

ATTACHMENT C6

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United States Department of Transportation
National Highway Traffic Safety
Administration

Inspection Form Restraints (03/10/11 Draft)

Form Approved O.M.B. No. 2127-0642
Expiration Date: xxxx

National Automotive Sampling System
National Child Restraint Use - Special
Study

1. Primary Sampling Unit Number: _____	2. Site Number: _____
3. Observation Number: _____ / _____	4. Date of Observation: _____ / _____ /2011

Specific Seating Position - Randomly select one child <9 to observe

5. Seating position observed? (circle) 12 13 21 22 23 31 32 33 Other _____	Front Seating Positions Only (i.e., 12, 13)	
	7. Right frontal airbag?	1 <input type="radio"/> Yes 2 <input type="radio"/> No (Skip to Q8)
	9. Air bag switch?	1 <input type="radio"/> On 2 <input type="radio"/> Off 3 <input type="radio"/> Not available
10. Location of child (or CRS, if used)	1 <input type="radio"/> Vehicle seat 2 <input type="radio"/> Floor 3 <input type="radio"/> Lap of occupant 4 <input type="radio"/> Other	
11. Restraint type used?	1 <input type="radio"/> CRS/device 2 <input type="radio"/> Seat belt only (Skip to Q12) 3 <input type="radio"/> None (Skip to vehicle form)	
12. CRS type/mode used?	1 <input type="radio"/> Infant seat with base 6 <input type="radio"/> Backless BP booster 2 <input type="radio"/> Infant seat with no base 7 <input type="radio"/> Shield booster 3 <input type="radio"/> RF convertible/all-in-one 8 <input type="radio"/> Car bed 4 <input type="radio"/> FF with harness/shield 9 <input type="radio"/> Vest 5 <input type="radio"/> Highback BP booster (no harness) 10 <input type="radio"/> Other device	
13. Does the CRS have a harness?	1 <input type="radio"/> Yes (Skip to Q22) 2 <input type="radio"/> No (complete the following section)	

Booster Seats or Adult Seat Belts - While Child Restrained

14. Booster: Is the seat belt routed through the belt-positioning guides/channels?	1 <input type="radio"/> Yes 2 <input type="radio"/> No 3 <input type="radio"/> NA/No booster 4 <input type="radio"/> Unknown
15. Is the seat belt buckled?	1 <input type="radio"/> Yes 2 <input type="radio"/> No 3 <input type="radio"/> Unknown
16. Is the child's head supported?	1 <input type="radio"/> Yes, CRS supports head seat back 3 <input type="radio"/> No, head is above vehicle 2 <input type="radio"/> Yes, vehicle supports head 4 <input type="radio"/> Unknown
17. Is the child sitting against seat back?	1 <input type="radio"/> Yes, against CRS forward/slouching 3 <input type="radio"/> No, child leaning 2 <input type="radio"/> Yes, against vehicle seat back 4 <input type="radio"/> Unknown
18. Is the shoulder belt loose/slack?	1 <input type="radio"/> Yes 2 <input type="radio"/> No 3 <input type="radio"/> NA/no shoulder belt 4 <input type="radio"/> Unknown
19. Shoulder belt position	1 <input type="radio"/> Over body--centered on shoulder 5 <input type="radio"/> Behind arm or back 2 <input type="radio"/> Over body--touching shoulder 6 <input type="radio"/> NA/no shoulder belt 3 <input type="radio"/> Over body--below shoulder/around arm 7 <input type="radio"/> Unknown 4 <input type="radio"/> Over body--above shoulder at neck/face
20. Adjustable D-ring on shoulder belt?	1 <input type="radio"/> Yes 2 <input type="radio"/> No 3 <input type="radio"/> NA/no shoulder belt 4 <input type="radio"/> Unknown
21. Is the lap belt loose/slack?	1 <input type="radio"/> Yes 2 <input type="radio"/> No 3 <input type="radio"/> NA/no shoulder belt 4 <input type="radio"/> Unknown
22. Lap belt position	1 <input type="radio"/> Across hips/thighs 3 <input type="radio"/> NA/lap belt not used 2 <input type="radio"/> Across abdomen/ribcage 4 <input type="radio"/> Unknown
23. Booster: Does the booster have a lower anchor connector?	1 <input type="radio"/> Yes (Skip to Q61) 3 <input type="radio"/> NA/no booster (Skip to Q68) 2 <input type="radio"/> No (Skip to Q68) 4 <input type="radio"/> Unknown (Skip to Q68)

