

THE NETHERLANDS

TEST REPORT

Concerning vehicles equipped with safety-belts, safety-belt reminders, restraint systems, child restraint system, ISOFIX child restraint system and I-size child restraint systems in accordance with ECE Regulation number 16.08 Supplement 2.

Test report number : RDW-16R-0123069

0.1. Make : Renault / Nissan / Mercedes-Benz

0.2. Type : XFKT

0.3. Category of vehicle : M1-SH

0.4. Name and address of the manufacturer : Tripod Mobility B.V.
Collseweg 10
5674 TR Nuenen
The Netherlands

General : The vehicle type as described in the document below has been inspected in accordance with the requirements laid down in the above-mentioned regulation. See documentation: XFKT-14R-16R-17R- 0014, dated 25 April 2022

Tests : The tests have been carried out according to the above-mentioned regulation. The tested system/component/separate technical unit is representative in terms of the type to be approved.

Conclusion : The type of vehicle does/~~does not~~ comply with the stated requirements of the above-mentioned regulation.

Tests conducted on : 22 June 2022

By : C.A.M. Konings

Zoetermeer (NL), 28 November 2022
The test engineer,



Test Department



List of contents	Page
Reason for testing	3
Worst case description	3
General information of the representative test object	3
General test information	3
Used test equipment	3
Remarks	3
Requirements concerning the installation in the vehicle	4
Safety-belt and restraint systems equipment	4
General requirements	8
Special requirements for rigid parts incorporated in safety-belts or restraint systems	10
Safety-belt reminder equipment	12
Requirements for the installation of safety belts and restraints systems for the installation of ISOFIX and I-size Child Restraint System	13

List of attachments	Page
Attachment 1 Tested seating positions and suitability	14

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Reason for testing

1st Stage vehicle modified to Wheelchair accessible vehicle.

Explanation of modification(s)

The base vehicle has been modified to a wheelchair accessible vehicle with a lowered floor and wheelchair position. 2nd row of seats, two single seats. The wheelchair position is fitted with a restraint system which consists of a restraint system for the wheelchair and a restraint system for the wheelchair occupant. 1st row of seats is not affected by the changes.

Worst case description

The reviewed configurations are representative for all possible seating, wheelchair and wheelchair occupant positions.

General information of the representative test object

Make and type of the vehicle : Renault / Nissan / Mercedes-Benz XFKT
Body style : AF (SH)
Vehicle category : M1-SH
Vehicle Identification Number : VF1RFK00X67910688

Seat belts and/or restraint systems fitted to the vehicle

	Make of seat belt	Part number	Type of seat belt	Approval number
1th row seats	not affected by the modification; see 1 st stage approval			
2 nd row outboard (TR04S) single seat				
3 rd row, wheelchair	see information document	see information document	see information document	see information document

General test information

Test conducted by : C.A.M. Konings
Place : Nuenen (NL)
Date : 22 June 2022

Used test equipment

Item	Required accuracy	Identification
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Remarks

For all not by the modification effected items see approval(s)/ test report(s) listed in stage 1 approval. Relevant data and approval(s) valid for donor vehicle and completed vehicle if applicable:

<u>Make</u>	<u>Type</u>	<u>Approval</u>
Renault	RFK	E2*16R08/??*20437*..
Mercedes-Benz	MFK	E2*16R08/??*20440*..
Nissan	NFK	E2*16R08/??*21136*..



8. Requirements concerning the installation in the vehicle

8.1. Safety-belt and restraint systems equipment

8.1.1. With the exception of seating intended for use when the vehicle is stationary, all the seats shall be equipped with safety-belts or restraint systems which meet the requirements of this Regulation : pass

Only vehicles belonging to category M2 or M3 may be fitted with restraint systems comprising a flexible shoulder adjustment device for height : N/A

8.1.2. The correct types of safety-belts or restraint systems for each seating position where installation is required shall be those specified below : pass

