

CRASH DATA RESEARCH CENTER

Calspan Corporation
Buffalo, NY 14225

NOT-IN-TRAFFIC SURVEILLANCE

CALSPAN ON-SITE FRONT OVER INVESTIGATION

SCI CASE NO: CA09027

VEHICLE: 2008 LEXUS RX350

LOCATION: NEW YORK

INCIDENT DATE: APRIL 2009

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.

TECHNICAL REPORT STANDARD TITLE PAGE

1. Report No. CA09027		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle Not-In-Traffic Surveillance Calspan On-Site Front Over Incident Investigation Vehicle: 2008 Lexus RX 350 Location: State of New York			5. Report Date: September 2009		
			6. Performing Organization Code		
7. Author(s) Crash Data Research Center			8. Performing Organization Report No.		
9. Performing Organization Name and Address Crash Data Research Center Calspan Corporation P.O. Box 400 Buffalo, New York 14225			10. Work Unit No.		
			11. Contract or Grant No.		
12. Sponsoring Agency Name and Address U.S. Department of Transportation National Highway Traffic Safety Administration Washington, D.C. 20590			13. Type of Report and Period Covered Incident Date: April 2009		
			14. Sponsoring Agency Code		
15. Supplementary Note This on-site investigation focused on the circumstances surrounding the death of a 2-year-old male struck and fatally injured during a front over incident in the driveway of his home.					
16. Abstract This on-site investigation focused on the circumstances surrounding the death of a 2-year-old male struck and fatally injured during a front over incident in the driveway of his home. The child was struck by the front of a 2008 Lexus RX350 driven by his mother. The child was in the care of his grandmother at the time of the incident. As the mother approached the residence, she remotely opened the garage door with the in-vehicle transmitter. The child, apparently hearing the garage door opening, exited the house into the attached garage. The child emerged from the garage, unknown to the driver, directly into the path of the Lexus. The left frontal area of the Lexus struck and ran over the child. The child sustained a fatal head injury and was pronounced deceased upon arrival at the hospital. The Lexus was towed from the scene and impounded by the police as part of their investigation.					
17. Key Words Not-In-Traffic Surveillance Front Over			18. Distribution Statement General Public		
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of Pages 16	22. Price		

TABLE OF CONTENTS

BACKGROUND 1
SUMMARY 1
VEHICLE DATA 1
INCIDENT SITE 2
DRIVER DATA 2
NON-MOTORIST DATA 2
INCIDENT SEQUENCE 2
PRE-INCIDENT 2
INCIDENT 3
POST-INCIDENT 3
VEHICLE CONTACT DAMAGE/EVIDENCE 3
FRONT VISIBILITY 3

**NOT-IN-TRAFFIC SURVEILLANCE
CALSPAN ON-SITE FRONT OVER INVESTIGATION
SCI CASE NO: CA09027
VEHICLE: 2008 LEXUS RX350
LOCATION: NEW YORK
INCIDENT DATE: APRIL 2009**

BACKGROUND

This on-site investigation focused on the circumstances surrounding the death of a 2-year-old male struck and fatally injured during a front over incident in the driveway of his home. The child was struck by the front of a 2008 Lexus RX350, **Figure 1**, driven by his mother. The child was in the care of his grandmother at the time of the incident. As the mother approached the residence, she remotely opened the garage door with the in-vehicle transmitter. The child, apparently hearing the garage door opening, exited the house into the attached garage. The child emerged from the garage, unknown to the driver, directly into the path of the Lexus. The left frontal area of the Lexus struck and ran over the child. The child sustained a fatal head injury and was pronounced deceased upon arrival at the hospital. The Lexus was towed from the scene and impounded by the police as part of their investigation.



Figure 1: Front left oblique view of the Lexus RX350.

This April 2009 incident was identified by the Calspan Special Crash Investigations (SCI) team through local news coverage and was forwarded to the Crash Investigation Division (CID) of the National Highway Traffic Safety Administration (NHTSA) on May 1, 2009. The CID assigned an investigation of the incident the same day due to the Agency's interest in Not-In-Traffic incidents. The efforts for this investigation encompassed an interview with the police investigator, an inspection of the Lexus and incident site, and documentation of the front visibility of the Lexus RX350. The driver of the Lexus declined to participate in the investigation.

