

REPORT

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O100480-DP08-1275942-2

Page 1 (2)

Trux AB Box 18 827 28 FÄRILA

Reference

Review of bull bars for motor vehicle over 3.5 tonnes according to directive No. 92/114/EEC and ECE Regulation No. 61

(15 appendices)

Summary

According to our review of Trux AB's bull bars type A and B for mounting on motor vehicles with weight over 3.5 tonnes do not diverge from the requirements in directive No. 92/114/EEC and ECE Regulation No. 61.

1 Assignment

Review of bull bars to motor vehicle class M_2 and M_3 (passenger vehicle over 3.5 tonnes) and N_2 and N_3 (truck over 3.5 tonnes) according to directive No. 92/114/EEC and ECE Regulation No. R61. This document is an extension of the previously issued report named P604000B_rev 12. The lists of article numbers (Appendices 6,7) have been adjusted with new part number A16-5, A62-2, B16-5 and B62-2. The respective mounting instructions were added (Appendices 12-15). According to the client, no changes have been made to the geometry of the products or their relationship to the vehicle.

2 Product

Trux bull bars are intended for mounting on motor vehicle with weight over 3.5 tonnes. The bull bars are categorised in A1-1 to A99-9, Highway and B1-1 to B99-9, Offroad. The difference between the products is that Highway has both upper and lower frame, while Offroad has only an upper frame. Both types of products are manufactured in aluminium tubes.

Examples of bull bars from the smallest to the largest are presented in drawings A45-242 and A91-142 for Highway, and drawings B4-142 and B91-142 for Offroad. The drawings are attached in appendices 1-4 together with a description of article numbers in appendix 5.

A list of valid products for this assessment is attached in appendices 6-7.

3 Method

Review of the geometry and radius of the products has been performed according to the following table.

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Directive/Regulation	Section
	3 – General requirements 4.5 – Protective devices (bumpers)
	5 – General specifications 6.5 – Protective devices (bumpers)

4 Assessment

According to our review the above mentioned types of bull bars for mounting on motor vehicles with weight over 3.5 tonnes do not diverge from the requirements in directive No. 92/114/EEC and ECE Regulation No. 61.

This assessment shall be attached to the client's confirmation that will follow each delivery of the product.

Jukka Holappa

RISE Research Institutes of Sweden AB Chemistry and Applied Mechanics - Mechanical Reliability

Performed by Examined by

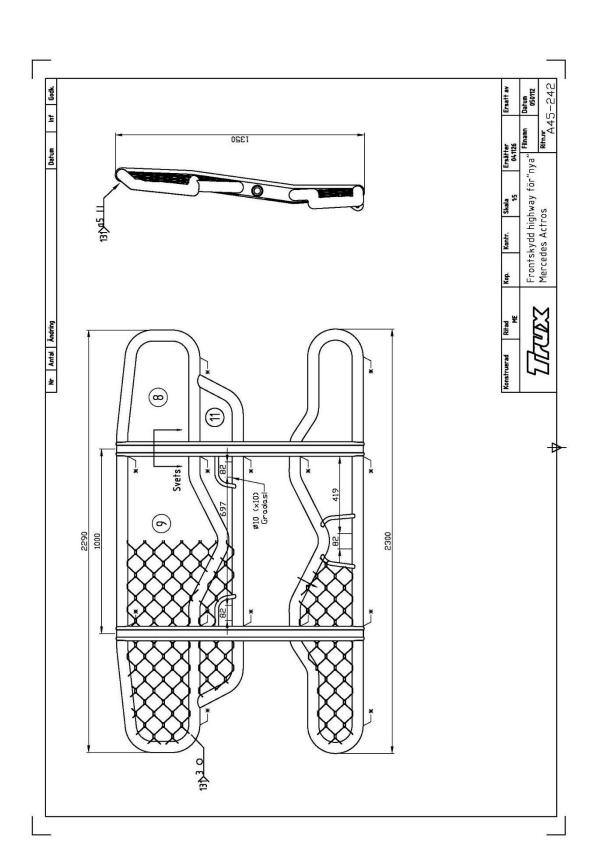
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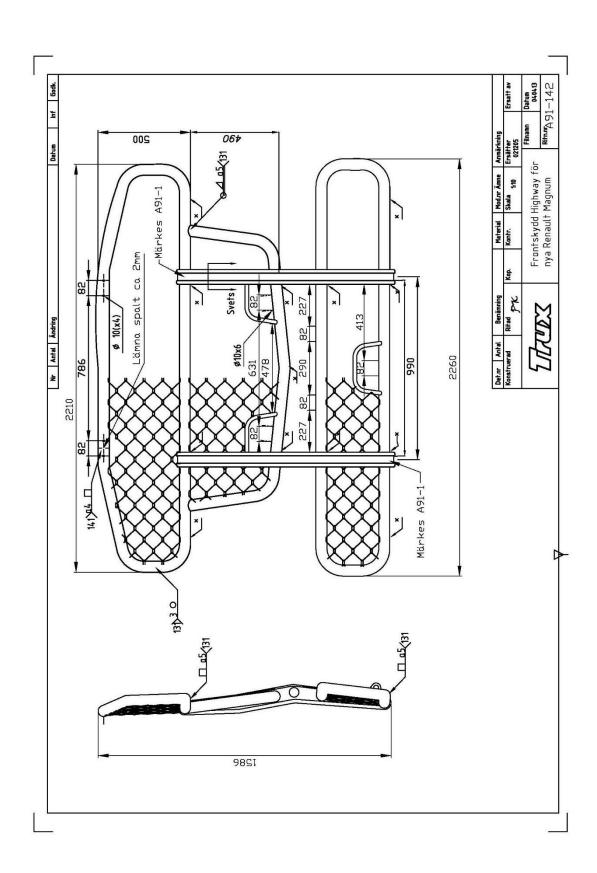
Appendices

