

FITTING INSTRUCTIONS

making everyday smoother



MERCEDES BENZ SPRINTER VS30 3.5T 4X4

***VB-FullAir 2C
rear axle***

FOR KIT: 1050227270, 1050227280, 1050227290.



REVISION TABLE

Document number:	730105022725-00	Old document number:	730105022725
New revision:	V00	Old revision:	V1.4
Release date (yyyy-mm-dd):	2024-09-25		
Page (new):	Changes:		
35, 36	Added: New PSM Module		

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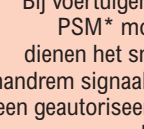
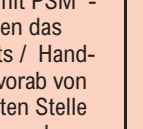
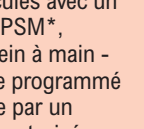
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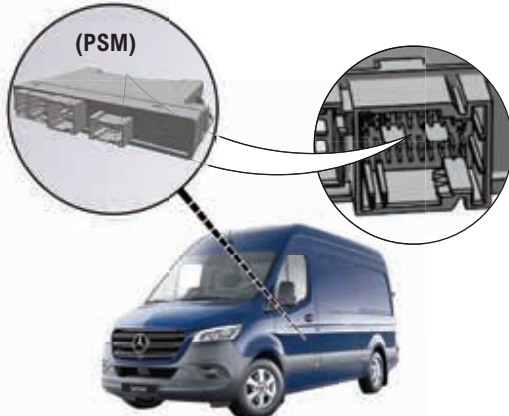
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	For vehicles with a PSM* module, the speed / handbrake - signal must be programmed in advance by an authorized body.		Bij voertuigen met een PSM* module, dienen het snelheids / handrem signaal vooraf door een geautoriseerde instantie geprogrammeerd te worden.		Bei Fahrzeugen mit PSM*-Modul müssen das Geschwindigkeits / Handbremse signal vorab von einer autorisierten Stelle programmiert werden.		Pour les véhicules avec un Module PSM*, la vitesse / frein à main - signal doit être programmé à l'avance par un organisme autorisé.
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Mercedes-Benz





PC

↓

PSM*



(P)



✓ 1 Hz = 1 km/h

✗ 1 Hz ≠ 1 km/h

* PSM, Parameterisable Special Module

1.




2.



INSTALLATION GUIDELINES
73010500004-ALL



3.



FITTING INSTRUCTIONS
730XXXXXXXXX-ALL



4.

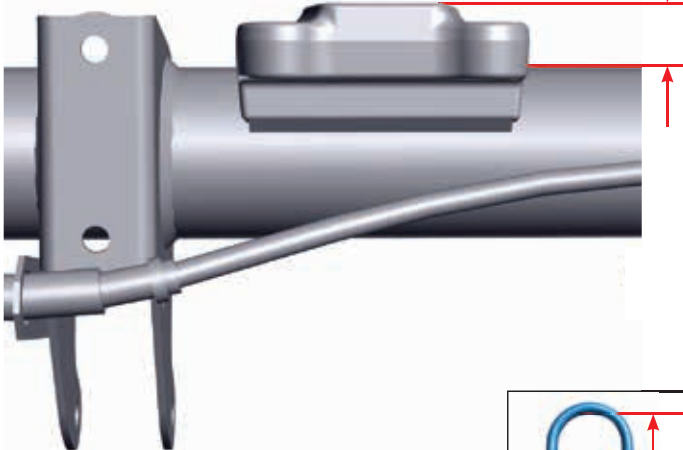
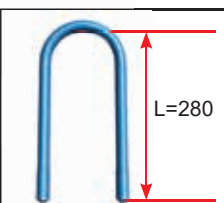




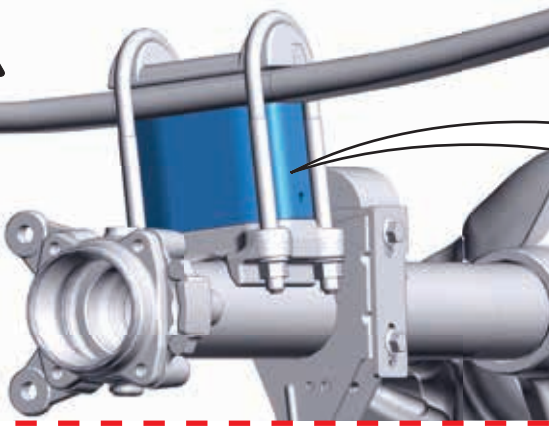
Attention: Always read the installation guidelines before you start with the FITTING INSTRUCTIONS and the fitting of the set. Follow the guidelines prescribed by VB-Airsuspension.

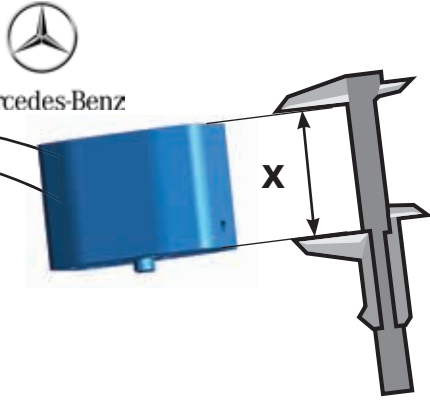


1. VARIATIONS / VARIATIES / VARIATIONEN / VARIATIONS

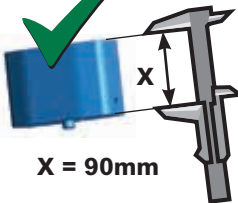
WHEELBASE	OPTIONS CODE
A2  3665	B TR245: – AL1 ($h = 25\text{mm}$)   
A3  4325	
B2  3665	
B3  4325	

Attention: Before starting to assemble the set, the height of the original filling blocks of the main springs must be measured. These must be 90mm to be able to mount the set!

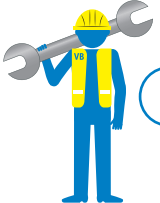







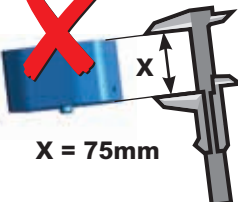



$X = 90\text{mm}$



1....





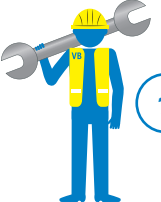
$X = 75\text{mm}$




Order artnr:
1052025746 (90mm)




$X = 90\text{mm}$

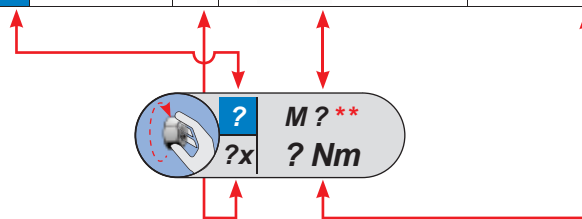


1....

2. FASTENERS / BEVESTIGINGSMATERIAAL / BEFESTIGUNGSMATERIAL / MATÉRIAUX DE FIXATION

ALL				
Nr.	Article number	Qty	Product Name	Nm
12	0010705010CA	4	 M5x10 10.9 RIPP	4.8Nm +/- 0.5Nm
10	0010708020CA	2	 M8x20 10.9	20Nm +/- 2Nm
11	0010708020CA	2	 M8x20 10.9	20Nm +/- 2Nm
5	0010710050CA	6	 M10x50 10.9	57Nm +/- 5.7Nm
9	0010712030DA	2	 M12x30x1.5 10.9	104Nm +/- 10.4Nm
6A	0010712040DA	4	 M12x40x1.5 10.9	104Nm +/- 10.4Nm
6B				
3	0010712110DA	2	 M12x110x1.5 10.9	104Nm +/- 10.4Nm
1A		2		
1B	0010712120DA	2	 M12x120x1.5 10.9	104Nm +/- 10.4Nm
7	0010716090DA	1	 M16x90x1.5 10.9	245Nm +/- 25Nm
8	0010716110DA	1	 M16x110x1.5 10.9	245Nm +/- 25Nm

ALL				
Nr.	Article number	Qty	Product Name	Nm
4	0011112000DA	8	 M12x1.5 10.9 (OEM)	104Nm +/- 10.4Nm
2	0011114002SP	8	 M14x1.5 radius seat	30Nm>70Nm>100Nm>178Nm +/- 18Nm + 180°
16	0011116003DA	2	 M16x1.5 10.9	245Nm +/- 25Nm
13	0015206025AF	2	 Screw Ø6x25mm Torx	5Nm +/- 0.5Nm
15	0010110080CA	4	 Bolt M10* 80 10.9	57Nm +/- 5.7Nm
17	1052025268	4	U-Bolt 14mm L=280mm	-
18	1052095178	2	 Ball-joint M6	5Nm
19	0011106001AB	2	 Flange nut M6 8.8	5Nm +/- 0.5Nm
20	0011210000AA	4	 Washer M10 300HV	-



****** Do not tighten the bolts yet. Tighten as soon as the vehicle is at driving height as indicated in this manual.



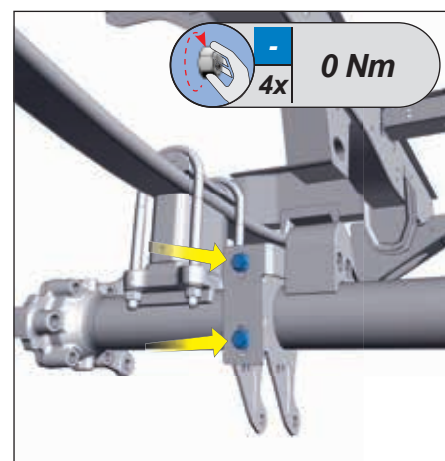
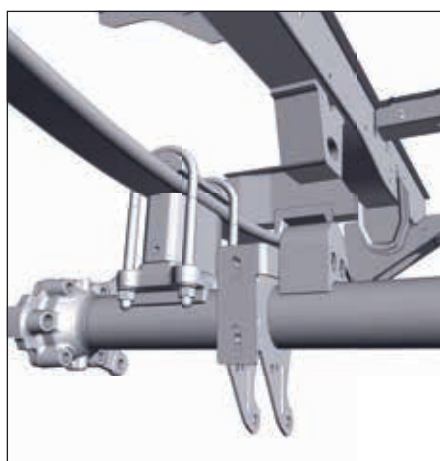
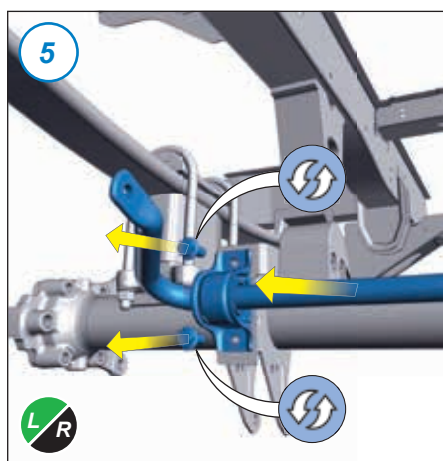
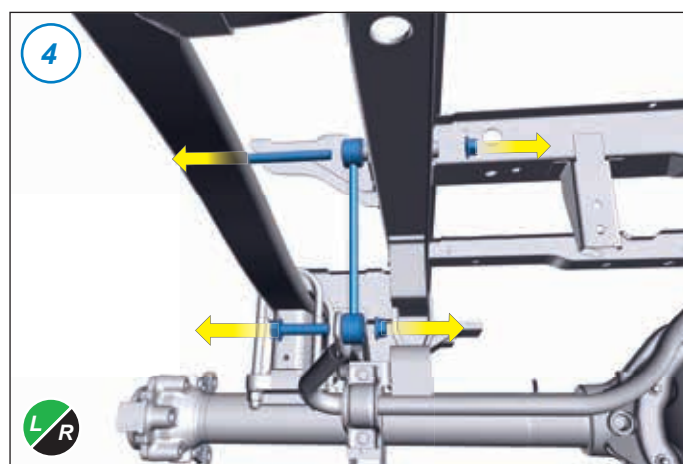
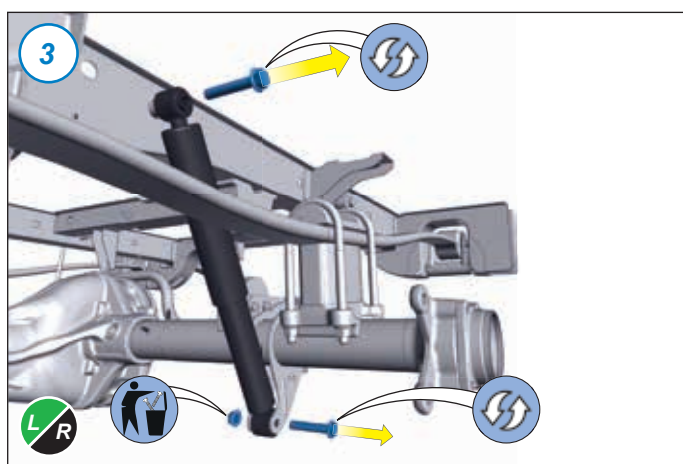
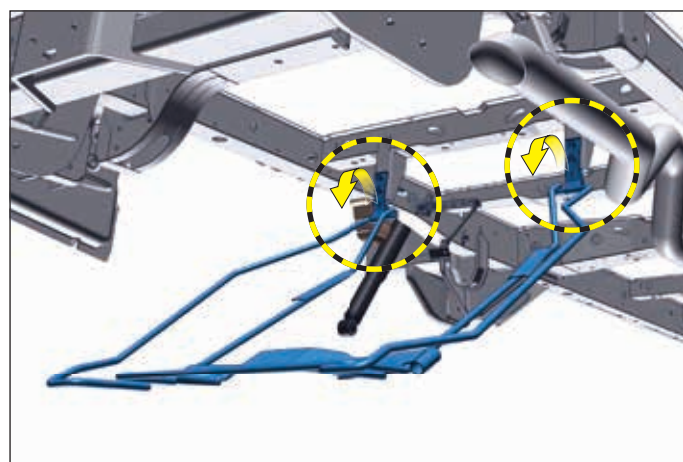
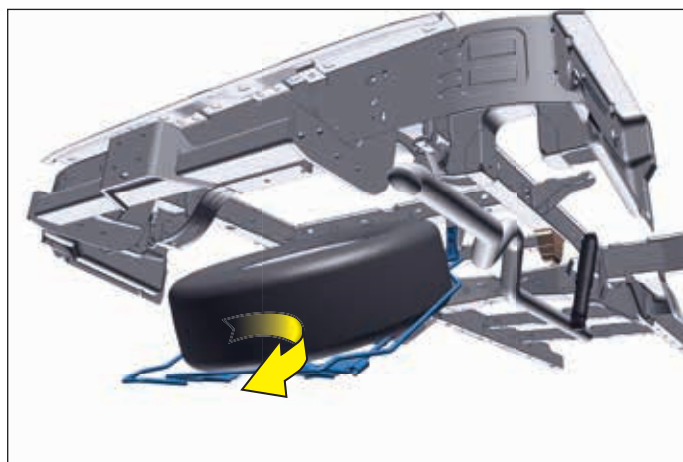
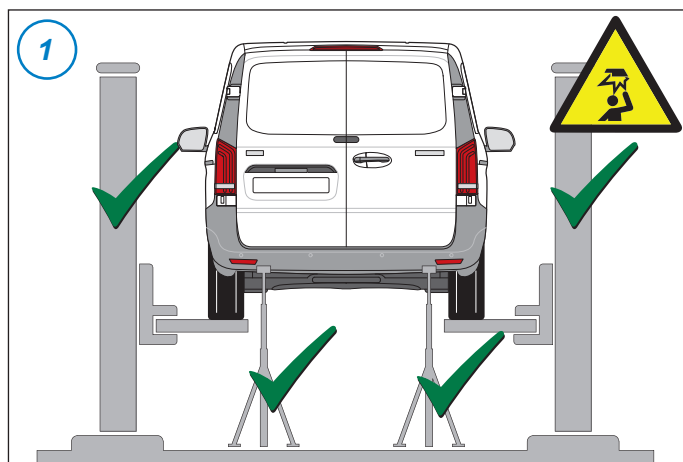
When the original nuts and bolts are reused, follow the guidelines of the vehicle manufacturer for the correct tightening torque.

