

CRASH DATA RESEARCH CENTER

Calspan Corporation
Buffalo, NY 14225

CALSPAN REMOTE HYPERTHERMIA DEATH INVESTIGATION

NOT-IN-TRAFFIC SURVEILLANCE

SCI CASE NO.: CA08026

VEHICLE: 2000 FORD EXPLORER XLT

LOCATION: PENNSYLVANIA

INCIDENT DATE: JUNE 2008

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

<i>1. Report No.</i> CA08026	<i>2. Government Accession No.</i>	<i>3. Recipient's Catalog No.</i>	
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		<i>6. Performing Organization Code</i>	
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<i>15. Supplementary Note</i> An investigation of a hyperthermia death involving a 14-month-old male non-motorist that was left unattended in a parked 2000 Ford Explorer.			
<i>16. Abstract</i> <p>This remote investigation focused on the hyperthermia death of a 14-month-old male non-motorist that was left unattended in a parked 2000 Ford Explorer for an extended period of time during daylight summer hours. The non-motorist was restrained in a forward-facing Child Restraint System (CRS) in the left position of the back seat of the Ford for a five hour period. He was discovered by the 59-year-old male driver as he returned to the vehicle following a work shift. The non-motorist maintained shallow breathing and was removed from the CRS by the driver and carried into an air-conditioned building. The emergency response system was notified of the incident and police and ambulance personnel responded to the scene of the incident. The non-motorist was transported to a local hospital and was then transferred to a regional pediatric trauma center where he was admitted for treatment. The non-motorist was placed on life support and evaluated for recovery. He was diagnosed with brain death and expired four days following the incident. The driver was the grandfather to the non-motorist. He was subsequently charged with involuntary manslaughter. The Police Agency investigated this incident as a crime and compiled a Crime Report for this death. This report will not be provided to State and Federal crash databases.</p>			
<i>17. Key Words</i> Hyperthermia Non-motorist Child Restraint System Unattended		<i>18. Distribution Statement</i> General Public	
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TABLE OF CONTENTS

BACKGROUND	1
SUMMARY	2
Incident Site	2
Vehicle	2
Driver	3
Non-Motorist.....	3
Incident Sequence	4
Pre-Incident.....	4
Incident	4
Post-Incident	4
Figure 6: Incident Schematic	6
Attachment A	7

NOT-IN-TRAFFIC SURVEILLANCE
CALSPAN REMOTE HYPERTHERMIA DEATH INVESTIGATION
SCI CASE NO.: CA08026
VEHICLE: 2000 FORD EXPLORER XLT
LOCATION: PENNSYLVANIA
INCIDENT DATE: JUNE 2008

BACKGROUND

This remote investigation focused on the hyperthermia death of a 14-month-old male non-motorist that was left unattended in a parked 2000 Ford Explorer for an extended period of time during daylight summer hours. The non-motorist was restrained in a forward-facing Child Restraint System (CRS) in the left position of the back seat of the Ford for a five hour period. He was discovered by the 59-year-old male driver as he returned to the vehicle following a work shift. The non-motorist maintained shallow breathing and was removed from the CRS by the driver and carried into an air-conditioned building. The emergency response system was notified of the incident and police and ambulance personnel responded to the scene of the incident. The non-motorist was transported to a local hospital and was then transferred to a regional pediatric trauma center where he was admitted for treatment. The non-motorist was placed on life support and evaluated for recovery. He was diagnosed with brain death and expired four days following the incident. The driver was the grandfather to the non-motorist. He was subsequently charged with involuntary manslaughter. The Police Agency investigated this incident as a crime and compiled a Crime Report for this death. This report will not be provided to State and Federal crash databases. **Figure 1** is a left side view of an exemplar 2000 Ford Explorer.



Figure 1. Left side view of an exemplar 2000 Ford Explorer.

This hyperthermia death was identified by the National Highway Traffic Safety Administration (NHTSA) through an Internet news search of potential cases of interest to the Special Crash Investigations (SCI) Program. The notification was forwarded to the Calspan SCI team on June 25, 2008 for remote follow-up. The team placed a telephone call to the investigating Police Detective on June 27 and received a callback on July 2, 2008. Details of the incident were provided by the investigating Detective. Official documents and images of the vehicle could not be provided until the criminal case was settled. The Detective notified the SCI team following the outcome of the criminal case that due to a computer malfunction, all images relating to this incident were lost.

Attempts to obtain images through computer recovery efforts and other sources were unsuccessful.