- 1. Drawing A45-242 date 2005-01-12
- 2. Drawing A91-142 date 2004-04-13
- 3. Drawing B4-342 date 1998-11-27
- 4. Drawing B91-142 date 2002-12-05
- 5. Description of article numbers Dok. Nr. TRX_0039, rev A, 2011-03-16
- 6. A list of article numbers for bull bars type Highway (3 pages)
- 7. A list of article numbers for bull bars type Offroad (5 pages)
- 8. Mounting instruction for A24-1, A24-2 and A24-5, Doc. Nr. 92229 (2 pages)
- 9. Mounting instruction for A47-3 and A47-4, Doc. Nr. 92242 (2 pages)
- 10. Mounting instruction for A74-1, A75-1 and A75-2, Doc. Nr. 92219 (2 pages)
- 11. Mounting instruction for A54-1, Doc. Nr. 92255 (2 pages)
- 12. Mounting instruction for A16-5 (2 pages)
- 13. Mounting instruction for A62-2 (2 pages)
- 14. Mounting instruction for B16-5 (2 pages)
- 15. Mounting instruction for B62-2 (2 pages)

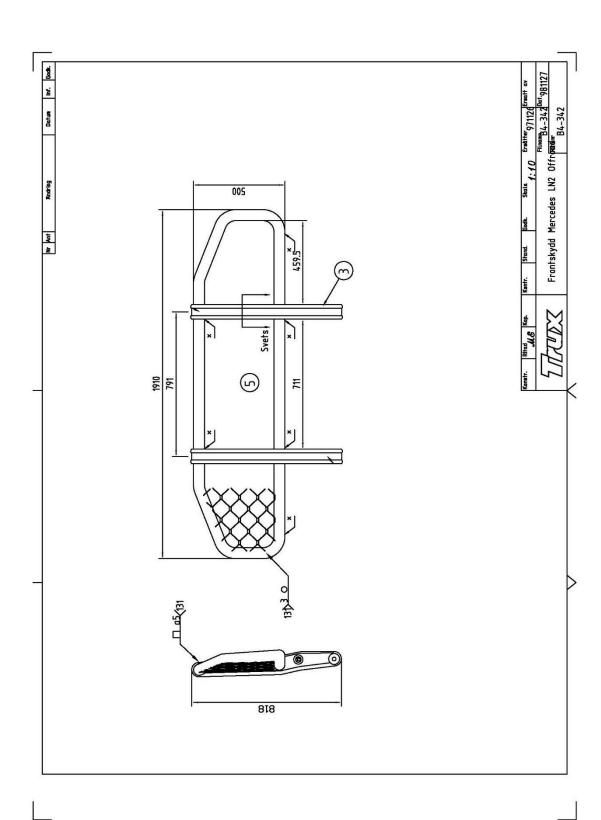






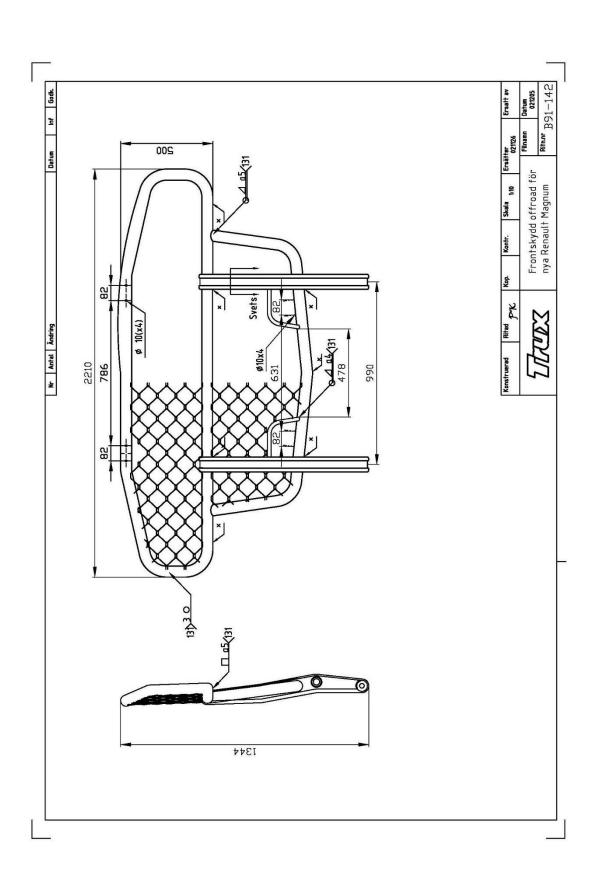


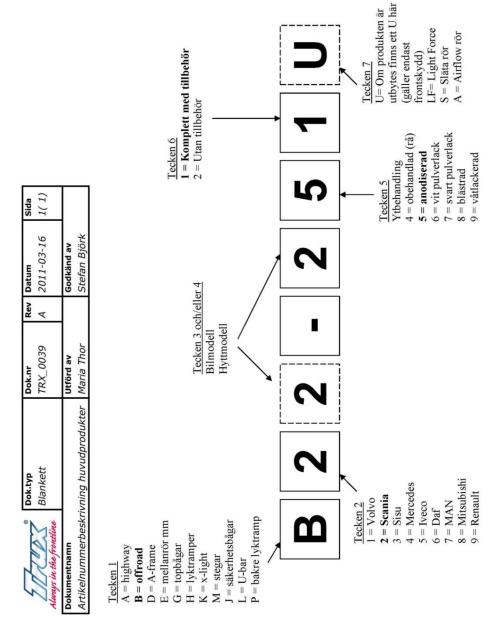












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Following products are manufactured to fit this truckmodels

