:	Ва	ck Up	/ Park	ing Ai	d For	m	Pa	ige 2
14.	Did driver react to warning									
	O No sensor present O Yes O No O Unknown									
15.	Did driver report common false warnings									
	O No sensor present O Yes O No O Unknown									

Rev September/2007

DRIVER FORM

1. Case Number	10. Driver entry interruption (Select all that apply)
<u> </u>	O Direct trip from building to vehicle
DRIVER PROFILE	O Loaded items into vehicle O Spoke with family
2. Driver's Age 99 = Unknown	O Spoke with neighbors O Spoke with contacted nonmotorist
3. Driver's Sex O Male O Female O Unknown	O Return trip (backing into driveway/lot) O Other (specify): O N/A Unknown
4. Driver's Height cm 999 = Unknown	Purpose of backing Leaving parking space in parking lot
5. Driver's Weight kg 999 = Unknown	O Backing onto roadway from driveway O Entering parking space in parking lot O Backing into driveway from roadway
6. Driver eyewear worn (Select all that apply) O None O Eyeglasses O Sunglasses O Contacts	O Other (specify): O N/A Unknown 12. Where was driver going Description:
O Unknown 7. Driver vision deficiency condition	
(Select all that apply) O None O Near sighted	13. Driver in a hurry
O Far sighted O Astigmatism O Other (specify) O Unknown	O Yes N/A O No Unknown O Unknown
Non motorist's relationship to driver O No relationship O Child	14. How did driver check behind (rear area of vehicle) after vehicle entry (Select all that apply)
O Grandchild O Sibling	O Did not look O Checked mirrors
O Neighbor O Friend O Other (specify):	O Turned right and looked back O Turned left and looked back Viewed Camera
O Unknown DRIVER ACTIONS	Listened for auditory/visual warning from system
Driver approach to vehicle for entry From left front	O Other (specify): N/A Unknown
O From left O From left rear O From right rear O From right front O Circled vehicle	Estimated time between vehicle entry and start of backing
O Return trip (backing into driveway/lot) O Other (specify): O N/A O Unknown	O 0-10 Seconds O 11-30 Seconds O 31-60 Seconds Unknown

16.	What direction was the driver looking during backing maneuver	19.	Did driver see struck non motorist prior to impact (Select all that apply)
	(Select all that apply) O Straight ahead O Right O Left O Rearward		O No, never saw non motorist O Saw non motorist prior to entering vehicle O Saw non motorist after entering vehicle O Other (specify): Unknown
	O At object inside the car O At mirrors	20.	Est time between start of backing and impact
17.	O Other (specify):O N/A Unknown Was the driver distracted during back up maneuver (Select all that apply)		O <2 or = 1 second O 2-5 seconds O 6-10 seconds O > 10 seconds O N/A Unknown
	O No non-driving activities External		Driver interior sightline obstructions (Select all that apply)
	O Looking at other vehicles O Looking at other non motorist O Looking at intended turn destination O External focus, not specified		O Pillar O Other occupant O Headrest O Other (specify) O Cargo O Unknown None
	O Other external focus (specify): Internal	22.	Recent experience driving this vehicle
	 O Looking at other occupant O Talking to passenger O Dialing phone O Talking on phone O Listening to radio/cd/portable playback device O Adjusting radio/cd player O Adjusting climate controls O Using a device/controls integral to vehicle 	23.	O More than 10 times the last three months O 6-10 times the last three months O 2-5 times the last three months O Less than 2 times the last three months O First time driving this vehicle O N/A Unknown Frequency of driving in this parking lot/driveway
	(specify): O Reading/adjusting navigation system O Eating or drinking O Smoking related O Retrieving fallen object (specify): O Internal focus, not specified O Focused on other internal object		O Daily O Weekly O Several times a month O Monthly O Rarely O First time in lot/driveway O N/A Unknown
	(specify): O N/A Unknown	24.	Driver Impairment (Select all that apply)
18.	Driver avoidance actions prior to impact (Select all that apply) O None O Braking		O No drugs or alcohol present O Alcohol present (specify BAC): O Drugs present (specify): O Unknown
	O Steering left O Steering right	25.	Source of alcohol/drug results
	O Accelerating O Other (specify): O N/A Unknown		O Police reported O Medical record O Other (specify) O Not Tested

