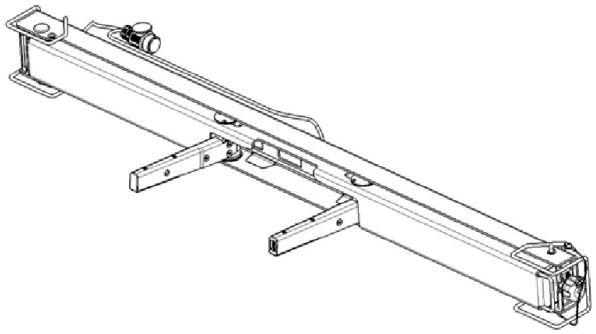
Installation instructions

Swivel-carrier system

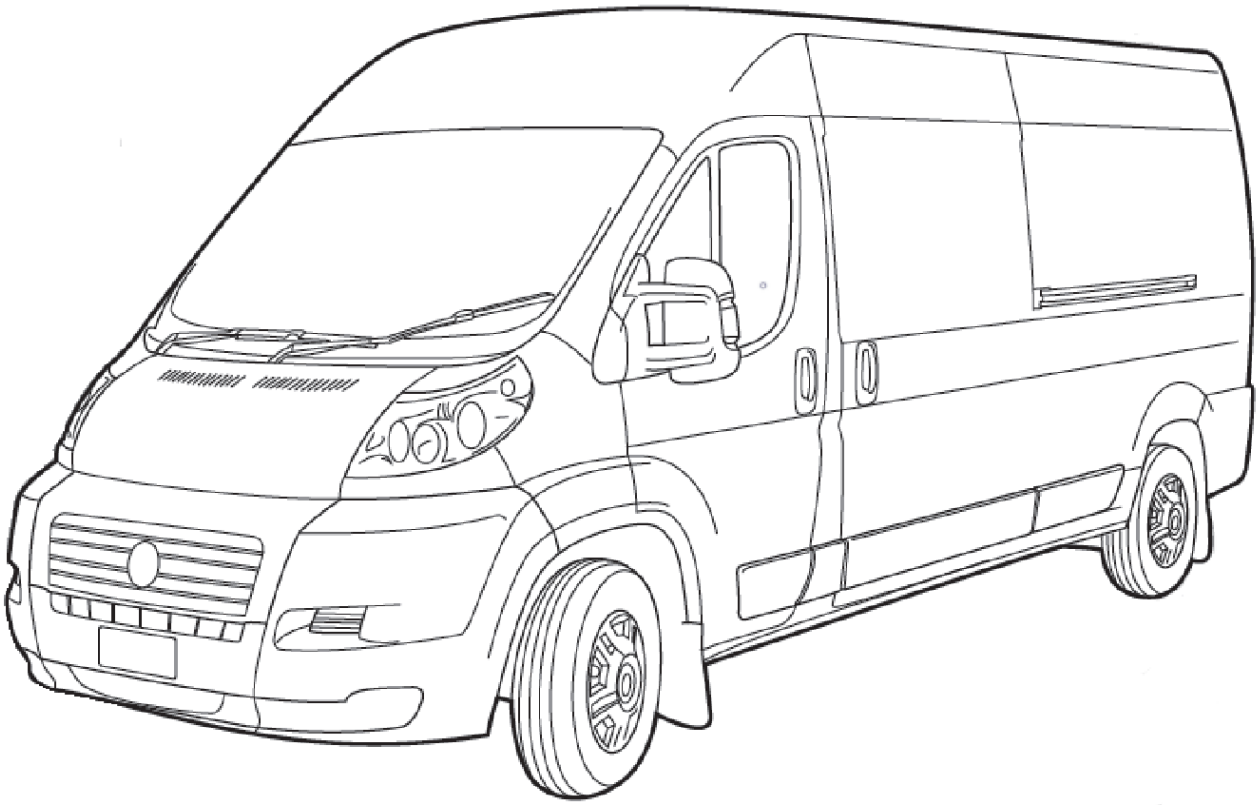


FIAT DUCATO IV 06/2006-

CITROËN JUMPER 06/2006-

PEUGEOT BOXER 06/2006-

OPEL MOVANO III/C 05/2021-



Single-language edition

Minnid

Jopindo GmbH
Massenheimer Weg 25
D-61352 Bad Homburg
www.minnid.com

Before installation

01 **Installation must be carried out only by trained, qualified personnel.**

02 **For variant 2 with towbar, also use installation instructions no. 2144 / GDW.**

03 **For the electrical wiring kit, use the installation instructions supplied with the kit.**

Notes on this revised edition

The incorrect Italian instructions about fusing the cable and refitting the battery cover and carpet have been corrected against the German text. Part references and quantities are retained. The torque at item 9 has been standardized to 86 Nm to match the general table. The fastening details on pages 14-15 refer to variant 1; for variant 2, also follow the GDW instructions.

Installation instructions | Step 1-5

1 Disconnect the battery

Driver’s cab

Remove the carpet and battery cover. Disconnect the battery negative terminal.

2 Remove bumper and crossmember

Rear of vehicle

Remove the bumper bolts and crossmember bolts. Remove and dispose of the crossmember.