Partnumber	Description/Truckmodel	
A1-1	Front protection Highway, manufactured to fit	
	Volvo F10/12 ver.1	
A1-2	Front protection Highway, manufactured to fit	
	Volvo F10/12/16 ver.2	
A1-3	Front protection Highway, manufactured to fit	
	Volvo FL7/10 -93	
A1-8	Front protection Highway, manufactured to fit	
	Volvo NL10/12	
A11-2	Front protection Highway, manufactured to fit	
	Volvo FH/FM ver.1	
A11-3	Front protection Highway, manufactured to fit	
	Volvo FL7/10/12 93-	
A14-2	Front protection Highway, manufactured to fit	
	Volvo FH/FM ver.2	
A14-3	Front protection Highway, manufactured to fit	
	Volvo FH/FM ver.2002-/Volvo FH (<2009)	
A15-1	Front protection Highway, manufactured to fit	
	Volvo Carrus	
A16-2	Front protection Highway, manufactured to fit	
	Volvo FH 4 (2013-)	
A16-3	Front protection Highway, manufactured to fit	
	Volvo FM 4 2014	
A16-5	Front protection Highway, manufactured to fit Volvo FH 4 Aero	
A2-1	Front protection Highway, manufactured to fit	
	Scania R -85 3-serie	
A2-2	Front protection Highway, manufactured to fit	
	Scania R 86- 3-serie	
A2-3	Front protection Highway, manufactured to fit	
	Scania P 86- 3-serie	
A2-6	Front protection Highway, manufactured to fit	
	Scania R Streamline 3-serie	
A22-2	Front protection Highway, manufactured to fit	
	Scania R 4-serie	
A23-2	Front protection Highway, manufactured to fit	
	Scania R-serie	
A23-3	Front protection Highway, manufactured to fit	
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A24-1	Scania P, G, R-serie Front protection Highway, manufactured to fit
	Scania S,R (2017-)
A24-2	Front protection Highway, manufactured to fit Scania P, G, R, S (2017-)
A24-3	front protection Highway, manufactured to fit
A24-5	Scania P, G, R, (2017-) Front protection Highway, manufactured to fit Scania P,G (2017-)
A3-1	Front protection Highway, manufactured to fit
	Sisu SM
A4-1	Front protection Highway, manufactured to fit
	Mercedes GR ver.1
A4-2	Front protection Highway, manufactured to fit
	Mercedes S,M,L
A41-1	Front protection Highway, manufactured to fit
	Mercedes GR ver.2
A44-1	Front protection Highway, manufactured to fit
	Mercedes Actros MP1 Megaspace
A44-2	Front protection Highway, manufactured to fit
	Mercedes Actros MP1
A45-1	Front protection Highway, manufactured to fit
	Mercedes Actros MP2/MP3 Megaspace
A45-2	Front protection Highway, manufactured to fit
	Mercedes Actros MP2/MP3 Megaspace
A47-1	Front protection Highway, manufactured to fit
	Mercedes Actros 2012-
A47-2	Front protection Highway, manufactured to fit
	Mercedes Actros 2012-
A47-3	Front protection Highway, manufactured to fit
A47-4	Mercedes Arocs 2012-
777-7	Front protection Highway, manufactured to fit Mercedes Arocs 2012-
A5-2	Front protection Highway, manufactured to fit
	Iveco Euro- Star/Tech
A52-1	Front protection Highway, manufactured to fit
	Iveco Stralis
A54-1	Front protection Highway, manufactured to fit Iveco S-Way
A6-1	Front protection Highway, manufactured to fit
VALCE A	



	Scania T 3-serie
A6-2	Front protection Highway, manufactured to fit
	Scania T 3-serie
A61-1	Front protection Highway, manufactured to fit
	Daf 95/105 XF
A61-3	Front protection Highway, manufactured to fit
	Daf CF
A62-1	Front protection Highway, manufactured to fit
	Daf XF106, XD, XF, XG, XG+
A62-2	Front protection Highway, manufactured to fit
*00.0	Daf XF106, XD, XF, XG, XG+
A63-2	Front protection Highway, manufactured to fit
	DAF XF106
A63-3	Front protection Highway, manufactured to fit
	DAF CF
A7-2	Front protection Highway, manufactured to fit
	Man F90/M90/F2000/M2000M
A73-1	Front protection Highway, manufactured to fit
	Man TG-A XL,XXL
A73-2	Front protection Highway, manufactured to fit
	Man TG-A LX,L,M
A74-1	Front protection Highway, manufactured to fit
	MAN TGX
A74-2	Front protection Highway, manufactured to fit
A75-1	MAN TGS
A73-1	Front protection Highway, manufactured to fit MAN TGX
A75-2	Front protection Highway, manufactured to fit
	MAN TGS
A9-1	Front protection Highway, manufactured to fit
	Renault Magnum ver.1
A9-2	Front protection Highway, manufactured to fit
7.0 _	Renault Premium -2005
A91-1	Front protection Highway, manufactured to fit
7011	Renault Magnum ver.2
400.4	Front protection Highway, manufactured to fit
A92-1	Renault T,D
400.0	Front protection Highway, manufactured to fit
A92-3	Renault D





