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| TriskelUnited States Department of TransportationNational Highway Traffic Safety Administration | Inspection FormRestraints*(03/10/11 Draft)* | Form Approved O.M.B. No. 2127-0642Expiration Date: xxxxNational Automotive Sampling SystemNational Child Restraint Use – Special Study |
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| 1. Primary Sampling Unit Number: \_\_\_\_\_ \_\_\_\_\_
 | 1. Site Number: \_\_\_\_\_ \_\_\_\_\_
 |
| 1. Observation Number: \_\_\_\_\_\_\_/\_\_\_\_\_\_\_
 | 1. Date of Observation: \_\_\_\_\_\_\_/\_\_\_\_\_\_\_/2011
 |
| **Specific Seating Position – *Randomly select one child <9 to observe*** |
| 1. **Seating position observed? *(circle)***

**\_\_ 12 1321 22 2331 32 33 Other \_\_\_\_\_\_\_\_\_\_\_\_** | **Front Seating Positions Only (i.e., 12, 13)** |
| 1. Right frontal airbag?
 | 1 O Yes 2 O No ***(Skip to Q8 )*** |
| 1. Air bag switch?
 | 1 O On 2 O Off 3 O Not available |
| 1. Location of child (or CRS, if used)
 | 1 O Vehicle seat 2 O Floor 3 O Lap of occupant 4 O Other |
| 1. Restraint type used?
 | 1 O CRS/device 2 O Seat belt only ***(Skip to Q12)*** 3 O None ***(Skip to vehicle form)***  |
| 1. CRS type/mode used?
 | 1 O Infant seat with base 6 O Backless BP booster2 O Infant seat with no base 7 O Shield booster3 O RF convertible/all-in-one 8 O Car bed4 O FF with harness/shield 9 O Vest5 O Highback BP booster (no harness) 10 O Other device |
| 1. Does the CRS have a harness?
 | 1 O Yes ***(Skip to Q22****)* 2 O No ***(complete the following section)*** |
| **Booster Seats or Adult Seat Belts *– While Child Restrained*** |
| 1. Booster: Is the seat belt routed through the belt-positioning guides/channels?
 | 1 O Yes 2 O No 3 O NA/No booster 4 O Unknown |
| 1. Is the seat belt buckled?
 | 1 O Yes 2 O No 3 O Unknown |
| 1. Is the child's head supported?
 | 1 O Yes, CRS supports head 3 O No, head is above vehicle seat back2 O Yes, vehicle supports head 4 O Unknown |
| 1. Is the child sitting against seat back?
 | 1 O Yes, against CRS 3 O No, child leaning forward/slouching2 O Yes, against vehicle seat back 4 O Unknown |
| 1. Is the shoulder belt loose/slack?
 | 1 O Yes 2 O No 3 O NA/no shoulder belt 4 O Unknown |
| 1. Shoulder belt position
 | 1 O Over body--centered on shoulder 5 O Behind arm or back2 O Over body--touching shoulder 6 O NA/no shoulder belt 3 O Over body--below shoulder/around arm 7 O Unknown4 O Over body--above shoulder at neck/face |
| 1. Adjustable D-ring on shoulder belt?
 | 1 O Yes 2 O No 3 O NA/no shoulder belt 4 O Unknown |
| 1. Is the lap belt loose/slack?
 | 1 O Yes 2 O No 3 O NA/no shoulder belt 4 O Unknown |
| 1. Lap belt position
 | 1 O Across hips/thighs 3 O NA/lap belt not used 2 O Across abdomen/ribcage 4 O Unknown |
| 1. Booster: Does the booster have a lower anchor connector?
 | 1 O Yes ***(Skip to Q61)*** 3 O NA/no booster ***(Skip to Q68)***2 O No ***(Skip to Q68)*** 4 O Unknown ***(Skip to Q68)*** |
| **All RF and FF harnessed CRSs – Harness Type and Use *– While Child Restrained*** |
| 1. Harness/shield type on CRS
 | 1 O 3-point/V type 3 O T-shield 2 O 5-point 4 O Tray-shield |
| 1. Is the harness or shield *in use*?
 | 1 O Yes 2 O No 3 O Unknown |
| 1. Is the harness strap buckled?
 | 1 O Yes 2 O No, 1 or more unbuckled 3 O Unknown |
| 1. Retainer/chest clip *available?*
 | 1 O Yes 2 O No ***(Skip to Q27)*** |
| 1. Is the harness retainer/chest clip *used*?
 | 1 O Used, chest/armpit 4 O Not used2 O Used, abdomen 5 O Unknown3 O Used, neck level |
| 1. Position of the harness straps
 | 1 O Both straps over shoulders/body 3 O Unknown2 O 1 or more straps behind arm/back/leg |
| 1. Snugness of harness straps
 | 1 Amount of slack when pinched \_\_\_\_\_\_ cm ***(Enter 0 if no slack)*** |
| 1. Twisted harness strap(s)
 | 1 O Yes 2 O No |
| 1. Type of harness slots?
