

सड़क वाहन — चाइल्ड रिस्ट्रेन सिस्टम के
दुरुपयोग के जोखिम को कम करना
भाग 1 क्षेत्र अध्ययन के लिए फॉर्म

Road Vehicles — Reduction of
Misuse Risk of Child Restraint
Systems
Part 1 Forms for Field Studies

ICS 43.040.80

© BIS 2024
© ISO 2006



भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS
मानक भवन, 9 बहादुर शाह ज़फर मार्ग, नई दिल्ली - 110002
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI - 110002

www.bis.gov.in www.standardsbis.in

NATIONAL FOREWORD

This Indian Standard which is identical to ISO 13215-1 : 2006 'Road vehicles — Reduction of misuse risk of child restraint systems — Part 1: Forms for field studies' issued by International Organization for Standardization (ISO), was adopted by the Bureau of Indian Standards on the recommendation of the Passive Safety Crash Protection Systems Sectional Committee and approval of the Transport Engineering Division Council.

This standard is one of the parts on 'Road vehicles — Reduction of misuse risk of child restraint systems'. other parts of this standard are:

Part 2 Requirements and test procedures for correct installation (panel method)

Part 3 Prediction and assessment of misuse by misuse mode and effect analysis (MMEA)

The text of ISO standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'; and
- b) Comma (,) has been used as a decimal marker, while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

Attention is drawn to the possibility that some of the elements of this standard may be the subject of patent rights. The Bureau of Indian Standards shall not be held responsible for identifying any or all such patent rights.

Contents

Page

Introduction	iv
1 Scope	1
2 Terms and definitions	1
3 Instructions	1
3.1 General	1
3.2 Recommendations regarding accomplishment of the field study	2
4 Instructions for completion of the forms	2
5 Assessment of results	2
6 Assessment cases	3
7 Related electronic documents	3
Annex A (informative) Sample collection and report forms	4
Bibliography	12

Introduction

Whether or not adequate protection is provided to a child occupant in a vehicle crash depends not only on the inherent capability of the child restraint system to provide protection, but also on its proper installation and subsequent correct use. Today it is known that certain misuse configurations and interface problems can have serious consequences for child occupants in vehicle crashes.

A clear understanding of the kind and frequency of incorrect use has important implications for the design of child restraint systems and instructions for use, the vehicle in which they are used, education and loan programs, and legislation.

Indian Standard

**ROAD VEHICLES — REDUCTION OF MISUSE RISK OF
CHILD RESTRAINT SYSTEMS
PART 1 FORMS FOR FIELD STUDIES**

1 Scope

This part of ISO 13215 specifies a basic methodology, including sample forms, for collection of data concerning misuse of child restraint systems in field studies. The purpose of using standardized forms is to provide a tool for quantification of misuse related to common misuse parameters, and to facilitate the exchange of data between different parties, thus making the results easily available for analysis. By using the sample forms provided, some main misuse configurations for several different groups of child restraint systems can be determined.

NOTE For further evaluation of the misuse risk of a specific child restraint system, ISO 13215-2 and ISO 13215-3 can be used.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1

child restraint system

CRS

any free-standing device intended to provide child vehicle occupants with an approved restraint

NOTE CRS comprise various categories, such as car beds, infant restraints, toddler seats, booster cushions and booster seats. Combination products may cover two or more of these product categories.

2.2

misuse of child restraint systems

any deviation from intended application and use which might reduce the protective performance of the child restraint system

3 Instructions

3.1 General

Annex A consists of two forms for general information, and five forms covering various application examples for common CRS types. The different forms have the same general layout. Typical child mass ranges are given for reference.

NOTE The forms presented are examples for common CRS types. While the forms may not fully cover the needs for a typical CRS, they can serve as a support for development of more specific layouts. In general, the main intention is to provide all variables needed to perform a CRS field study on misuse, and to facilitate the assessment and comparison of incorrect use of child restraint systems for different markets.

3.2 Recommendations regarding accomplishment of the field study

3.2.1 The observations should be performed by experienced persons, with the ability to distinguish between correct and incorrect installations of the respective CRS types and models.

3.2.2 The observations should be carried out at suitable selected areas, such as parking areas, shopping centres, roadside restaurants, zoos.

