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| Triskel  United States Department of Transportation  National Highway Traffic Safety Administration | | Inspection FormRestraints *(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 | | |
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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 13 21 22 23 31 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 booster  2 O Infant seat with no base 7 O Shield booster  3 O RF convertible/all-in-one 8 O Car bed  4 O FF with harness/shield 9 O Vest  5 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 back  2 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/slouching  2 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 back  2 O Over body--touching shoulder 6 O NA/no shoulder belt  3 O Over body--below shoulder/around arm 7 O Unknown  4 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 used  2 O Used, abdomen 5 O Unknown  3 O Used, neck level | | | | |
| 1. Position of the harness straps | 1 O Both straps over shoulders/body 3 O Unknown  2 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 used  2 O Slots – uppermost used 5 O Slots – different levels used  3 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-facing  2 O Forward-facing 5 O Other  3 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) \_\_\_\_\_\_\_\_\_ cm  Length 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 attachment  2 O Seat belt for this seating position 5 O Integrated  3 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 contour  3  No, head restraint interference 4  NA/RF seat  5  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 degrees  2 O up to 30 degrees 5 O more than 45 degrees  3 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 Unknown  2 O Rigid 4 O None ***(Skip to Q46)*** |
| 1. Lower connector type | 1 O Hook-on 3 O Unknown  2 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 SP  3 O Secure location in front (Swedish) 4 O Locked seat belt in back  5 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 restraint  2 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 routing  2 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 locking  2 O Switchable-locked 5 O Sewn-on  3 O Switchable-not locked 6 O Unknown |
| 1. Use of locking clip | 1 O None present 4 O Used only on lap  2 O Used on lap/shoulder, within 1 in 5 O Used only on shoulder  3 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 Unknown  2 O Rear-facing slots/channels 5 O NA – rigid with no strap  3 O Other unconventional routing |
| 1. Is the LATCH strap twisted? | 1 O Yes 3 O Unknown  2 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 LA  2 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 LA  2 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 attached  2 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: \_\_\_\_\_\_\_\_\_ pounds  2 Upper height: \_\_\_\_\_\_\_\_\_ inches 4 Upper weight: \_\_\_\_\_\_\_\_\_ pounds |
| 1. Forward-facing limits | 1 Lower height: \_\_\_\_\_\_\_\_\_ inches 3 Lower weight: \_\_\_\_\_\_\_\_\_ pounds  2 Upper height: \_\_\_\_\_\_\_\_\_ inches 4 Upper weight: \_\_\_\_\_\_\_\_\_ pounds |
| 1. Highback booster limits | 1 Lower height: \_\_\_\_\_\_\_\_\_ inches 3 Lower weight: \_\_\_\_\_\_\_\_\_ pounds  2 Upper height: \_\_\_\_\_\_\_\_\_ inches 4 Upper weight: \_\_\_\_\_\_\_\_\_ pounds |
| 1. Backless booster limits | 1 Lower height: \_\_\_\_\_\_\_\_\_ inches 3 Lower weight: \_\_\_\_\_\_\_\_\_ pounds  2 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 damage  5  Other visible damage \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. Are there any aftermarket products used with the CRS? ***(All that apply)*** | 1  Belt tightener/Mighty Tite 4  Aftermarket seat cover  2  Padding between child and CRS 5  Toys/items attached to CRS  3  Padding between CRS and vehicle seat 6  No aftermarket device  (other than noodles/rolled towels) 7  Other aftermarket device \_\_\_\_\_\_\_ |