3 Remove rear-light trims / fixings

Load compartment

Remove the trim screws on both sides.

4 Start the wiring

Load compartment

Route the cable according to the wiring-kit diagram. Connect the lights on both sides (not required with a CAN bus wiring kit). Connect the control module. Optional: install parking sensors. Optional: install the power supply for the 13-pin socket; an additional wiring kit must be purchased for this.

5 Route the electrical cable to the battery

Under the vehicle

Route the cable underneath the vehicle towards the battery at the front, securing it to the existing wiring loom. Fit fuses to the cable in the battery compartment and connect it to the positive terminal.

Installation instructions | Step 6-12

6 Connect the socket

Under the vehicle

Connect the socket contacts according to the wiring diagram.

7 Fit the light crossmember

Rear of vehicle

Initially fit one bolt per side on the crossmember. See page 12.

8 Fit the bumper

Rear of vehicle

Position the bumper and secure it with the bolts.

9 Fit the vehicle mounting brackets

Under the vehicle

Enlarge the axle hole to Ø22 mm. Insert the spacer tube as shown on page 14. Loosen the crossmember bolt and position the vehicle mounting bracket. Start two bolts for the crossmember and mounting bracket. Fit the retaining angle and start the third bolt. Position the axle with its bolt at the vehicle mounting bracket.

10 Fit the trailer socket holder

Under the vehicle

Bolt the socket and its holder to the vehicle mounting bracket.

11 Fit the swivel-carrier

Rear of vehicle

Place the swivel-carrier on the vehicle mounting brackets and secure it with 6 bolted connections.

12 Fit two protection bars

Rear of vehicle

Secure each of the two protection bars with 2 bolted connections.

Installation instructions | Step 13-17

13 Connect the wiring kit to the swivel-carrier

Under the vehicle

Connect the socket. Optionally fit a second socket to the towbar.

14 Tighten all bolted connections

Under the vehicle

Tighten the 10 listed connections: 6 between the swivel-carrier and crossmember; 2 at the vehicle mounting bracket angles; 2 at the vehicle mounting brackets with the tube. See pages 8 and 10 for torque values and the note on page 2.

15 Refit the rear-light trims

Load compartment

Screw the trims back into place.

16 Reconnect the battery

Driver’s cab

Connect the battery negative terminal. Refit the battery cover and carpet.

17 Carry out the functional test

Load compartment

Test the lighting. Check operation of the swivel-carrier and adjust it if necessary.

Configurations

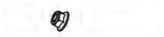
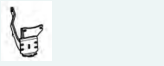
Variant 1 | Light crossmember