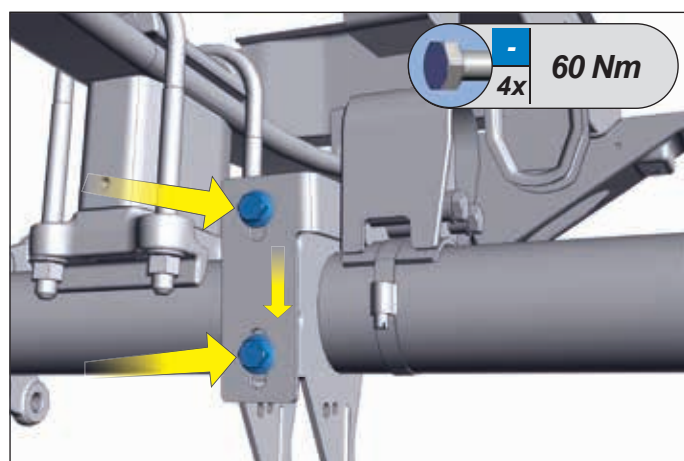
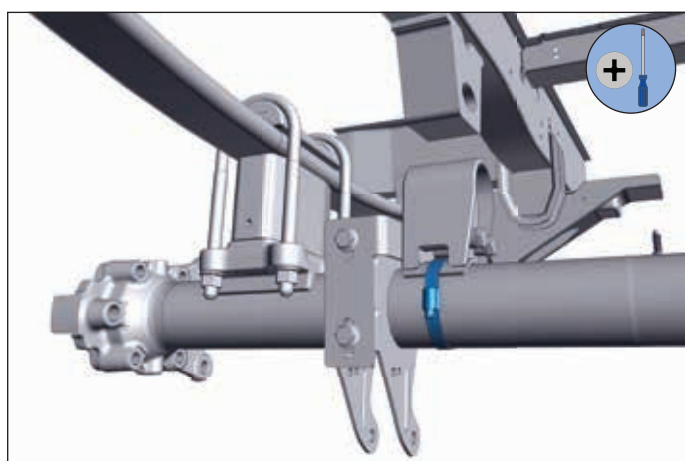
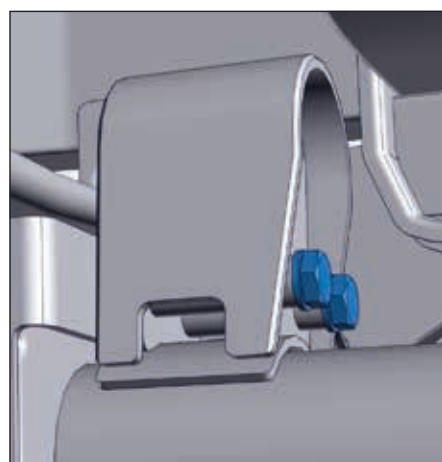
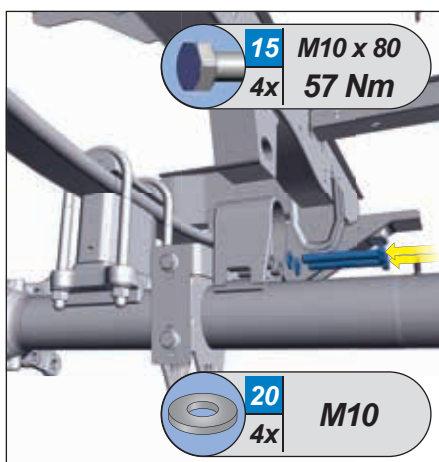
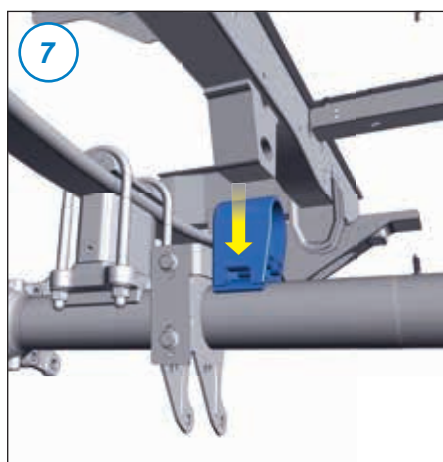
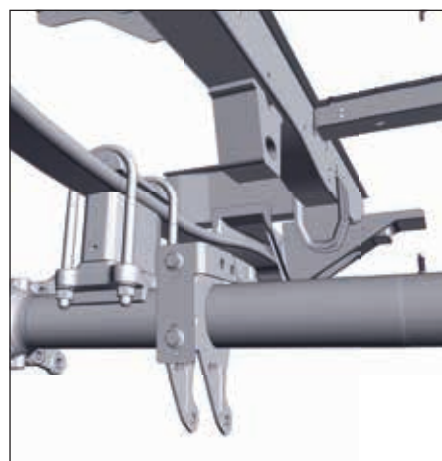
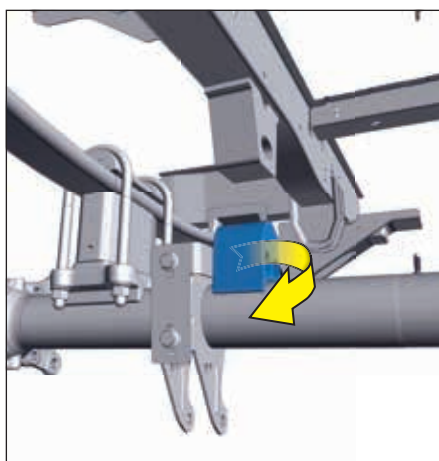
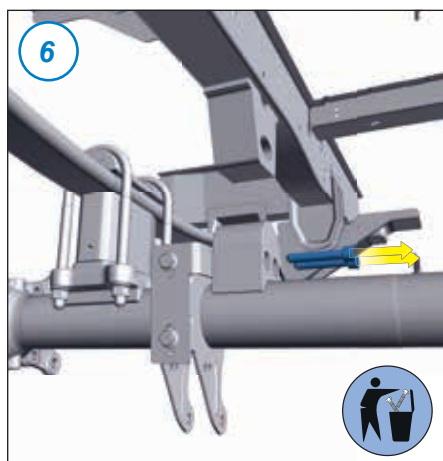
Axle:	Calibration height:	Order number:
Rear axle	145 mm	0090000127



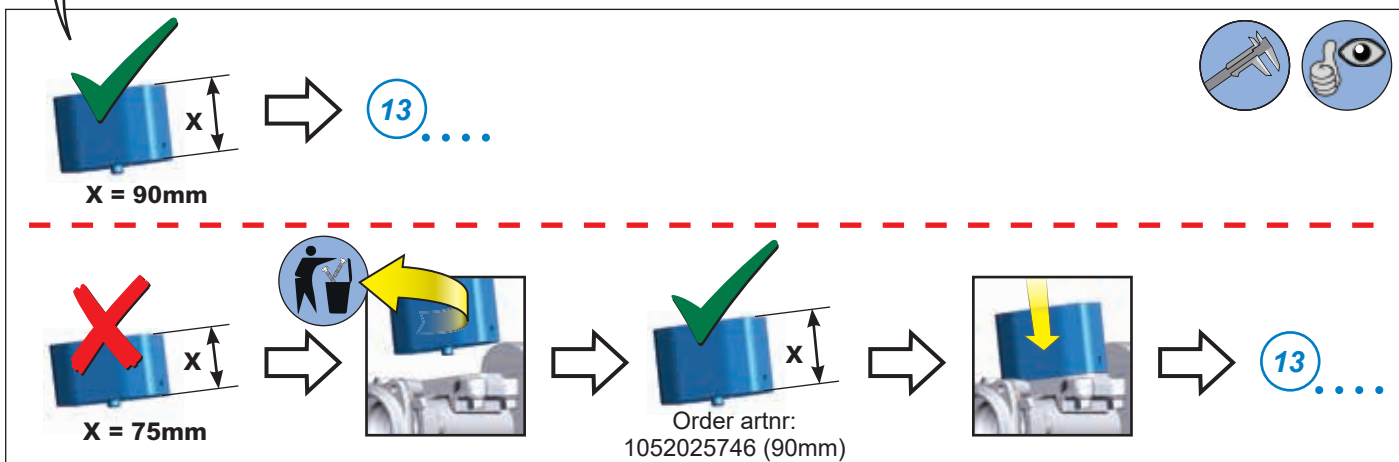
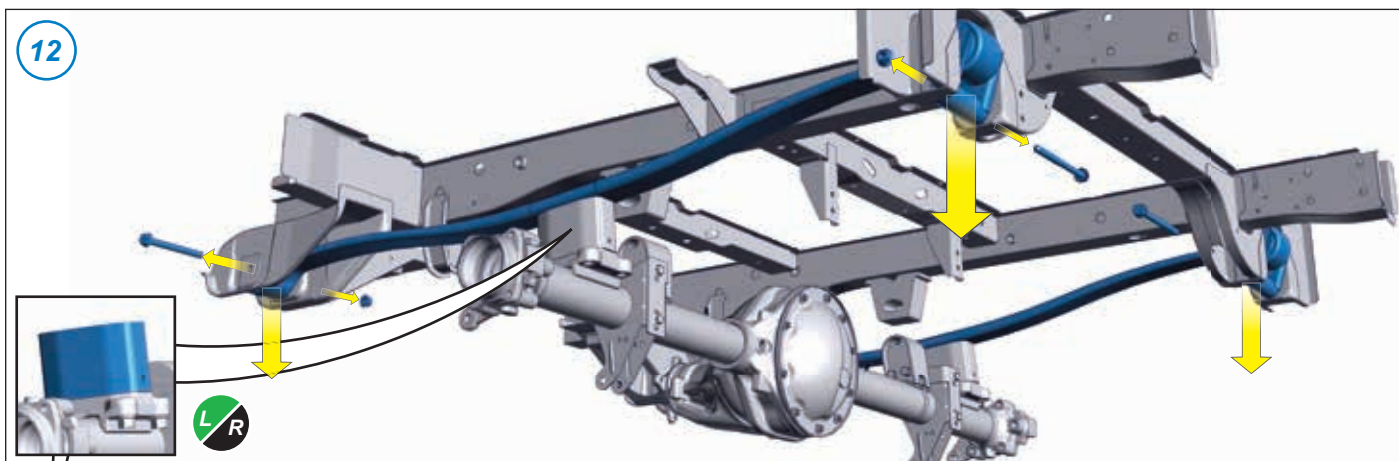
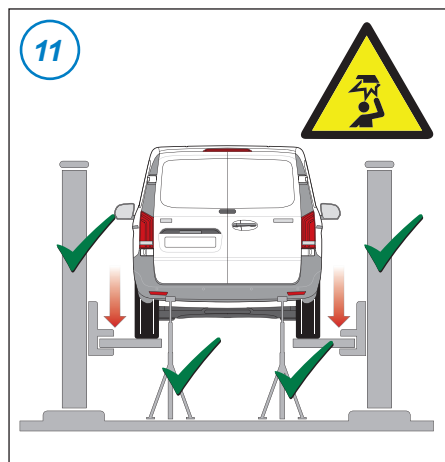
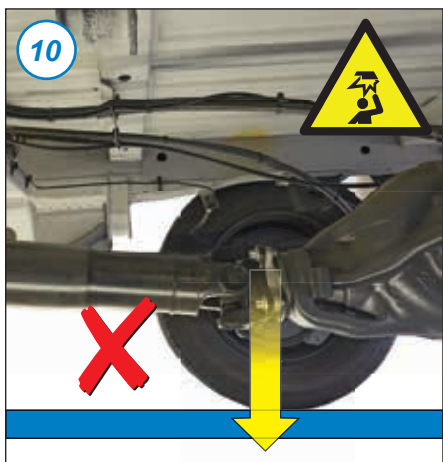
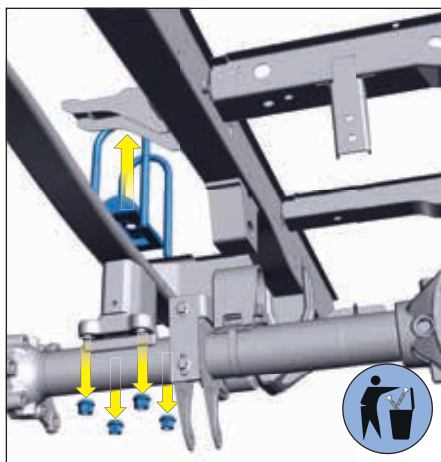
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A2 A3 B2 B3 B

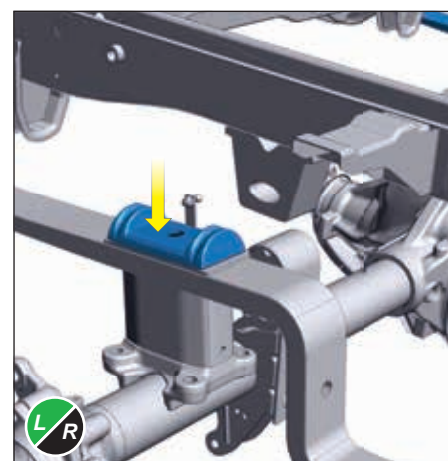
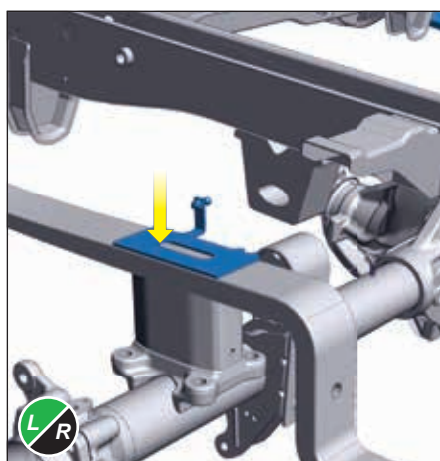
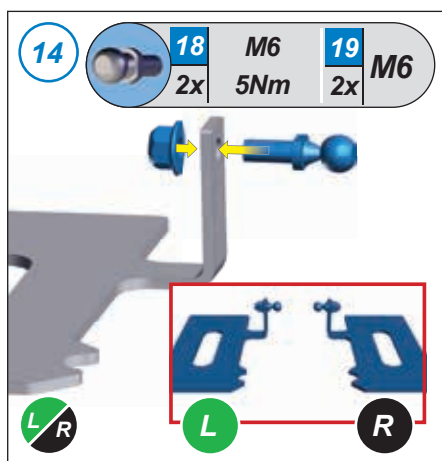
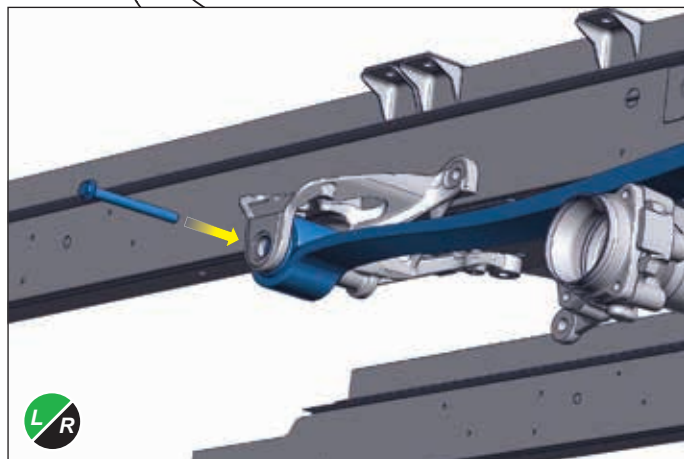
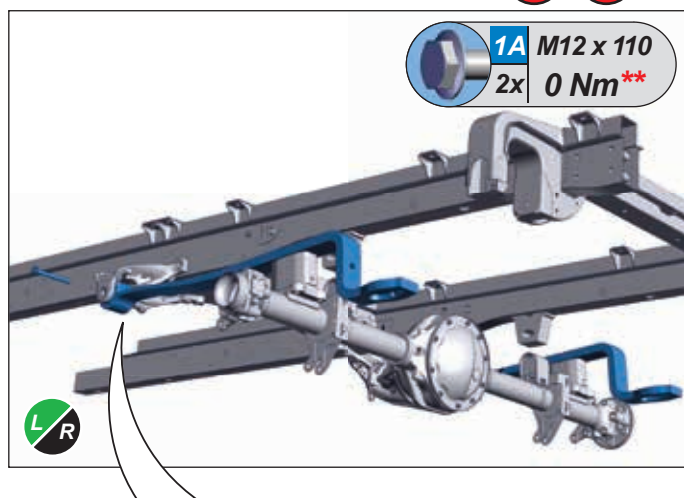
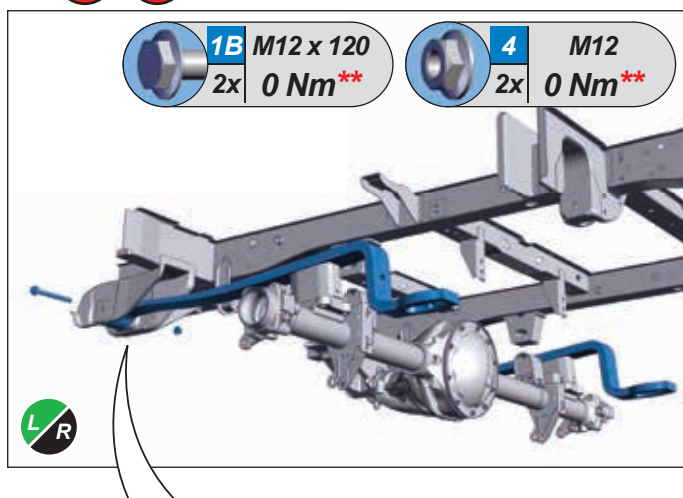
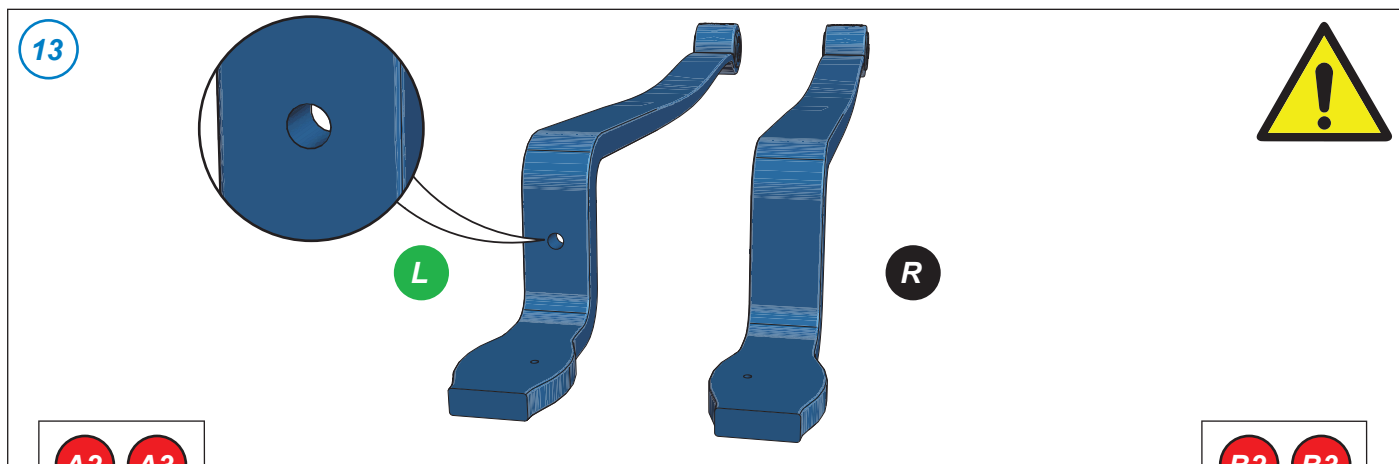