SUMMARY

Vehicle Data

The 2008 Lexus RX350 was identified by the Vehicle Identification Number: 2T2HK31U18C (production sequence deleted). The power train consisted of a 3.4-liter, V6 engine linked to a five-speed automatic transmission. The tires were Michelin MXV4 P235/55R18 mounted on OEM alloy wheels and were the proper size recommended by the vehicle manufacturer. The window glazing consisted of an AS1 laminated windshield, AS2 first row glazing, and AS3 second row, rear and backlight glazing. There were no visual obstructions and the glazing clarity was clear. The open/closed status of the windows, at the time of the incident, was unknown. The vehicle was configured for five-passenger seating. The front bucket seats were equipped with adjustable head restraints each adjusted to the full-down position. The second row consisted of a split-bench seat with adjustable head restraints. The second row head restraints

were in the full-down position. The vertical clearance heights for various components measured from the ground are listed in the following table:

Component	Clearance Height
Beltline	114 cm (45.0 in)
Height of the hood face	99 cm (39.0 in)
Top of front bumper	70 cm (27.5 in)
Bottom of front bumper	48 cm (19.0 in)
Valence below bumper	36 cm (14.0 in)
Suspension control arm	22 cm (8.5 in)
Cross member	20 cm (8.0 in)

Incident Site

The incident occurred during the daytime hours of April 2009 in the driveway of a private residence. At the time of the incident, the weather conditions were clear and dry. The single-family dwelling was located on the west side of a two-lane north/south road. An asphalt driveway was located to the right of the two-story house and the attached side-loading garage. The garage doors faced north, perpendicular to the east/west driveway. **Figure 2** is a westward view along the driveway.



Figure 2: West view along the driveway

Driver Data

The driver of the Lexus was a 29-year-old female, the mother of the non-motorist. Her demographic data is unknown.

Non-Motorist Data

The non-motorist was a 2-year-old male. The police investigator reported that the autopsy record indicated that his height was 94 cm (37 in). His weight was unknown. The child sustained a fatal head injury as a result of the incident.

Incident Sequence

Pre-Incident

A schematic of the incident is attached to the end of this narrative report as **Figure 8**. Prior to the incident, the driver was conducting errands. The non-motorist was in the home under the supervision of his grandmother. When the driver returned and was approaching the garage, the driver activated the motorized garage door with the remote control located in the vehicle. The police investigator reported that the non-motorist heard the garage door opening, exited the home through an entry door and entered the garage. The driver was operating the Lexus westward along the driveway and initiated a left turn to enter the garage. She was unaware of the non-motorist's presence.

Incident

As the child emerged from the garage, the front left area of the vehicle struck and knocked the non-motorist to the ground. The vehicle continued forward and the left front tire ran over the child. The driver stated to the investigating police officer that she believed the vehicle had run over a toy. She stopped, placed the Lexus in reverse and began a backing maneuver. She subsequently ran over the non-motorist a second time with the front left tire.

Post-Incident

The driver exited the vehicle and observed the non-motorist under the vehicle. Police and emergency medical personnel were summoned to the incident site. A neighbor, who was a physician, responded to the incident and began treating the child. The incident site was located in a new development which resulted in the delayed arrival of the police and emergency medical personnel. The emergency medical personnel placed the child in an ambulance and transported him to a local hospital where he was pronounced deceased of a head injury four minutes after arrival.

Vehicle Contact Damage/Evidence

The SCI team inspected the Lexus during its storage in the police impound. There was no physical evidence of its contact with the non-motorist on the vehicle's bumper, tire or undercarriage components.

Front Visibility

The front visibility of the vehicle was measured of a level surface using a substitute driver. The substitute driver had a seated eye height of 137 cm (54 in). The driver's eye height is unknown. Five 71 cm (28 in) tall red reflective targets were used to identify the location of the front blind zone around the vehicle. The targets were located outboard the left mirror, at the front left, the forward centerline, the front right, and outboard right mirror. The locations of the targets were adjusted outboard the vehicle, along the substitute driver's sight line, to a point where the driver indicated that he could first identify the target. The driver was asked to remain seated in a normal driving position. The target locations were then measured with respect to the vehicle. **Figure 3** is a driver view through the windshield to the centerline target. The longitudinal distance from the front bumper fascia to the centerline target in the figure measured 142 cm (56 in). **Figures 4 - 6** are exterior views depicting the locations of the forward blind zone targets around the Lexus. **Figure 7** attached to the end of this report is a scaled overhead visibility schematic depicting the blind zone forward of the vehicle. Cooperation with the driver could not be obtained. Details of the regarding the garage lighting and layout were not obtained.



Figure 3: Driver interior view to the forward centerline target.