Variant 2 | Crossmember with towbar

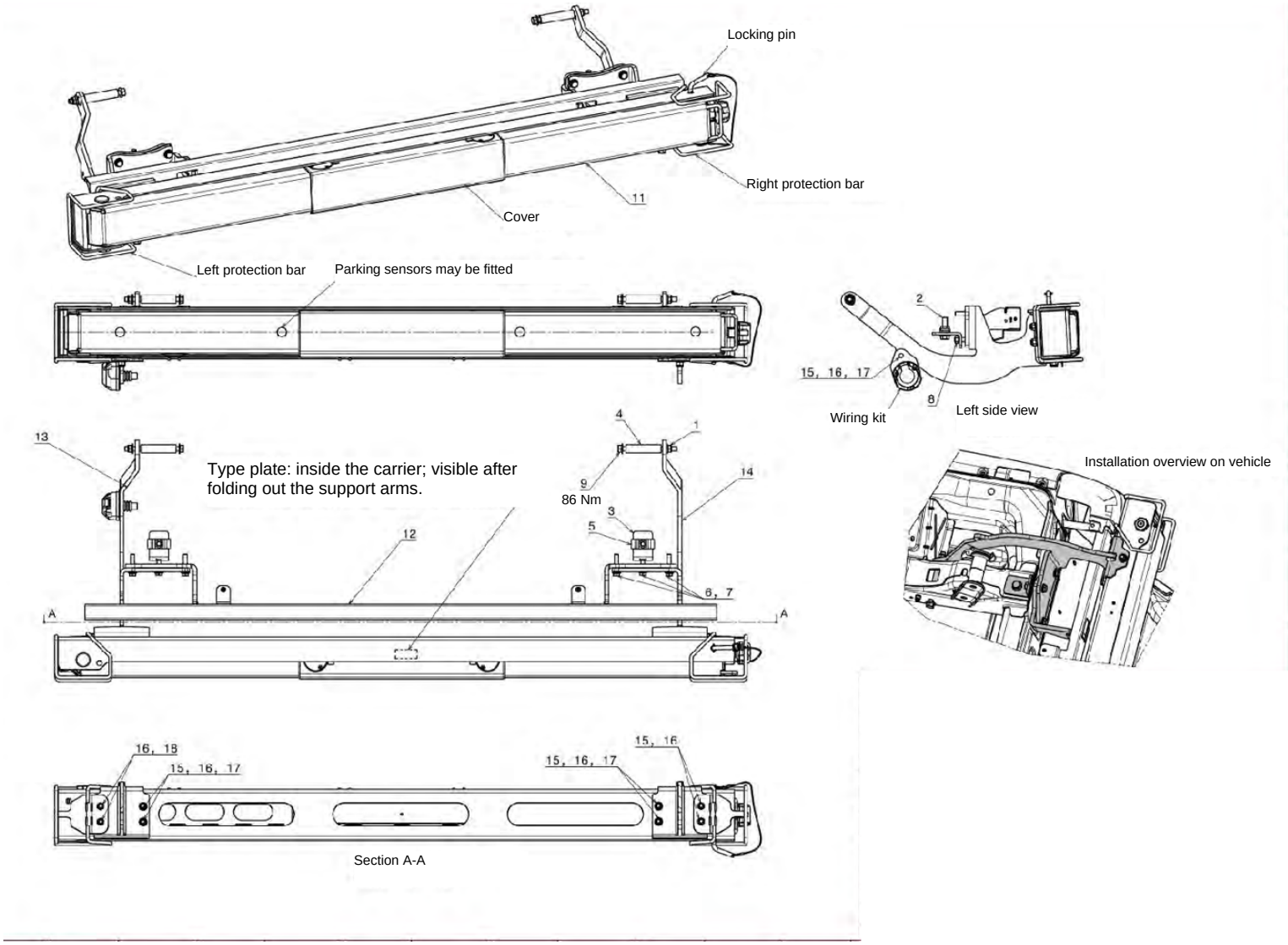


Variant 1 | Parts list

Item	Part reference	Qty	Description	Figure
1	1.240.564	2	Hexagon flange nut MBN13023 M12x1.5 KL10 -ZnF	
2	1.240.914	2	Hexagon flange bolt MBN10105 M12x1.5x45 10.9 GEOMET 720h	
3	1.260.038	2	Retaining angle 2144-050 (GDW)	
4	1.260.039	2	Spacer tube 2144-070 (GDW)	
5	1.260.041	2	Threaded component 902004 M12x1.5 DIN928/DIN929 (GDW)	
6	1.260.042	6	Washer SKSM M10 ZnF (Ø10.5x30x2.5)	
7	1.260.045	6	Hexagon bolt DIN961-M10x50x1.25 8.8; Zinc-flake coating; alternatively DISP	
8	1.260.047	2	Hexagon nut DIN934-M10x1.25 8; Zinc-flake coating	
9	1.260.052	2	Hexagon flange bolt MBN10105 M12x1.5x140 10.9 GEOMET 720h	
10	1.260.053	2	Washer DIN9021-M12-ELVZ (Ø13x37x3); Zinc-flake coating; alternatively DISP	
11	1.240.961	1	Swivel-carrier assembly ZSB / FDK-MHit01	
12	1.260.019	1	Light crossmember BG	
13	1.240.962	1	Left mounting bracket SBG	
14	1.240.963	1	Right mounting bracket SBG	
15	1.260.64	8	Cup-head square-neck bolt M10x25 8.8 DIN603; Zinc-flake coating	
16	1.260.065	10	Hexagon nut ISO 7040 M10 8.8; Zinc-flake coating	
17	1.260.066	6	Washer ISO 7089 - 10.5; zinc-plated, thick-film passivated	
18	1.260.085	2	Cup-head square-neck bolt M10x35 10.9 DIN603; Zinc-flake coating	

Part reference 1.260.64 is written as in the source.

Variant 1 | Assembly and tightening torques



Strength class

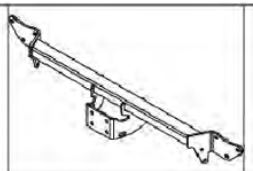
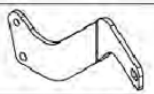
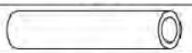
Bolt size	8.8	10.9
M8	25 Nm	35 Nm
M10	49 Nm	69 Nm
M10x1,25	52 Nm	86 Nm
M12	86 Nm	100 Nm
M12x1,5	90 Nm	120 Nm

Original drawing scale 1:6; this reproduction is not to scale.

Drawing 1240961 | FDK-MHit01 | Homologation | GA Actuation Systems, Zellbergeben 38, A-6277 Zellberg. General tolerance: DIN ISO 2768; edges: DIN ISO 13715 (-0.1); projection: ISO 5456-2.

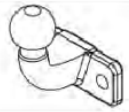
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Variant 2 | Parts list