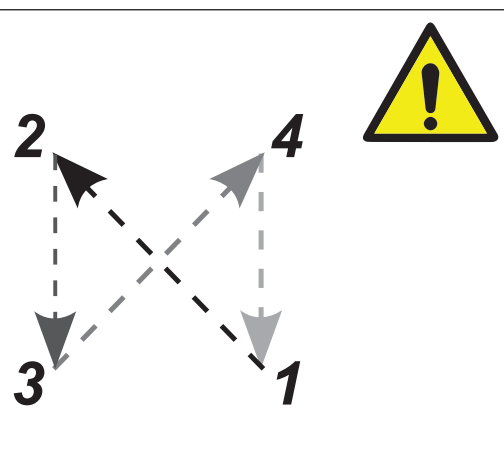
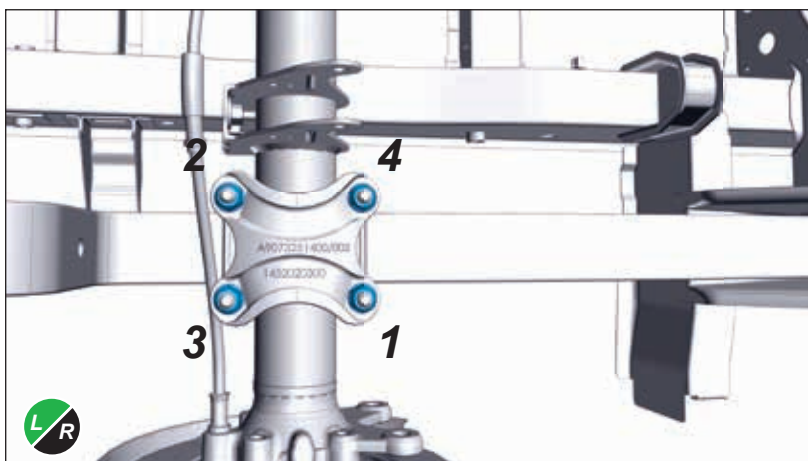
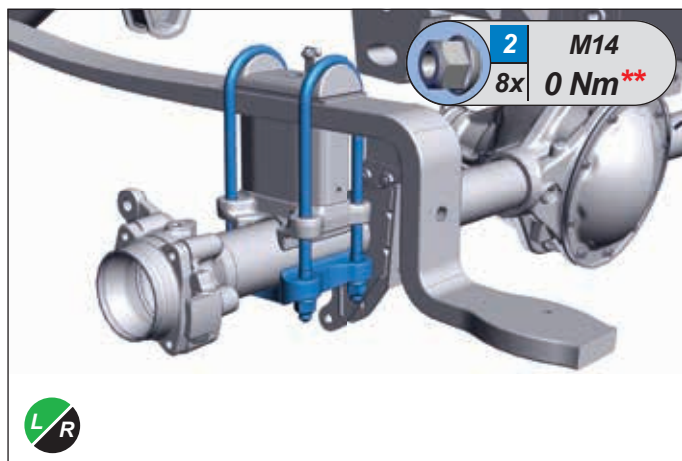
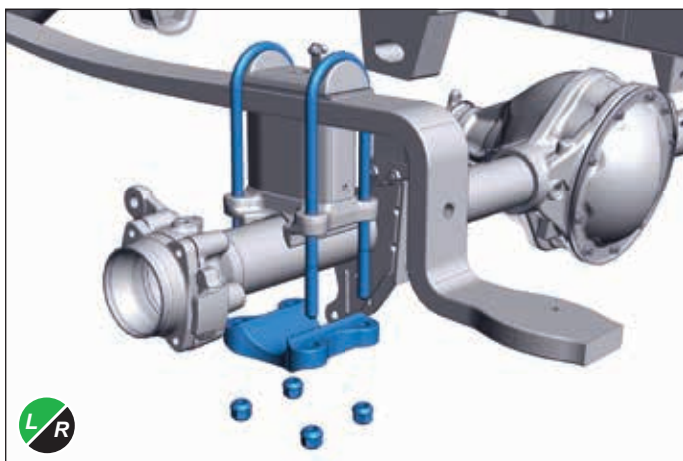
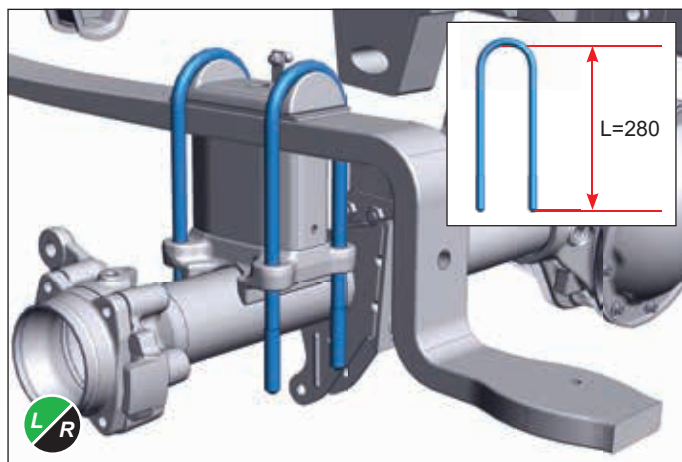
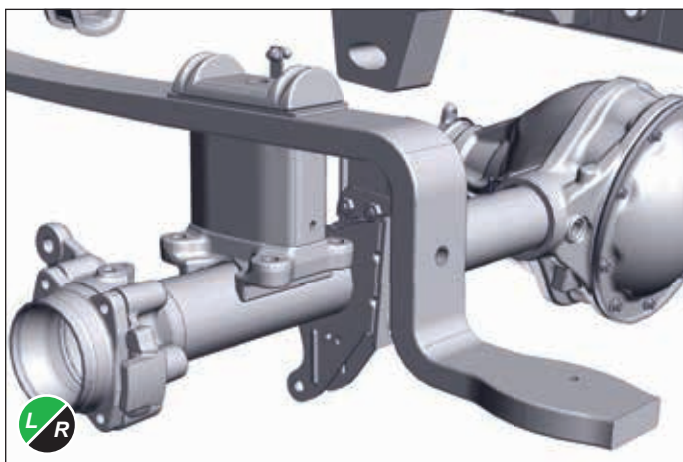
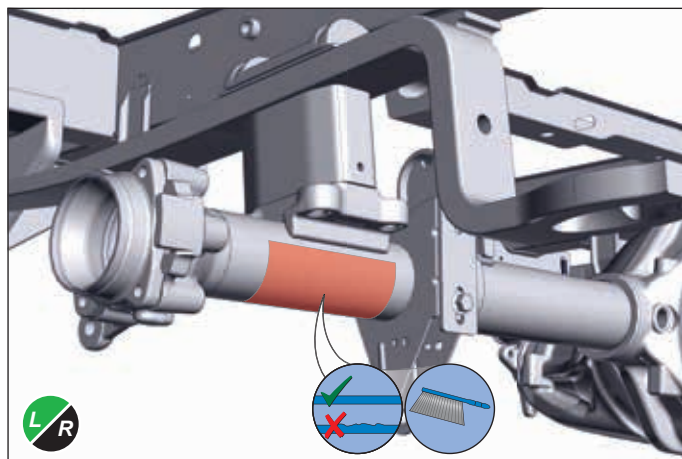
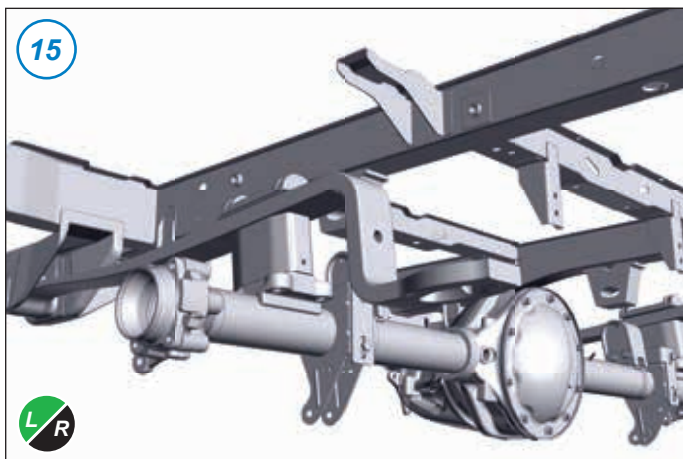
A2 A3 B2 B3 B



A2 A3 B2 B3 B



A2 A3 B2 B3 B



A2 ~~A1~~ ~~A3~~ ~~A4~~ ~~A5~~ B

16

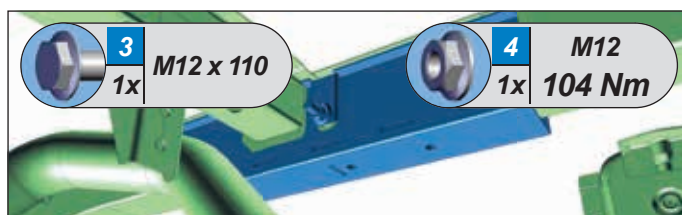
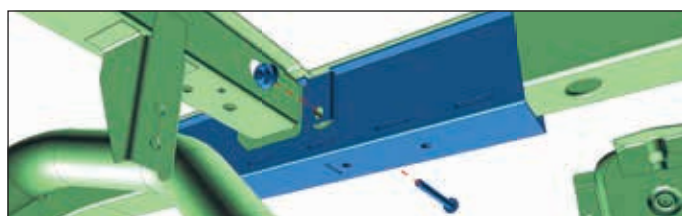
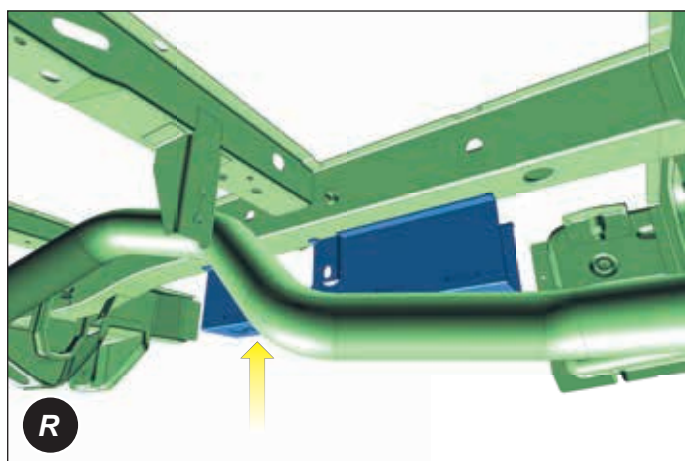
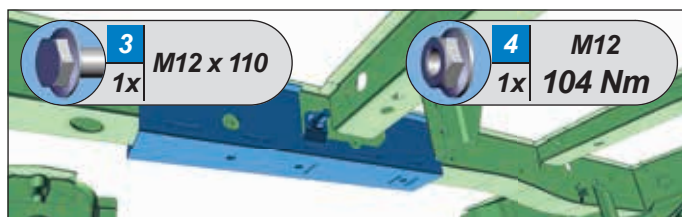
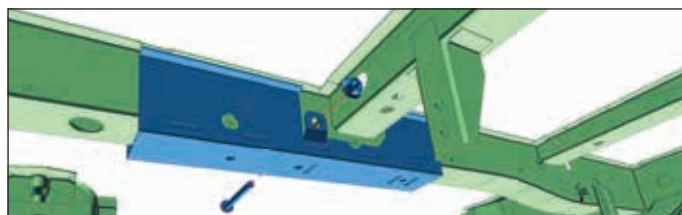
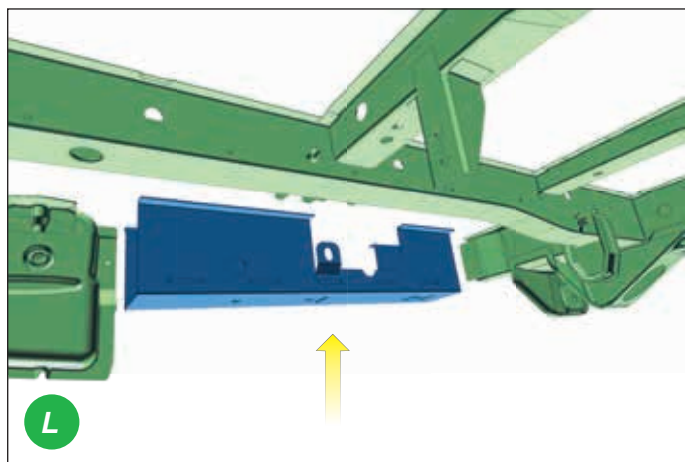
1052040256 (L)



L

R

1052040257 (R)





16

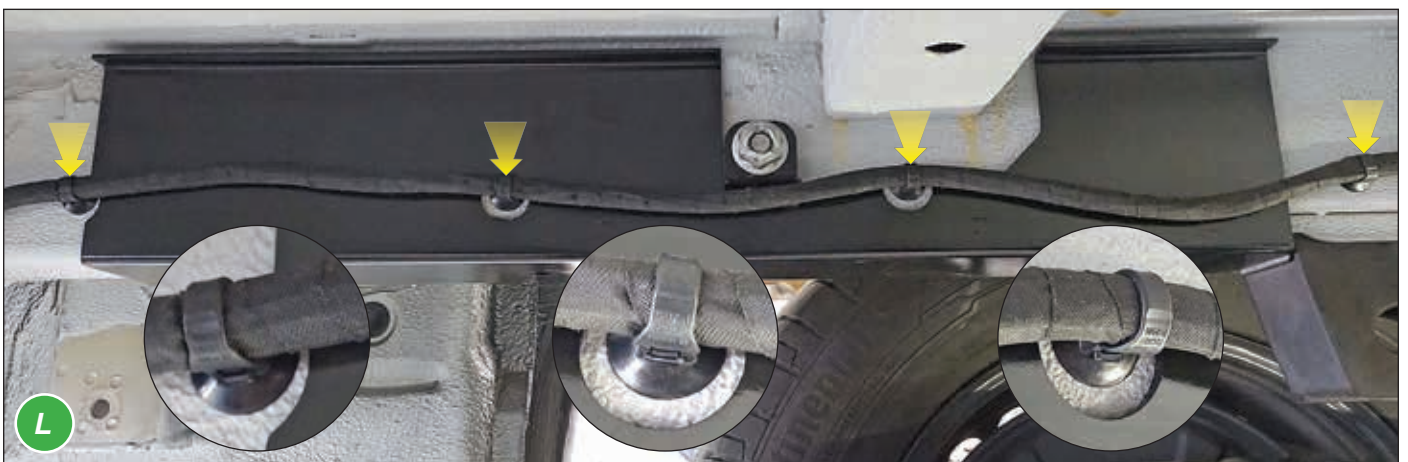
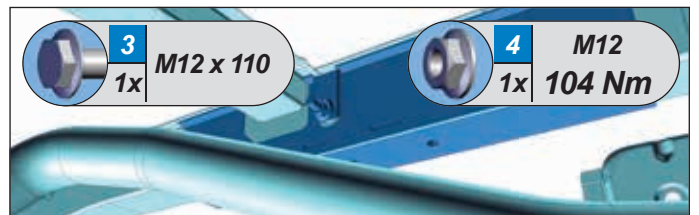
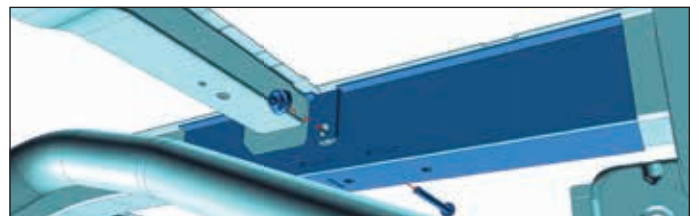
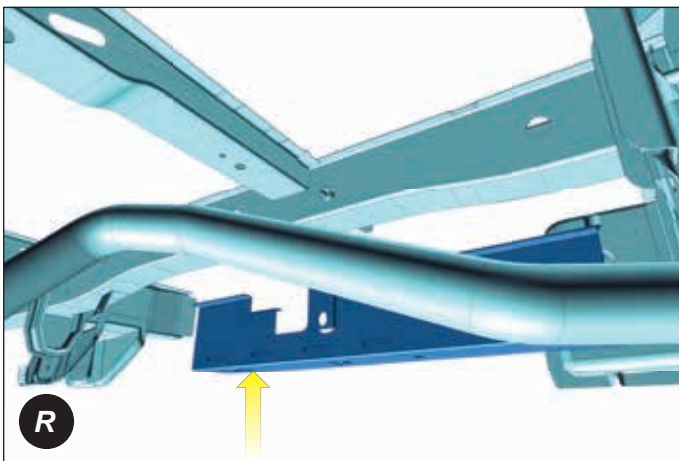
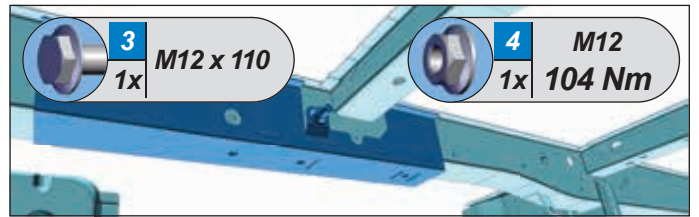
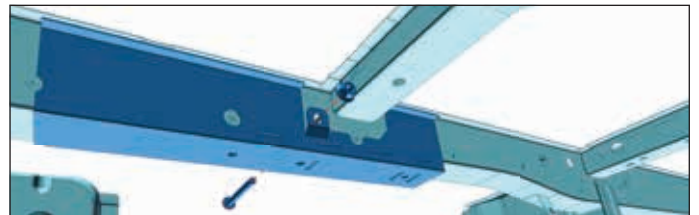
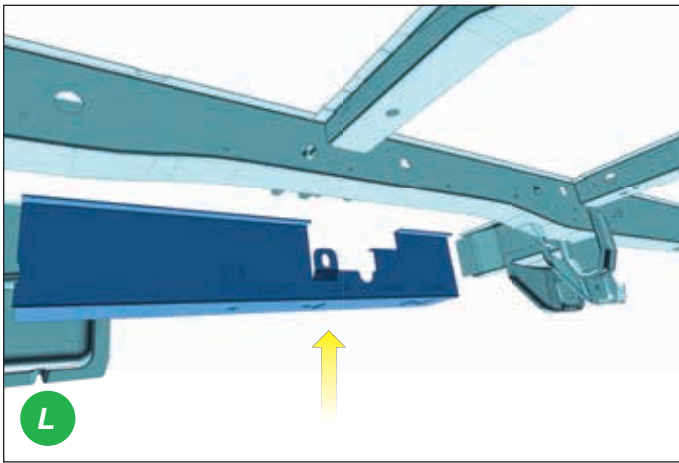
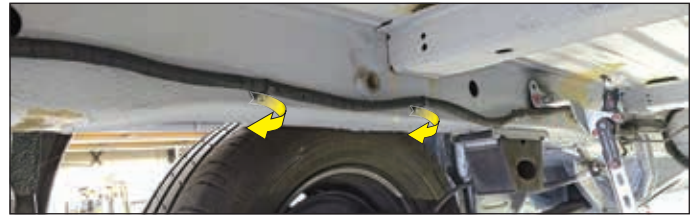
1052040258 (L)



L

R

1052040259 (R)