Minimum requirements for safety-belts and Retractors ⁽¹⁾						
Vehicle category	Forward facing seating positions				Rearward Facing seating positions	Side-facing seating position
	Outboard seating positions		Centre seating position			
	Front	Other than front	Front	Other than front		
M ₁	Ar4m	Ar4m	Ar4m	Ar4m	B, Br3, Br4m	--
M ₂ < 3.5 t	Ar4m, Ar4Nm	Ar4m, Ar4Nm	Ar4m, Ar4Nm	Ar4m, Ar4Nm	Br3, Br4m, Br4Nm	--
M ₂ > 3.5 t	Br3, Br4m, Br4Nm, or Ar4m or Ar4Nm	Br3, Br4m, Br4Nm, or Ar4m or Ar4Nm	Br3, Br4m, Br4Nm or Ar4m or Ar4Nm	Br3, Br4m, Br4Nm or Ar4m or Ar4Nm*	Br3, Br4m, Br4Nm	--
M ₃	Br3, Br4m, Br4Nm, or Ar4m or Ar4Nm	Br3, Br4m, Br4Nm, or Ar4m or Ar4Nm	Br3, Br4m, Br4Nm, or Ar4m or Ar4Nm	Br3, Br4m, Br4Nm, or Ar4m or Ar4Nm	Br3, Br4m, Br4Nm	B, Br3, Br4m, Br4Nm
	See para. 8.1.7. for conditions when a lap belt is permitted	See para 8.1.7. for conditions when a lap belt is permitted	See para. 8.1.7. for conditions when a lap belt is permitted	See para. 8.1.7. for conditions when a lap belt is permitted		
N ₁	Ar4m, Ar4Nm	Ar4m, Ar4Nm, Br4m, Br4Nm Ø	B, Br3, Br4m, Br4Nm or A, Ar4m, Ar4Nm* ¹	B, Br3, Br4m, Br4Nm	B, Br3, Br4m, Br4Nm	--
		Para. 8.1.2.1. lap belt permitted if seat is inboard of a passageway	Para. 8.1.6. lap belt permitted if the windscreen is not in the reference zone			--
N ₂	Br3, Br4m, Br4Nm or Ar4m, Ar4Nm*	B, Br3, Br4m, Br4Nm	B, Br3, Br4m, Br4Nm, or A, Ar4m, Ar4Nm*	B, Br3, Br4m, Br4Nm	B, Br3, Br4m, Br4Nm	--
	Para. 8.1.6. lap belt permitted if the windscreen is outside the reference zone and for the driver's seat		Para. 8.1.6. lap belt permitted if the windscreen is not in the reference zone			
N ₃	Br3, Br4m, Br4Nm or Ar4m, Ar4Nm*	B, Br3, Br4m, Br4Nm	B, Br3, Br4m, Br4Nm, or A, Ar4m, Ar4Nm*	B, Br3, Br4m, Br4Nm	B, Br3, Br4m, Br4Nm	--
	Para. 8.1.6. lap belt permitted if the windscreen is outside the reference zone and for the driver's seat		Para. 8.1.6. lap belt permitted if the windscreen is not in the reference zone			



⁽¹⁾ In all cases all S-type belts may be fitted in place of all possible A or B type belts, provided their anchorages comply with UNECE R14. Where a harness belt has been approved as a S-type belt according to this Regulation, using the lap belt strap, the shoulder belt straps and possibly one or more retractors, one or two additional crotch straps including their attachments for their anchorages may be provided by the manufacturer/applicant. These additional anchorages need not meet the requirements of UNECE R14.