SUMMARY

Incident Site

This incident occurred in a commercial parking lot during daylight hours. The parking lot was surfaced with asphalt and delineated with parking spaces and driving isles. Small trees were located within curbed islands at the ends of the parking rows. These trees did not shade the Ford as the investigating detective stated the vehicle was parked in full sun for the duration of this incident. The parking lot was level with spaces oriented in northeast and southwesterly directions. The Ford was parked at a perimeter location of the parking lot facing in a police reported north/northwesterly direction. Local weather forecasters indicated the weather conditions on the day of the incident were clear, but hazy, with temperatures ranging from (81 degrees F) at the time the driver arrived at the incident site to (96.8 degrees F) when he returned to the vehicle at the end of his work shift. The humidity levels were 77 percent at the time the Ford was parked and 37 percent at the time the driver returned to the vehicle. Wind speeds averaged 9.3 km/h (5.8 mph) throughout this time period and were variable in direction. It should be noted that the recorded temperature at the time the driver returned to the vehicle was the high temperature for that day. A schematic of the incident site is provided as **Figure 6** of this report.

Vehicle

The involved vehicle was a 2000 Ford Explorer XLT 4x4, 4-door sport utility vehicle. The Ford was identified by Vehicle Identification Number (VIN): 1FMZU73E1YZ (production number deleted). The Ford was equipped with a 4.0 liter V-6 conventionally-mounted gasoline engine linked to a 5-speed automatic transmission. The exterior color of the Ford was white. **Figures 2 and 3** are exterior views of an exemplar 2000 Ford Explorer.



Figure 2. Left side view of an exemplar 2000 Ford Explorer.



Figure 3. Front left oblique view of an exemplar 2000 Ford Explorer.

The glazing consisted of standard tint front door glazing, and deep tint rear door, quarter window, and backlight glazing. The Ford was also equipped with a sunroof that was comprised of deep tint glazing. The condition and status of the glazing was reported by the investigating detective as clear with all four door windows opened approximately 6 mm (0.25 in). The sunroof was opened approximately 13 mm (0.5 in) with the interior sun shade panel in the full-open position.

The interior was configured with front bucket seats and a split, forward folding second row bench seat. All interior and seating surfaces were surfaced in cloth and were light gray in color. **Figures 4 and 5** are interior views of exemplar vehicles.



Figure 4. View of the second row left seat position of an exemplar 2000 Ford Explorer.



Figure 5. Rear interior view of an exemplar 2000 Ford Explorer.

Driver

The Ford was owned and operated by a 59-year-old male. He was the grandfather to the 14-month-old male non-motorist. The driver was responsible for providing transportation for this non-motorist to a daycare facility, three-days per week. He had been performing this task for approximately four months prior to his incident.

Non-Motorist

The non-motorist was the 14-month-old male. His height and weight were unknown. He was dressed in shorts over a disposal diaper and a T-shirt for his day at the daycare facility. The color and fabric of the non-motorists clothing was unknown as the investigating detective arrived on-scene following the medical transport of the non-motorist. The non-motorist was restrained in a forward-facing convertible CRS in the second row left position. The non-motorist was restrained in the CRS by the integrated harness system and the CRS was secured to the vehicle by the 3-point lap and shoulder belt system.

Incident Sequence

Pre-Incident

On the morning of this incident, the driver arrived at his daughter's residence at approximately 0743 hours. His planned activities involved the transport of the non-motorist to the daycare facility with continued travel to his work place. The driving distance from the residence of the non-motorist to the daycare facility was approximately 2.4 km (1.5 mile). The total trip distance from the non-motorist's residence to his work place was 8.9 km (5.5 miles).

The driver placed the non-motorist in the forward facing CRS in the rear left position of the Ford and secured him in the CRS with the integrated harness system. The driver proceeded to his destinations, but became distracted from his tasks and continued directly to his work place, arriving at 0805 hours. He parked the Ford in a perimeter parking space with the front of the vehicle facing in a northwesterly direction. He opened the door windows approximately 6 mm (0.25 in) and the sunroof approximately 13 mm (0.5 in) to vent the interior of the vehicle. The driver locked the Ford with the remote key fob and proceeded to his work place. The 14-month old non-motorist remained secured in the CRS as the driver walked away from the vehicle.

Incident

The driver completed his work activities at approximately 1325 hours and returned to the vehicle to depart the commercial facility, en route to his residence. As the driver unlocked the Ford and opened the left front door, he observed the non-motorist restrained in the CRS. The non-motorist was unconscious with a faint breath. The driver immediately removed the non-motorist from the CRS and carried him into his workplace. A call was placed to the emergency response system to request medical assistance. The local police, fire, and emergency medical service personnel responded to the scene. Attempts to cool the non-motorist were initiated prior to the arrival of the paramedics and police.