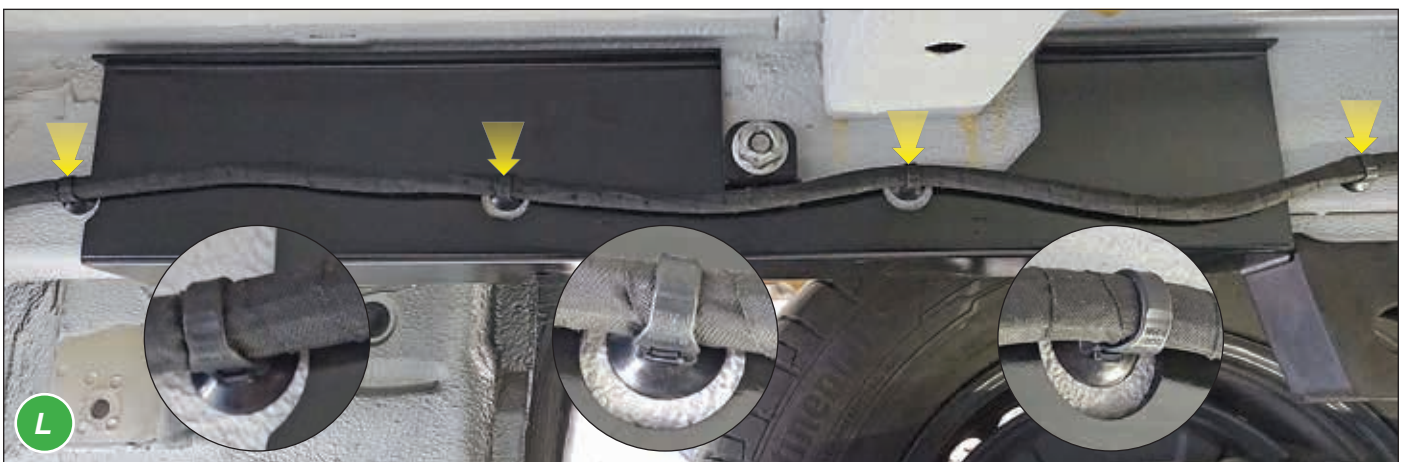
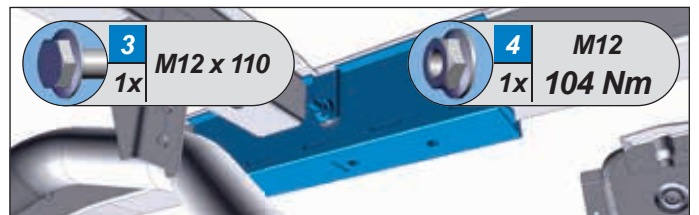
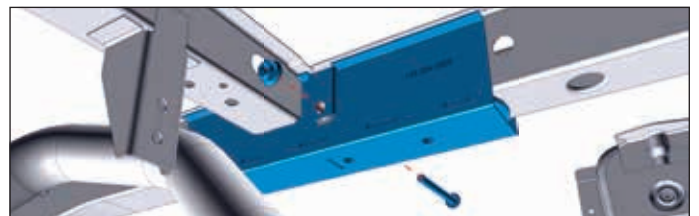
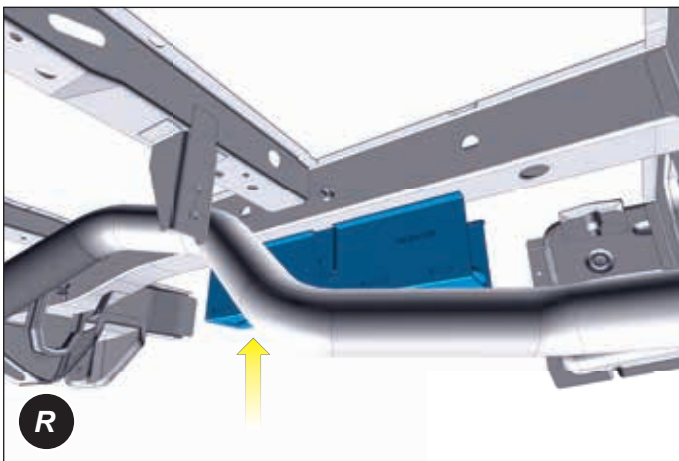
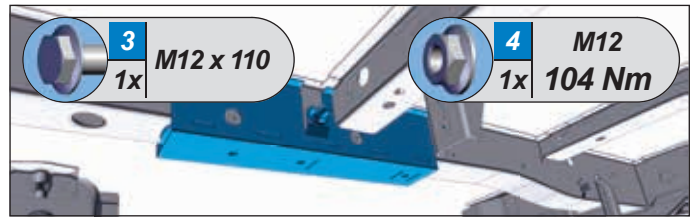
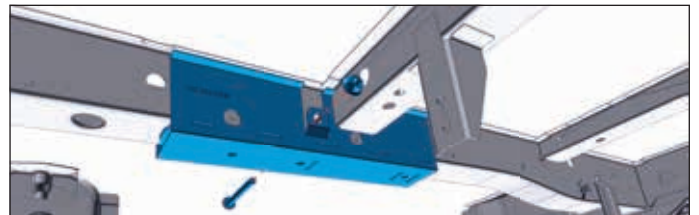
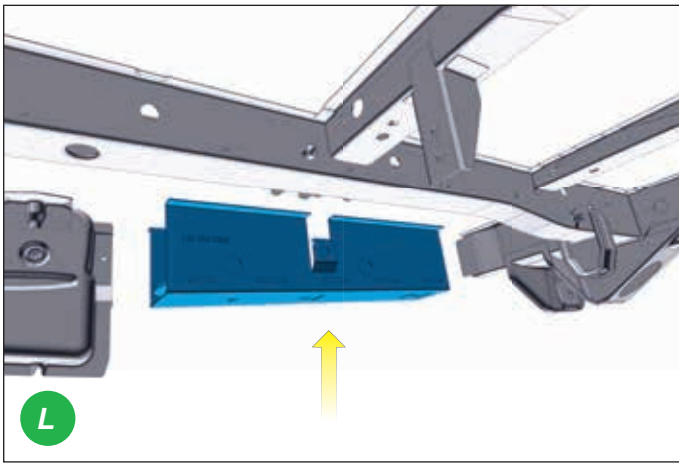
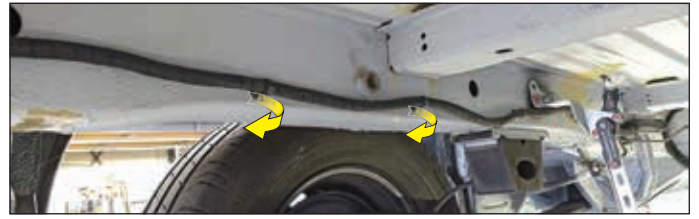
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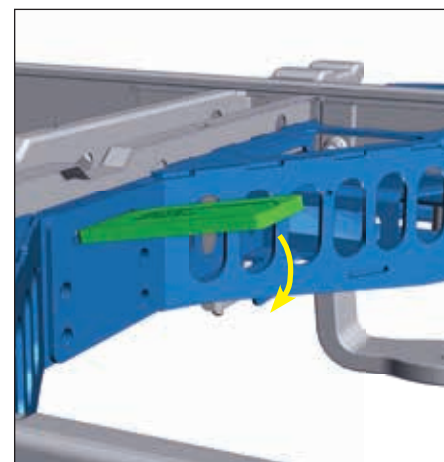
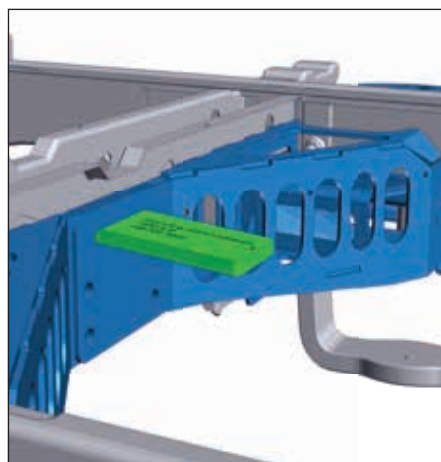
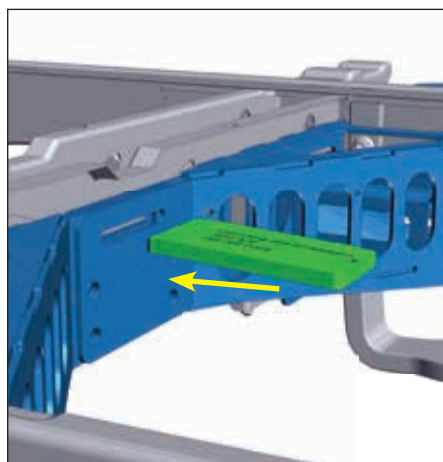
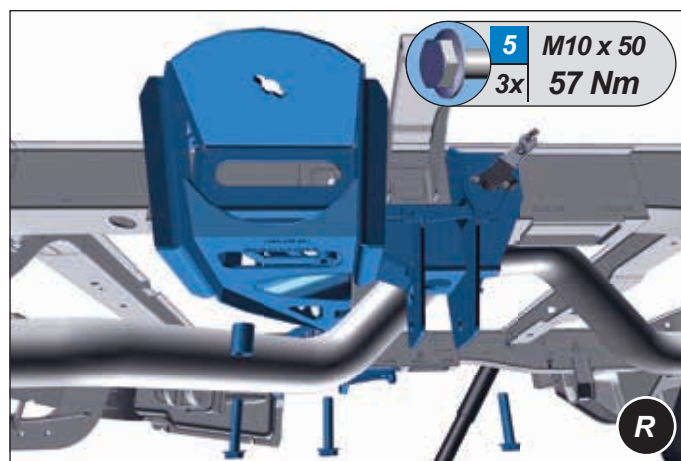
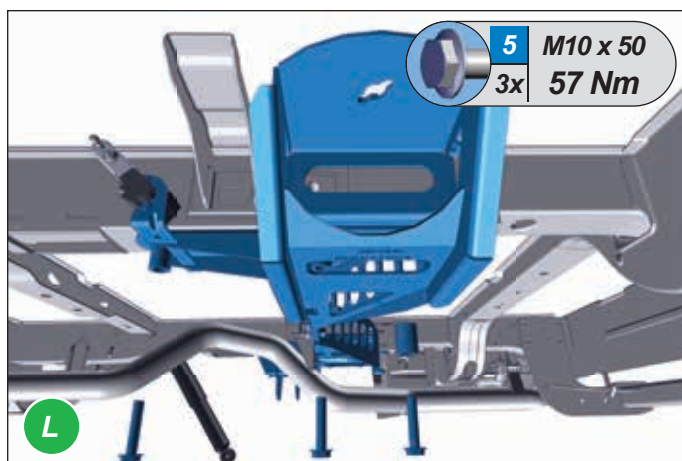
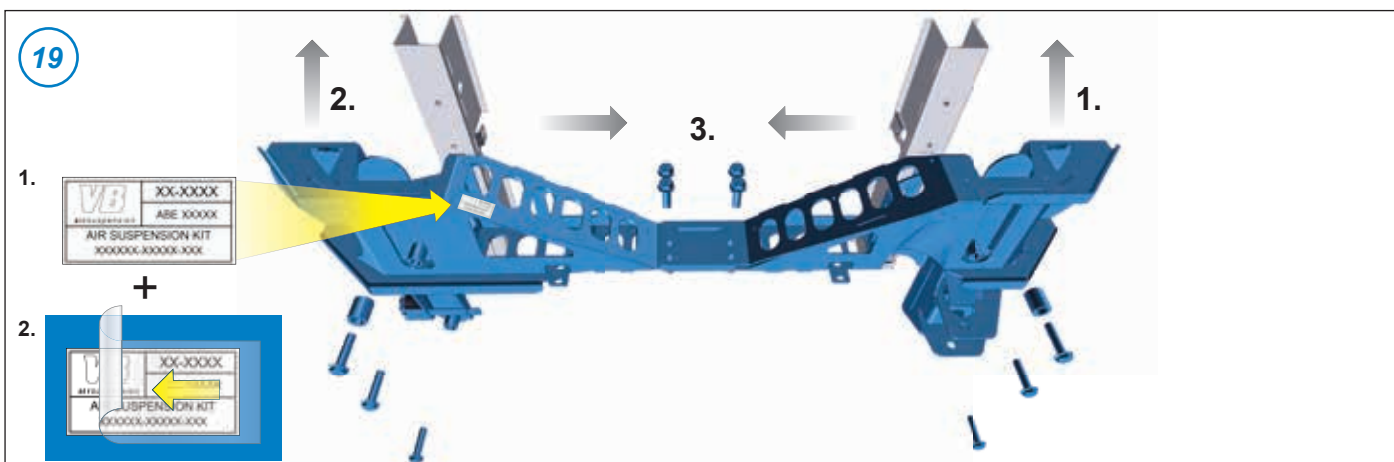
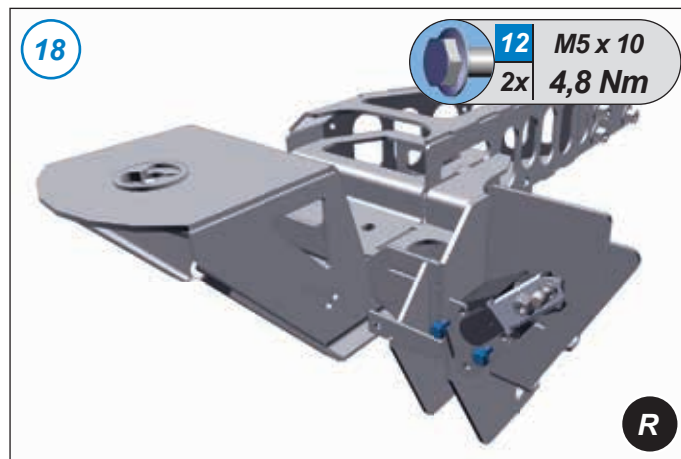
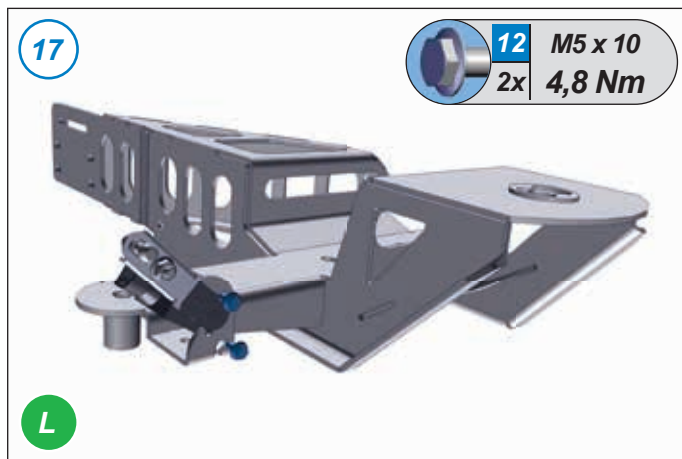
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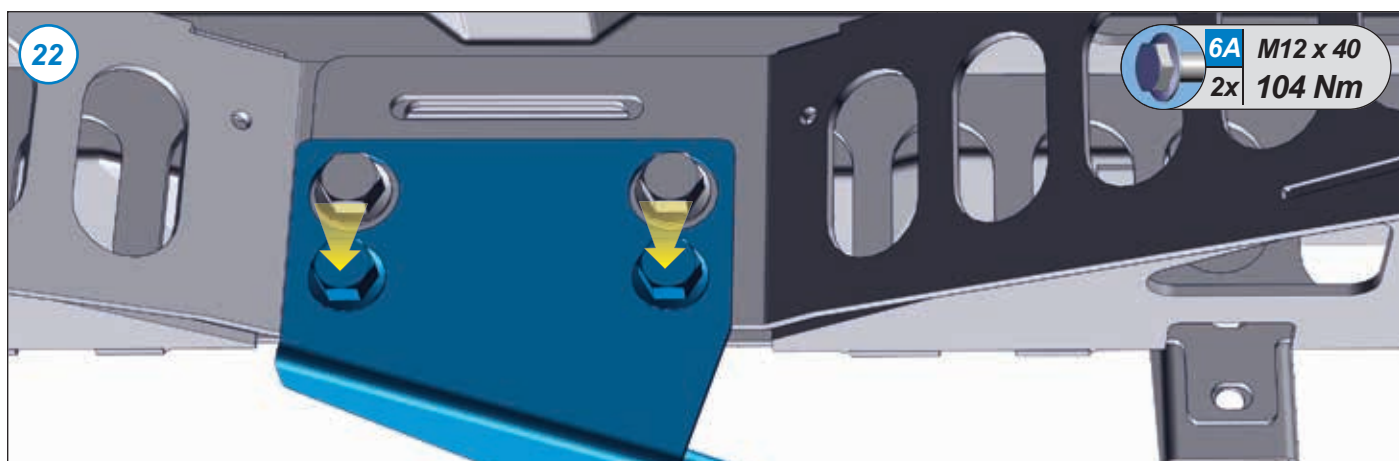
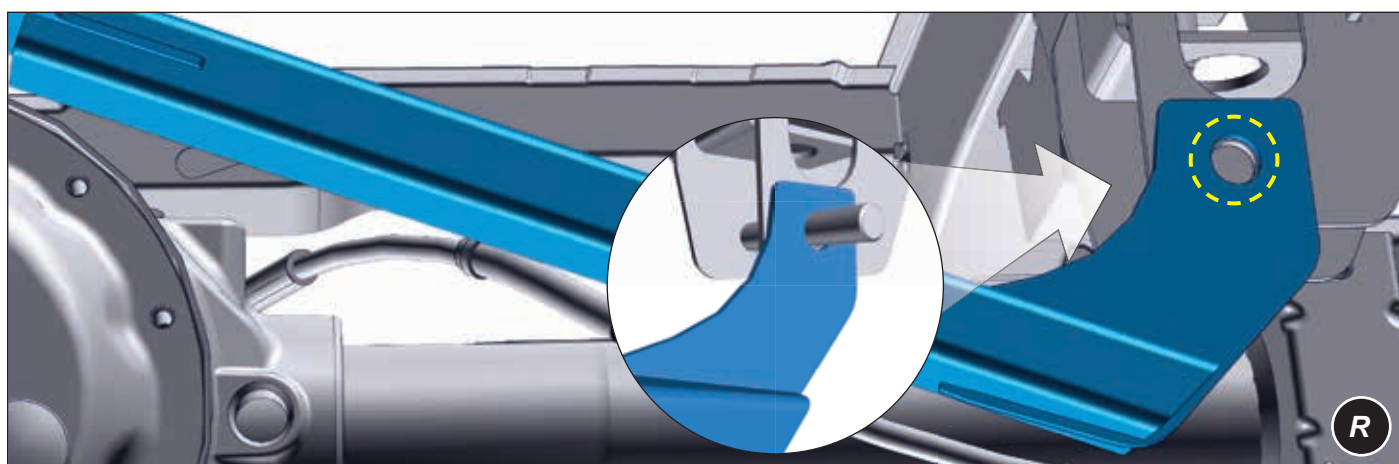
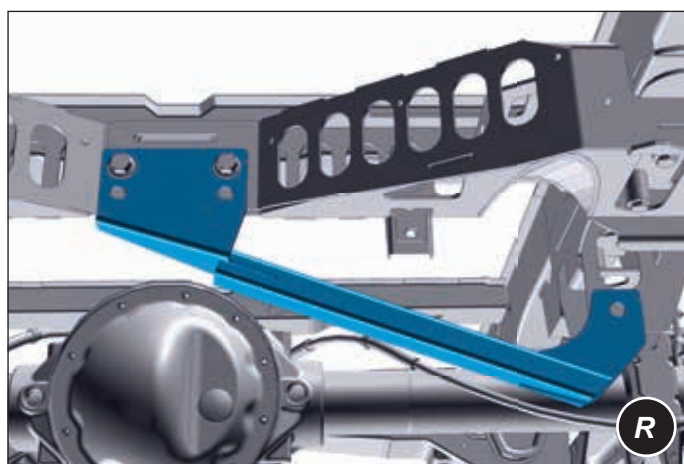
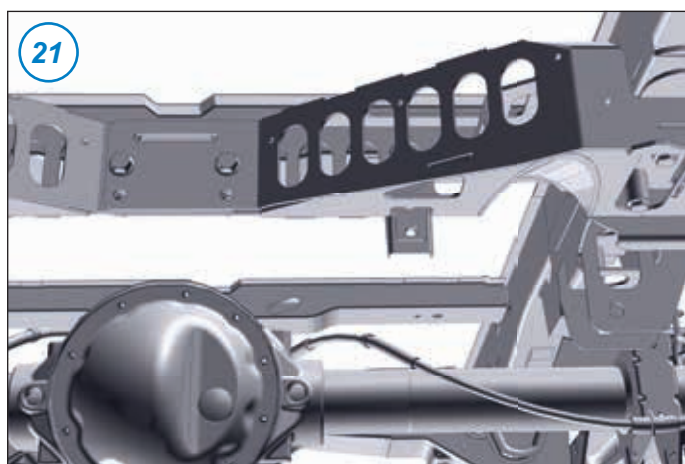
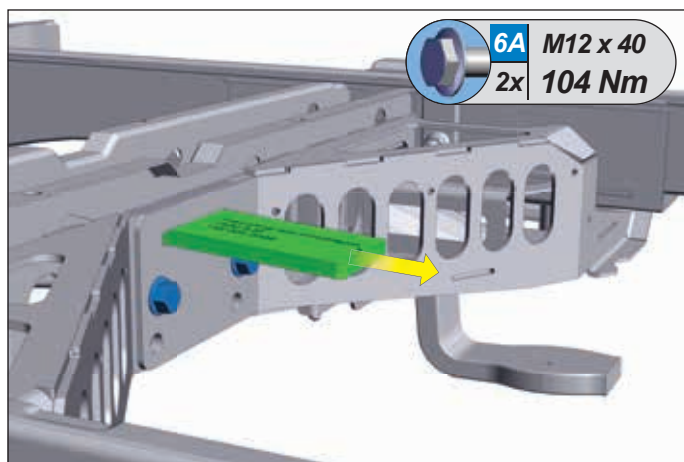
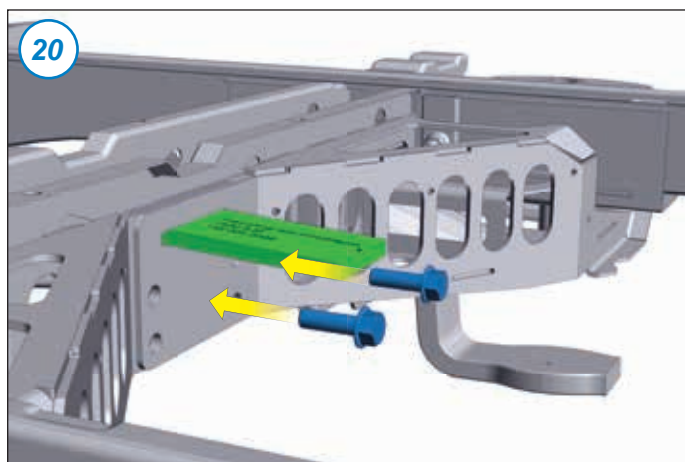
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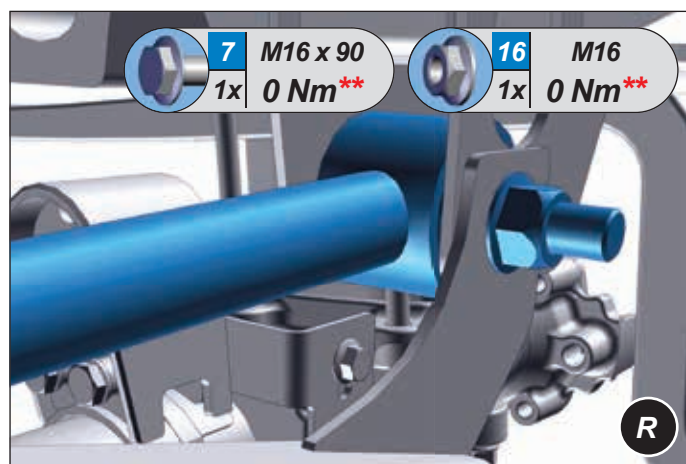
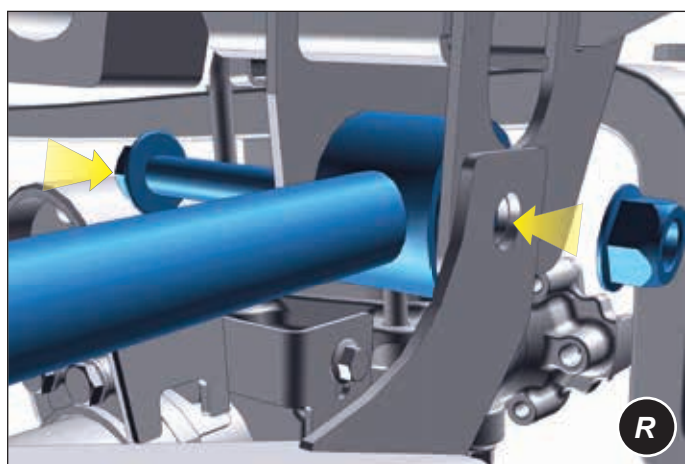
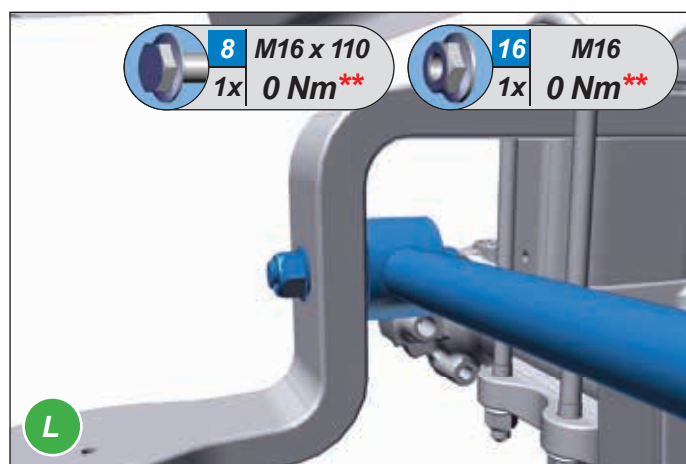
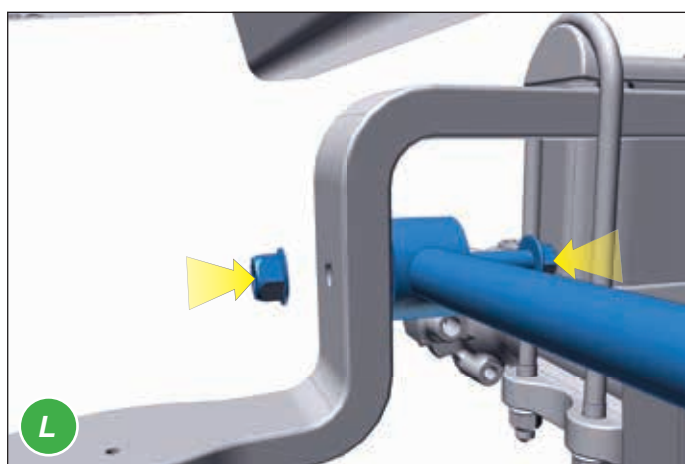
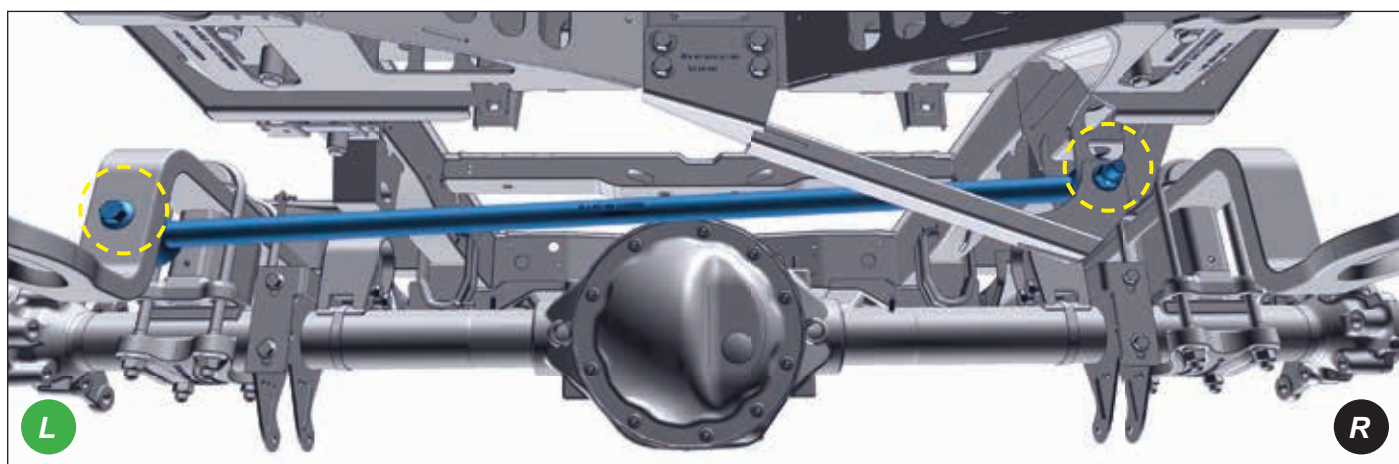
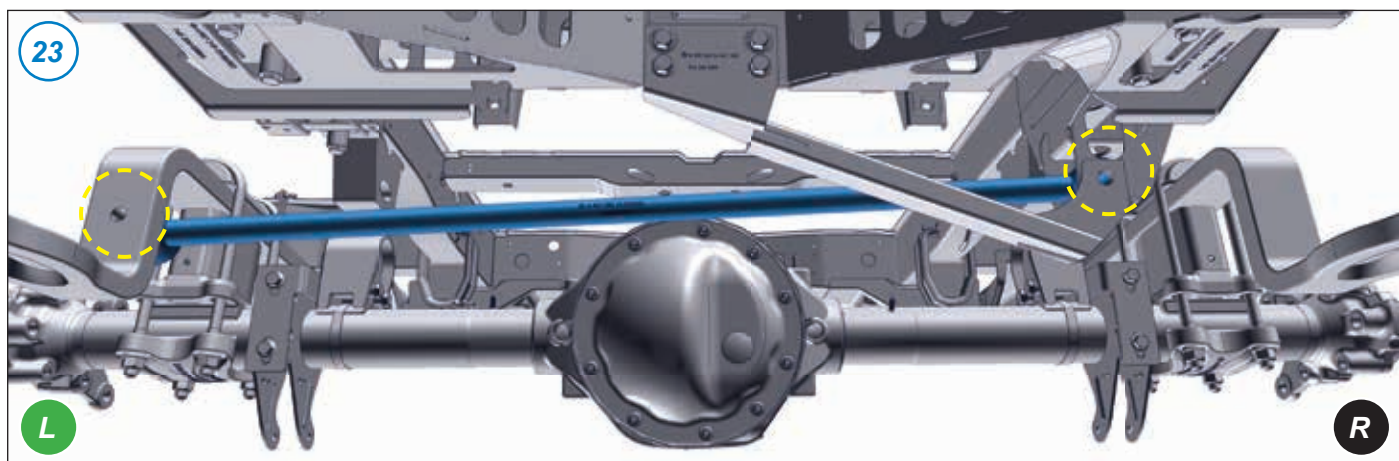
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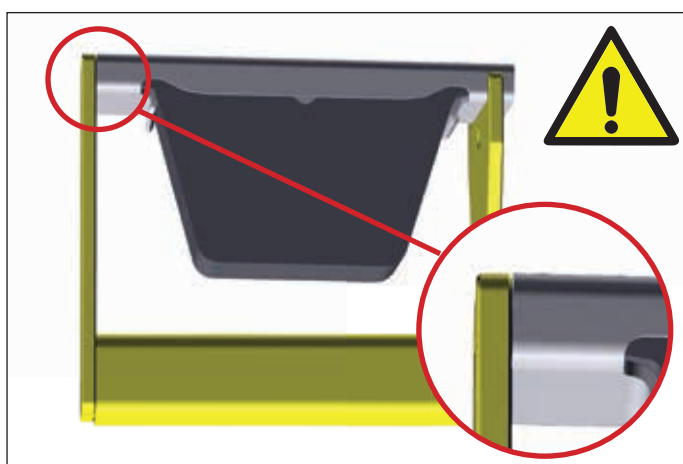
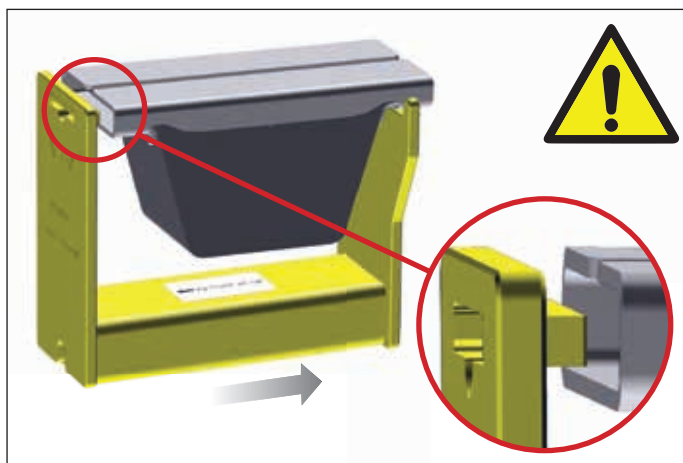
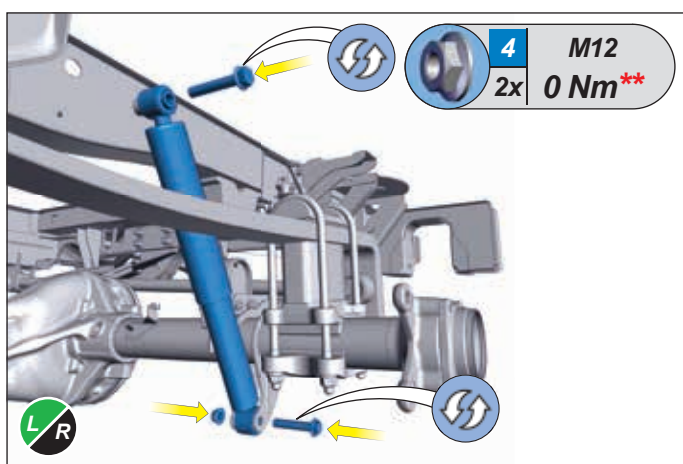
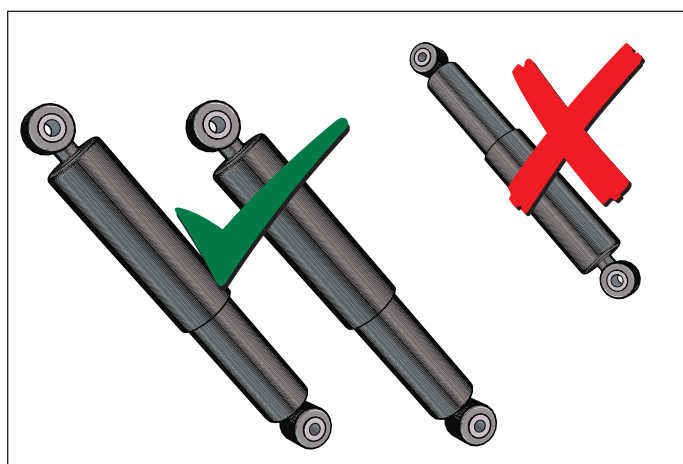
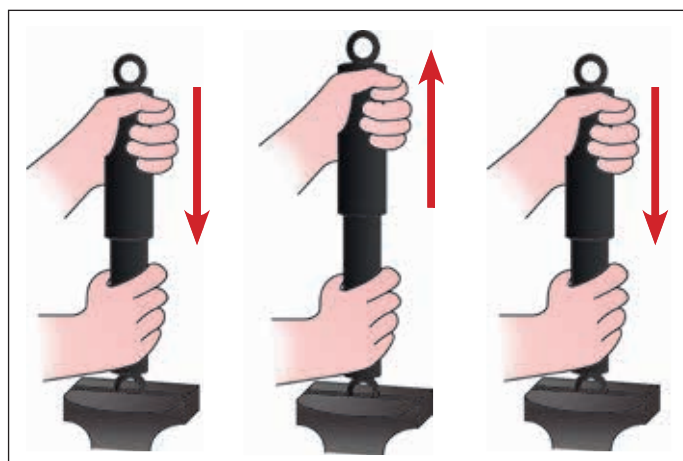
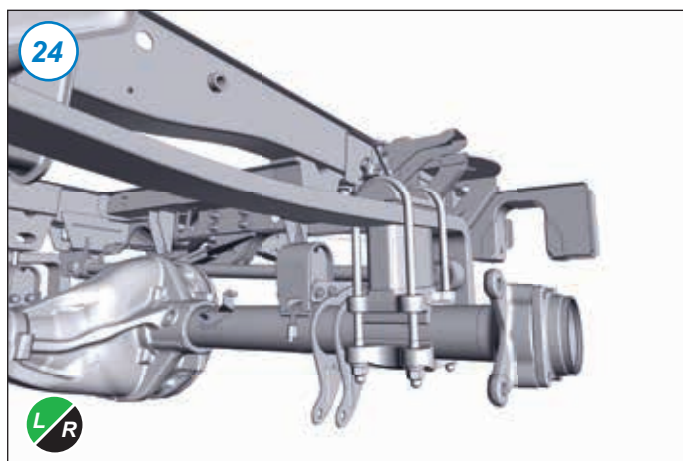
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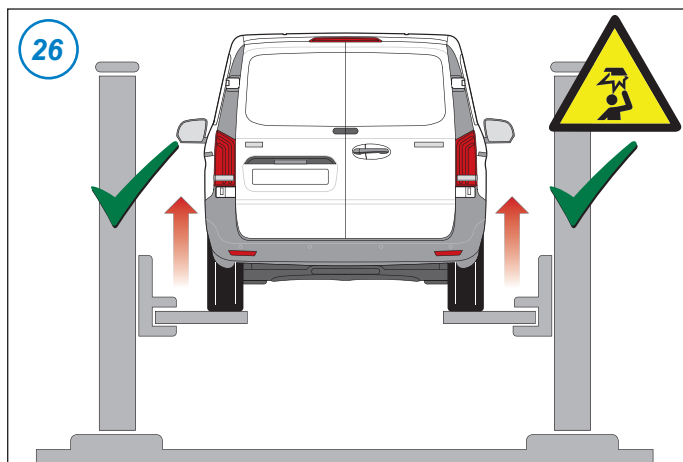
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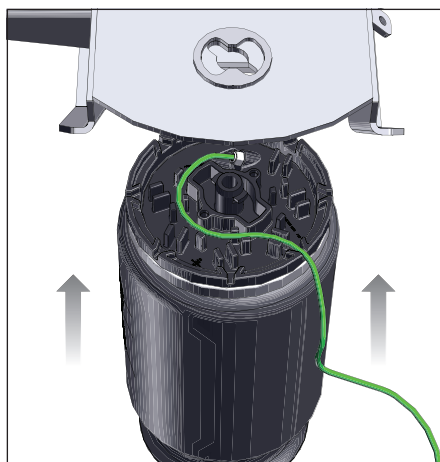
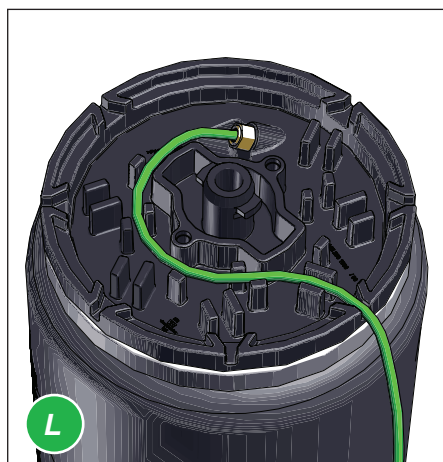
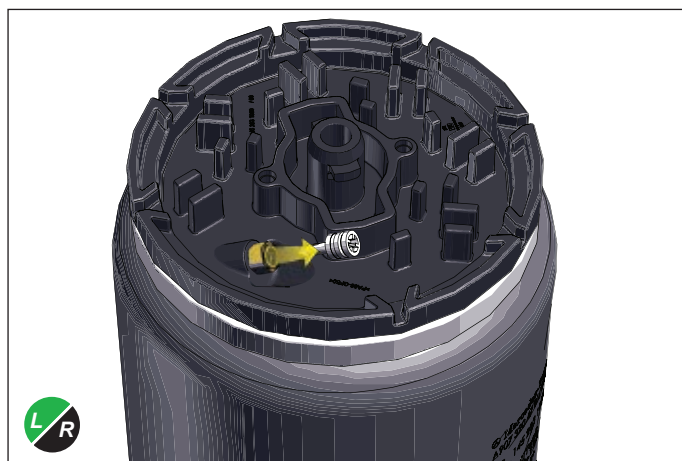
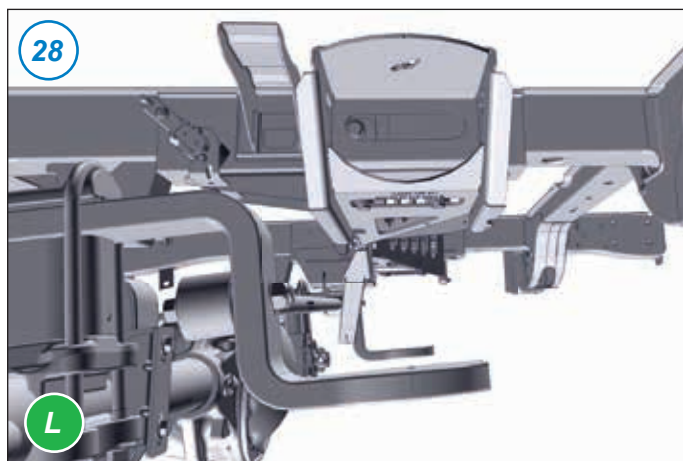