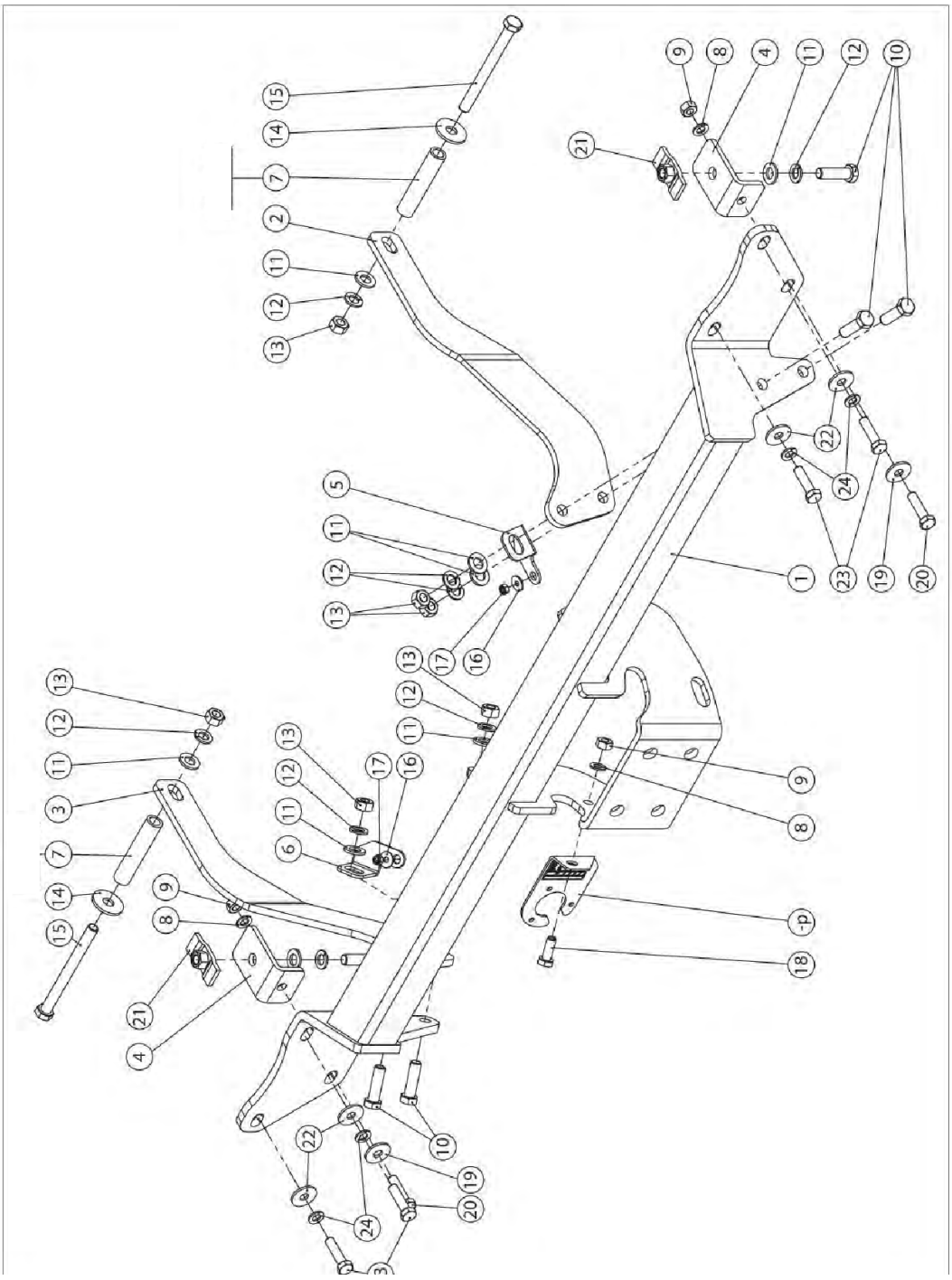
1		X1	GDW REF. 2144
2		X1	GDW REF. 2
3		X1	GDW REF. 3
4		X2	GDW REF. 4
5		X1	GDW REF. 5
6		X1	GDW REF. 6
7		X2	GDW REF. 7 XL only
8		X3	DIN 128A-M10
9		X3	DIN 934-M10 - 1.25
10		X6	DIN 931-M12X45
11		X8	DIN125-A12-140HV- ELVZ
12		X8	DIN 128A-M12
13		X6	DIN 934-M12
14		X2	DIN9021-M12-ELVZ
15		X2	DIN931-M12X130
16		X2	DIN9021-M6-ELVZ
17		X2	DIN985-M6
18		X1	DIN 961-M10X25 - 1.25

19		X2	DIN9021-M10-ELVZ
20		X2	DIN 961-M10X40 - 1.25
21		X2	GDW REF. 902.004
-P		X1	GDW REF. P29
Chassis no. ≥ 1067811			
22		X4	DIN9021-M10-ELVZ
23		X4	DIN 961-M10X40 - 1.25
24		X4	DIN 128A-M10
Chassis no. ≤ 1067810			
22		X4	DIN9021-M8-ELVZ
23		X4	DIN 933-M8X40
24		X4	DIN 128A-M8

Supplied with

	X1	740.000
	X2	DIN128A-M16
	X2	DIN933-M16 X 50
	X2	DIN934-M16
	X4	Cable tie 160x2.5
	X4	Adhesive base 28

Variant 2 | Assembly and tightening torques



Item 7: XL only.

Tightening torques | Strength class

	M6	M8	M10	M10	M12	M12	M12	M14	M14	M16
Pitch	1	1,25	1,5	(1,25)	1,75	(1,5)	(1,25)	1,75	(1,5)	2
8.8	11,3	27,3	54,0	57,0	93,0	97,0	101,0	148,0	159,0	230,0
10.9	16,5	40,1	79,0	83,0	137,0	143,0	149,0	218,0	234,0	320,0
12.9	19,3	46,9	93,0	98,0	160,0	167,0	174,0	255,0	274,0	395,0

All torque values are in Nm.

Step 2

Remove the bumper and crossmember. Dispose of the removed crossmember.