- However, for outboard seating positions, other than front, of vehicles of the category N1 shown above and marked with Ø, the installation of a lap belt of type Br4m or Br4Nm is allowed, where there exists a passage between a seat and the nearest side wall of the vehicle intended to permit access of passengers to other parts of the vehicle : N/A
- 8.1.3. Where no safety-belts are required any type of safety-belt or restraint system conforming to this Regulation may be provided : N/A
- 8.1.4. On three point belts fitted with retractors, one retractor must operate at least on the diagonal strap : N/A
- 8.1.5. Except for vehicles of category M1 an emergency locking retractor of type 4N may be permitted instead of a retractor of type 4 where it has been shown to the satisfaction of the services responsible for the tests that the fitting of a type 4 retractor would not be practical : N/A
- 8.1.6. For the front outboard and the front centre seating positions shown in item 8.1.2 and marked with the symbol *, lap belts of the type specified on that annex shall be considered adequate where the windscreen is located outside the reference zone : see 1st stage approval
- 8.1.7. Every seating position in item 8.1.2. above marked with the symbol ●, three-point belts shall be provided unless one of the following conditions is fulfilled, in which case two-point belts may be provided
- 8.1.7.1. - There is a seat or other vehicle parts conforming to paragraph 3.5. of Appendix 1 to Regulation No. 80 directly in front : N/A
- 8.1.7.2. - No part of the vehicle is in or, when the vehicle is in motion, capable of being in the reference zone : N/A
- 8.1.7.3. - Parts of the vehicle within the said reference zone comply with the energy absorbing requirements set out in Appendix 6 of Regulation No. 80 : N/A
- 8.1.7.4. - Items 8.1.7.1. to 8.1.7.3. shall not apply to a driver's seat : see 1st stage approval
- 8.1.8. The vehicle shall carry information to the effect that it is equipped with frontal protection airbags for seats : see 1st stage approval
- 8.1.8.1. For a vehicle fitted with an airbag assembly intended to protect the driver, this information shall consist of the inscription "AIRBAG" located in the interior of the circumference of the steering wheel : see 1st stage approval
- This inscription shall be durably affixed and easily visible : see 1st stage approval



8.1.8.2. Every passenger seating position which is fitted with a frontal protection airbag shall be provided with a warning against the use of a rearward-facing child restraint in that seating position

: see 1st stage approval

This information shall consist of a label containing clear warning pictograms as indicated below ⁽²⁾⁽³⁾

: see 1st stage approval



The overall dimensions of the label shall be at least 120 x 60 mm or the equivalent area

: see 1st stage approval

The label may be adapted in such a way that the layout differs from the example shown here; however, the content shall meet the precise prescriptions

: see 1st stage approval

Furthermore, no other type of information shall be included on the label unless it is placed outside a clearly marked rectangle with at least the overall dimensions as required above ⁽⁴⁾

: see 1st stage approval

It shall also be ensured that no deviations in the shape and orientation of the provided pictograms are permitted, notably that any customised appearance of the prescribed pictogram images shall be prohibited ⁽⁵⁾⁽⁶⁾

: see 1st stage approval



⁽²⁾ Pictogram according to ISO 2575:2004 - Z.01  that shall be used and that shall have an outer diameter of at least 38 mm.

⁽³⁾ Pictogram depicting airbag deployment danger  that shall be used and that shall measure 40 mm in width and 28 mm in height or proportionally larger.

⁽⁴⁾ In derogation to the aforementioned, a part number, bar code or similar identification mark not exceeding 8 mm x 35 mm or the equivalent area may be placed on the label.

⁽⁵⁾ With the exception of the hand with pointing index finger and the open face booklet with letter 'i' on its right page provided that they are clearly recognisable as such.

⁽⁶⁾ Small irregularities concerning line thickness, label imprinting and other relevant production tolerances shall be accepted.

- 8.1.8.3. In the case of a front airbag for the front passenger seat, the warning shall be durably affixed to each face of the passenger front sun visor in such a position that at least one warning on the sun visor is visible at all times, irrespective of the position of the sun visor : see 1st stage approval
- Alternatively, one warning shall be located on the visible face of the stowed sun visor and a second warning shall be located on the roof behind the visor, so, at least one warning is visible all times : see 1st stage approval
- It shall not be possible to easily remove the warning label from the visor and the roof without any obvious and clearly visible damage remaining to the visor or the roof in the interior of the vehicle : see 1st stage approval
- If the vehicle does not have a sun visor or roof, the warning label shall be positioned in a location where it is clearly visible at all times : see 1st stage approval
- In the case of a frontal protection airbag for other seats in the vehicle, the warning shall be directly ahead of the relevant seat, and clearly visible at all times to someone installing a rear-facing child restraint on that seat : see 1st stage approval
- This item and item 8.1.8.2.do not apply to those passenger seating positions equipped with a device which automatically deactivates the frontal protection airbag assembly when any rearward facing child restraint is installed : see 1st stage approval
- 8.1.8.4. Detailed information, making reference to the warning, shall be contained in the owner's manual of the vehicle : see 1st stage approval
- As a minimum, this information shall include at least the following text ⁽⁷⁾⁽⁸⁾:
- "NEVER use a rearward facing child restraint on a seat protected by an ACTIVE AIRBAG in front of it, DEATH or SERIOUS INJURY to the CHILD can occur"
- The requirements of this item do not apply to vehicles of which all passenger seating positions are equipped with a device which automatically deactivates the frontal protection airbag assembly when any rearward facing child restraint is installed : see 1st stage approval
- 8.1.9. In the case of seats capable of being turned to or placed in other orientations, designed for use when the vehicle is stationary, the requirements of item 8.1.1. above shall only apply to those orientations designated for normal use when the vehicle is travelling on a road : see 1st stage approval