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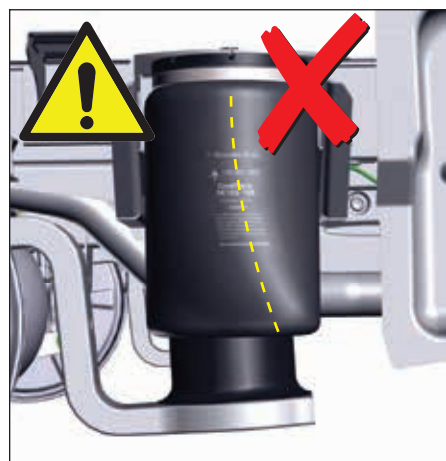
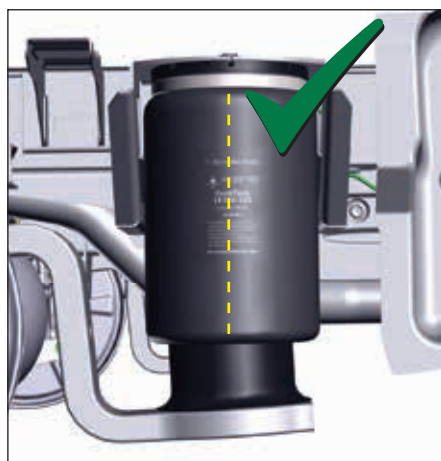
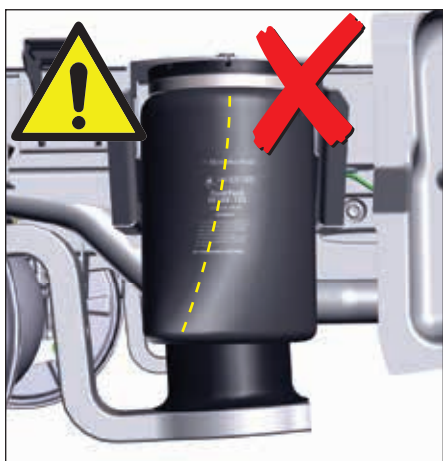
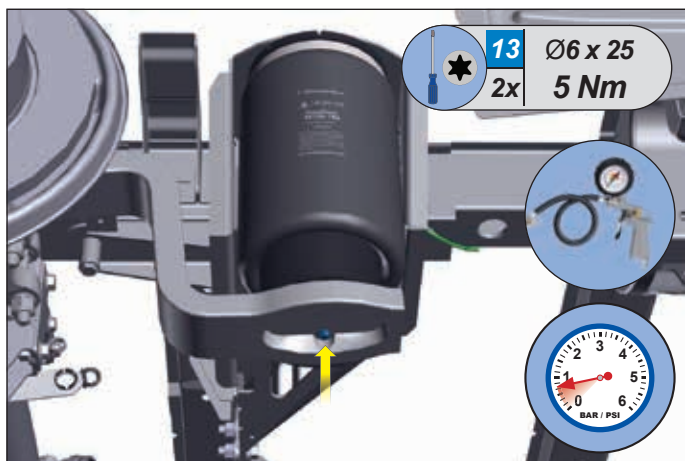
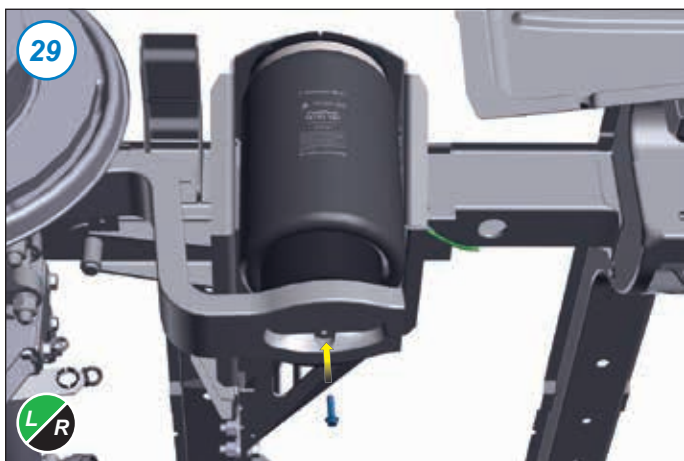
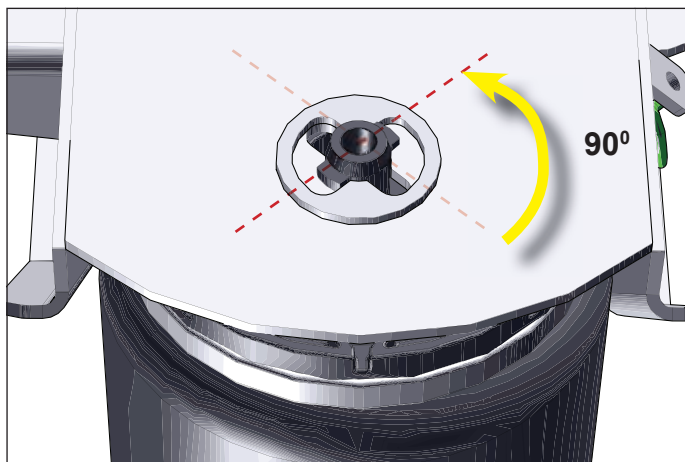
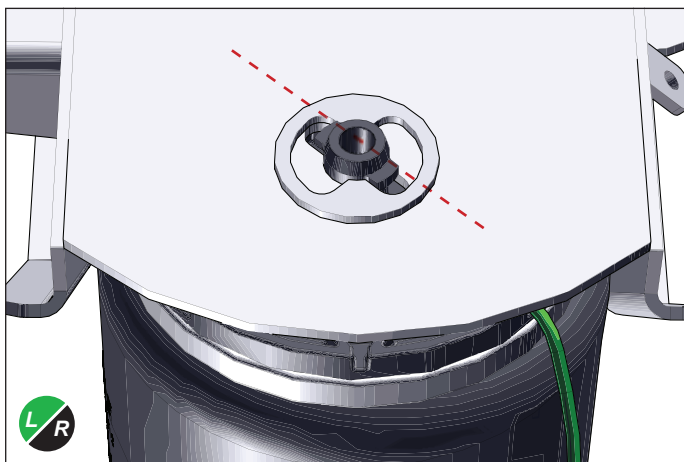