Non Motorist Form

Special Crash Investigations Not In Traffic Surveillance

1.	Case Number		11. Non-motorist motion
2		nths	 O Not moving O Walking slowly O Walking rapidly O Running or jogging O Skipping/Hopping/Jumping
	Non-motorist's Age 99 = Unknown Non-motorist's Sex O Male	ars	O Falling/Stumbling/Rising O On skates/skateboard O On bike/scooter
	O Female O Unknown		O Other (specify): O Unknown
4.	Non-motorist's Height cm 999 = Unknown		12. Non-motorist approach relative to rear of vehicleO Stationary
5.	Non-motorist's Weight kg 999 = Unknown kg		O From left O From right
6.	Medical outcome		O From behind O Other (specify): O Unknown
	O Not injured O ER only O Hospitalized 1-4 days		13. Non-motorist first avoidance action
	O Hospitalized 5 days or more O Treatment later O Fatal		O No avoidance actions O Stopped O Accelerated pace
7	O Unknown Source of most severe injury		O Ran away (along vehicle path) O Jumped O Turned away from vehicle
7.	Bumper O Tire O Undercarriage		O Turned toward vehicle and braced O Dove or fell away from vehicle O Other (specify):
	O Other Specify: O Ground O N/A		O Unknown 14. Non-motorist primary focus of attention
8.	Unknown Non-motorist impairment (Select all that apply)		O Striking vehicle O Play object
	O No drugs or alcohol present O Positive for alcohol (specify BAC): O Positive for drugs (specify):		O Person O Surrounding traffic O Animal
9.	O Unknown Source of alcohol/drug results		O Handheld electronic (phone, MP3 player, etc.) O Other Object (specify) O Unknown
	Police reported Medical Report O Other (specify)		15. Were any other Non-motorists present? (Select all that apply)
	O Not Tested O Unknown if tested		O Alone O One adult present
	NON-MOTORIST ACTIONS		O One other child present O Multiple adults present
10	Non-motorist attitude		O Multiple addits present O Multiple children present O Unknown
	O Standing O On skates/skateboard O Bending at waist O On bike/scooter O Sitting O Other (specify) O Crouching O Unknown O Kneeling		

NON MOTORIST CLOTHING

NOTES:

- Specify Color, Fabric and Texture/Weight for outermost layer only
- Indicate "NONE" if applicable
- Available codes:

Colo	<u>rs</u>	<u>Fabrics</u>	<u>Textures</u>	<u>Weights</u>
Black	Charcoal gray	Natural	Soft	Heavy
Lt gray/silver	Brown	Synthetic	Slick	Medium
Gold/tan	Purple	Blend	Coarse	Light
Dark blue	Light blue			_
Dark green	Light green			
Maroon	Red			
Orange	Yellow			

White Other (specify)

Clothing	Color	Fabric	Texture	Weight					
Hat									
Helmet									
Hood									
Other (specify):									
Short Sleeve									
Long Sleeve									
Light Jacket									
Heavy Jacket									
Other (Specify):									
Shorts									
Pants									
Shoes									
Other (specify):									
	Helmet Hood Other (specify): Short Sleeve Long Sleeve Light Jacket Heavy Jacket Other (Specify): Shorts Pants Shoes	Hat Helmet Hood Other (specify): Short Sleeve Long Sleeve Light Jacket Heavy Jacket Other (Specify): Shorts Pants Shoes	Hat Helmet Hood Other (specify): Short Sleeve Long Sleeve Light Jacket Heavy Jacket Other (Specify): Shorts Pants Shoes	Hat Helmet Hood Other (specify): Short Sleeve Long Sleeve Light Jacket Heavy Jacket Other (Specify): Shorts Sleeve					