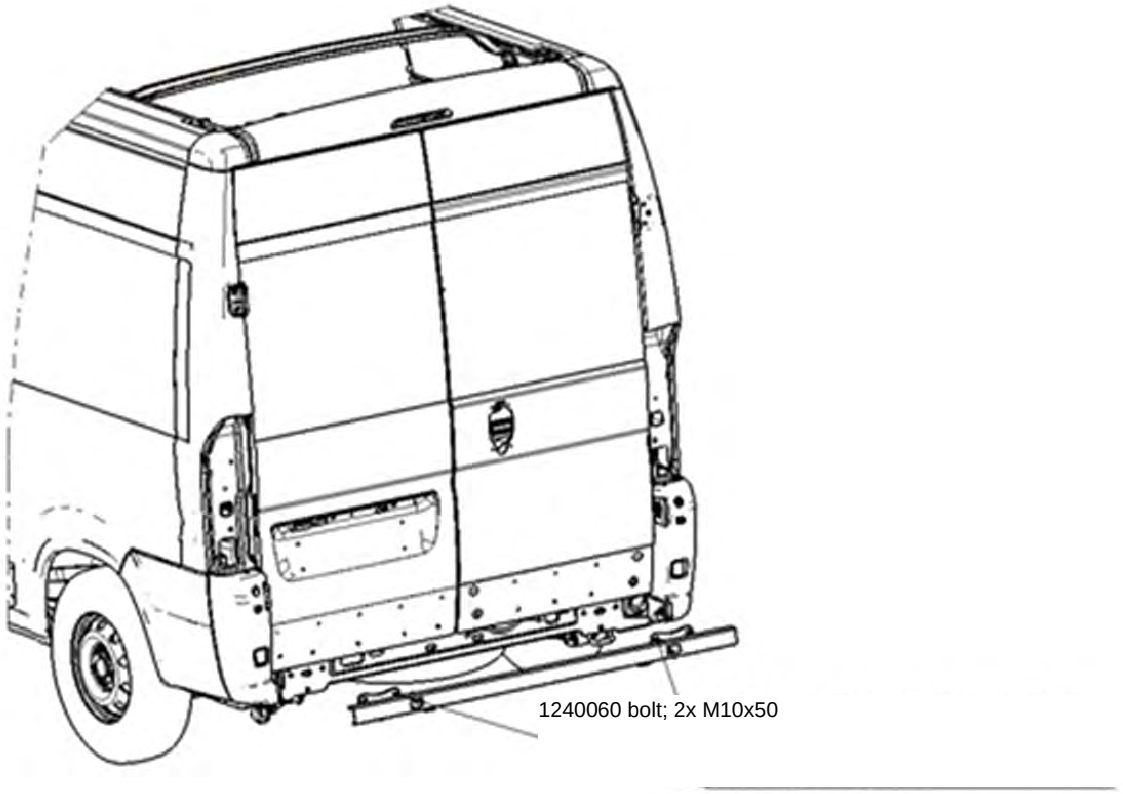






Step 7

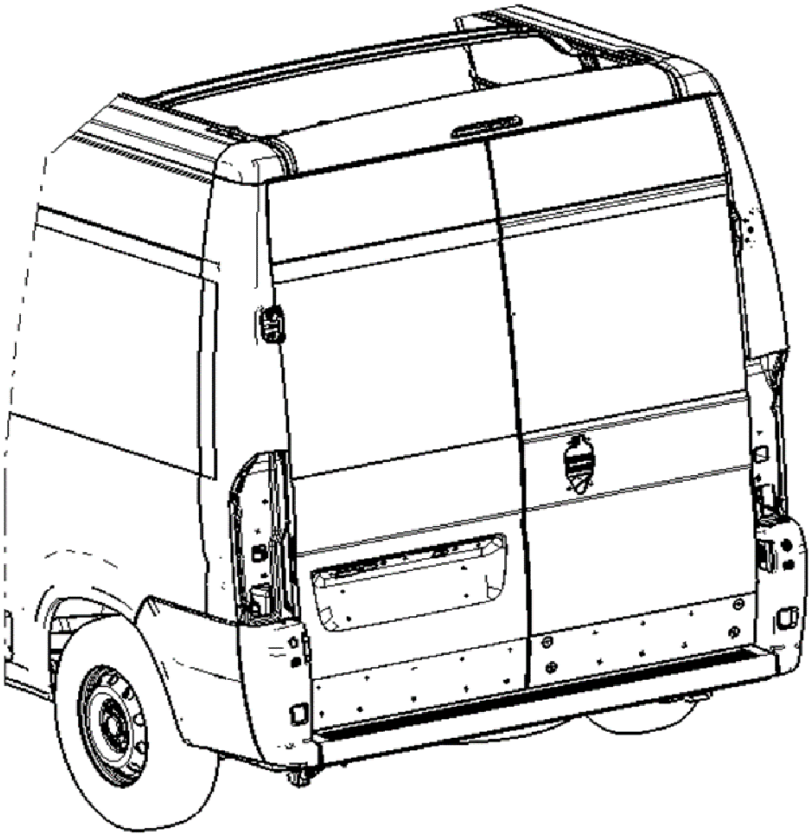
Fit the light crossmember. Initially fit only one M10x50 bolt on each side.