All RF and FF harnesses CRSs - Harness Type and Use - While Child Restrained

24. Harness/shield type on CRS	1 <input type="radio"/> 3-point/V type 3 <input type="radio"/> T-shield 2 <input type="radio"/> 5-point 4 <input type="radio"/> Tray-shield
25. Is the harness or shield <i>in use</i> ?	1 <input type="radio"/> Yes 2 <input type="radio"/> No 3 <input type="radio"/> Unknown
26. Is the harness strap buckled?	1 <input type="radio"/> Yes 2 <input type="radio"/> No, 1 or more unbuckled 3 <input type="radio"/> Unknown
27. Retainer/chest clip <i>available</i> ?	1 <input type="radio"/> Yes 2 <input type="radio"/> No (Skip to Q27)
28. Is the harness retainer/chest clip <i>used</i> ?	1 <input type="radio"/> Used, chest/arm/pit 4 <input type="radio"/> Not used 2 <input type="radio"/> Used, abdomen 5 <input type="radio"/> Unknown 3 <input type="radio"/> Used, neck level
29. Position of the harness straps	1 <input type="radio"/> Both straps over shoulders/body 3 <input type="radio"/> Unknown 2 <input type="radio"/> 1 or more straps behind arm/back/leg
30. Snugness of harness straps	1 Amount of slack when pinched _____ cm (Enter 0 if no slack)
31. Twisted harness strap(s)	1 <input type="radio"/> Yes 2 <input type="radio"/> No
32. Type of harness slots?	1 <input type="radio"/> Sliding adjustment - no slots 4 <input type="radio"/> Slots - lowest used 2 <input type="radio"/> Slots - uppermost used 5 <input type="radio"/> Slots - different levels used 3 <input type="radio"/> Slots - middle used
33. Where is the harness opening in relation to the child's <u>left</u> shoulder?	1 <input type="radio"/> At the left shoulder _____ cm 3 <input type="radio"/> Below the left shoulder: 2 <input type="radio"/> Above the left shoulder: _____ cm 4 <input type="radio"/> Unknown
34. ... <u>right</u> shoulder?	1 <input type="radio"/> At the right shoulder _____ cm 3 <input type="radio"/> Below the right shoulder: 2 <input type="radio"/> Above the right shoulder: _____ cm 4 <input type="radio"/> Unknown
35. Where is the top of the child's head in relation to the top of the CRS?	1 <input type="radio"/> At the top 3 <input type="radio"/> Below the top: _____ cm 2 <input type="radio"/> Above the top: _____ cm 4 <input type="radio"/> Unknown
36. Top of the ears above the shell of the CRS?	1 <input type="radio"/> Yes 2 <input type="radio"/> No 3 <input type="radio"/> Unknown

All RF and FF harnesses seats - Installation

37. Direction of CRS	1 <input type="radio"/> Rear-facing 2 <input type="radio"/> Forward-facing 3 <input type="radio"/> Supine (facing up)	4 <input type="radio"/> Side-facing 5 <input type="radio"/> Other
38. Does CRS base footprint hang over the vehicle seat?	1 <input type="radio"/> Yes (Take measurements) 2 <input type="radio"/> No Length of CRS base (front to back) _____ cm Length of CRS base that is off the vehicle seat _____ cm	
39. What is the lower attachment of the CRS to the vehicle?	1 <input type="radio"/> Lower anchor strap(s) method of attachment 2 <input type="radio"/> Seat belt for this seating position Integrated 3 <input type="radio"/> Both LA and SB for this seating position attached	4 <input type="radio"/> Other 5 <input type="radio"/>
40. How much does CRS move laterally when pushed or pulled at the belt path?	1 Amount of movement at base _____ cm do not move CRS more than 8 cm	(Note:)
41. FF only: Is the CRS against the vehicle seat back? (All that apply)	1 <input type="checkbox"/> Yes, most of CRS contacts vehicle seat back contour 3 <input type="checkbox"/> No, head restraint interference NA/RF seat 5 <input type="checkbox"/> No, other	2 <input type="checkbox"/> No, 4 <input type="checkbox"/>
42. RF only: Is the back of the CRS touching the front seat?	1 <input type="radio"/> Yes 2 <input type="radio"/> No	3 <input type="radio"/>
43. Amount of recline in child seat?	1 <input type="radio"/> upright - not reclined approx 45 degrees 2 <input type="radio"/> up to 30 degrees than 45 degrees 3 <input type="radio"/> between 30-45	4 <input type="radio"/> 5 <input type="radio"/> more
44. Method used to adjust angle?	1 <input type="checkbox"/> None or not reclined Rolled towel(s) 3 <input type="checkbox"/> CR's angle adjustor Noodle(s) 5 <input type="checkbox"/> Other method (not part of CRS) _____	2 <input type="checkbox"/> 4 <input type="checkbox"/>