3.2.3 The observations should preferably be performed both in urban areas (short driving distances) and rural areas (longer driving distances).

NOTE In addition to the above, it is presumed that the observations are performed in a safe and ethical manner according to instructions and guidelines of the performing organization.

4 Instructions for completion of the forms

The forms (see Annex A) shall be filled out as follows:

- Seating position in vehicle: Enter the two-digit seating code for the actual child restraint system in accordance with the figure.
- Installation parameters (forms C to G):
 - If correct use applies: Enter a check mark (e.g. “X”, or “0”) in the first square (marked as bold);
 - If a misuse mode applies: Enter a check mark (not “0”) in the corresponding misuse mode square. In case the misuse mode can be quantified by the observer, an error score between 2 and 10 (see below) can be entered directly in the appropriate square.

Each separate misuse mode should be judged with an individual error score (a weighted value between 2 and 10). The value of each error score should be based on the probability and potential severity of injury caused by incorrect use of that particular aspect. Minor errors are scored “2”; the more serious the error, the higher the score (up to and including “10”). For correct use, the “error” score is always “0”.

The judgement of error scores can either be made by the time of checking the restraint installations, or afterwards.

5 Assessment of results

The total score of a CRS in a field study is obtained by adding the error scores of the different aspects. Total scores far in excess of “10” are possible.

The scale used to translate this total score into a final assessment can be divided in four categories:

- 0 points: Correct use;
- 2 to 4 points: Acceptable slight misuse;
- 5 to 9 points: Serious misuse;
- ≥ 10 points: Very serious misuse.

6 Assessment cases

6.1 All aspects are correct, the total score is “0”. Assessment: Correct use.

6.2 Only one or two aspects of minor severity (value “2”) is incorrect, the total score is “2” or “4”. Assessment: Acceptable slight misuse.

6.3 Three or more minor errors are detected, the total score is more than “4” but less than “10”. Assessment: Serious misuse.

6.4 One or more very serious errors are found, the total score is “10” or more. Assessment: Very serious misuse.

7 Related electronic documents

To enhance the value and applicability of this part of ISO 13215, the forms found in Annex A are provided in a revisable (MS Excel) format.

These forms are posted on the ISO Standards maintenance web site, and can be found at the following URL:
<http://standards.iso.org/iso/13215/-1>.

Annex A (informative)

Sample collection and report forms

The forms below are presented on the following pages.

General information forms:

Form A: General information

Form B: General information — Questions for all occupants

Specific child restraint evaluation forms:

Form C: Carry-cots/car-beds (up to 10 kg)

Form D: Infant restraints (up to 13 kg)

Form E: Rearward or forward facing infant/child seats (up to 25 kg)

Form F: Child safety seats with harnesses or harness/shield combinations (9 kg to 25 kg)

Form G: Booster cushions/seats, backless shield boosters (15 kg to 36 kg)

General Information

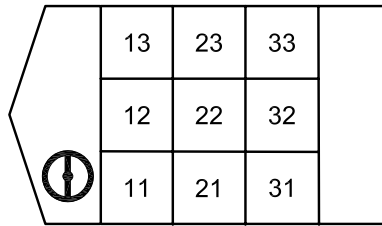
ID: _____

Observer: _____

<u>General interview data:</u>	<u>Vehicle and occupant data:</u>
Date: _____	Model: _____
Day: Su M Tu W Th F Sa	Type: _____
Road conditions: Dry Wet Snow Ice	Model year: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Start time: _____ am/pm	Number of doors (2 or 4): <input type="checkbox"/>
End time: _____ am/pm	Number of occupants: <input type="text"/> <input type="text"/>
General area data: _____	
Area type: _____	(Shopping centre, roadside restaurant, zoo, etc.)
Location: _____	
Place: _____	
Country: _____	
If possible, describe details of the travel (shopping, weekend trip, holiday): _____	
General remarks: _____	
Begin a new general observation sheet for each study. If a vehicle has more than one CRS, use the applicable evaluation form (C to G) for each CRS.	

