CRASH DATA RESEARCH CENTER
Calspan Corporation
Buffalo, NY 14225

NOT-IN-TRAFFIC SURVEILLANCE
CALSPAN REMOTE BACKOVER INVESTIGATION

SCI CASE NO: CA07-009

VEHICLE: 1997 HONDA CIVIC
LOCATION: TENNESSEE
CRASH DATE: FEBRUARY 2007

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. CA07-009	*2. Government Accession No.*	*3. Recipient's Catalog No.*	
4. Title and Subtitle Not-In-Traffic Surveillance Calspan Remote Backover Investigation Vehicle: 1997 Honda Civic Location: Tennessee		*5. Report Date*: August 2007 *6. Performing Organization Code*	
7. Author(s) Crash Data Research Center		*8. Performing Organization Report No.*	
9. Performing Organization Name and Address Calspan Corporation Crash Data Research Center P.O. Box 400 Buffalo, New York 14225		*10. Work Unit No.* C00500.0000.0009 *11. Contract or Grant No.* DTNH22-07-C-00043	
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* Technical Report Crash Date: February 2007 *14. Sponsoring Agency Code*	
15. Supplementary Note An investigation of the 1997 Honda Civic involved in a backover incident.			

16. Abstract

This investigation focused on the incident dynamics, injury sources, and rear visibility of a 1997 Honda Civic 4 door sedan that was involved in a Not-In-Traffic backover crash with a 2 year old female. The Honda was driven by the non-motorist's mother, a 22 year old female. The incident occurred in the driveway of a private residence during the daylight hours of February 2007. The 2 year old non-motorist was knocked down and backed over by the Honda. The child sustained multiple soft tissue injuries in the incident.

This crash was identified by the Crash Investigation Division of the National Highway Traffic Safety Administration (NHTSA) through an Internet News article posted on February 22, 2007. The NHTSA forwarded the article to the Calspan Special Crash Investigations team on February 23 and the SCI team initiated follow-up investigation. An investigation of the incident was assigned on February 28, 2007 due to the agency's interest in the documentation of backover incidents. Cooperation was established with the investigating police department and a copy of the Police Crash Report and on-scene photographs were obtained. An interview of the investigating police officer and a first responder provided the basic facts for this investigation. The driver declined participation in the SCI investigation prompting a remote crash investigation. An exemplar 1997 Honda Civic was inspected and provided the source of comparison measurements.

17. Key Words Not-In-Traffic Backover Not Equipped with a Parking Aid Rear Visibility Non life-threatening Injuries		*18. Distribution Statement* General Public	
19. Security Classif. (of this report) Unclassified	*20. Security Classif. (of this page)* Unclassified	*21. No. of Pages* 5	*22. Price*

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CRASH DATE: FEBRUARY, 2007

BACKGROUND

This investigation focused on the incident dynamics, injury sources, and rear visibility of a 1997 Honda Civic 4 door sedan that was involved in a Not-In-Traffic backover crash with a 2 year old female. The Honda was driven by the non-motorist's mother, a 22 year old female. The incident occurred in the driveway of a private residence during the daylight hours of February 2007. **Figure 1** is an on-scene police photograph of the vehicle. The 2 year old non-motorist was knocked down and backed over by the Honda. The child sustained multiple soft tissue injuries in the incident.

Figure 1: Front oblique view of the Honda.

This crash was identified by the Crash Investigation Division of the National Highway Traffic Safety Administration (NHTSA) through an Internet News article posted on February 22, 2007. The NHTSA forwarded the article to the Calspan Special Crash Investigations team on February 23 and the SCI team initiated follow-up investigation. An investigation of the incident was assigned on February 28, 2007 due to the agency's interest in the documentation of backover incidents. Cooperation was established with the investigating police department and a copy of the Police Crash Report and on-scene photographs were obtained. The crash was documented by the local police on the Tennessee Uniform Traffic Crash Report Form. An interview of the investigating police officer and a first responder provided the basic facts for this investigation. The driver declined participation in the SCI investigation prompting a remote crash investigation. An exemplar 1997 Honda Civic was inspected and provided the source of comparison measurements.