Following products are manufactured to fit this truckmodels Partnumber Description/Truckmodel

Partnumber	Description/Truckmodel
B1-1	Front protection Offroad, Manufactured to fit
	Volvo F10/12 ver.1
B1-2	Front protection Offroad, Manufactured to fit
	Volvo F10/12/16 ver.2
B1-3	Front protection Offroad, Manufactured to fit
	Volvo FL7/10 -93
B1-4	Front protection Offroad, Manufactured to fit
	Volvo F10/12 ver.1
B1-5	Front protection Offroad, Manufactured to fit
	Volvo FL6 -91
B1-6	Front protection Offroad, Manufactured to fit
	Volvo FL6,FS7 91-
B1-7	Front protection Offroad, Manufactured to fit
	Volvo N10/12
B1-8	Front protection Offroad, Manufactured to fit
	Volvo NL10/12
B11-2	Front protection Offroad, Manufactured to fit
	Volvo FH/FM ver.1
B11-3	Front protection Offroad, Manufactured to fit
	Volvo FL7/10 93-
B11-8	Front protection Offroad, Manufactured to fit
	Volvo NH
B12-1	Front protection Offroad, Manufactured to fit
	Scania T
B12-2	Front protection Offroad, Manufactured to fit
	Scania T
B13-2	Front protection Offroad, Manufactured to fit
	Volvo FE
B13-6	Front protection Offroad, Manufactured to fit
	Volvo FL 07-
B14-2	Front protection Offroad, Manufactured to fit
	Volvo FH/FM ver.2
B14-3	Front protection Offroad, Manufactured to fit
	Volvo FH/FM 2002- /Volvo FH (<2009)
B15-1	Front protection Allway, Manufactured to fit
	Volvo Carrus



Following products are manufactured to fit this truckmodels

Partnumber	Description/Truckmodel
B1-1	Front protection Offroad, Manufactured to fit
	Volvo F10/12 ver.1
B1-2	Front protection Offroad, Manufactured to fit
	Volvo F10/12/16 ver.2
B1-3	Front protection Offroad, Manufactured to fit
	Volvo FL7/10 -93
B1-4	Front protection Offroad, Manufactured to fit
	Volvo F10/12 ver.1
B1-5	Front protection Offroad, Manufactured to fit
	Volvo FL6 -91
B1-6	Front protection Offroad, Manufactured to fit
	Volvo FL6,FS7 91-
B1-7	Front protection Offroad, Manufactured to fit
	Volvo N10/12
B1-8	Front protection Offroad, Manufactured to fit
	Volvo NL10/12
B11-2	Front protection Offroad, Manufactured to fit
	Volvo FH/FM ver.1
B11-3	Front protection Offroad, Manufactured to fit
	Volvo FL7/10 93-
B11-8	Front protection Offroad, Manufactured to fit
	Volvo NH
B12-1	Front protection Offroad, Manufactured to fit
	Scania T
B12-2	Front protection Offroad, Manufactured to fit
	Scania T
B13-2	Front protection Offroad, Manufactured to fit
	Volvo FE
B13-6	Front protection Offroad, Manufactured to fit
	Volvo FL 07-
B14-2	Front protection Offroad, Manufactured to fit
	Volvo FH/FM ver.2
B14-3	Front protection Offroad, Manufactured to fit
	Volvo FH/FM 2002- /Volvo FH (<2009)
B15-1	Front protection Allway, Manufactured to fit
	Volvo Carrus

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B16-2	Volvo FH 4 (2013-)
B16-3	Front protection Offroad, Manufactured to fit
B16-4	Volvo FM 4 (2014-). Front protection Offroad, Manufactured to fit
B16-5	Volvo FH 4 stålstötfångare HD. 2016- Front protection Offroad, Manufactured to fit Volvo FH 4 Aero
B2-1	Front protection Offroad, Manufactured to fit
	Scania R -85
B2-2	Front protection Offroad, Manufactured to fit
	Scania R 86-
B2-3	Front protection Offroad, Manufactured to fit
	Scania P 86-
B2-6	Front protection Offroad, Manufactured to fit
	Scania R Streamline
B22-2	Front protection Offroad, Manufactured to fit
	Scania R 4-serie
B22-3	Front protection Offroad, Manufactured to fit
	Scania P 4-serie
B23-2	Front protection Offroad, Manufactured to fit
	Scania R-serie
B23-3	Front protection Offroad, Manufactured to fit
	Scania P, G, R-serie
B23-4	Front protection Offroad, Manufactured to fit
	Scania T-serien
B23-5	Front protection Offroad, Manufactured to fit
B24-2	Scania P, G, R-serie Front protection Offroad, Manufactured to fit Scania P, G, R, S (2017-)
B24-3	Front protection Offroad, Manufactured to fit Scania P, G, R, (2017-)
B24-6	Front protection Offroad, Manufactured to fit Scania P, G, (2017-)
B3-1	Front protection Offroad, Manufactured to fit
	Sisu SM
B31-1	Front protection Offroad, Manufactured to fit
	Sisu E-serie
B4-1	Front protection Offroad, Manufactured to fit