General Information

Child occupants
Safety-related features
CRS use and non-use



ID: _____

Observer: _____

Positions to be mirror-imaged for right-hand drive

	Driver	1 st child	2 nd child	3 rd child	4 th child
Seating position:	<input type="checkbox"/> 1 <input type="checkbox"/> 1	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Driving distance, this trip (km):	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				
Sex: 1=male 2=female	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Age: AA=0 to 9 months BB=9 to 12 months CC=12 to 18 months 01 = 1 year, etc.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Height (cm):		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Mass (kg):		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Safety-related features Coding below: 1=yes 2=no					
Seat equipped with airbag	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 8	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Airbag type: 1=Front 2=Side 3=Curtain	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Airbag switch-off (auto or manual)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 8	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Airbag status: 1=on 2=off	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 8	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
ISOFIX/LATCH anchorages	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 8	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Switchable retractor, ELR/ALR	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 8	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Built-in (integrated) CRS	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 8	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Other (specify):					
Child seat use	Driver	1st child	2nd child	3rd child	4th child
Child seat is: 1=bought new 2=bought second-hand 3=other: _____	<input type="checkbox"/> 8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
By whom installed: 1=private 2=professional	<input type="checkbox"/> 8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Instructions: 1=permanently attached 2=separate, loose 3=not available	<input type="checkbox"/> 8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Child seat non-use (loose, in adult belt, in lap of adult, etc.)					

8=not applicable

ID: _____

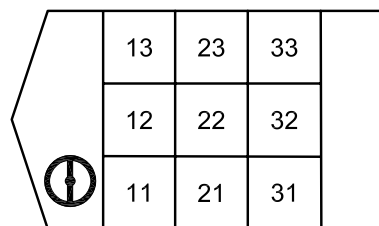
Observer: _____

**Carry-cots/car beds (up to 10 kg)
ECE Group 0 or similar**

If right-hand drive, mirror image

A. Seating position code (see figure)

If CRS is also occupying the nearby seat:



Seating position codes

B. Installation configuration

B1=as intended

B2=other than intended (e.g. forward facing)

B3=child seat incompatible with child

C. Attachment with vehicle seatbelt

← OR →

C1=correctly used

C2=not used

C3=wrong routing of vehicle seatbelt

C4=excessive slack in vehicle seatbelt

C5=belt clip/guide applicable but not used

C6=wrong positioning of seatbelt buckle

C7=top tether applicable but not used

C8=lower tether applicable but not used

C9=support leg applicable but not used

C10=child seat not locked in base

D. Attachment with ISOFIX/LATCH/UAS

D1=correctly used

D2=not used

D3=partially used (one of two)

D4=top tether applicable but not used

D5=lower tether applicable but not used

D6=support leg applicable but not used

D7=brace arm not tightened

D8=adjustment mechanism not adjusted

D9=child seat not locked in base

N/A

E. Specific belts

E1=correctly used

E2=not used

E3=wrong routing of specific belts

E4=used with excessive slack

F. Safety net

F1=completely closed

F2=partially closed

F3=not closed

G. Child support

G1=newborn supported on sides

G2=newborn not supported on sides

H. Misuse possible to correct (y/n)

If no, please state: _____

--

Assessment of misuse	
For each misuse configuration, apply an individual error score (es) from 2 (minor) to 10 (severe). Example: C3(es6)+E3(es4)+G2(es3) Total error score = 13 (≥10) Assessment: Very serious misuse	
Misuse configuration code	Error score
Total error score:	
Assessment (see below):	

Assessment scale	
0 points:	correct use
1 to 4 points:	acceptable/slight misuse
5 to 9 points:	serious misuse
≥ 10 points:	very serious misuse

I. Additional information (Examples: Shell cracked, frame bent or damaged? Padding or lining missing?)

Manufacturer:	Approval number:
Type:	Type approval/compliance label: Yes/No

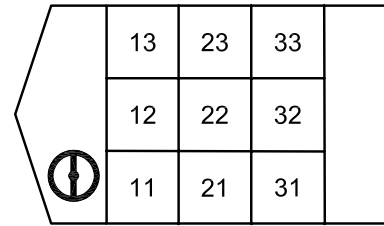
ID: _____

Observer: _____

FORM D

**Infant restraints (up to 13 kg)
 (reclined / upright position)
 ECE Group 0/0+ or similar**

If right-hand drive, mirror image



Seating position codes

A. Seating position code (see figure)

--	--

B. Installation configuration

- B1=as intended (in most cases rearfacing)
- B2=other than intended (e.g. forward facing)
- B3=child seat incompatible with child