Figure 4: Front left oblique view of the Lexus and front visibility targets.



Figure 5: Front right oblique view of the Lexus and front visibility targets.



Figure 6: Right view of the Lexus and the target locations.

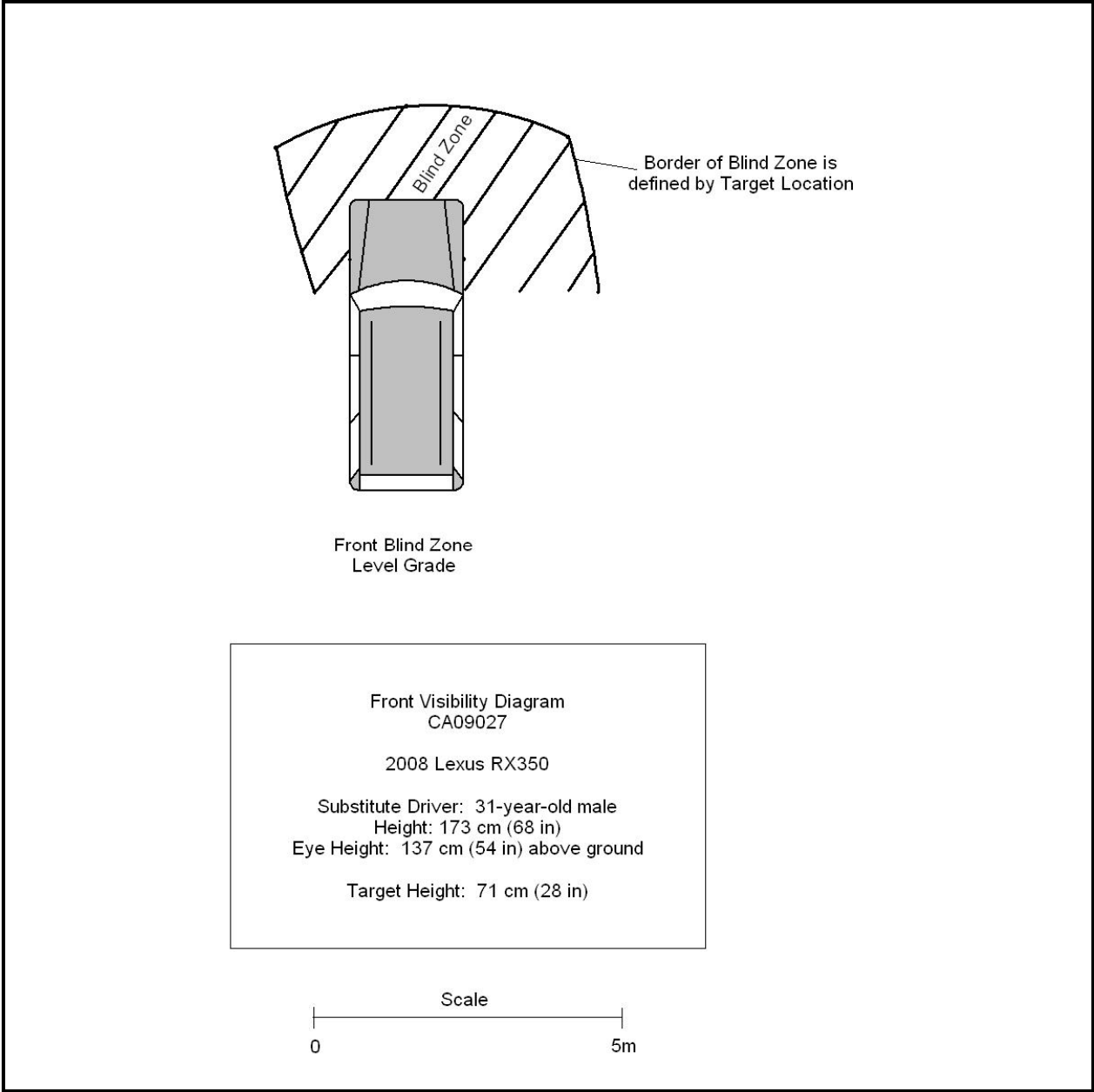


Figure 7: Front visibility diagram.