Post-Incident

The non-motorist was immediately transported to a local hospital where his core temperature was measured at 41.7 degrees C (107.2 degrees F). The non-motorist was placed on life support and prepared for transport to a regional pediatric trauma center where he was evaluated for signs of recovery. The medical staff determined the non-motorist suffered brain death and life support was withdrawn four days following the incident. He expired with a Medical Examiner reported cause of death of hyperthermia.

The investigating detective and fire department measured the interior temperature of the Ford at 43.3 degrees C (110 degrees F) 90 minutes after the non-motorist was removed

from the vehicle. Prior to this point in time, the Ford had been opened and vented several times during the removal of the non-motorist and for the police investigation.

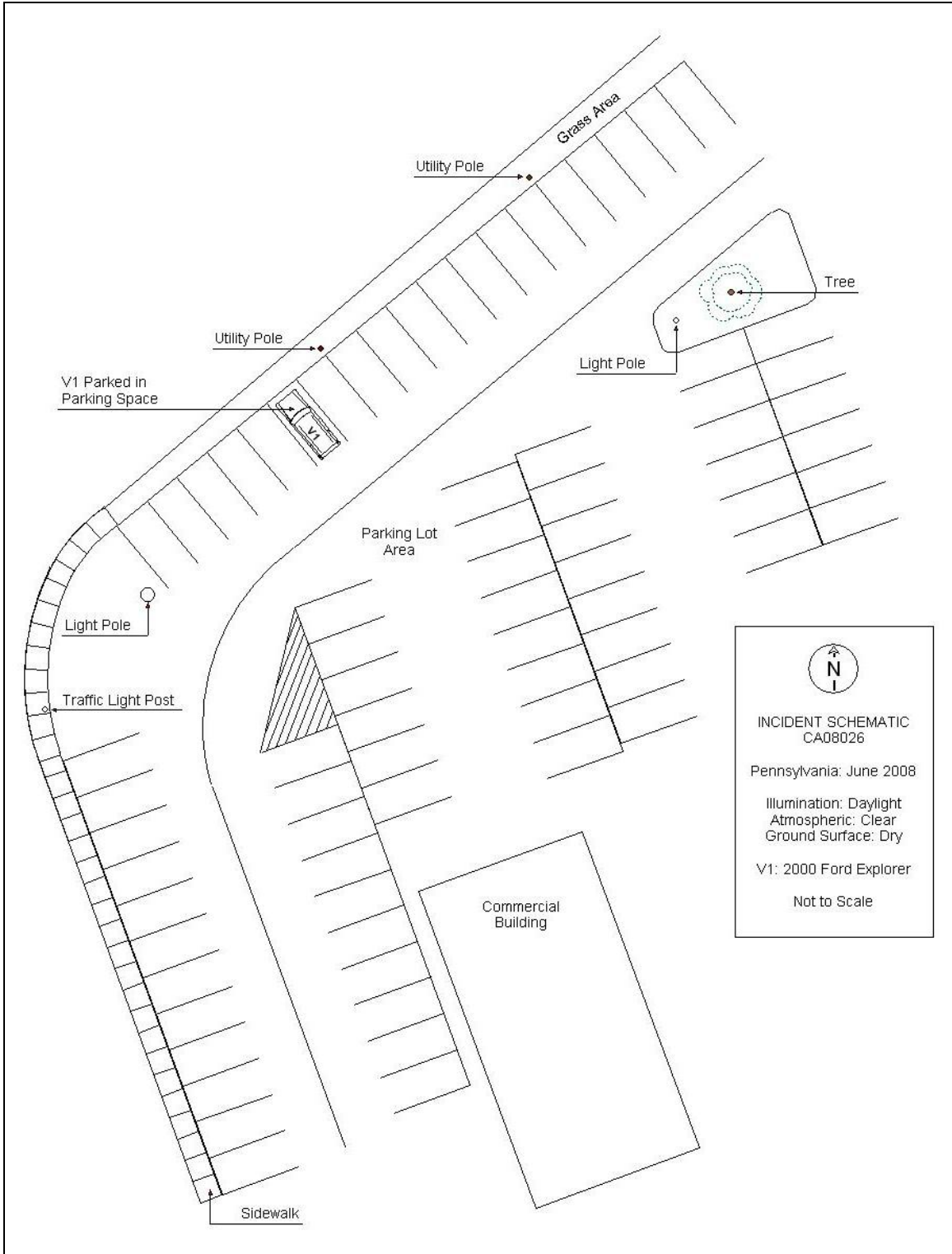


Figure 6: Incident Schematic

Attachment A

Not-In-Traffic Surveillance Forms

SCENE FORM

1. Case Number

C A 0 8 0 2 6

IDENTIFICATION

2. Date of Crash 0 6 / X X / 0 8

3. Time of Crash 9 9 9 9

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): HAZY
- 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 $\frac{+}{-}$ 0 0 0 %