All RF and FF harnesses seats - CRS hardware and tether use

45. Lower attachment type available on the CRS	1 <input type="radio"/> Flexible strap Unknown 2 <input type="radio"/> Rigid (Skip to Q46)	3 <input type="radio"/> 4 <input type="radio"/> None
46. Lower connector type	1 <input type="radio"/> Hook-on Unknown 2 <input type="radio"/> Push-on	3 <input type="radio"/> 4 <input type="radio"/> None
47. Lower connector adjustment	1 <input type="radio"/> Latchplate Automatic (e.g., SureLATCH) 2 <input type="radio"/> Button-release Unknown	3 <input type="radio"/> 4 <input type="radio"/>
48. Top tether adjustment	1 <input type="radio"/> Latchplate Unknown 2 <input type="radio"/> Button-release	3 <input type="radio"/>
49. Top tether in use?	1 <input type="radio"/> Yes 2 <input type="radio"/> No (Skip to Q52)	
50. Top tether tightness	1 Amount of slack in tether when pinched _____ cm (Enter 0 if none)	
51. What is the tether attached to?	1 <input type="radio"/> Tether anchor for this seating position Tether anchor for another SP 3 <input type="radio"/> Secure location in front (Swedish) Locked seat belt in back 5 <input type="radio"/> Not attached to anything Other attachment _____	2 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/>
52. How is the top tether strap routed?	1 <input type="radio"/> Over integral/no head restraint Under adjustable head restraint 2 <input type="radio"/> Over raised adjustable head restraint Around headrest 3 <input type="radio"/> Over down adjustable head restraint Other routing _____	4 <input type="radio"/> 5 <input type="radio"/> 6 <input type="radio"/>
53. Top tether strap twisted?	1 <input type="radio"/> Yes 2 <input type="radio"/> No	

All Seat Belt Installed CRSs

54. Seat belt used to install?	1 <input type="radio"/> Yes (Complete this section) No (Skip to Q61)	2 <input type="radio"/>
55. Seat belt routing	1 <input type="radio"/> Forward-facing slots/channels Other unconventional routing 2 <input type="radio"/> Rear-facing slots/channels Unknown	3 <input type="radio"/> 4 <input type="radio"/>
56. Is the seat belt twisted?	1 <input type="radio"/> Yes Unknown 2 <input type="radio"/> No	3 <input type="radio"/>
57. Is the seat belt buckled?	1 <input type="radio"/> Yes Unknown 2 <input type="radio"/> No	3 <input type="radio"/>
58. Latch plate type on seat belt	1 <input type="radio"/> Sliding Locking or lightweight locking 2 <input type="radio"/> Switchable-locked Sewn-on 3 <input type="radio"/> Switchable-not locked Unknown	4 <input type="radio"/> 5 <input type="radio"/> 6 <input type="radio"/>
59. Use of locking clip	1 <input type="radio"/> None present only on lap 2 <input type="radio"/> Used on lap/shoulder, within 1 in only on shoulder 3 <input type="radio"/> Used on lap/shoulder, > 1 in Other use _____	4 <input type="radio"/> Used 5 <input type="radio"/> Used 6 <input type="radio"/>
60. Seat belt retractor	1 <input type="radio"/> Locked (ALR mode) 3 <input type="radio"/> Unknown 2 <input type="radio"/> Not locked (ELR mode)	
61. CRS lockoff available?	1 <input type="radio"/> Yes Unknown (Skip to Q61) 2 <input type="radio"/> No (Skip to Q61)	3 <input type="radio"/>
62. CRS lockoff in use?	1 <input type="radio"/> Yes Unknown 2 <input type="radio"/> No	3 <input type="radio"/>