Step 8

Refit the bumper and secure it with the bolts.

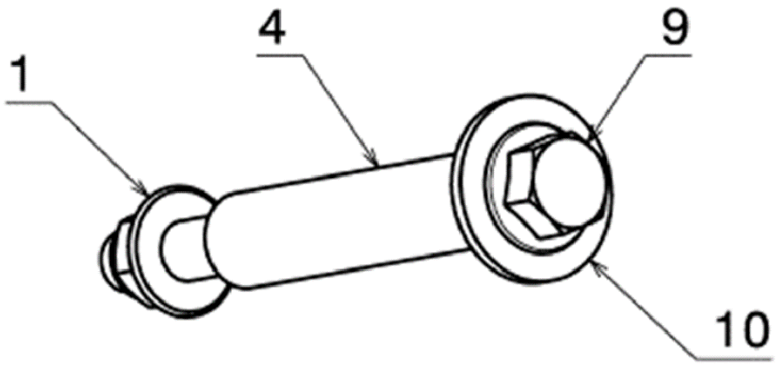




Step 9

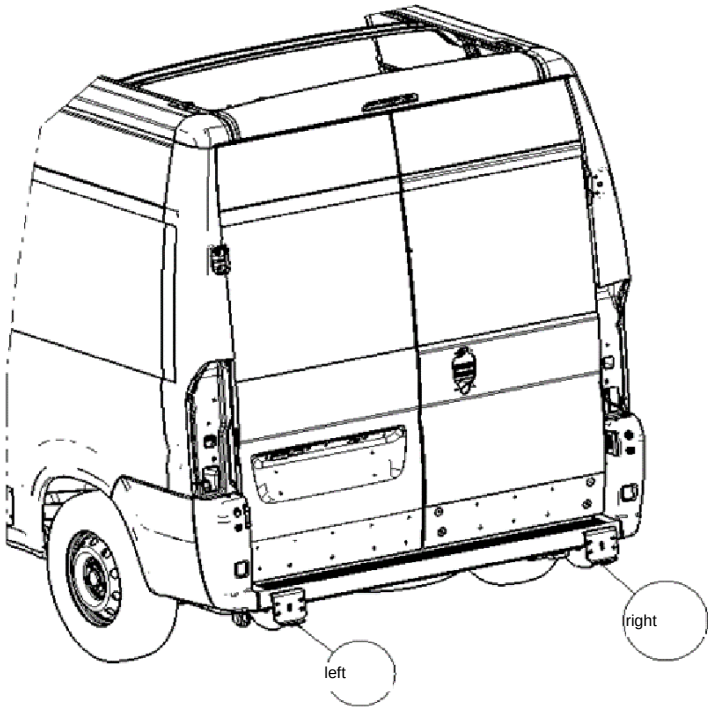
Enlarge the existing axle hole to Ø22 mm. Insert the spacer tube (item 4 in the parts list), leaving it protruding by 1-2 cm so it does not fall out and become lost.