C. Attachment with vehicle seatbelt

- C1=correctly used
- C2=not used
- C3=wrong routing of vehicle seatbelt
- C4=excessive slack in vehicle seatbelt
- C5=belt clip/guide applicable but not used
- C6=wrong positioning of seatbelt buckle
- C7=top tether applicable but not used
- C8=lower tether applicable but not used
- C9=support leg applicable but not used
- C10=child seat not locked in base

← OR →

D. Attachment with ISOFIX/LATCH/UAS

- D1=correctly used
- D2=not used
- D3=partially used (one of two)
- D4=top tether applicable but not used
- D5=lower tether applicable but not used
- D6=support leg applicable but not used
- D7=brace arm not tightened
- D8=adjustment mechanism not adjusted
- D9=child seat not locked in base

E. Child seat harness

- E1=buckle closed and visible
- E2=not used
- E3=buckle partially used

F. Harness adjustment

- F1=straps comfortably tight, no slack
- F2=wrong shoulder height adjustment
- F3=straps incorrectly routed in back
- F4=adjuster(s) wrongly threaded
- F5=fittings/hardware into contact with skin
- F6=Y-harness clip not used

G. Child support

- G1=newborn supported on sides
- G2=newborn not supported on sides

H. Recline angle

- H1=comfortable angle
- H2=too reclined, infant lies too flat
- H3=too upright, infant's head falls forward

Assessment of misuse	
For each misuse configuration, apply an individual error score (es) from 2 (minor) to 10 (severe).	
Example: C3(es6)+E4(es4)+H3(es3) Total error score = 13 (≥10)	
Assessment: Very serious misuse	
Misuse configuration code	Error score
Total error score:	
Assessment (see below):	

Assessment scale	
0 points:	correct use
1 to 4 points:	acceptable/slight misuse
5 to 9 points:	serious misuse
≥ 10 points:	very serious misuse

I. Misuse possible to correct (y/n)
 If no, please state: _____

J. Additional information (Examples: Shell cracked, frame bent or damaged? Padding or lining missing?)

Manufacturer:	Approval number:
Type:	Type approval/compliance label: Yes/No

ID: _____

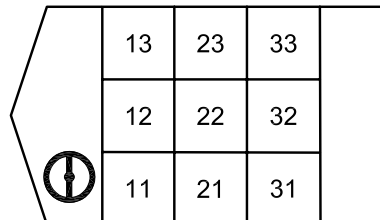
Observer: _____

**Rearward facing or forward facing infant/child seats (up to 25 kg)
Combination/convertible infant/child seats
ECE Group 0+//II or similar**

If right-hand drive, mirror image

A. Seating position code (see figure)

--	--



B. Installation configuration
B1=as intended, direction

--

B2=other than intended, direction

--

B3=child seat incompatible with child

--

C. Attachment with vehicle seatbelt ← OR →
C1=correctly used

--

C2=not used

--

C3=wrong routing of vehicle seatbelt

--

C4=excessive slack in vehicle seatbelt

--

C5=belt clip/guide applicable but not used

--

C6=wrong positioning of seatbelt buckle

--

C7=top tether applicable but not used

--

C8=lower tether applicable but not used

--

C9=support leg applicable but not used

--

C10=child seat not locked in base

--

D. Attachment with ISOFIX/LATCH/UAS
D1=correctly used

--

D2=not used

--

D3=partially used (one of two)

--

D4=top tether applicable but not used

--

D5=lower tether applicable but not used

--

D6=support leg applicable but not used

--

D7=brace arm not tightened (rear facing CRS)

--

D8=adjustment mechanism not adjusted

--

D9=child seat not locked in base

--

E. Additional strap(s) (if required other than lower and top tether ISOFIX/LATCH/UAS)
E1=correctly used/not applicable

--

E2=not used

--

E3=extra strap(s) attached to wrong detail

--

E4=belt adjusters wrongly threaded

--

E5=used with excessive slack

--

Assessment of misuse	
For each misuse configuration, apply an individual error score (es) from 2 (minor) to 10 (severe).	
Example: C3(es6)+E4(es4)+G2(es3) Total error score = 13 (≥10)	
Assessment: Very serious misuse	
Misuse configuration code	Error score
Total error score: _____	
Assessment (see below): _____	