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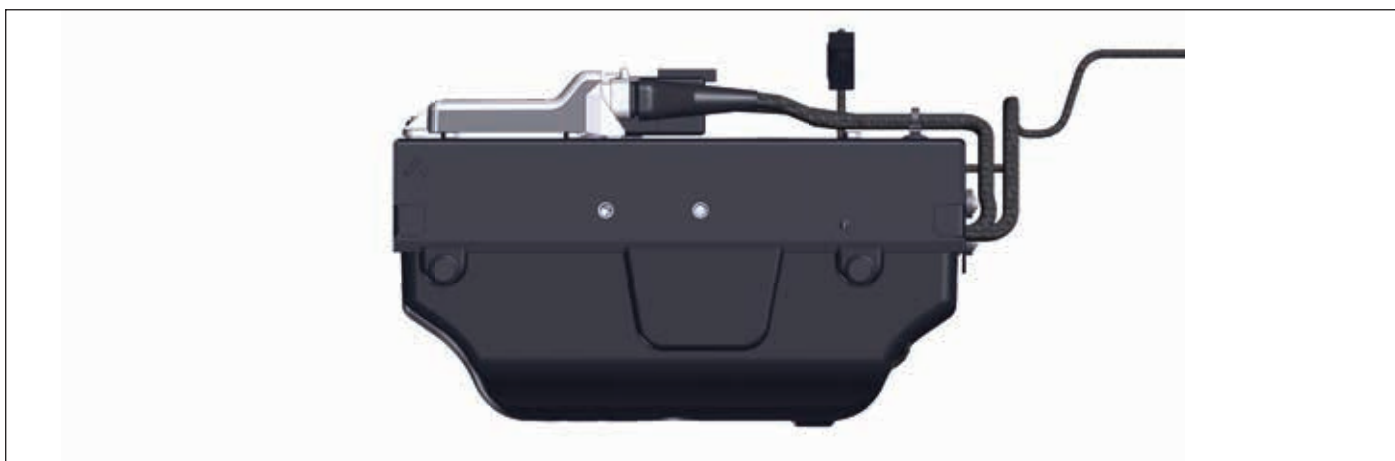
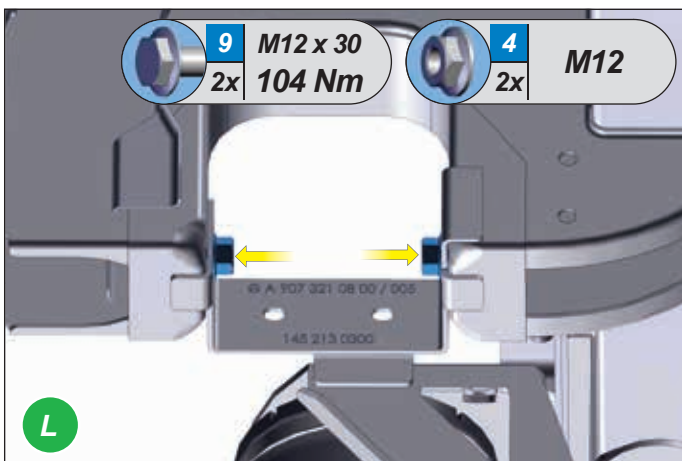
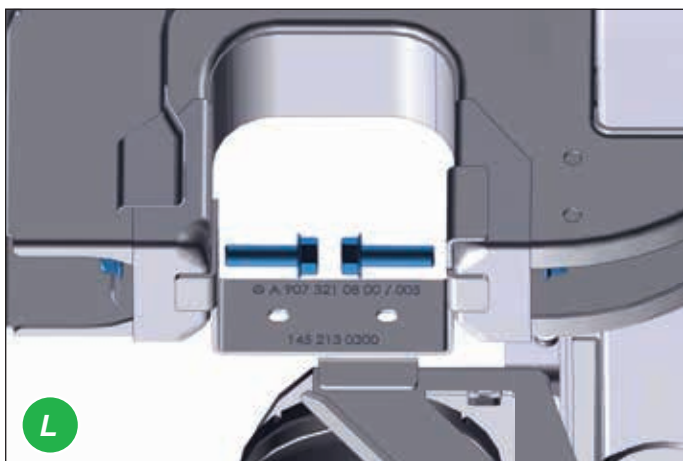
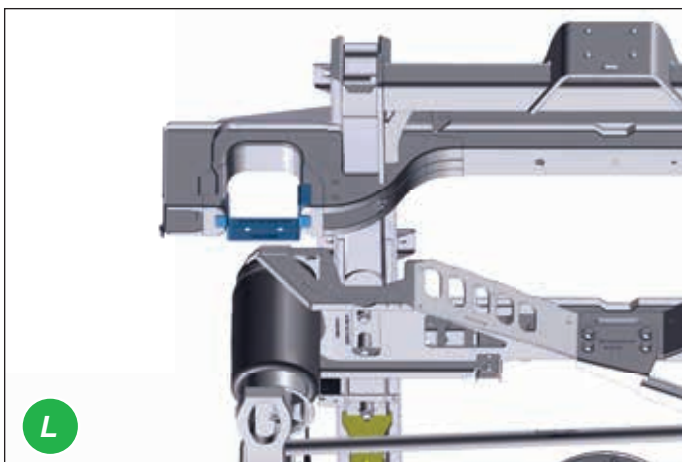
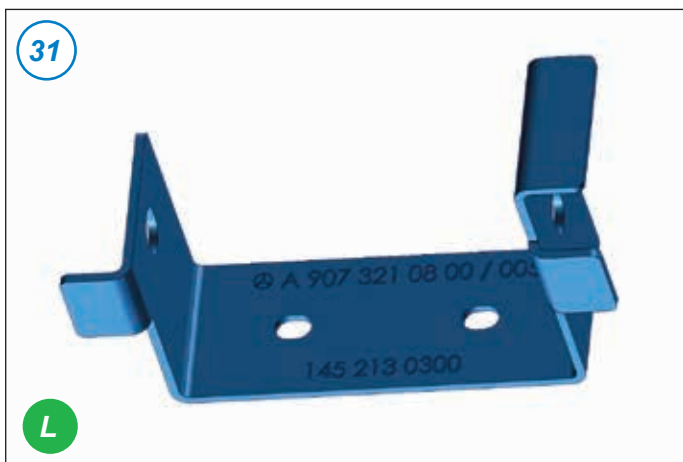
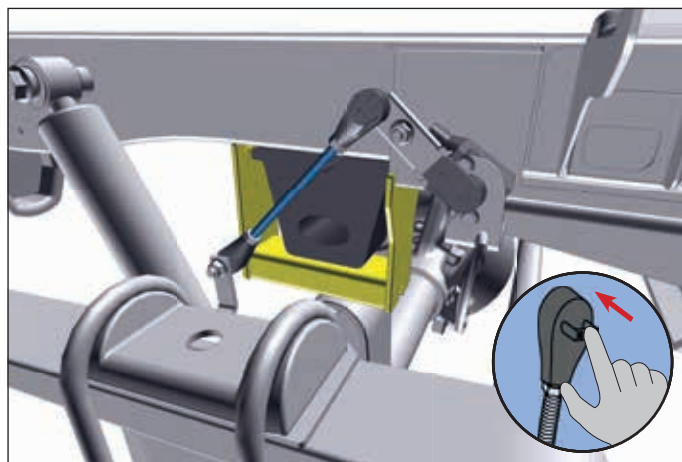
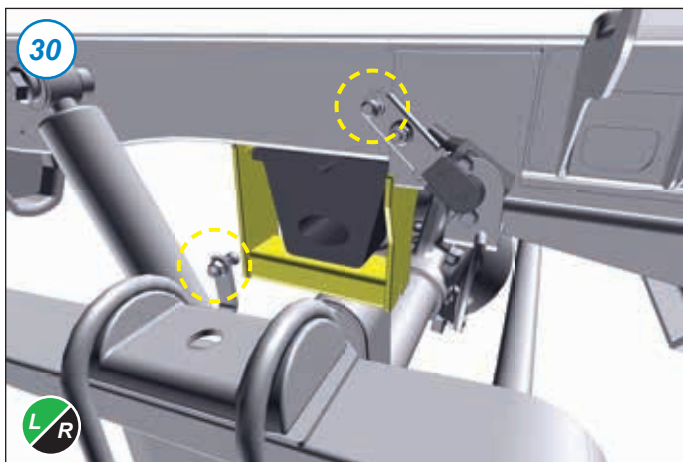
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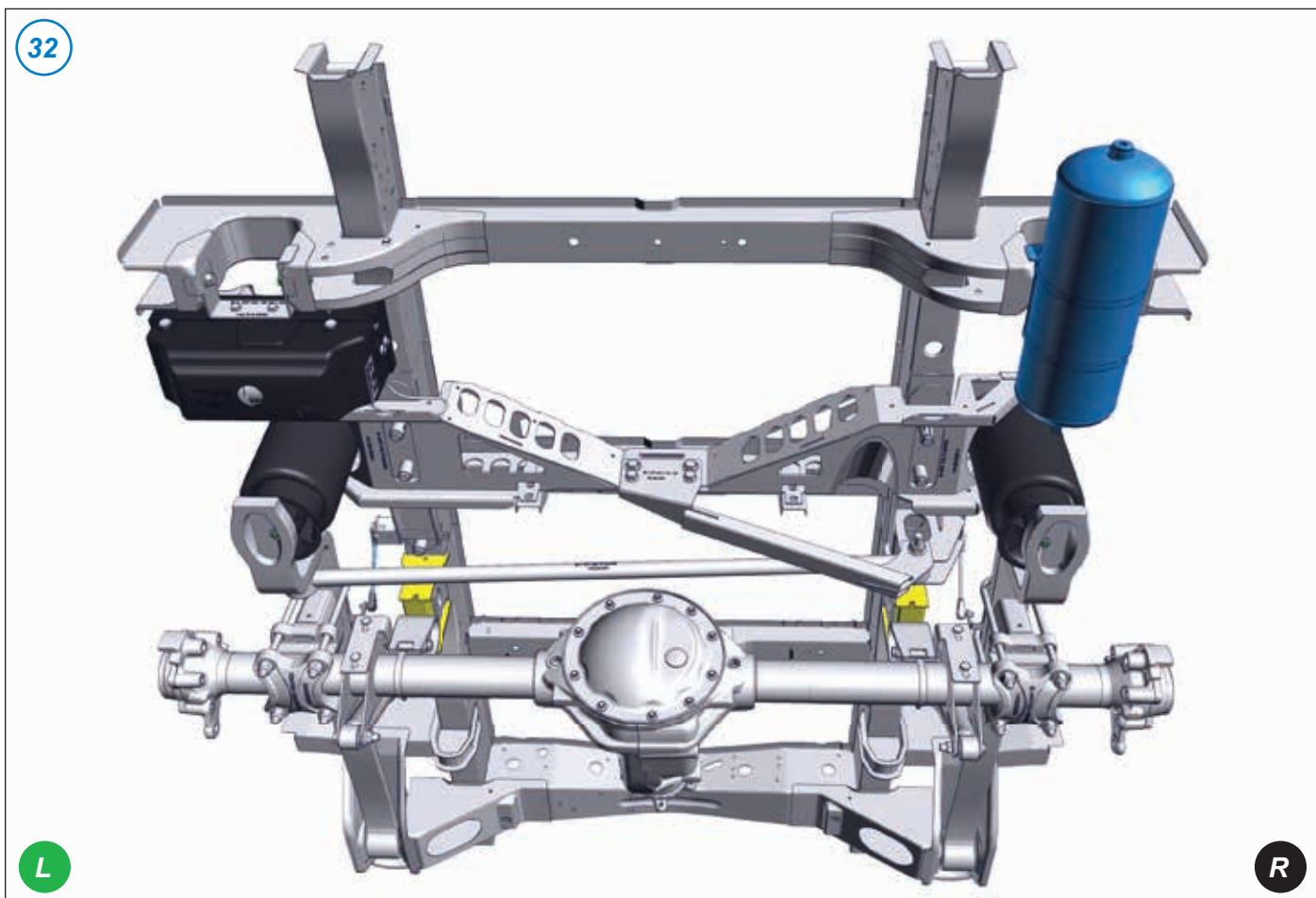
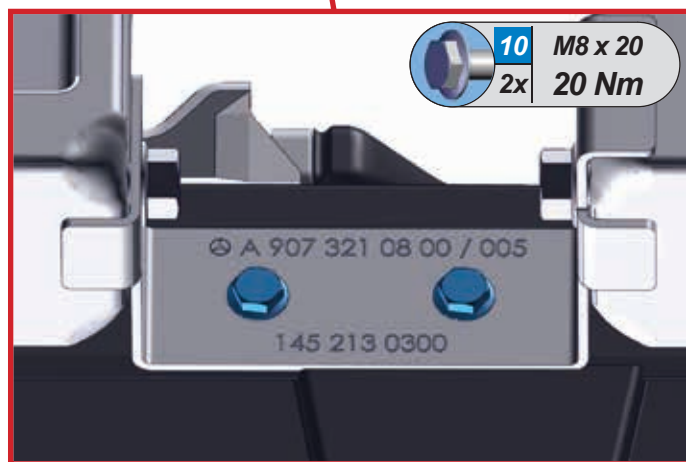
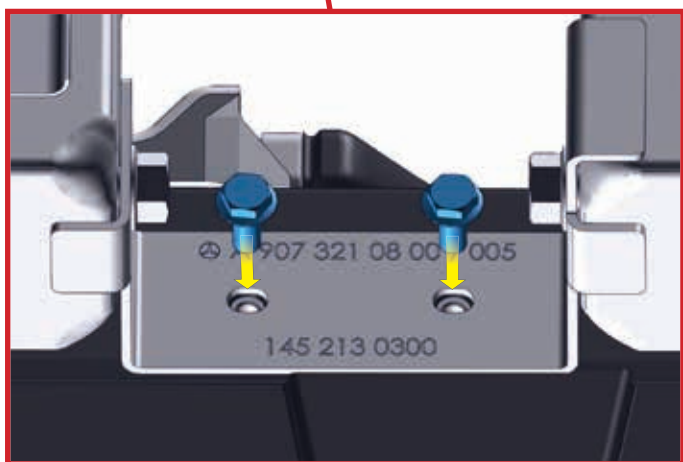
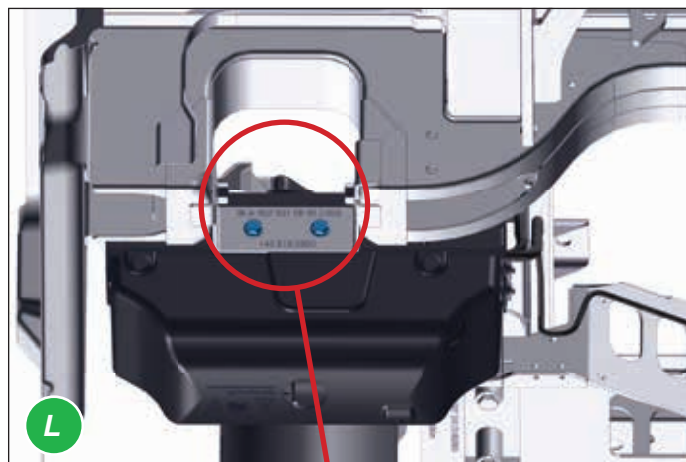
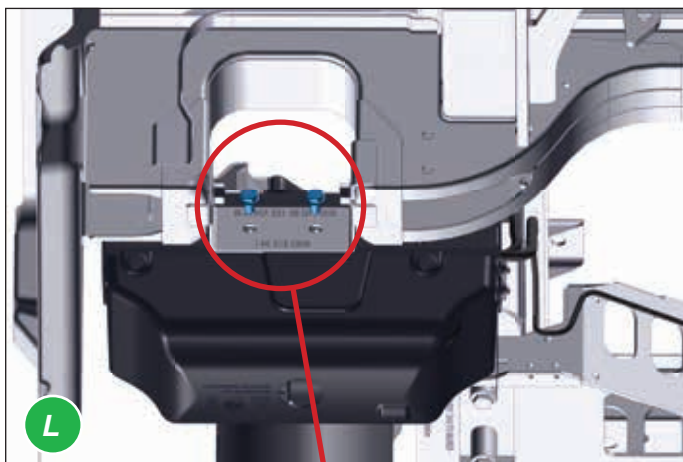
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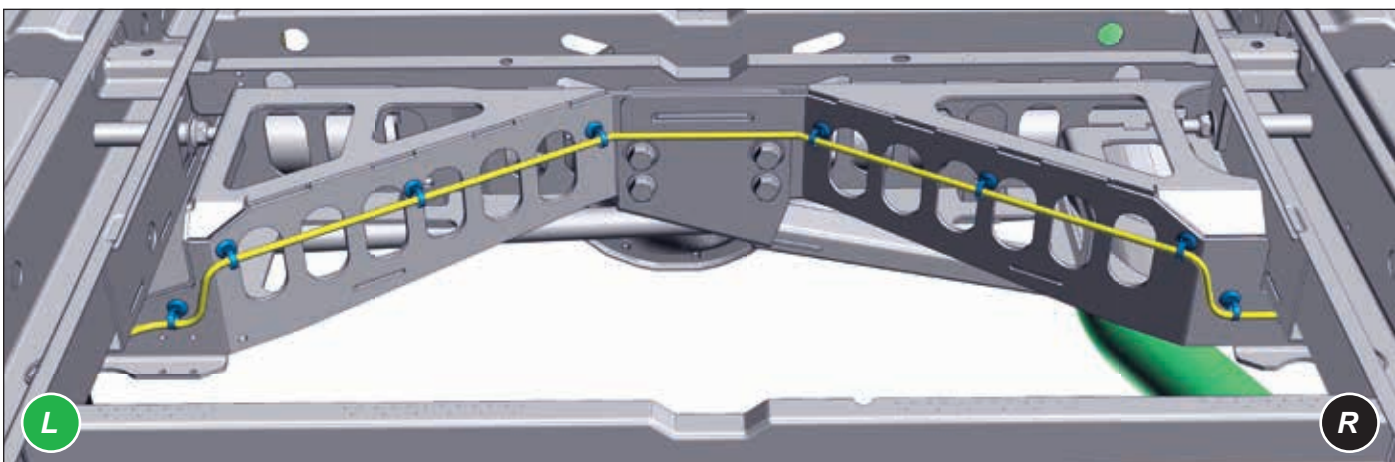
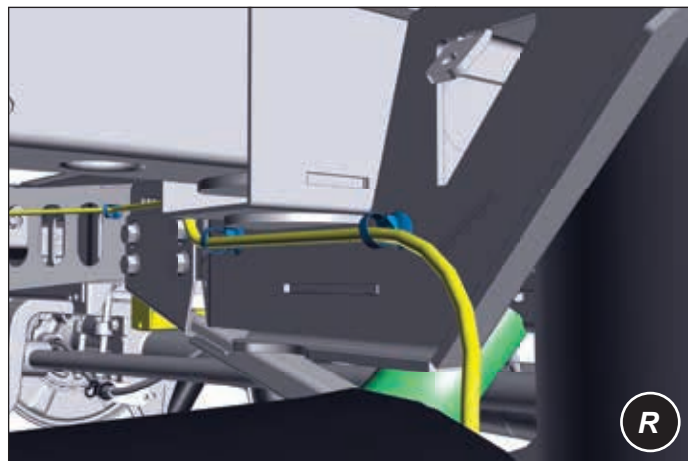
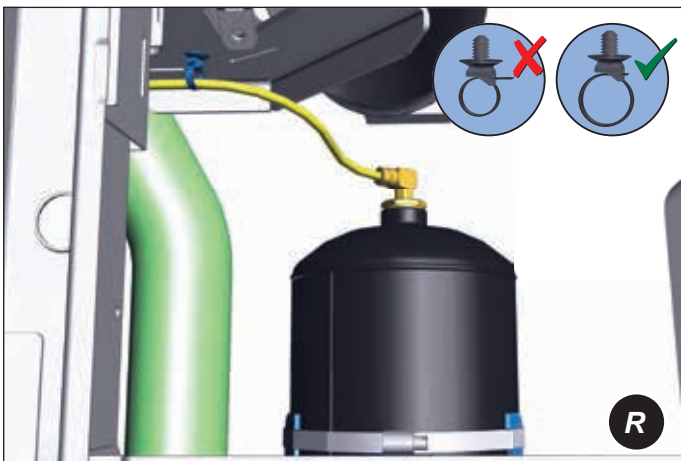
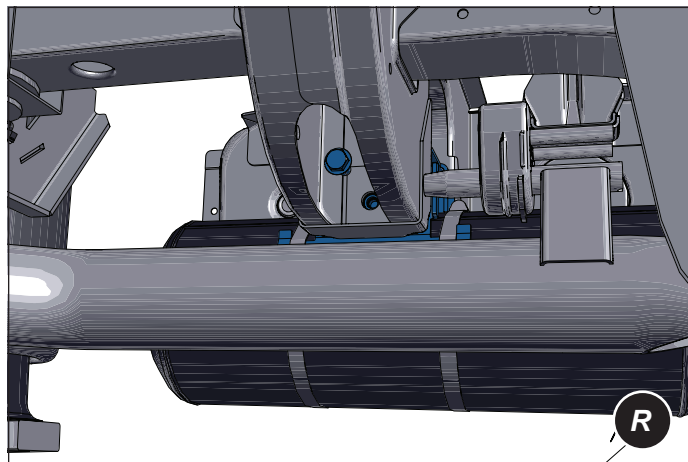
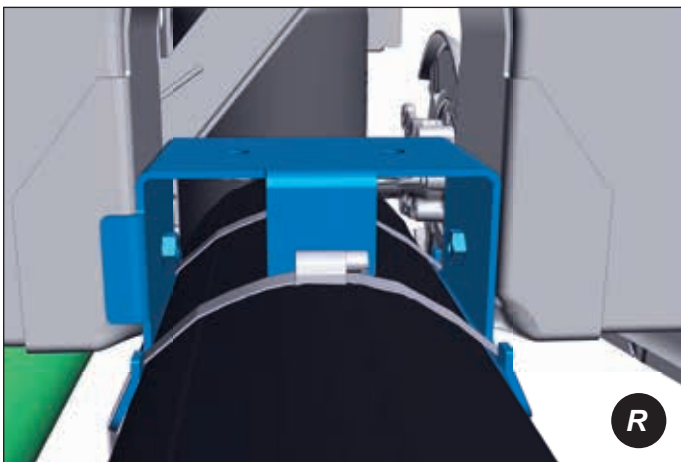
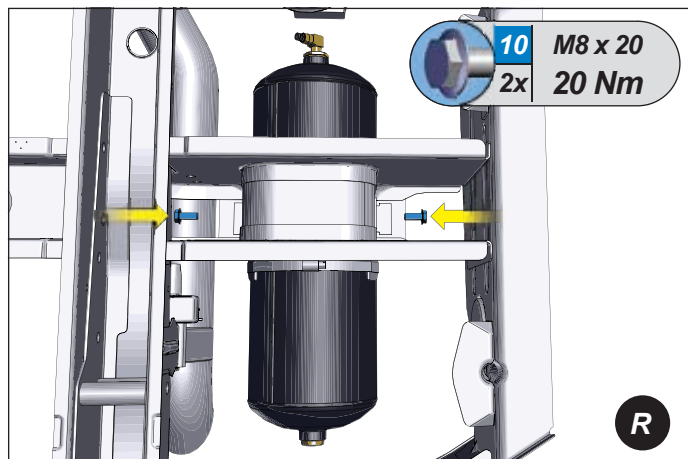
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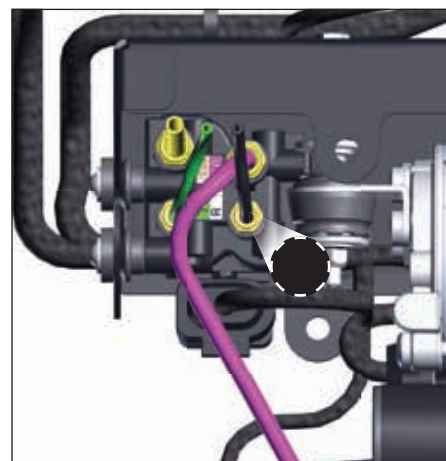
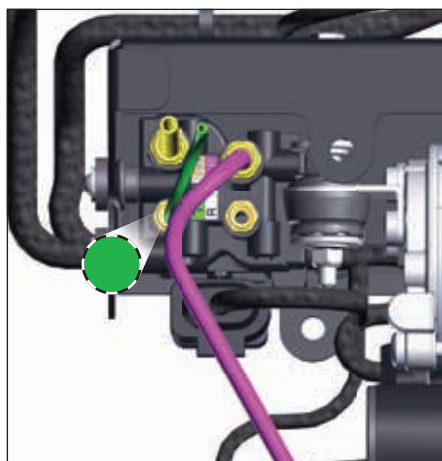
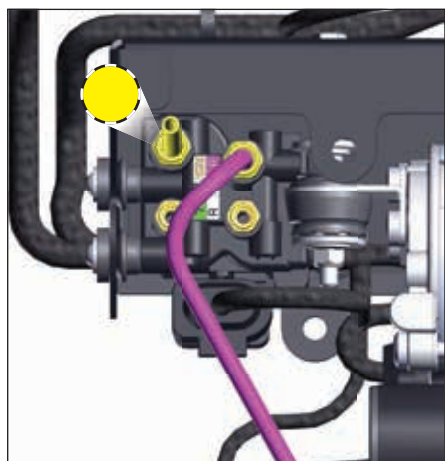
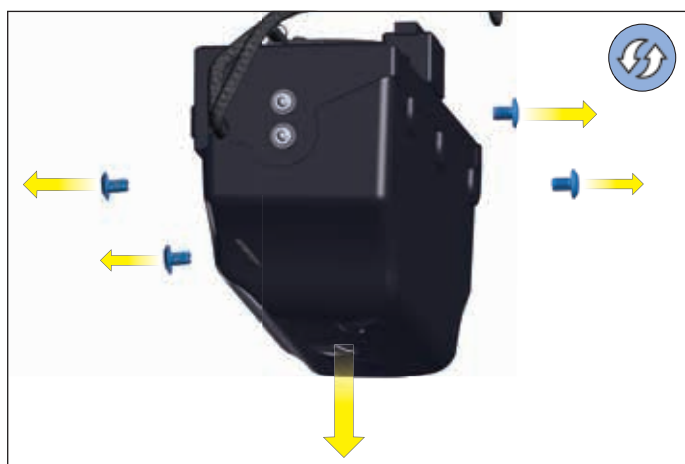
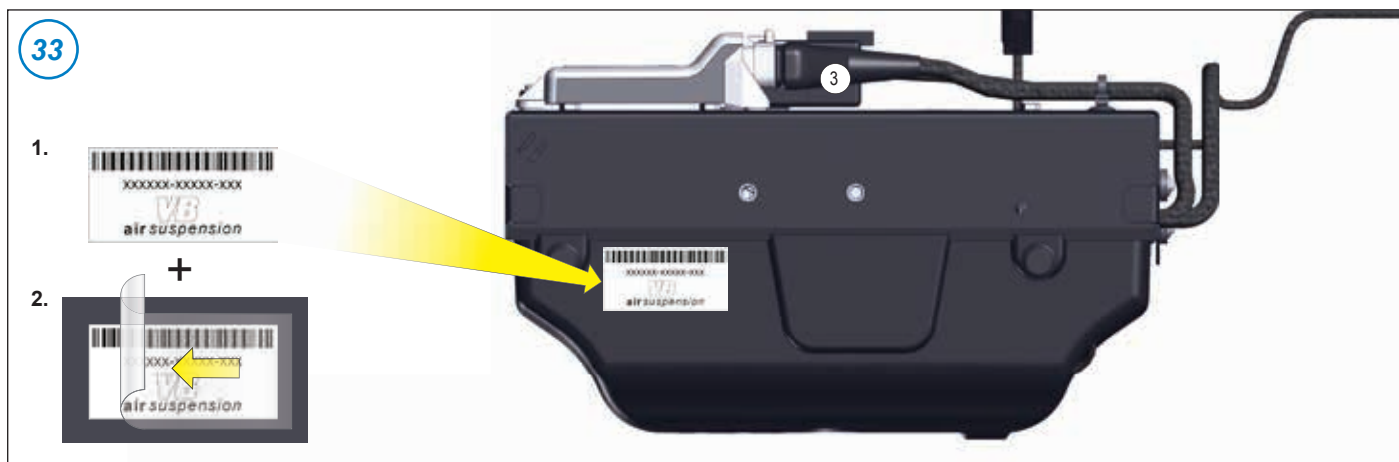