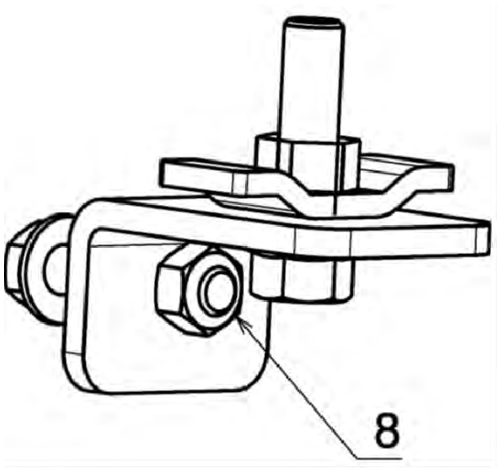


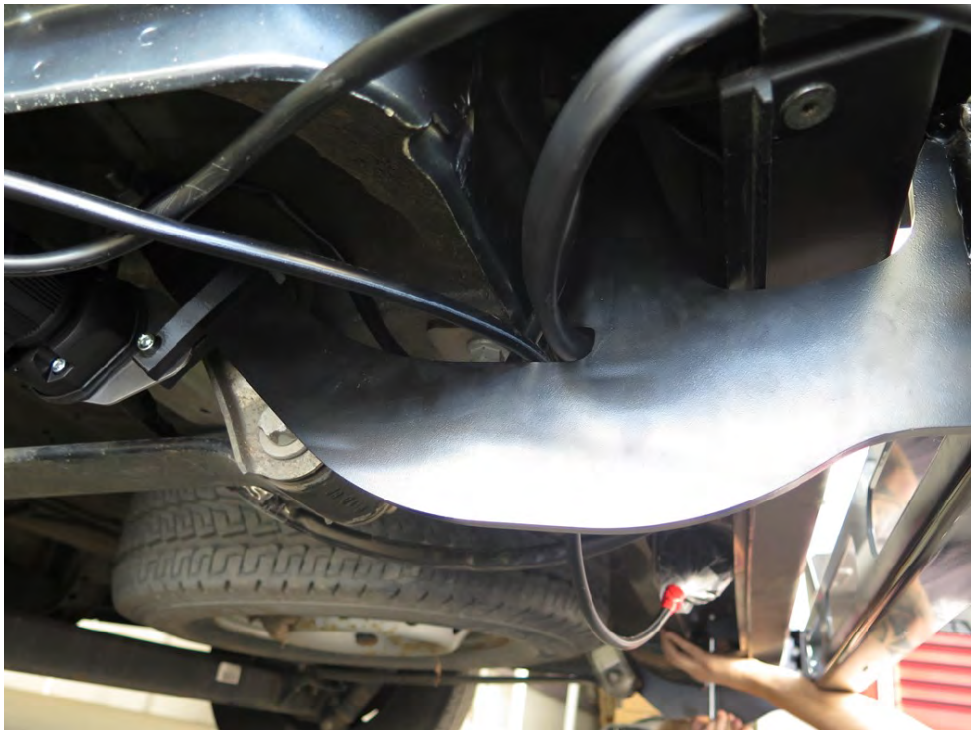


Step 9

Fit the vehicle mounting bracket and retaining angle (item 3). Items 6 and 7: 6 of each. Item 8: 2. See the variant 1 parts list.







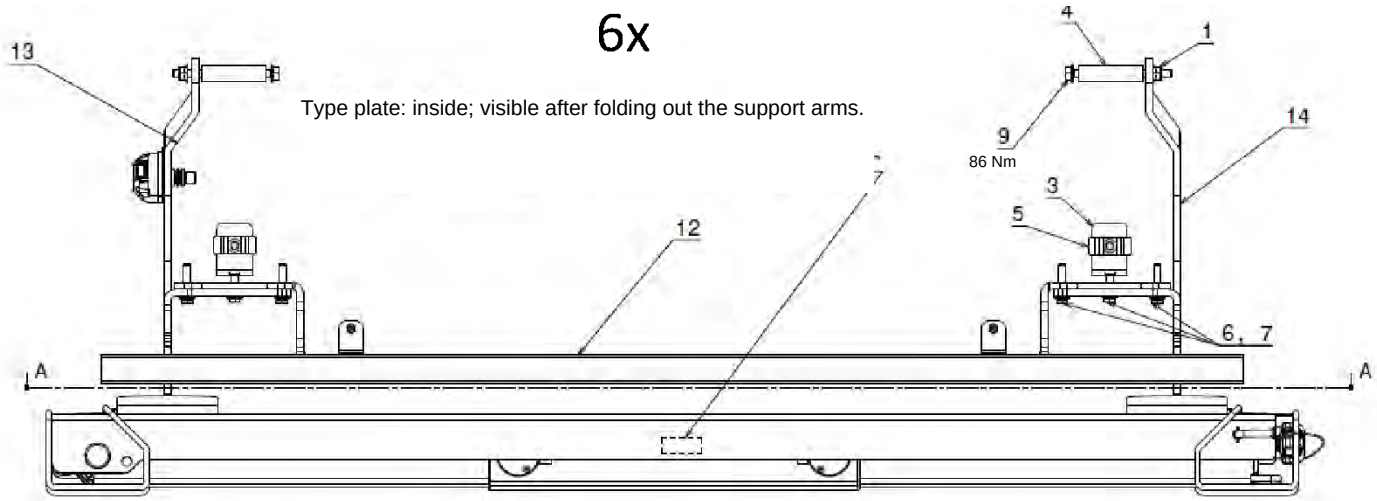
Step 10

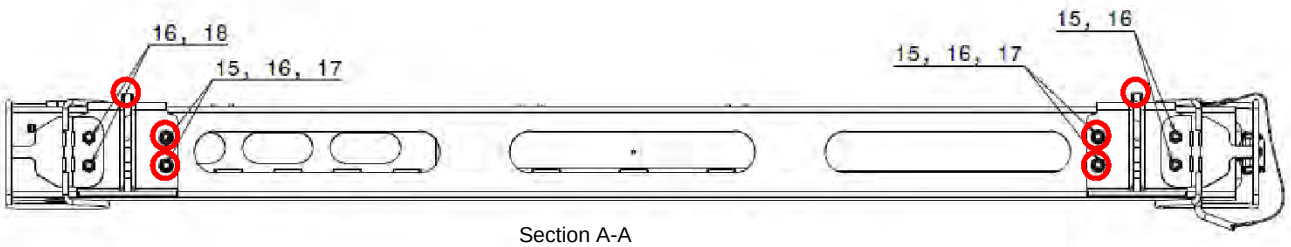
Bolt the socket and its holder to the vehicle mounting bracket.