	Mercedes GR
B4-2	Front protection Offroad, Manufactured to fit
	Mercedes S,M,L
B4-3	Front protection Offroad, Manufactured to fit
	Mercedes LN2
B43-2	Front protection Offroad, Manufactured to fit
	Mercedes Atego S
B43-3	Front protection Offroad, Manufactured to fit
	Mercedes Atego
B44-1	Front protection Offroad, Manufactured to fit
	Mercedes Actros MP1 Megaspace
B44-2	Front protection Offroad, Manufactured to fit
	Mercedes Actros MP1
B45-1	Front protection Offroad, Manufactured to fit
	Mercedes Actros MP2/MP3 Megaspace
B45-2	Front protection Offroad, Manufactured to fit
	Mercedes Actros MP2/MP3
B46-2	Front protection Offroad, Manufactured to fit
	Mercedes Axor.
B47-1	Front protection Offroad, Manufactured to fit
	Mercedes Actros 2012- Arocs, Antos
B47-2	Front protection Offroad, Manufactured to fit
	Mercedes Actros 2012- Arocs, Antos
B5-1	Front protection Offroad, Manufactured to fit
	Iveco Turbo Star
B5-2	Front protection Offroad, Manufactured to fit
	Iveco Euro- Star/Tech
B5-3	Front protection Offroad, Manufactured to fit
	Iveco EuroCargo
B5-4	Front protection Offroad, Manufactured to fit
	Iveco EuroTrakker
B52-1	Front protection Offroad, Manufactured to fit
	Iveco Stralis
B53-2	Front protection Offroad, Manufactured to fit
	Iveco Eurocargo (12-18Ton)
B53-3	Front protection Offroad, Manufactured to fit
	Iveco Eurocargo (<12Ton)





B6-1	Front protection Offroad, Manufactured to fit Daf 95
B6-2	Front protection Offroad, Manufactured to fit Daf 45
B6-3	Front protection Offroad, Manufactured to fit Daf 75/85
B61-1	Front protection Offroad, Manufactured to fit
	Daf 95 XF
B61-2	Front protection Offroad, Manufactured to fit Daf LF
B61-3	Front protection Offroad, Manufactured to fit
Ban 4	Daf CF 65/75/85
B62-1	Front protection Offroad, Manufactured to fit
B62-2	DAF XF106, XD, XF, XG, XG+ Front protection Offroad, Manufactured to fit Daf XF106, XD, XF, XG, XG+
B62-4	Front protection Offroad, Manufactured to fit
	Scania T 4-serie
B63-2	Front protection Offroad, Manufactured to fit
	DAF XF106
B63-3	Front protection Offroad, Manufactured to fit
	DAF CF
B7-1	Front protection Offroad, Manufactured to fit
	Man G90
B7-2	Front protection Offroad, Manufactured to fit
D74.4	Man F90/M90/F2000/M2000M
B71-1	Front protection Offroad, Manufactured to fit Man L2000
B72-1	Front protection Offroad, Manufactured to fit
572-1	Man L2000 Evolution
B73-1	Front protection Offroad, Manufactured to fit
270-1	Man TG-A XL,XXL, TGX
B73-2	Front protection Offroad, Manufactured to fit
570 2	Man TG-A LX,L,M /TGS
B74-1	Front protection Offroad, Manufactured to fit
B74-2	MAN TGX Front protection Offroad, Manufactured to fit MAN TGS

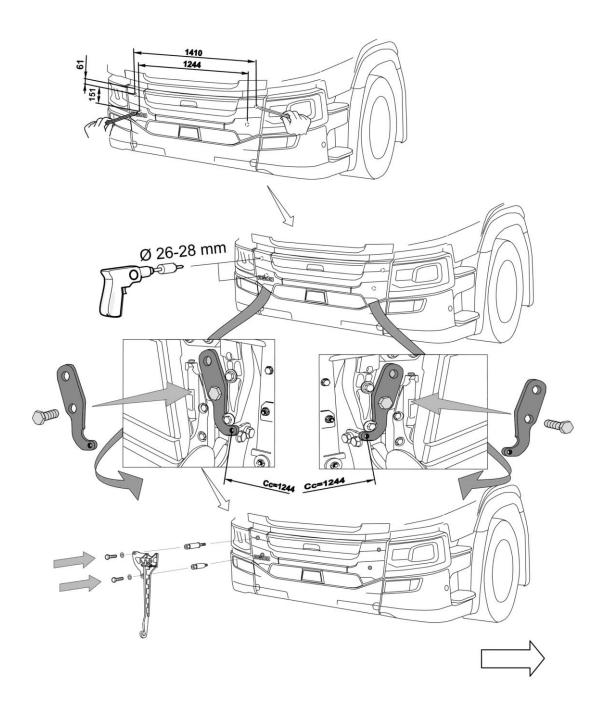




B9-1	Front protection Offroad, Manufactured to fit
	Renault Magnum ver.1
B9-2	Front protection Offroad, Manufactured to fit
	Renault Premium
B9-3	Front protection Offroad, Manufactured to fit
	Renault Midlum
B91-1	Front protection Offroad, Manufactured to fit
	Renault Magnum ver.2
B91-2	Front protection Offroad, Manufactured to fit
	Renault Premium 06-