⁽⁷⁾ The text shall be accompanied by an illustration of the warning label as found in the vehicle.

⁽⁸⁾ The information shall be easily found in the owner's manual (e.g. specific reference to the information printed on the first page, identifying page tab or separate booklet, etc.).

8.2. General requirements

- 8.2.1. Safety-belts, restraint systems, and ISOFIX child restraint systems as well as i-Size child restraint systems, shall be fixed to anchorages and in case of i-Size child restraint systems, supported by a vehicle floor contact surface, conforming to the specifications of UN Regulation No. 14, such as the design and dimensional characteristics, the number of anchorages, and the strength requirements : pass
- 8.2.2. The safety-belts, restraint systems and child restraint systems recommended by the manufacturer, shall be so installed that they will work satisfactorily and reduce the risk of bodily injury in the event of an accident : pass
- In particular, they shall be so installed that:
- 8.2.2.1. The straps are not liable to assume a dangerous configuration
- Front outboard seat : see 1st stage approval
 - Rear outboard seat (TR04S) : pass
- 8.2.2.2. That the danger of a correctly positioned belt slipping from the shoulder of a wearer as a result of his/her forward movement is reduced to a minimum
- Front outboard seat : see 1st stage approval
 - Rear outboard seat (TR04S) : pass
- 8.2.2.3. The risk of the strap deteriorating through contact with sharp parts of the vehicle or seat structure, and child restraint systems, is reduced to a minimum
- Front outboard seat : see 1st stage approval
 - Rear outboard seat (TR04S) : pass
- 8.2.2.4. The design and installation of every safety-belt provided for each seating position shall be such as to be readily available for use : pass
- Furthermore, where the complete seat or the seat cushion and/or the seat back can be folded to permit access to rear of the vehicle or to goods or luggage compartment, after folding and restoring those seats to the seating position, the safety-belts provided for those seats shall be accessible for use or can be easily recovered from under or behind the seat, by one person, according to instructions in the vehicle users handbook, without the need for that person to have training or practice
- Front outboard seat : see 1st stage approval
 - Rear outboard seat (TR04S) : pass



Test report number: RDW-16R-0123069

8.2.2.5. With the buckle tongue engaged in the buckle:

The possible slack in the belt does not prevent the correct installation of child restraint systems recommended by the manufacturer:

- Front outboard seat

: see 1st stage approval

- Rear outboard seat (TR04S)

: pass

In the case of three-point belts, a tension of at least 50 N can be established in the lap item of the belt by external application of tension in the diagonal section of the belt, when positioned on a 10-year manikin or gabarit:

- Front outboard seat

: see 1st stage approval

- Rear outboard seat (TR04S)

: pass



8.3. Special requirements for rigid parts incorporated in safety-belts or restraint systems

8.3.1. Rigid parts, such as the buckles, adjusting devices and attachments, shall not increase the risk of bodily injury to the wearer or to other occupants of the vehicle in the event of an accident

- Front outboard seat : see 1st stage approval
- Rear outboard seat (TR04S) : pass

8.3.2. The device for releasing the buckle shall be clearly visible to the wearer and within his easy reach and shall be so designed that it cannot be opened inadvertently or accidentally. The buckle shall also be located in such a position that it is readily accessible to a rescuer needing to release the wearer in an emergency:

- Front outboard seat : see 1st stage approval
- Rear outboard seat (TR04S) : pass

The buckle shall be so installed that, when not under load and when sustaining the wearer's mass, it is capable of being released by the wearer with a single simple movement of either hand in one direction:

- Front outboard seat : see 1st stage approval
- Rear outboard seat (TR04S) : pass

In the case of a safety-belts or restraint systems for front outboard seating positions, except if these are harness belts, the buckle shall also be capable of being locked in the same manner

: pass/fail/N/A

A check shall be made to ensure that, if the buckle is in contact with the wearer, the width of the contact surface is not less than 46 mm:

- Front outboard seat : see 1st stage approval
- Rear outboard seat (TR04S) : pass

A check shall be made to ensure that, if the buckle is in contact with the wearer, the contact surface has the minimum required surface of 20 cm²:

- Front outboard seat : see 1st stage approval
- Rear outboard seat (TR04S) : pass

8.3.3. When the belt is being worn, it shall either adjust automatically to fit the wearer or be so designed that the manual adjusting device is readily accessible to the wearer when seated and is convenient and easy to use

- Front outboard seat : see 1st stage approval
- Rear outboard seat (TR04S) : pass

It shall also be possible for it to be tightened with one hand to suit the build of the wearer and the position of the vehicle seat

- Front outboard seat : see 1st stage approval
- Rear outboard seat (TR04S) : pass



Test report number: RDW-16R-0123069

- 8.3.4. Safety-belts or restraint systems incorporating retractors shall be so installed that the retractors are able to operate correctly and stow the strap efficiently : pass
- In case of both a belt adjusting device and a flexible shoulder adjustment device for height, in at least their highest and their lowest position, checks shall be made that the retractor automatically adjusts the strap to the shoulder of the concerned wearer after buckling, as well as that the tongue-plate rolls up in case of an unbuckling
- Front outboard seat : see 1st stage approval
- Rear outboard seat (TR04S) : pass
- 8.3.5. In order to inform vehicle user(s) of the provisions made for the transport of children, vehicles of Categories M1, M2, M3 and N1 shall meet the information requirements of Annex 17 : see below
- Any vehicle of Category M1 shall be equipped with ISOFIX positions, in accordance with the relevant prescriptions of UN Regulation No. 14 or UN Regulation No. 145 : N/A
- The first ISOFIX position shall allow at least the installation of one out of the three forward-facing fixtures : N/A
- The second ISOFIX position shall allow at least the installation of one rear-facing fixture : N/A
- For this second ISOFIX position, in case where the installation of the rear-facing fixture is not possible on the second row of seats of the vehicle due to its design, the installation of one fixture is allowed in any position of the vehicle : N/A
- 8.3.6. Any i-Size seating position shall allow the installation of the ISOFIX child restraint fixture "ISO/F2X", "ISO/R2", and the support leg installation assessment volume, as well as the booster seat fixture "ISO/B2", without the ISOFIX attachments (see detail B) : N/A
- It shall be possible to occupy all adjacent i-Size seating positions simultaneously. This is deemed to be demonstrated when the vertical median planes of individual adjacent positions are at least 440 mm apart : N/A



8.4. Safety-belt reminder equipment

8.4.1. Requirements per specific seating position and exemptions

8.4.1.1. The seating position of the driver of category M and N vehicles as well as the seating positions of the occupants of seats in the same row as the driver seat of category M and N vehicles shall be equipped with a safety-belt reminder satisfying the requirements of item 8.4.3. : see 1st stage approval

8.4.1.2. All seating positions of the rear seat row(s) of category M1 and N1 vehicles shall be equipped with a safety-belt reminder satisfying the requirements of item 8.4.4. : N/A

Where the vehicle manufacturer provides a safety-belt reminder system on a rear seating position in another category of vehicle, the safety-belt reminder system may be approved according to this Regulation : N/A

8.4.1.3. A safety-belt reminder is not compulsory on folding seats, as well as seating positions fitted with an S-type belt (including Harness belt) : N/A

Notwithstanding items 8.4.1.1. and 8.4.1.2 above, safety belt reminders are also not required for rear seats in ambulances, hearses, and motor-caravans as well as for all seats for vehicles used for transport of disabled persons, vehicles intended for use by the armed services, civil defence, fire services and forces responsible for maintaining public order : pass