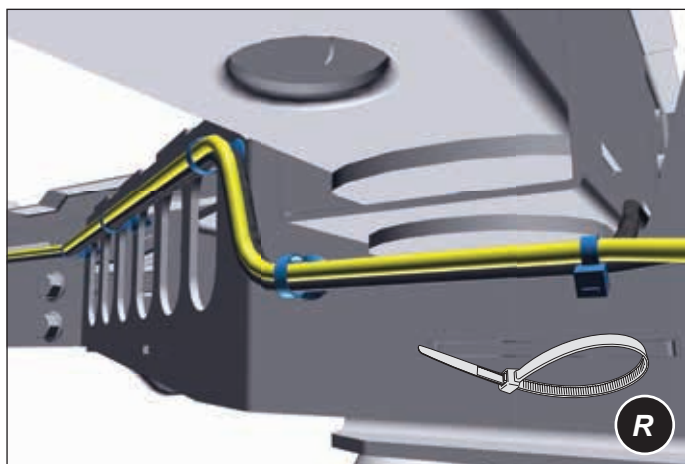
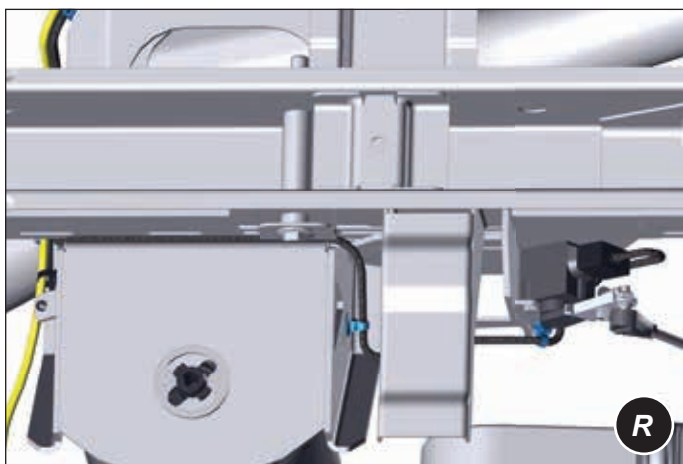
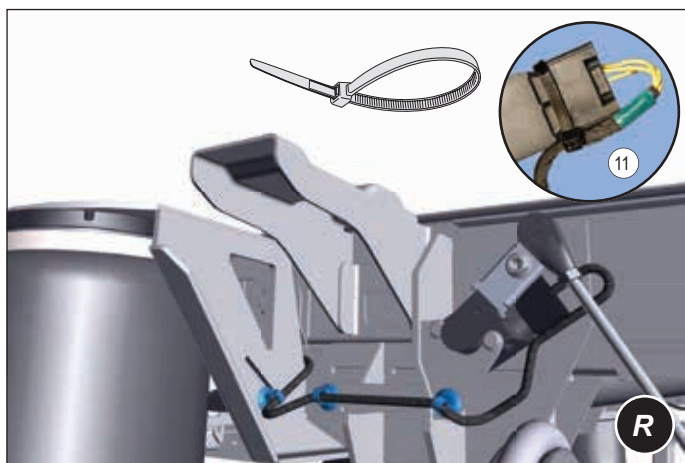
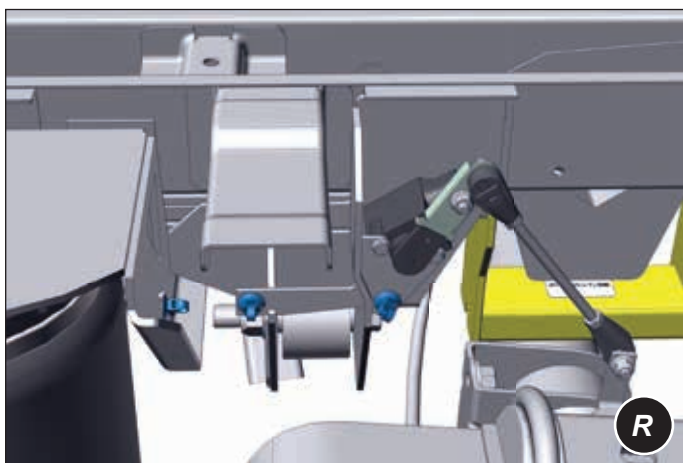
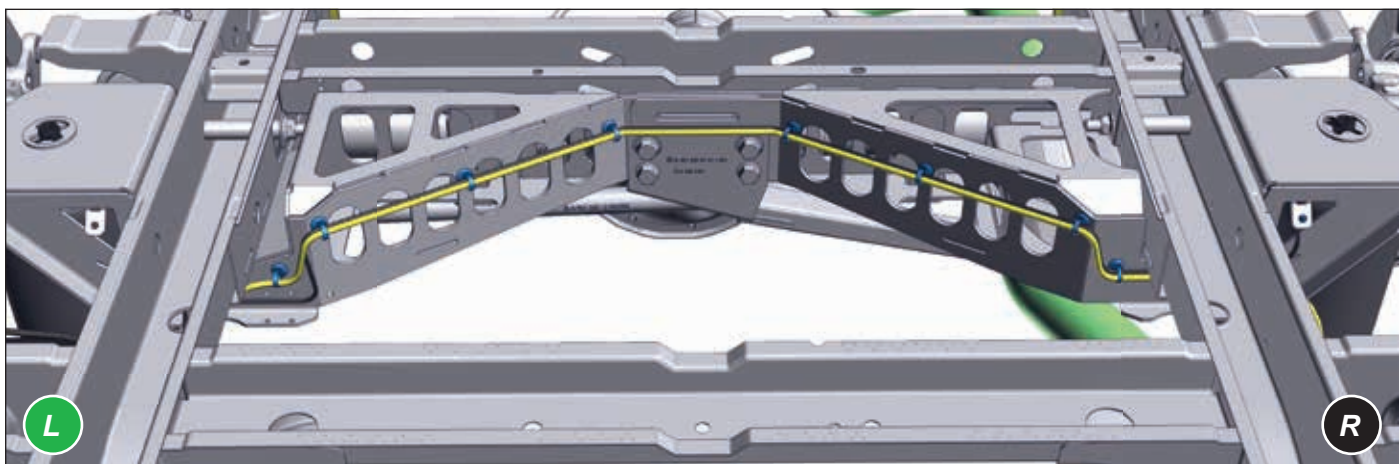
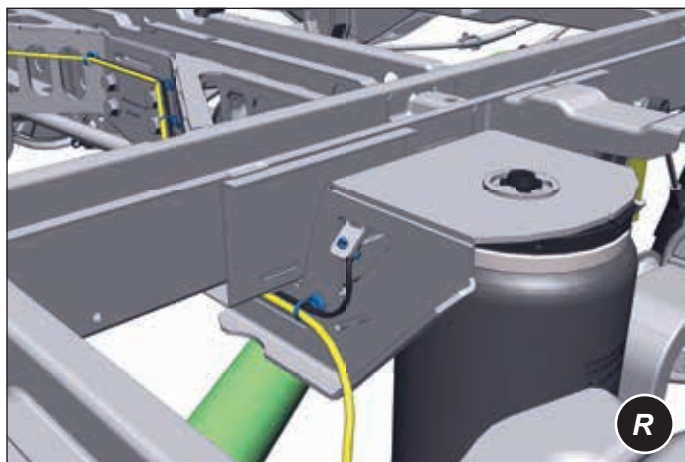
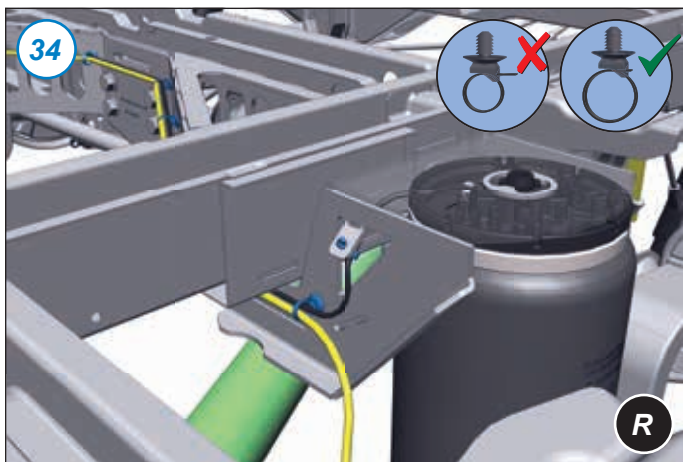
A2 A3 B2 B3 B