F. Child seat harness
F1=buckle closed and visible

--

F2=buckle partially closed

--

F3=buckle riding up

--

F4=harness clip applicable but not used

--

Assessment scale	
0 points:	correct use
1 to 4 points:	acceptable/slight misuse
5 to 9 points:	serious misuse
≥ 10 points:	very serious misuse

G. Harness adjustment
G1=straps comfortably tight, no slack

--

G2=wrong shoulder height adjustment

--

G3=straps incorrectly routed in back

--

G4=adjuster(s) wrongly threaded

--

G5=fittings/hardware into contact with skin

--

H. Misuse possible to correct (y/n)

--

 If no, please state: _____

I. Additional information (Examples: Shell cracked, frame bent or damaged? Padding or lining missing?)

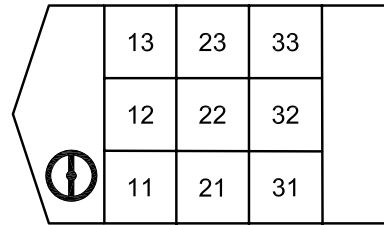
Manufacturer: _____	Approval number: _____
Type: _____	Type approval/compliance label: Yes/No

ID: _____

Observer: _____

**Child safety seats with harness or harness/shield combinations (9 kg to 25 kg, reclined/upright position)
 ECE Group I/II or similar**

If right-hand drive, mirror image



Seating position codes

A. Seating position code (see figure)

--	--

B. Installation configuration

B1=as intended

--

B2=other than intended

--

B3=child seat incompatible with child

--

C. Attachment with vehicle seatbelt

← OR →

C1=correctly used

--

C2=not used

--

C3=wrong routing of vehicle seatbelt

--

C4=excessive slack in vehicle seatbelt

--

C5=belt clip/guide applicable but not used

--

C6=wrong positioning of seatbelt buckle

--

C7=top tether applicable but not used

--

C8=lower tether applicable but not used

--

C9=support leg applicable but not used

--

C10=child seat not locked in base

--

D. Attachment with ISOFIX/LATCH/UAS

D1=correctly used

--

D2=not used

--

D3=partially used (one of two)

--

D4=top tether applicable but not used

--

D5=lower tether applicable but not used

--

D6=support leg applicable but not used

--

D7=brace arm not tightened

N/A

D8=adjustment mechanism not adjusted

--

D9=child seat not locked in base

--

E. Additional strap(s) (if required other than lower and top tether ISOFIX/LATCH/UAS)

E1=correctly used/not applicable

--

E2=not used

--

E3=extra strap(s) attached to wrong detail

--

E4=belt adjusters wrongly threaded

--

E5=used with excessive slack

--

F. Child seat harness or harness/shield combination

F1=buckle closed and visible

--

F2=buckle partially closed

--

F3=buckle riding up

--

F4=harness clip applicable but not used

--

F5=shield applicable but not used, or misused

--

G. Harness adjustment

G1=straps comfortably tight, no slack

--

G2=wrong shoulder height adjustment

--

G3=straps incorrectly routed in back

--

G4=adjuster(s) wrongly threaded

--

G5=fittings/hardware into contact with skin

--

Assessment of misuse

For each misuse configuration, apply an individual error score (es) from 2 (minor) to 10 (severe).

Example: C3(es6)+E4(es4)+G2(es3)

Total error score = 13 (≥10)

Assessment: Very serious misuse

Misuse configuration code	Error score
Total error score:	
Assessment (see below):	

Assessment scale

0 points: correct use

1 to 4 points: acceptable/slight misuse

5 to 9 points: serious misuse

≥ 10 points: very serious misuse

H. Misuse possible to correct (y/n)

--

If no, please state: _____

I. Additional information (Examples: Shell cracked, frame bent or damaged? Padding or lining missing?)

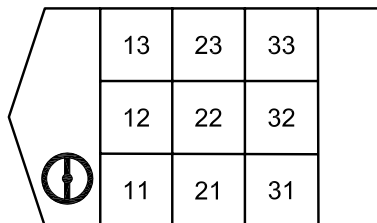
Manufacturer:	Approval number:
Type:	Type approval/compliance label: Yes/No