 | 1 O Sliding adjustment – no slots 4 O Slots – lowest used2 O Slots – uppermost used 5 O Slots – different levels used3 O Slots – middle used |
| 1. Where is the harness opening in relation to the child's left shoulder?
 | 1 O At the left shoulder 3 O Below the left shoulder: \_\_\_\_\_\_cm 2 O Above the left shoulder: \_\_\_\_\_\_ cm 4 O Unknown |
| 1. … right shoulder?
 | 1 O At the right shoulder 3 O Below the right shoulder: \_\_\_\_\_ cm 2 O Above the right shoulder: \_\_\_\_\_ cm 4 O Unknown |
| 1. Where is the top of the child's head in relation to the top of the CRS?
 | 1 O At the top 3 O Below the top: \_\_\_\_\_\_\_\_ cm 2 O Above the top: \_\_\_\_\_\_\_ cm 4 O Unknown |
| 1. Top of the ears above the shell of the CRS?
 | 1 O Yes 2 O No 3 O Unknown |

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| **All RF and FF harnessed seats – *Installation*** |

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| 1. Direction of CRS
 | 1 O Rear-facing 4 O Side-facing2 O Forward-facing 5 O Other3 O Supine (facing up) |
| 1. Does CRS base footprint hang over the vehicle seat?
 | 1 O Yes (***Take measurements)*** 2 O No Length of CRS base (front to back) \_\_\_\_\_\_\_\_\_ cmLength of CRS base that is off the vehicle seat \_\_\_\_\_\_\_\_\_ cm |
| 1. What is the lower attachment of the CRS to the vehicle?
 | 1 O Lower anchor strap(s) 4 O Other method of attachment2 O Seat belt for this seating position 5 O Integrated3 O Both LA and SB for this seating pos 6 O Not attached |
| 1. How much does CRS move laterally when pushed or pulled at the belt path?
 | 1 Amount of movement at base \_\_\_\_\_\_\_ cm ***(Note: do not move CRS more than 8 cm)*** |
| 1. FF only: Is the CRS against the vehicle seat back? ***(All that apply)***
 | 1 [ ]  Yes, most of CRS contacts vehicle seat 2 [ ]  No, seat back contour3 [ ]  No, head restraint interference 4 [ ]  NA/RF seat5 [ ]  No, other \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. RF only: Is the back of the CRS touching the front seat?
 | 1 O Yes 2 O No 3 O NA/FF seat |  |
| 1. Amount of recline in child seat?
 | 1 O upright – not reclined 4 O approx 45 degrees2 O up to 30 degrees 5 O more than 45 degrees3 O between 30-45 |
| 1. Method used to adjust angle?
 | 1 [ ]  None or not reclined 2 [ ]  Rolled towel(s)3 [ ]  CR’s angle adjustor 4 [ ]  Noodle(s)5 [ ]  Other method (not part of CRS) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **All RF and FF harnessed seats – *CRS hardware and tether use***  |
| 1. Lower attachment type *available* on the CRS
 | 1 O Flexible strap 3 O Unknown2 O Rigid 4 O None ***(Skip to Q46)*** |
| 1. Lower connector type
 | 1 O Hook-on 3 O Unknown2 O Push-on 4 O None |
| 1. Lower connector adjustment
 | 1 O Latchplate 3 O Automatic (e.g., SureLATCH)2 O Button-release 4 O Unknown |
| 1. Top tether adjustment
 | 1 O Latchplate 2 O Button-release 3 O Unknown |
| 1. Top tether *in use*?
 | 1 O Yes 2 O No ***(Skip to Q52)*** |
| 1. Top tether tightness
 | 1 Amount of slack in tether when pinched \_\_\_\_\_\_\_\_\_\_\_ cm ***(Enter 0 if none)*** |
| 1. What is the tether attached to?
 | 1 O Tether anchor for this seating position 2 O Tether anchor for another SP3 O Secure location in front (Swedish) 4 O Locked seat belt in back5 O Not attached to anything 6 O Other attachment \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. How is the top tether strap routed?
 | 1 O Over integral/no head restraint 4 O Under adjustable head restraint2 O Over raised adjustable head restraint 5 O Around headrest 3 O Over down adjustable head restraint 6 O Other routing \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. Top tether strap twisted?
 | 1 O Yes 2 O No |
| **All Seat Belt Installed CRSs** |
| 1. Seat belt used to install?
 | 1 O Yes ***(Complete this section)*** 2 O No ***(Skip to Q61)*** |
| 1. Seat belt routing
 | 1 O Forward-facing slots/channels 3 O Other unconventional routing2 O Rear-facing slots/channels 4 O Unknown |
| 1. Is the seat belt twisted?
 | 1 O Yes 2 O No 3 O Unknown |
| 1. Is the seat belt buckled?