Step 11 / 12

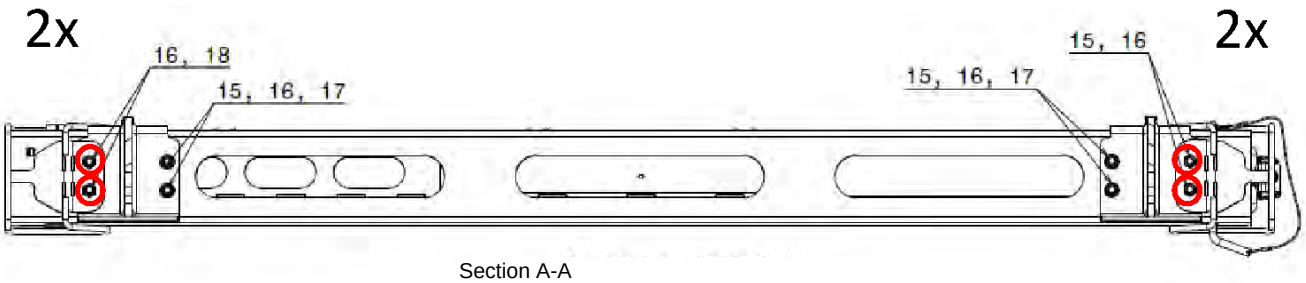
Secure the swivel-carrier at the 6 bolted connections. Then fit both protection bars, using 2 bolted connections per bar.





Section A-A

Step 12

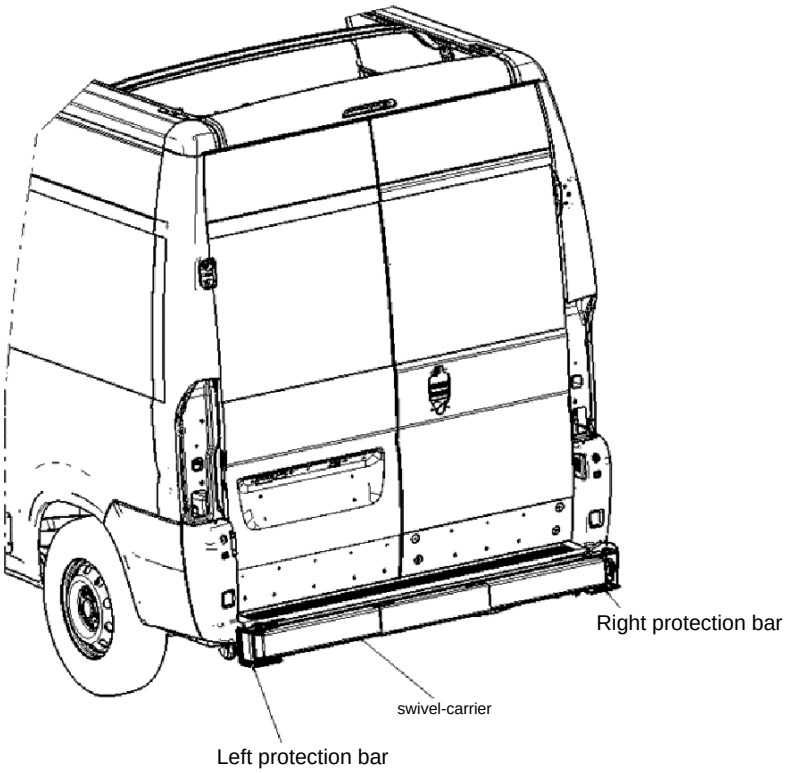


Section A-A

Original drawing scale 1:6; this reproduction is not to scale.

Step 11 / 12

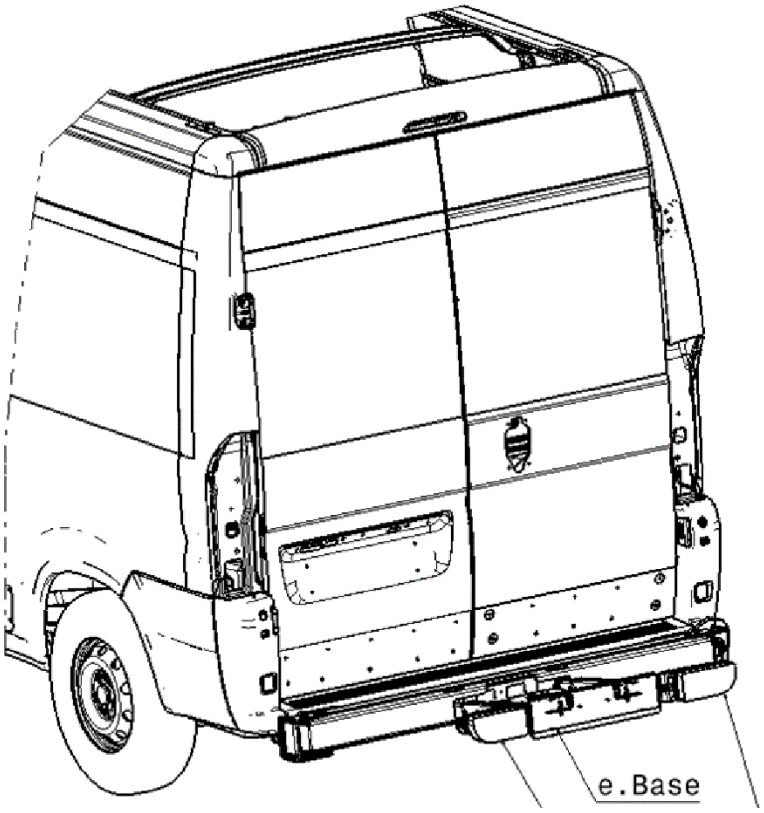
Fit the swivel-carrier and both protection bars.





Step 17

Test the lighting. Check operation of the swivel-carrier and adjust it if necessary.



Lighting check