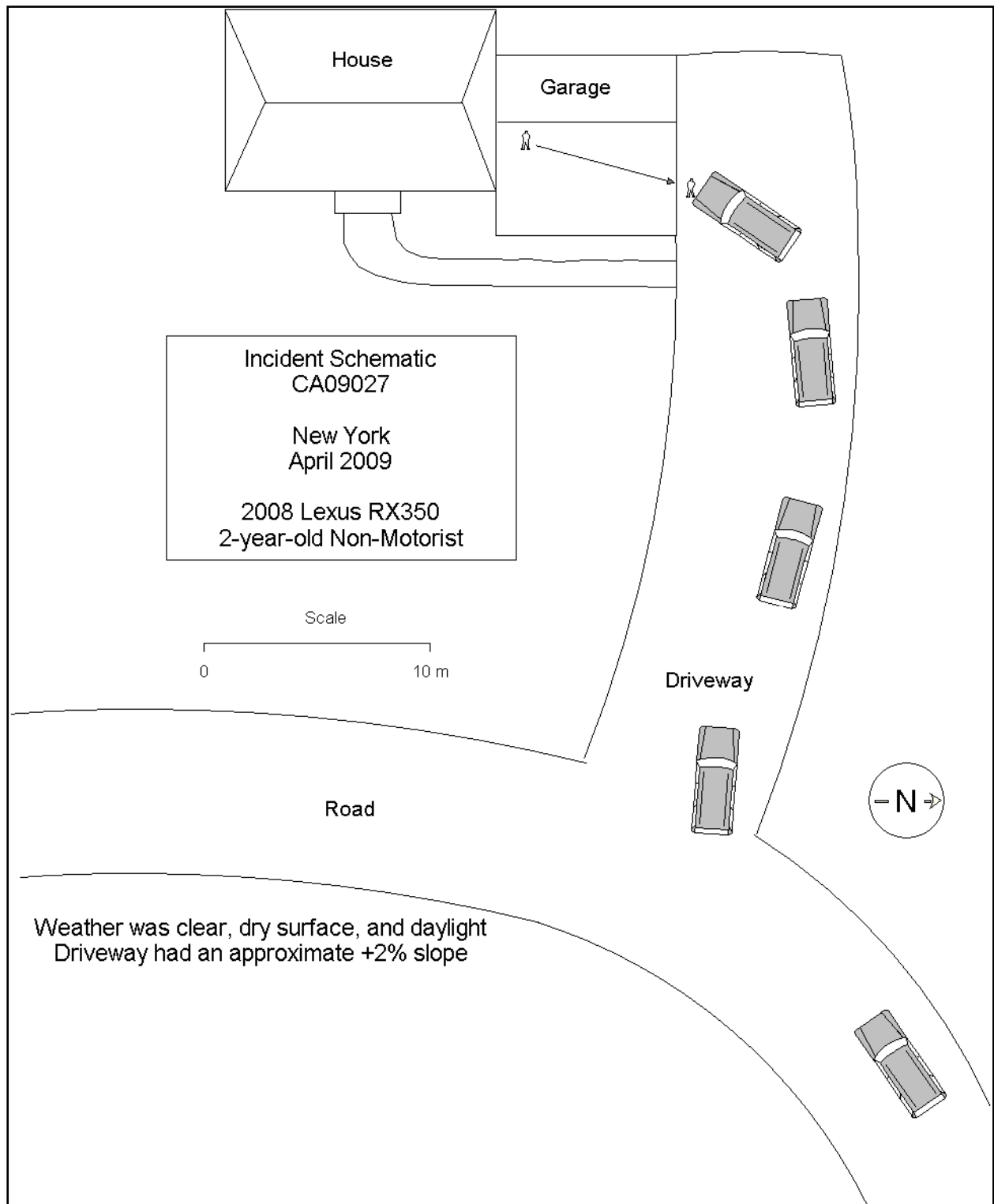


Figure 8: Incident Schematic

ATTACHMENT A

Not-In-Traffic Surveillance Forms



1. Case Number

IDENTIFICATION

2. Date of Crash ____ / ____ / ____

3. Time of Crash _____

Code reported military time of crash.