 | 1 O Yes 2 O No 3 O Unknown |
| 1. Latch plate type on seat belt
 | 1 O Sliding 4 O Locking or lightweight locking2 O Switchable-locked 5 O Sewn-on3 O Switchable-not locked 6 O Unknown |
| 1. Use of locking clip
 | 1 O None present 4 O Used only on lap2 O Used on lap/shoulder, within 1 in 5 O Used only on shoulder3 O Used on lap/shoulder, > 1 in 6 O Other use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. Seat belt retractor
 | 1 O Locked (ALR mode) 2 O Not locked (ELR mode) 3 O Unknown |
| 1. CRS lockoff *available*?
 | 1 O Yes 2 O No ***(Skip to Q61)*** 3 O Unknown ***(Skip to Q61)*** |
| 1. CRS lockoff *in use*?
 | 1 O Yes 2 O No 3 O Unknown |
| **All LATCH Installed CRSs** |
| 1. Lower anchor(s) used to install?
 | 1 O Yes ***(Complete this section)*** 2 O No ***(Skip to 68)*** |
| 1. LATCH strap routing
 | 1 O Forward-facing slots/channels 4 O Unknown2 O Rear-facing slots/channels 5 O NA – rigid with no strap3 O Other unconventional routing |
| 1. Is the LATCH strap twisted?
 | 1 O Yes 3 O Unknown2 O No 4 O NA – rigid with no strap |
| 1. *Left* connector attached to?
 | 1 O Left lower anchor for SP 3 O Something other than LA2 O Other lower anchor 4 O Not attached to anything |
| 1. *Right* connector attached to?
 | 1 O Right lower anchor for SP 3 O Something other than LA2 O Other lower anchor 4 O Not attached to anything |
| 1. Are the connectors attached with the correct side up?
 | 1 O Yes, correct side up 3 O No, not attached2 O No, one or more upside-down 4 O Unknown |
| 1. Are there multiple CRS attached to the lower anchors?
 | 1 O Yes 2 O No 3 O Unknown |
| **All RF seat, FF seat, or booster - *CRS Labels and Other Issues*** |
| 1. Is the child sitting in any type of CRS (harnessed or booster)?
 | 1 O Yes ***(Complete this section)*** 2 O No *(****Skip to vehicle form****)* |
| 1. Does the CRS have a label?
 | 1 O Yes, visible ***(Complete this section)*** 2 O Yes, but not visible ***(Skip to Q77)***  3 O No ***(Skip to Q77)*** |
| 1. CRS Make or Manufacturer
 | 1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2 [ ]  Not able to observe or missing |
| 1. CRS Model
 | 1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2 [ ]  Not able to observe or missing |
| 1. CRS Model #
 | 1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2 [ ]  Not able to observe or missing |
| 1. Rear-facing limits
 | 1 Lower height: \_\_\_\_\_\_\_\_\_ inches 3 Lower weight: \_\_\_\_\_\_\_\_\_ pounds2 Upper height: \_\_\_\_\_\_\_\_\_ inches 4 Upper weight: \_\_\_\_\_\_\_\_\_ pounds |
| 1. Forward-facing limits
 | 1 Lower height: \_\_\_\_\_\_\_\_\_ inches 3 Lower weight: \_\_\_\_\_\_\_\_\_ pounds2 Upper height: \_\_\_\_\_\_\_\_\_ inches 4 Upper weight: \_\_\_\_\_\_\_\_\_ pounds |
| 1. Highback booster limits
 | 1 Lower height: \_\_\_\_\_\_\_\_\_ inches 3 Lower weight: \_\_\_\_\_\_\_\_\_ pounds2 Upper height: \_\_\_\_\_\_\_\_\_ inches 4 Upper weight: \_\_\_\_\_\_\_\_\_ pounds |
| 1. Backless booster limits
 | 1 Lower height: \_\_\_\_\_\_\_\_\_ inches 3 Lower weight: \_\_\_\_\_\_\_\_\_ pounds2 Upper height: \_\_\_\_\_\_\_\_\_ inches 4 Upper weight: \_\_\_\_\_\_\_\_\_ pounds |
| 1. Is there visible damage to the restraint? ***(All that apply)***
 | 1 [ ]  Cracked/broken shell 2 [ ]  Torn padding 3 [ ]  Broken/frayed harness 4 [ ]  No visible damage5 [ ]  Other visible damage \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. Are there any aftermarket products used with the CRS? ***(All that apply)***
 | 1 [ ]  Belt tightener/Mighty Tite 4 [ ]  Aftermarket seat cover2 [ ]  Padding between child and CRS 5 [ ]  Toys/items attached to CRS3 [ ]  Padding between CRS and vehicle seat 6 [ ]  No aftermarket device (other than noodles/rolled towels) 7 [ ]  Other aftermarket device \_\_\_\_\_\_\_ |