SUMMARY

VEHICLE DATA

The 1997 Honda Civic was identified by the Vehicle Identification Number (VIN): 2HGEJ6570VH (production sequence deleted). The four-door sedan was powered by a 1.5 liter I4 engine linked to a five-speed manual transmission and was equipped with the LX model trim. The front row consisted of manual bucket seats with height adjustable head restraints. Both head restraints were in the full down position. The second row consisted of a fixed three-passenger bench seat with integrated head restraints in the outboard positions. A child safety seat was positioned in the right rear of the vehicle. The side windows and backlight were OEM AIS2

glazing. There were no stickers or decals present on any of the windows. A review of the police photographs indicated the driver's (left front) window was open at the time of the incident. The manufacturer's recommended tire size was P185/65R14 tires. The subject Honda's tire appeared to be the recommended size.

Figure 2 is a back view of the Honda at final rest in the driveway. A swipe mark (road film removed) was present on the left aspect of the rear bumper fascia. **Figure 3** is a close-up view of the left rear corner. The swipe mark was an indicator of probable contact with the child during the backing maneuver. The mark began 28 cm (11 in) left of center and extended 29 cm (11.5 in) left. The elevation of the rear bumper on the exemplar Honda Civic measured 39 cm to 58 cm (15.5 in to 22.8 in) above the ground. The center of the swipe mark was an estimated 51 cm (20 in) above the ground. The height of the rear deck lid measured 100 cm (39.5 in) above the ground.

Figure 2: Rear view of the Civic at final rest.

Figure 3: Close-up view of the left rear corner.

CRASH SEQUENCE

This back-over crash occurred during the daylight hours of February 2007. The weather at the time of the crash was clear and dry; the temperature was approximately 19 degrees C (66 degrees F). The crash occurred on a straight/level concrete driveway of a private residence in a suburban setting. Reportedly, the crash occurred in the following manner.

The 22 year old female and her 2 year old daughter had traveled in the 1997 Honda Civic to the crash location an unknown time before the incident to visit family members. During the course of the visit, the driver of the Honda had to leave the residence for a short time (presumably) to run errands. The non-motorist child was playing in the yard with an unknown number of other children at that time. The driver stated to the police that right before she left that she told the children to enter the house. The driver then proceeded to enter the Honda Civic and began to back-up the driveway to leave. During this time (unknown length), the non-motorist approached the vehicle from the left rear. The driver reportedly felt a bump as she was backing and stopped. She exited the Honda and found the child underneath the vehicle at the approximate depth of the left B-pillar. The B-pillar was located 107 cm (42 in) forward of the rear axle.

The driver called for help and a neighbor reportedly jacked up the vehicle and was able to slide the child to the left side of the Honda. A first responder to the crash indicated that the child was located approximately at the B-pillar location on the centerline of the vehicle. She apparently was contacted by the rear bumper, straddled by the rear tires and dragged a short distance. The child was transported to a trauma center as a precaution for a possible head injury. Reportedly, she sustained multiple soft tissue injuries to the face, trunk and arms. There were no skeletal fractures and no brain injury. The child was hospitalized overnight and released. The prognosis was for a full recovery.

Figure 4: Final rest location of the child.

REAR VISIBILTY

1997 Honda Civic

The rear visibility of an exemplar Honda Civic was measured in a level parking lot and depicted in a diagram attached to the end of this report (**Figure 5**). The substitute driver's standing height measured 173 cm (68 in) with a seated eye height 112 cm (44 in) above the ground. The substitute driver had no real relationship to the height of the actual driver, since her demographics were unknown. The height listed on the attached diagram is for reference information only. A 71 cm (28 in) tall red reflective target was placed on the vehicle's centerline and moved rearward to a location where the driver could first see the red target using the center mirror. The centerline visibility distance was measured from the rear bumper. A second measurement was taken with the target placed at ground level. The measured visibility distance is summarized below:

- Sight distance to 71 cm (28 in) target: 5.8 m (19.0 ft)
- Sight distance to ground level target: 16.3 m (53.5 ft)