All LATCH Installed CRSs

63. Lower anchor(s) used to install?	1 <input type="radio"/> Yes (Complete this section) No (Skip to 68)	2 <input type="radio"/>
64. LATCH strap routing	1 <input type="radio"/> Forward-facing slots/channels Unknown	4 <input type="radio"/>

	2 <input type="radio"/> Rear-facing slots/channels rigid with no strap 3 <input type="radio"/> Other unconventional routing	5 <input type="radio"/> NA -
65. Is the LATCH strap twisted?	1 <input type="radio"/> Yes Unknown 2 <input type="radio"/> No rigid with no strap	3 <input type="radio"/> 4 <input type="radio"/> NA -
66. <i>Left</i> connector attached to?	1 <input type="radio"/> Left lower anchor for SP Something other than LA 2 <input type="radio"/> Other lower anchor attached to anything	3 <input type="radio"/> 4 <input type="radio"/> Not
67. <i>Right</i> connector attached to?	1 <input type="radio"/> Right lower anchor for SP Something other than LA 2 <input type="radio"/> Other lower anchor attached to anything	3 <input type="radio"/> 4 <input type="radio"/> Not
68. Are the connectors attached with the correct side up?	1 <input type="radio"/> Yes, correct side up not attached 2 <input type="radio"/> No, one or more upside-down Unknown	3 <input type="radio"/> No, 4 <input type="radio"/>
69. Are there multiple CRS attached to the lower anchors?	1 <input type="radio"/> Yes Unknown	2 <input type="radio"/> No 3 <input type="radio"/>
All RF seat, FF seat, or booster - CRS Labels and Other Issues		
70. Is the child sitting in any type of CRS (harnessed or booster)?	1 <input type="radio"/> Yes (Complete this section) No (Skip to vehicle form)	2 <input type="radio"/>
71. Does the CRS have a label?	1 <input type="radio"/> Yes, visible (Complete this section) Yes, but not visible (Skip to Q77) (Skip to Q77)	2 <input type="radio"/> 3 <input type="radio"/> No
72. CRS Make or Manufacturer	1 _____ able to observe or missing	2 <input type="checkbox"/> Not
73. CRS Model	1 _____ able to observe or missing	2 <input type="checkbox"/> Not
74. CRS Model #	1 _____ able to observe or missing	2 <input type="checkbox"/> Not
75. Rear-facing limits	1 Lower height: _____ inches weight: _____ pounds 2 Upper height: _____ inches weight: _____ pounds	3 Lower 4 Upper
76. Forward-facing limits	1 Lower height: _____ inches weight: _____ pounds 2 Upper height: _____ inches weight: _____ pounds	3 Lower 4 Upper
77. Highback booster limits	1 Lower height: _____ inches weight: _____ pounds 2 Upper height: _____ inches weight: _____ pounds	3 Lower 4 Upper
78. Backless booster limits	1 Lower height: _____ inches weight: _____ pounds 2 Upper height: _____ inches weight: _____ pounds	3 Lower 4 Upper
79. Is there visible damage to the restraint? (All that apply)	1 <input type="checkbox"/> Cracked/broken shell padding 3 <input type="checkbox"/> Broken/frayed harness visible damage 5 <input type="checkbox"/> Other visible damage	2 <input type="checkbox"/> Torn 4 <input type="checkbox"/> No
80. Are there any aftermarket products used with the CRS? (All that apply)	1 <input type="checkbox"/> Belt tightener/Mighty Tite Aftermarket seat cover 2 <input type="checkbox"/> Padding between child and CRS Toys/items attached to CRS 3 <input type="checkbox"/> Padding between CRS and vehicle seat aftermarket device (other than noodles/rolled towels) Other aftermarket device _____	4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> No 7 <input type="checkbox"/>