NOTE: Midnight = 2400
Unknown = 9999

AMBIENT CONDITIONS

4. Light Conditions

- Daylight
- Dark
- Dark but lighted
- Dawn
- Dusk
- Unknown

5. Atmospheric Conditions
(Select all that apply)

- Clear-No adverse conditions
- Cloudy
- Rain
- Snow
- Fog, Smog, Smoke
- Sleet, Hail (freezing rain or drizzle)
- Blowing Snow
- Severe Crosswinds
- Blowing Sand, Soil, Dirt
- Other (specify):
- Unknown

6. Temperature

- Below 0 degrees Celsius (Below 32 F)
- 1-10 degrees Celsius (33-50 F)
- >10-24 degrees Celsius (51-75 F)
- Over 24 degrees Celsius (Over 75 F)
- Unknown

SCENE INFORMATION

7. Type of area in which crash occurred
(Select all that apply)

- Single family residential
- Row houses/townhouses
- Multi family housing
- Commercial
- Industrial
- Rural
- Unknown

8. Driver exterior sightline obstructions
(Select all that apply)

- None
- Other vehicles
- Building
- Trees
- Shrubby
- Other (specify) _____
- Utility poles
- Signs
- Glare
- Unknown
- No driver present

9. Crash location

- Driveway
- Parking Lot
- Sidewalk
- Alley
- Intersection of driveway and sidewalk
- Road / street
- Roadside / shoulder
- Other (specify) _____
- Unknown

10. Non motorist sightline obstructions
(Select all that apply)

- None
- Other vehicles
- Building
- Trees
- Shrubby
- Utility poles
- Signs
- Glare
- Other (specify) _____
- Unknown

11. Grade at parked position +/- _____ %

12. Estimated distance from parked position to impact

_____ m

13. Estimated speed at impact +/- _____ kmph

14. Grade at impact +/- _____ %

15. Estimated distance from impact to vehicle final rest

_____ m

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



VEHICLE FORM

1. Case Number _____

VEHICLE IDENTIFICATION

2. VIN _____

3. Model Year _____

4. Vehicle Make (specify): _____

5. Vehicle Model (specify): _____

GLAZING

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	Clear / Hazy / Very Dirty		
RF		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
2 nd Left		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
2 nd Right		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
3 rd Left		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
3 rd Right		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
Backlight		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
Left Backlight		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
Right Backlight		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
Roof		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
Other (specify)		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		

TIRE DATA

6. Vehicle Manufacturer Recommended Tire Size _____

7. LF Tire Size _____

9. RF Tire Size _____

8. LR Tire Size _____

10. RR Tire Size _____

Seats / Head Restraint Data

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 | 8 = Pedestal (i.e. column supported) |
| 1 = Bucket | 9 = Box mounted (i.e. van type) |
| 2 = Bucket w/ folding back | 10= Other seat type (specify) |
| 3 = Bench | 99= Unknown seat type |
| 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 | |

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)		



1. Case Number

PARKING AID PRESENCE

2. Type of backing/parking aid present

- OEM camera
- OEM ultrasonic/radar sensor
- OEM combination camera-ultrasonic/radar sensor
- OEM Fresnel lens
- OEM interior mirrors
- Aftermarket camera
- Aftermarket ultrasonic/radar sensor
- Aftermarket combination camera-ultrasonic radar sensor
- Aftermarket Fresnel lens
- Aftermarket interior mirrors
- Other (specify): _____

CAMERA INFORMATION

Specify field of view measurements on diagram

3. System make/model

4. Video monitor type

- None present
- LCD (color)
- CRT (black & white)
- Unknown

5. Video display size _____ cm
(Diagonal)

6. Camera location

- None present
- Bumper
- License plate
- Tailgate/Hatch/Trunk
- Other (specify): _____

7. Video image quality under scene lighting conditions

- None present
- Good
- Average
- Poor (specify): _____
- Unknown

8. Was the camera functioning properly

- None present
- Yes
- No, poor image quality due to glare
- No, poor image quality due to atmospheric conditions
- No, camera turned off
- No, camera inoperable
- Unknown

ULTRASONIC/RADAR SENSOR

Specify object detection range on diagram

9. System make/model

10. Auditory warning illumination

- No sensor present
- Yes
- No
- Unknown

11. Number of sensors _____

12. Sensor locations
(Select all that apply)

- No sensor present
- Left bumper
- Center bumper
- Right bumper
- License plate area
- Tailgate/Hatch/Trunk

13. Was warning system functioning properly

- No sensor present
- Yes, system alerted driver
- No, system did not alert driver
- No, system turned off
- No, system inoperable
- Unknown

14. Did driver react to warning

- No sensor present
- Yes
- No
- Unknown

15. Did driver report common false warnings

- No sensor present
- Yes
- No
- Unknown



DRIVER FORM

1. Case Number

DRIVER PROFILE

2. Driver's Age _____
99 = Unknown

3. Driver's Sex Male
 Female
 Unknown

4. Driver's Height _____ cm
999 = Unknown

5. Driver's Weight _____ kg
999 = Unknown

6. Driver eyewear worn
(Select all that apply)
 None
 Eyeglasses
 Sunglasses
 Contacts
 Unknown

7. Driver vision deficiency condition
(Select all that apply)
 None
 Near sighted
 Far sighted
 Astigmatism
 Other (specify): _____
 Unknown