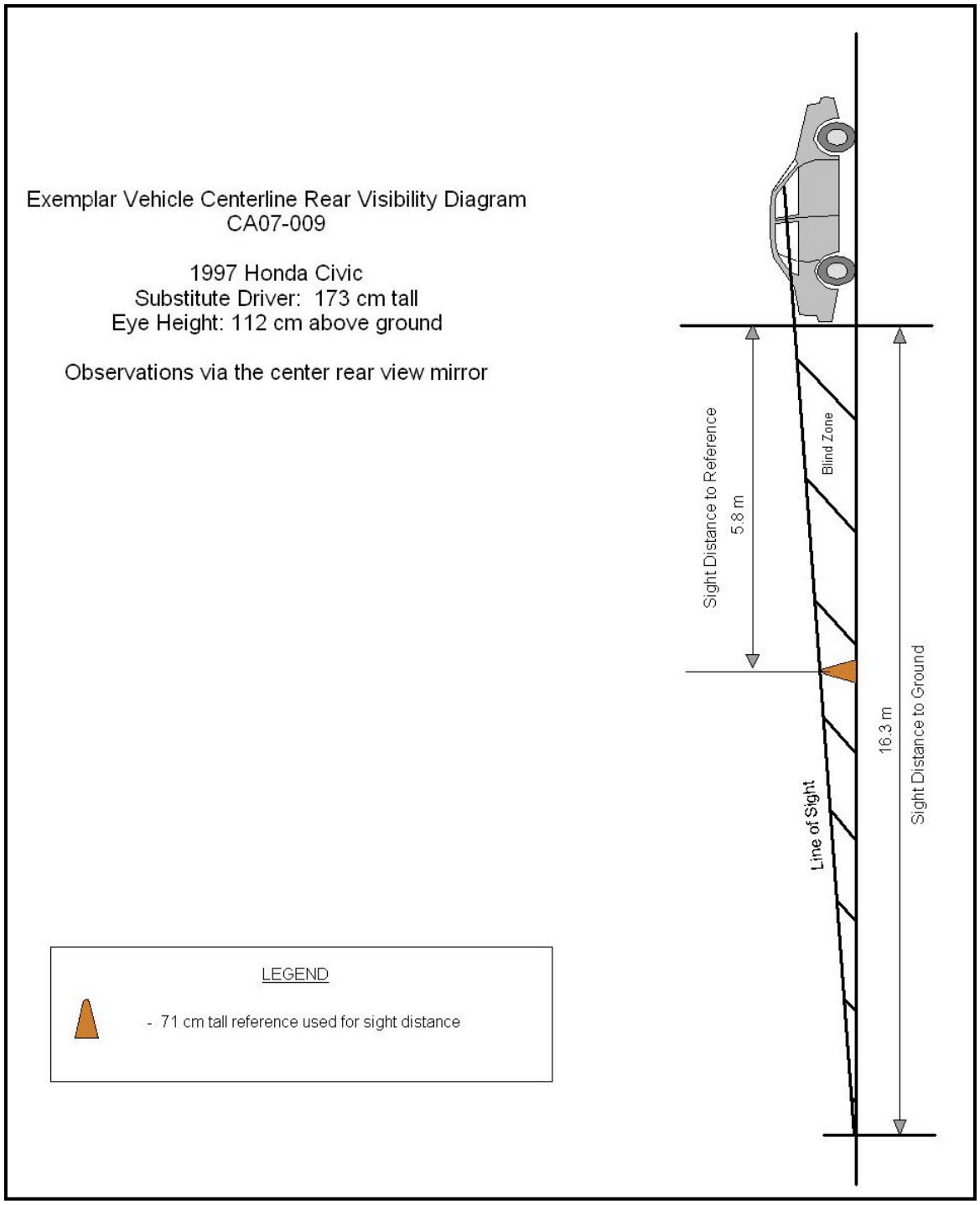

Figure 5: Rear Visibility Diagram.

ATTACHMENT A

Not-In-Traffic Surveillance Forms

Not Applicable ☐

Reset Values

Print Forms

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

SCENE FORM

Special Crash Investigations
Not In Traffic Surveillance

1. Case Number

C A 0 7 0 0 9

IDENTIFICATION

2. Date of Crash 0 2 / x x / 0 7

3. Time of Crash 1 7 2 0

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
- ( ) Shrubbery
- ( ) 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
- ( ) Shrubbery
- ( ) Utility poles
- ( ) Signs
- ( ) Glare
- ( ) Other (specify) _____
- ( ) Unknown