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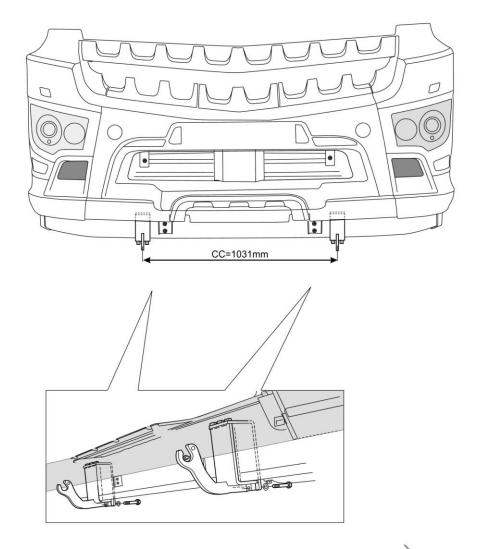
Scania R,S A24-1, A24-2, A24-5







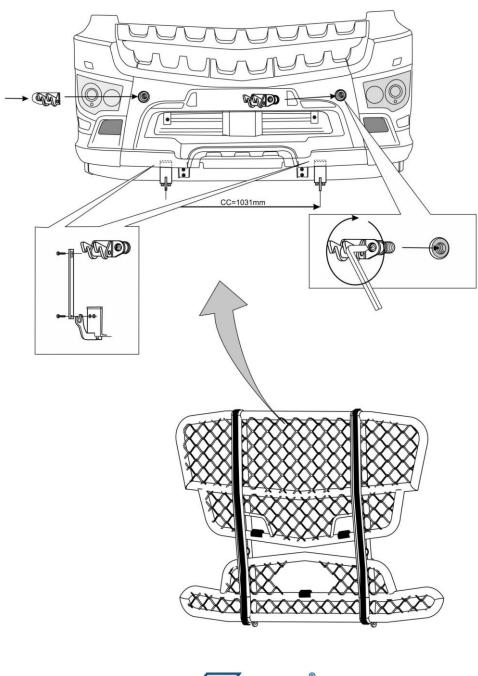
Mercedes Arocs 2300mm **A47-3, A47-4**





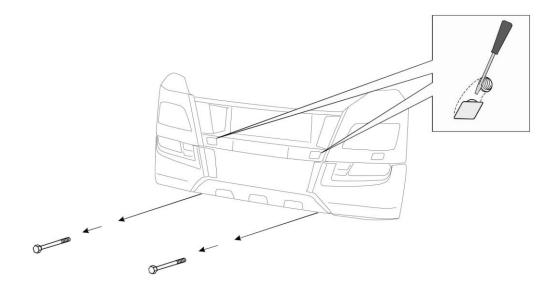


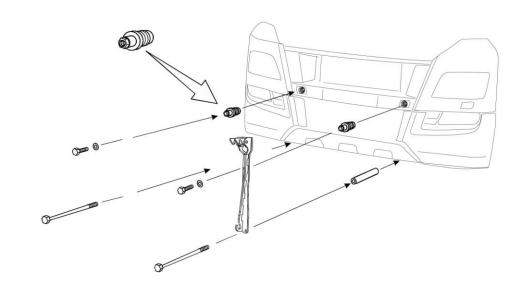




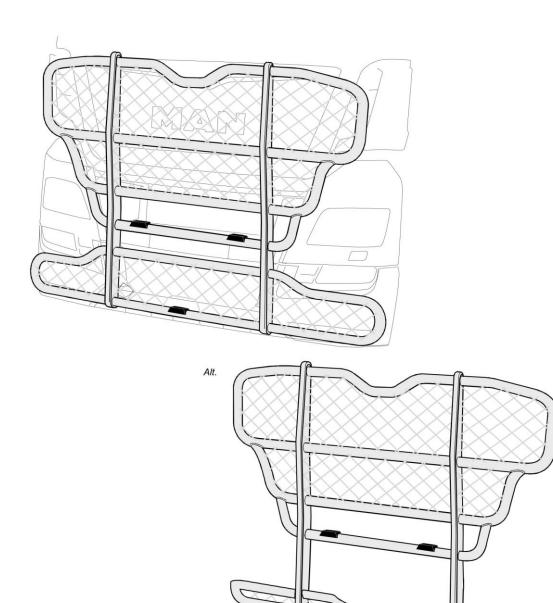


MAN TGX 2014- A74-1, A75-1, A75-2





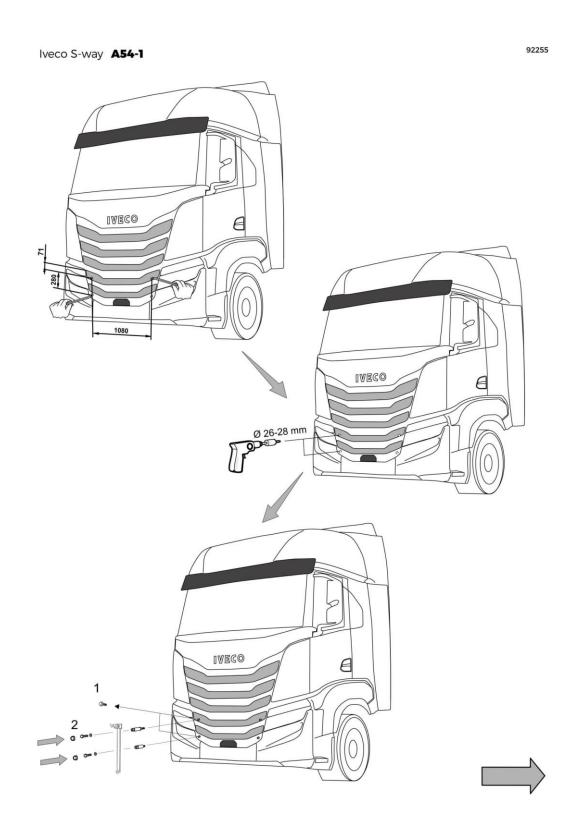
















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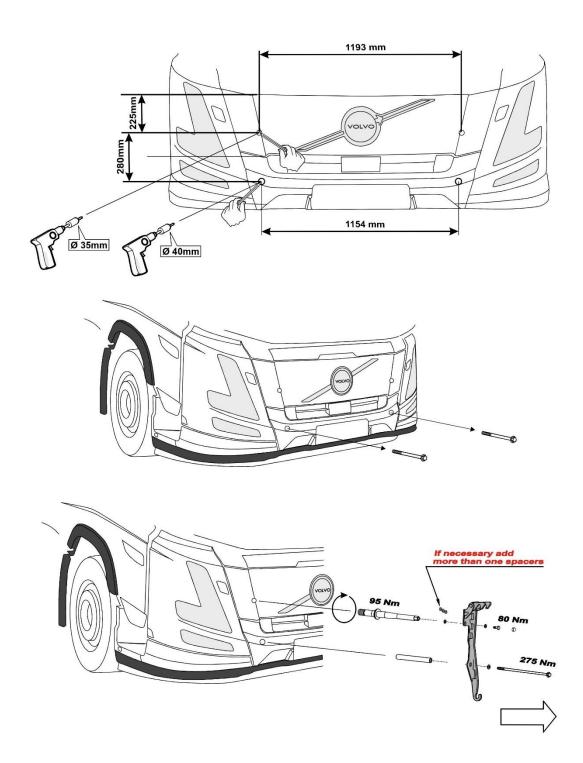