12. Estimated distance from parked position to impact

0 0 0 . 0 m

13. Estimated speed at impact 0 0 0 kmph

$\frac{+}{-}$

14. Grade at impact 0 0 0 %

15. Estimated distance from impact to vehicle final rest

0 0 0 . 0 m

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

Not Applicable



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VEHICLE FORM

Special Crash Investigations
Not In Traffic Surveillance

1. Case Number C A 0 8 0 2 6

VEHICLE IDENTIFICATION

2. VIN 1 F M Z U 7 3 E 1 Y Z X X X X X X

3. Model Year 2 0 0 0

4. Vehicle Make (specify): FORD

5. Vehicle Model (specify): EXPLORER

GLAZING

Location	Presence (check)	Status (select)	Clarity (select)	Tint (check)	Glazing Obstructions (specify if present)
Windshield	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Fixed / <input type="checkbox"/> Closed / <input type="checkbox"/> Open / <input type="checkbox"/> Partially Open / <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Clear / <input type="checkbox"/> Hazy / <input type="checkbox"/> Very Dirty / <input type="checkbox"/> Unknown	<input type="checkbox"/>	
LF	<input checked="" type="checkbox"/>	<input type="checkbox"/> Fixed / <input type="checkbox"/> Closed / <input type="checkbox"/> Open / <input checked="" type="checkbox"/> Partially Open / <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Clear / <input type="checkbox"/> Hazy / <input type="checkbox"/> Very Dirty / <input type="checkbox"/> Unknown	<input type="checkbox"/>	
RF	<input checked="" type="checkbox"/>	<input type="checkbox"/> Fixed / <input type="checkbox"/> Closed / <input type="checkbox"/> Open / <input checked="" type="checkbox"/> Partially Open / <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Clear / <input type="checkbox"/> Hazy / <input type="checkbox"/> Very Dirty / <input type="checkbox"/> Unknown	<input type="checkbox"/>	
2 nd Left	<input checked="" type="checkbox"/>	<input type="checkbox"/> Fixed / <input type="checkbox"/> Closed / <input type="checkbox"/> Open / <input checked="" type="checkbox"/> Partially Open / <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Clear / <input type="checkbox"/> Hazy / <input type="checkbox"/> Very Dirty / <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/>	
2 nd Right	<input checked="" type="checkbox"/>	<input type="checkbox"/> Fixed / <input type="checkbox"/> Closed / <input type="checkbox"/> Open / <input checked="" type="checkbox"/> Partially Open / <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Clear / <input type="checkbox"/> Hazy / <input type="checkbox"/> Very Dirty / <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/>	
3 rd Left	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Fixed / <input type="checkbox"/> Closed / <input type="checkbox"/> Open / <input type="checkbox"/> Partially Open / <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Clear / <input type="checkbox"/> Hazy / <input type="checkbox"/> Very Dirty / <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/>	
3 rd Right	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Fixed / <input type="checkbox"/> Closed / <input type="checkbox"/> Open / <input type="checkbox"/> Partially Open / <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Clear / <input type="checkbox"/> Hazy / <input type="checkbox"/> Very Dirty / <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/>	
Backlight	<input checked="" type="checkbox"/>	<input type="checkbox"/> Fixed / <input checked="" type="checkbox"/> Closed / <input type="checkbox"/> Open / <input type="checkbox"/> Partially Open / <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Clear / <input type="checkbox"/> Hazy / <input type="checkbox"/> Very Dirty / <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/>	
Left Backlight	<input type="checkbox"/>	<input type="checkbox"/> Fixed / <input type="checkbox"/> Closed / <input type="checkbox"/> Open / <input type="checkbox"/> Partially Open / <input type="checkbox"/> Unknown	<input type="checkbox"/> Clear / <input type="checkbox"/> Hazy / <input type="checkbox"/> Very Dirty / <input type="checkbox"/> Unknown	<input type="checkbox"/>	
Right Backlight	<input type="checkbox"/>	<input type="checkbox"/> Fixed / <input type="checkbox"/> Closed / <input type="checkbox"/> Open / <input type="checkbox"/> Partially Open / <input type="checkbox"/> Unknown	<input type="checkbox"/> Clear / <input type="checkbox"/> Hazy / <input type="checkbox"/> Very Dirty / <input type="checkbox"/> Unknown	<input type="checkbox"/>	
Roof	<input type="checkbox"/>	<input type="checkbox"/> Fixed / <input type="checkbox"/> Closed / <input type="checkbox"/> Open / <input type="checkbox"/> Partially Open / <input type="checkbox"/> Unknown	<input type="checkbox"/> Clear / <input type="checkbox"/> Hazy / <input type="checkbox"/> Very Dirty / <input type="checkbox"/> Unknown	<input type="checkbox"/>	
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/> Fixed / <input type="checkbox"/> Closed / <input type="checkbox"/> Open / <input type="checkbox"/> Partially Open / <input type="checkbox"/> Unknown	<input type="checkbox"/> Clear / <input type="checkbox"/> Hazy / <input type="checkbox"/> Very Dirty / <input type="checkbox"/> Unknown	<input type="checkbox"/>	