11. Grade at parked position (+ / -) 0 0 0 %

12. Estimated distance from parked position to impact

9 9 9 . 9 m

13. Estimated speed at impact 0 0 2 kmph

14. Grade at impact (+ / -) 0 0 0 %

15. Estimated distance from impact to vehicle final rest

0 0 2 . 0 m

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

Rev July/2007

Not Applicable ☐

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

VEHICLE FORM

Special Crash Investigations
Not In Traffic Surveillance

1. Case Number C A 0 7 0 0 9

VEHICLE IDENTIFICATION

2. VIN 2 H G E J 6 5 7 0 V H X X X X X X

3. Model Year 1 9 9 7

4. Vehicle Make (specify): HONDA

5. Vehicle Model (specify): CIVIC

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 / ☐ Unknown	☑ Clear / ☐ Hazy / ☐ Very Dirty / ☐ Unknown	☐	
RF	☑	☐ Fixed / ☑ Closed / ☐ Open / ☐ Partially Open / ☐ Unknown	☑ Clear / ☐ Hazy / ☐ Very Dirty / ☐ Unknown	☐	
2nd Left	☑	☐ Fixed / ☑ Closed / ☐ Open / ☐ Partially Open / ☐ Unknown	☑ Clear / ☐ Hazy / ☐ Very Dirty / ☐ Unknown	☐	
2nd Right	☑	☐ Fixed / ☑ Closed / ☐ Open / ☐ Partially Open / ☐ Unknown	☑ Clear / ☐ Hazy / ☐ Very Dirty / ☐ Unknown	☐	
3rd Left	☑	☑ Fixed / ☐ Closed / ☐ Open / ☐ Partially Open / ☐ Unknown	☑ Clear / ☐ Hazy / ☐ Very Dirty / ☐ Unknown	☐	
3rd 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 Manufacturer Recommended Tire Size P185/65R14

7. LF Tire Size P185/65R14

8. LR Tire Size P185/65R14

9. RF Tire Size P185/65R14

10. RR Tire Size P185/65R14

Seats / Head Restraint Data

Seat Position	Seat Type (Select from below)	Head Restraint (Check if available)	Head Restraint Adjustment (select)
Front Left	1	☑	☑ Full Down / Mid / Full Up
Front Middle		☐	☐ Full Down / Mid / Full Up
Front Right	1	☑	☑ Full Down / Mid / Full Up
2nd Left	3	☑	☐ Full Down / Mid / Full Up
2nd Middle	3	☐	☐ Full Down / Mid / Full Up
2nd Right	3	☑	☐ Full Down / Mid / Full Up
3rd Left		☐	☐ Full Down / Mid / Full Up
3rd Middle		☐	☐ Full Down / Mid / Full Up
3rd Right		☐	☐ Full Down / Mid / Full Up

NOTES:

The second row bench seat was equipped with integral head restraints in the outboard positions.

Seat Type codes:

0 = No seat or seat folded down
1 = Bucket
2 = Bucket w/ folding back
3 = Bench
4 = Bench w/ separate back cushions
5 = Bench w/ folding back
6 = Split bench w/ separate back cushions
7 = Split bench w/ 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		93	Elevation of the sill at B pillar: 19 cm
Top of trunk/tailgate		100	
Bottom of bumper		39	Uni body/floor pan clearance on centerline: 18 cm
Trailer hitch (if applicable)		n/a	Left rear lower control arm (outboard): 14 cm
Undercarriage			
	Sway bar	n/a	Left rear lower control arm (inboard): 18 cm
	Axle	n/a	
	Differential	n/a	
	Other (specify): n/a	n/a	
Sensor Height (if equipped)		n/a	
Camera Height (if equipped)		n/a	

Not Applicable ☑

Reset Values

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

Back Up / Parking Aid Form

Special Crash Investigations
Not In Traffic Surveillance

1. Case Number

C A 0 7 0 0 9

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

Not Applicable ☐

Reset Values

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

DRIVER FORM

Special Crash Investigations
Not In Traffic Surveillance

1. Case Number

C A 0 7 0 0 9

DRIVER PROFILE

2. Driver's Age 2 2
   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:

LEAVING DRIVEWAY FOR MICELLANEOUS ERRANDS

13. Driver in a hurry
    - ○ Yes
    - ○ No
    - ○ N/A
    - ◉ 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
    - ○ 11-30 Seconds
    - ○ 31-60 Seconds
    - ○ Over 60 Seconds
    - ○ N/A
    - ◉ 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

Not Applicable ☐

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

Non Motorist Form

Reset Values

Special Crash Investigations
Not In Traffic Surveillance

1. Case Number
C A 0 7 0 0 9

NON-MOTORIST PROFILE

2. Non-motorist's Age 0 2 ○ 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:_____
○ 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): From left rear quadrant
○ 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:

Colors		***Fabrics***	***Textures***	***Weights***
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
HEADWEAR	Hat				
	Helmet				
	Hood				
	Other (specify): _____				
		Unknown	Unknown	Unknown	Unknown
UPPER BODY	Short Sleeve				
	Long Sleeve				
	Light Jacket				
	Heavy Jacket				
	Other (Specify): _____				
		Unknown	Unknown	Unknown	Unknown
LOWER BODY	Shorts				
	Pants				
	Shoes				
	Other (specify): _____				
		Unknown	Unknown	Unknown	Unknown