Annex 17 Requirements for the installation of safety belts and restraints systems for the installation of ISOFIX and I-size Child Restraint System

1. Compatibility with child restraint systems
- 1.1. The vehicle manufacturer shall include in the vehicle handbook, simple advice to the vehicle user on the suitability of each passenger seating position for the fitting of child restraint systems : pass
- This information shall be given by pictograms or in the national language, or at least one of the national languages, of the country in which the vehicle is offered for sale : pass
- For each forward-facing passenger seating position, and for each specified ISOFIX position, the vehicle manufacturer shall indicate:
- (a) If the seating position is suitable for child restraints of the "universal" category ⁽⁹⁾; and/or : pass
- (b) If the seating position is suitable for i-size child restraint systems ⁽¹⁰⁾; and/or : N/A
- (c) If the seating position is suitable for child restraint systems other than those specified above ⁽¹¹⁾; : N/A
- If a seating position is only suitable for use with forward-facing child restraint systems, this shall also be indicated in the vehicle handbook : N/A
- In addition to the above information for the vehicle user, the vehicle manufacturers shall make available the information as defined by Appendix 3 of this Annex to this Regulation
- For example:
- This information can be included in separate Annexes of the vehicle handbook
 - In technical descriptions of the vehicle
 - On a dedicated webpage
- The location to access this information shall be provided in the vehicle handbook : pass



⁽⁹⁾ A child restraint system of the universal category means a child restraint approved to the "universal" category of UNECE R44.03 Suppl. 5 (or subsequent amendments). Positions, which are indicated by the vehicle manufacturer as being suitable for the installation of child restraints systems of the universal category shall comply with the provisions of Appendix 1 and Appendix 5 to this annex.

⁽¹⁰⁾ An i-Size child restraint means a child restraint approved to the i-Size category of UNECE R129. Seating positions, which are indicated by the vehicle manufacturer as being suitable for the installation of i-Size child restraints systems shall comply with the provisions of Appendix 2 and Appendix 5 to this annex.

⁽¹¹⁾ An ISOFIX child restraint means a child restraint approved UNECE R44.03 Suppl. 5 or to UNECE R129 (or subsequent amendments). Positions, which are indicated by the vehicle manufacturer as being suitable for the installation of ISOFIX child restraints systems shall comply with the provisions of Appendix 2 to this annex.

Attachment 1 Tested seating positions and suitability

Seating position suitable ⁽¹²⁾⁽¹³⁾⁽¹⁴⁾:

Seat position number	Seating position									
		1	2	3	4	5	6	7	8	9
Seating position suitable for universal belted	yes/no	see 1 st stage approval			yes*	N/A	yes*	N/A	N/A	N/A
i-Size seating position	yes/no	see 1 st stage approval			no	N/A	no	N/A	N/A	N/A
Seating position suitable for lateral fixture	L1/L2	see 1 st stage approval			N/A	N/A	N/A	N/A	N/A	N/A
Largest suitable rearward facing fixture	R1/R2X/R2/R3	see 1 st stage approval			N/A	N/A	N/A	N/A	N/A	N/A
Largest suitable forward facing fixture	F1/F2X/F2/F3	see 1 st stage approval			N/A	N/A	N/A	N/A	N/A	N/A
Seating position suitable for universal belted	B2/B3	see 1 st stage approval			N/A	N/A	N/A	N/A	N/A	N/A

* Front seats: rearward adjustment max. 7th notches from forward

Seating position number:

Seat number	Position in the vehicle
1	Front left
2	Front centre
3	Front right
4	2 nd row left
5	2 nd row centre
6	2 nd row right
7	3 rd row left
8	3 rd row centre
9	3 rd row right



⁽¹²⁾Add information for each non i-size seating position compatible with a support leg, as described in this regulation.

⁽¹³⁾Add information for each seating position equipped with lower ISOFIX anchorages but without Top Tether, according to this regulation.

⁽¹⁴⁾Add information if the adult safety belt buckles are located laterally in between both ISOFIX lower anchorages.