ID: _____

Observer: _____

**Booster cushions/seats
Backless shield booster (15 kg to 36 kg)
ECE Group II/III or similar**

If right-hand drive, mirror image



A. Seating position code (see figure)

B. Installation configuration
B1=as intended
B2=other than intended
B3=child seat incompatible with child

C. Attachment with vehicle seatbelt **← OR →**
C1=correctly used
C2=not used
C3=wrong routing of vehicle seatbelt
C4=excessive slack in vehicle seatbelt
C5=diagonal belt behind child
C6=diagonal belt under arm of child
C7=diagonal belt twisted
C8=lap belt twisted
C9=wrong positioning of seatbelt buckle
C10=seatbelt guides not used

Seating position codes

D. Attachment with ISOFIX/LATCH/UAS
D1=correctly used
D2=not used
D3=partially used (one of two)
D4=top tether applicable but not used
D5=lower tether applicable but not used
D6=support leg applicable but not used
D7=brace arm not tightened
D8=adjustment mechanism not adjusted
D9=child seat not locked in base
 NOTE D is not applicable to ECE approved child seats.

E. Impact shield
E1=correctly used
E2=impact shield applicable but not used
E3=impact shield wrongly mounted

F. Misuse possible to correct (y/n)
 If no, please state: _____

Assessment of misuse	
For each misuse configuration, apply an individual error score (es) from 2 (minor) to 10 (severe). Example: C3(es6)+C6(es4)+E3(es3) Total error score = 13 (≥10)	
Assessment: <i>Very serious misuse</i>	
Misuse configuration code	Error score
Total error score:	
Assessment (see below):	

Assessment scale	
0 points:	correct use
1 to 4 points:	acceptable/slight misuse
5 to 9 points:	serious misuse
≥ 10 points:	very serious misuse

G. Additional information (Examples: Shell cracked, frame bent or damaged? Padding or lining missing?)

Manufacturer:	Approval number:
Type:	Type approval/compliance label: Yes/No

Bureau of Indian Standards

BIS is a statutory institution established under the *Bureau of Indian Standards Act, 2016* to promote harmonious development of the activities of standardization, marking and quality certification of goods and attending to connected matters in the country.

Copyright

BIS has the copyright of all its publications. No part of these publications may be reproduced in any form without the prior permission in writing of BIS. This does not preclude the free use, in the course of implementing the standard, of necessary details, such as symbols and sizes, type or grade designations. Enquiries relating to copyright be addressed to the Head (Publication & Sales), BIS.

Review of Indian Standards

Amendments are issued to standards as the need arises on the basis of comments. Standards are also reviewed periodically; a standard along with amendments is reaffirmed when such review indicates that no changes are needed; if the review indicates that changes are needed, it is taken up for revision. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition by referring to the website-www.bis.gov.in or www.standardsbis.in.

This Indian Standard has been developed from Doc No.: TED 29 (23966).

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002

Telephones: 2323 0131, 2323 3375, 2323 9402

Website: www.bis.gov.in

Regional Offices:

	Telephones
Central : 601/A, Konnectus Tower -1, 6 th Floor, DMRC Building, Bhavbhuti Marg, New Delhi 110002	{ 2323 7617
Eastern : 8 th Floor, Plot No 7/7 & 7/8, CP Block, Sector V, Salt Lake, Kolkata, West Bengal 700091	{ 2367 0012 2320 9474
Northern : Plot No. 4-A, Sector 27-B, Madhya Marg, Chandigarh 160019	{ 265 9930
Southern : C.I.T. Campus, IV Cross Road, Taramani, Chennai 600113	{ 2254 1442 2254 1216
Western : Plot No. E-9, Road No.-8, MIDC, Andheri (East), Mumbai 400093	{ 2821 8093

Branches : AHMEDABAD. BENGALURU. BHOPAL. BHUBANESHWAR. CHANDIGARH. CHENNAI. COIMBATORE. DEHRADUN. DELHI. FARIDABAD. GHAZIABAD. GUWAHATI. HIMACHAL PRADESH. HUBLI. HYDERABAD. JAIPUR. JAMMU & KASHMIR. JAMSHEDPUR. KOCHI. KOLKATA. LUCKNOW. MADURAI. MUMBAI. NAGPUR. NOIDA. PANIPAT. PATNA. PUNE. RAIPUR. RAJKOT. SURAT. VISAKHAPATNAM.