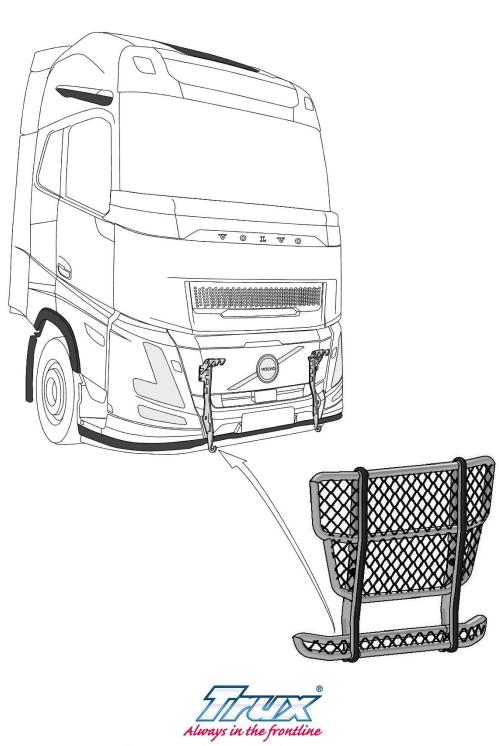
Volvo FH Aero, Highway









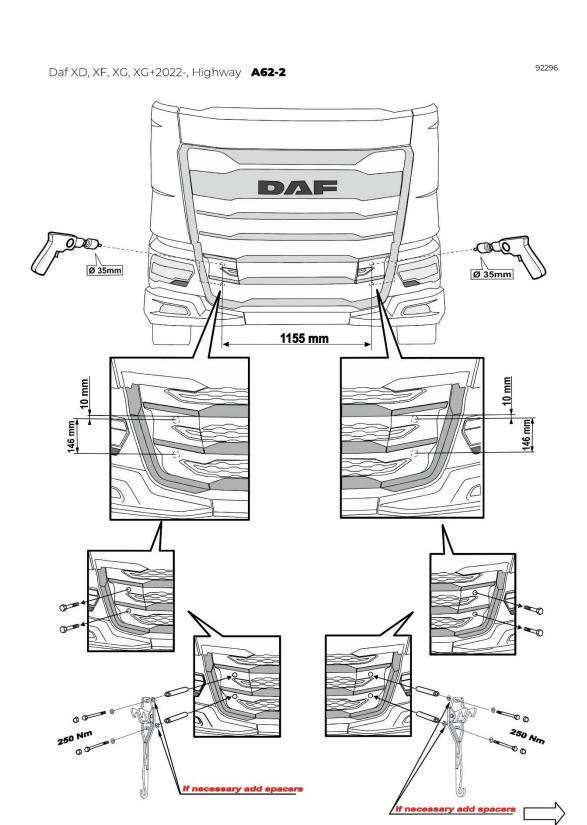


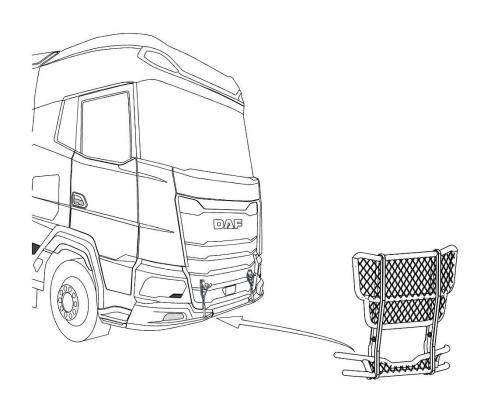










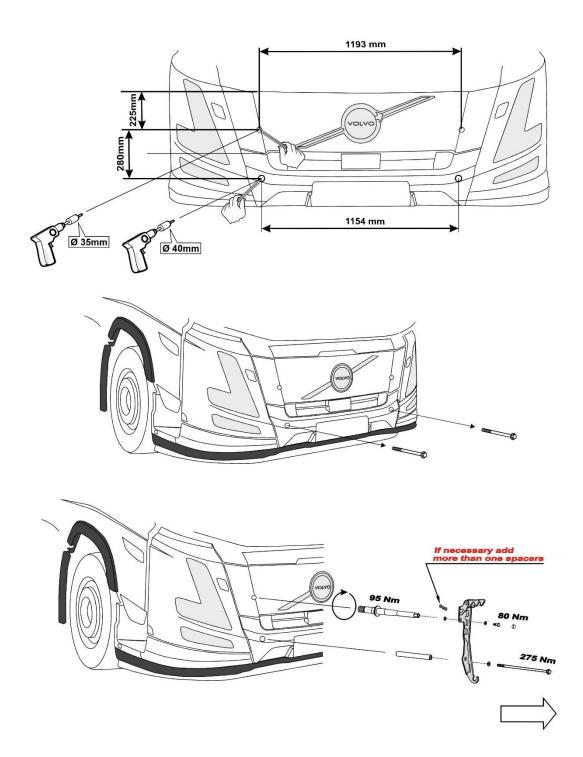






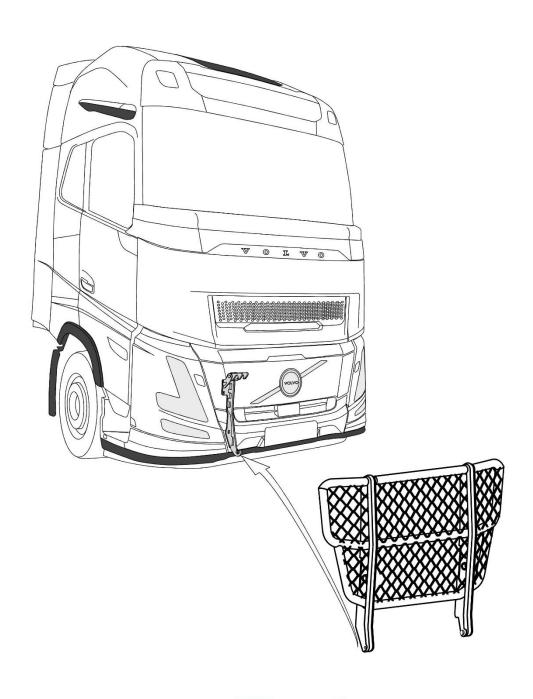