8. Non motorist's relationship to driver
 No relationship
 Child
 Grandchild
 Sibling
 Neighbor
 Friend
 Other (specify): _____
 Unknown

DRIVER ACTIONS

9. Driver approach to vehicle for entry
From left front
 From left
 From left rear
 From right rear
 From right front
 Circled vehicle
 Return trip (backing into driveway/lot)
 Other (specify): _____
 N/A
 Unknown

10. Driver entry interruption
(Select all that apply)
 Direct trip from building to vehicle
 Loaded items into vehicle
 Spoke with family
 Spoke with neighbors
 Spoke with contacted nonmotorist
 Return trip (backing into driveway/lot)
 Other (specify): _____
 N/A
Unknown

11. Purpose of backing
 Leaving parking space in parking lot
 Backing onto roadway from driveway
 Entering parking space in parking lot
 Backing into driveway from roadway
 Other (specify): _____
 N/A
Unknown

12. Where was driver going
Description:

13. Driver in a hurry
 Yes N/A
 No Unknown
 Unknown

14. How did driver check behind (rear area of vehicle) after vehicle entry
(Select all that apply)
 Did not look
 Checked mirrors
 Turned right and looked back
 Turned left and looked back
 Viewed Camera
 Listened for auditory/visual warning from system
 Other (specify): _____
N/A Unknown

15. Estimated time between vehicle entry and start of backing
 0-10 Seconds Over 60 Seconds
 11-30 Seconds N/A
 31-60 Seconds Unknown

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



Non Motorist Form

1. Case Number

NON-MOTORIST PROFILE

2. Non-motorist's Age _____ Months
_____ Years
99 = Unknown

3. Non-motorist's Sex
 Male
 Female
 Unknown

4. Non-motorist's Height _____ cm
999 = Unknown

5. Non-motorist's Weight _____ kg
999 = Unknown

6. Medical outcome
 Not injured
 ER only
 Hospitalized 1-4 days
 Hospitalized 5 days or more
 Treatment later
 Fatal
 Unknown

7. Source of most severe injury
 Bumper
 Tire
 Undercarriage
 Other Specify: _____
 Ground
 N/A
 Unknown

8. Non-motorist impairment
(Select all that apply)
 No drugs or alcohol present
 Positive for alcohol (specify BAC): _____
 Positive for drugs (specify): _____
 Unknown

9. Source of alcohol/drug results
 Police reported
 Medical Report
 Other (specify) _____
 Not Tested
 Unknown if tested

NON-MOTORIST ACTIONS

10. Non-motorist attitude
 Standing
 Bending at waist
 Sitting
 Crouching
 Kneeling
 On skates/skateboard
 On bike/scooter
 Other (specify) _____
 Unknown

11. Non-motorist motion
 Not moving
 Walking slowly
 Walking rapidly
 Running or jogging
 Skipping/Hopping/Jumping
 Falling/Stumbling/Rising
 On skates/skateboard
 On bike/scooter
 Other (specify): _____
 Unknown

12. Non-motorist approach relative to rear of vehicle
 Stationary
 From left
 From right
 From behind
 Other (specify): _____
 Unknown

13. Non-motorist first avoidance action
 No avoidance actions
 Stopped
 Accelerated pace
 Ran away (along vehicle path)
 Jumped
 Turned away from vehicle
 Turned toward vehicle and braced
 Dove or fell away from vehicle
 Other (specify): _____
 Unknown

14. Non-motorist primary focus of attention
 Striking vehicle
 Play object
 Person
 Surrounding traffic
 Animal
 Handheld electronic (phone, MP3 player, etc.)
 Other Object (specify) _____
 Unknown

15. Were any other Non-motorists present?
(Select all that apply)
 Alone
 One adult present
 One other child present
 Multiple adults present
 Multiple children present
 Unknown

NON MOTORIST CLOTHING

NOTES:

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

	<u>Colors</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
H E A D W E A R	Hat				
	Helmet				
	Hood				
	Other (specify): _____				
U P P E R B O D Y	Short Sleeve				
	Long Sleeve				
	Light Jacket				
	Heavy Jacket				
	Other (Specify): _____				
L O W E R B O D Y	Shorts				
	Pants				
	Shoes				
	Other (specify): _____				