TIRE DATA

6. Vehicle Manufacturer Recommended Tire Size P235/70R15

7. LF Tire Size UNKNOWN 9. RF Tire Size UNKNOWN

8. LR Tire Size UNKNOWN 10. RR Tire Size UNKNOWN

Seats / Head Restraint Data				NOTES: HEAR RESTRAINT ADJUSTMENTS ARE UNKNOWN
Seat Position	Seat Type (Select from below)	Head Restraint (Check if available)	Head Restraint Adjustment (select)	
Front Left	2	<input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Full Down / Mid / Full Up	
Front Middle	0	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Full Down / Mid / Full Up	
Front Right	2	<input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Full Down / Mid / Full Up	
2 nd Left	7	<input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Full Down / Mid / Full Up	
2 nd Middle	7	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Full Down / Mid / Full Up	
2 nd Right	7	<input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Full Down / Mid / Full Up	
3 rd Left	0	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Full Down / Mid / Full Up	
3 rd Middle	0	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Full Down / Mid / Full Up	
3 rd Right	0	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 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	N/A	N/A
Top of trunk/tailgate	N/A	
Bottom of bumper	N/A	
Trailer hitch (if applicable)	N/A	
Undercarriage		
Sway bar	N/A	
Axle	N/A	
Differential	N/A	
Other (specify): N/A	N/A	
Sensor Height (if equipped)	N/A	
Camera Height (if equipped)	N/A	



Back Up / Parking Aid Form

1. Case Number

C A 0 8 0 2 6

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

Not Applicable

14. Did driver react to warning

- No sensor present
- Yes
- No
- Unknown
- Sensor present, did not sound

15. Did driver report common false warnings

- No sensor present
- Yes
- No
- Unknown

Not Applicable

No Driver Present



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DRIVER FORM

Special Crash Investigations
Not In Traffic Surveillance

1 Case Number
 C A 0 8 0 2 6

DRIVER PROFILE

2. Driver's Age 5 9
99 = Unknown

3. Driver's Sex Male
 Female
 Unknown

4. Driver's Height 9 9 9 cm
999 = Unknown

5. Driver's Weight 9 9 9 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:
TO WORK PLACE _____

13. Driver in a hurry
 Yes N/A
 No 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 Other occupant
- Headrest Other (specify) _____
- Cargo 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



Not Applicable

U.S. Department of Transportation
National Highway Traffic Safety Administration

Non Motorist Form

Special Crash Investigations
Not In Traffic Surveillance

1. Case Number
 C A 0 8 0 2 6

NON-MOTORIST PROFILE

2. Non-motorist's Age 1 4 Months
 Years
99 = Unknown

3. Non-motorist's Sex Male
 Female
 Unknown

4. Non-motorist's Height 9 9 9 cm
999 = Unknown

5. Non-motorist's Weight 9 9 9 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: HYPERTHERMIA
- 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) in CRS
- 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): Restrained in CRS
- Unknown

12. Non-motorist approach relative to rear of vehicle

- Stationary
- From left
- From right
- From behind
- Other (specify): Restrained in CRS
- 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) Rest. in CRS
- 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)						
Pink							

	Clothing	Color	Fabric	Texture	Weight
HEADWEAR	Hat				
	Helmet				
	Hood				
	Other (specify): _____	N/A			
	Unknown				
UPPER BODY	Short Sleeve	Unknown	Unknown	Unknown	Light
	Long Sleeve				
	Light Jacket				
	Heavy Jacket				
	Other (Specify): _____				
	Unknown				
LOWER BODY	Shorts	Unknown	Unknown	Unknown	Light
	Pants				
	Shoes				
	Other (specify): _____				
	Unknown				