Volvo FH Aero, Offroad B16-5





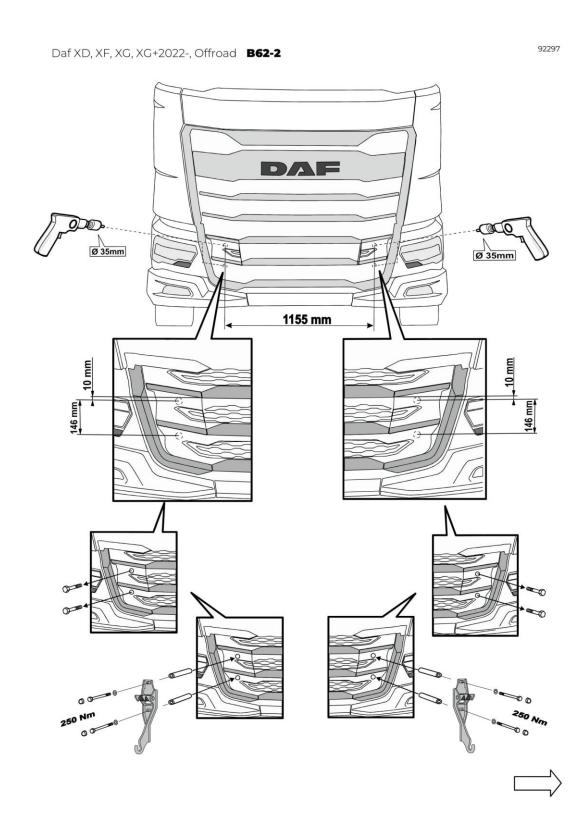
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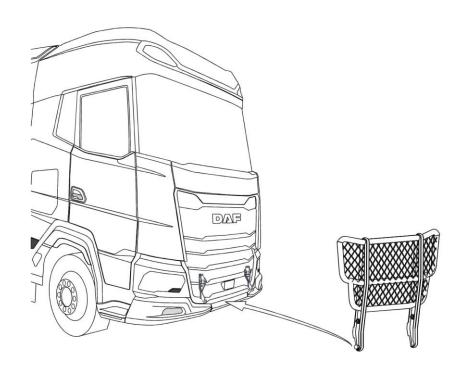














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