A2 A3 B2 B3 B

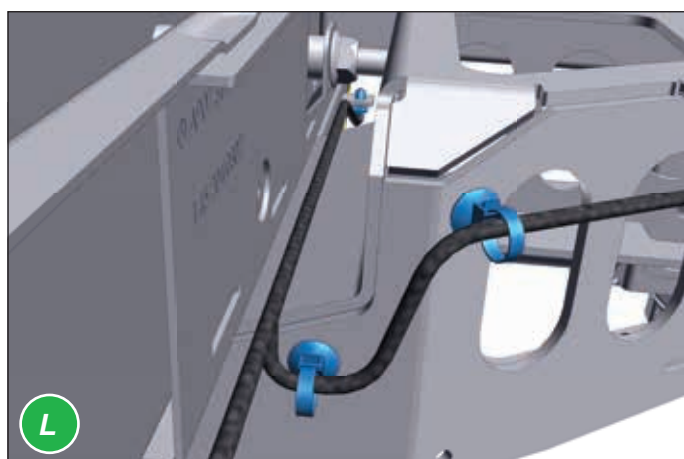
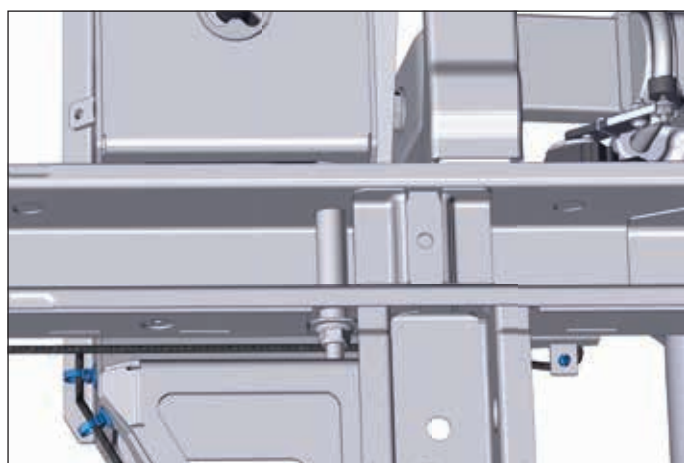
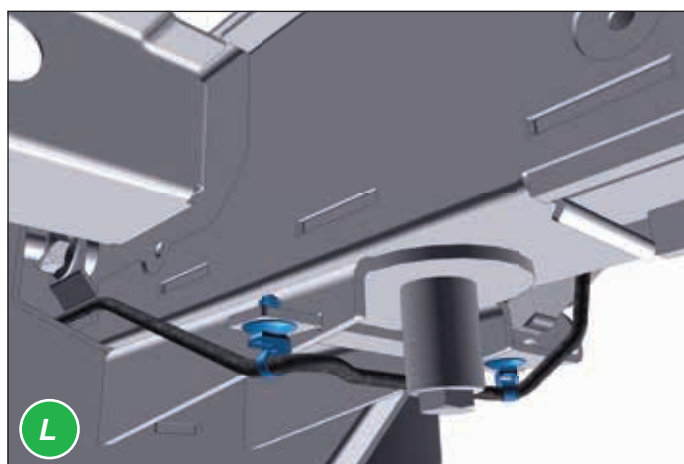
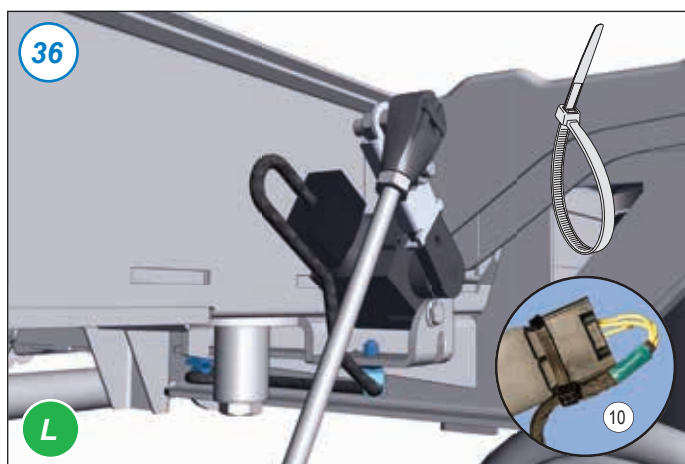
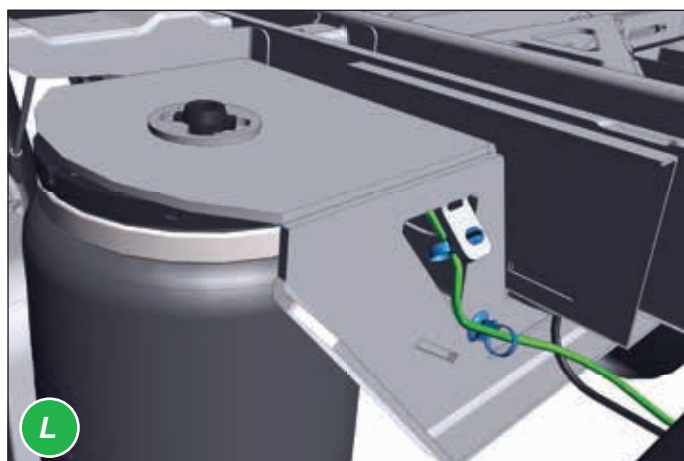
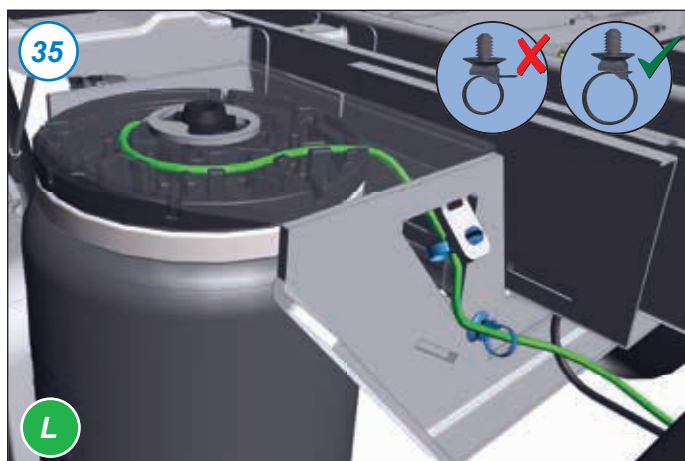


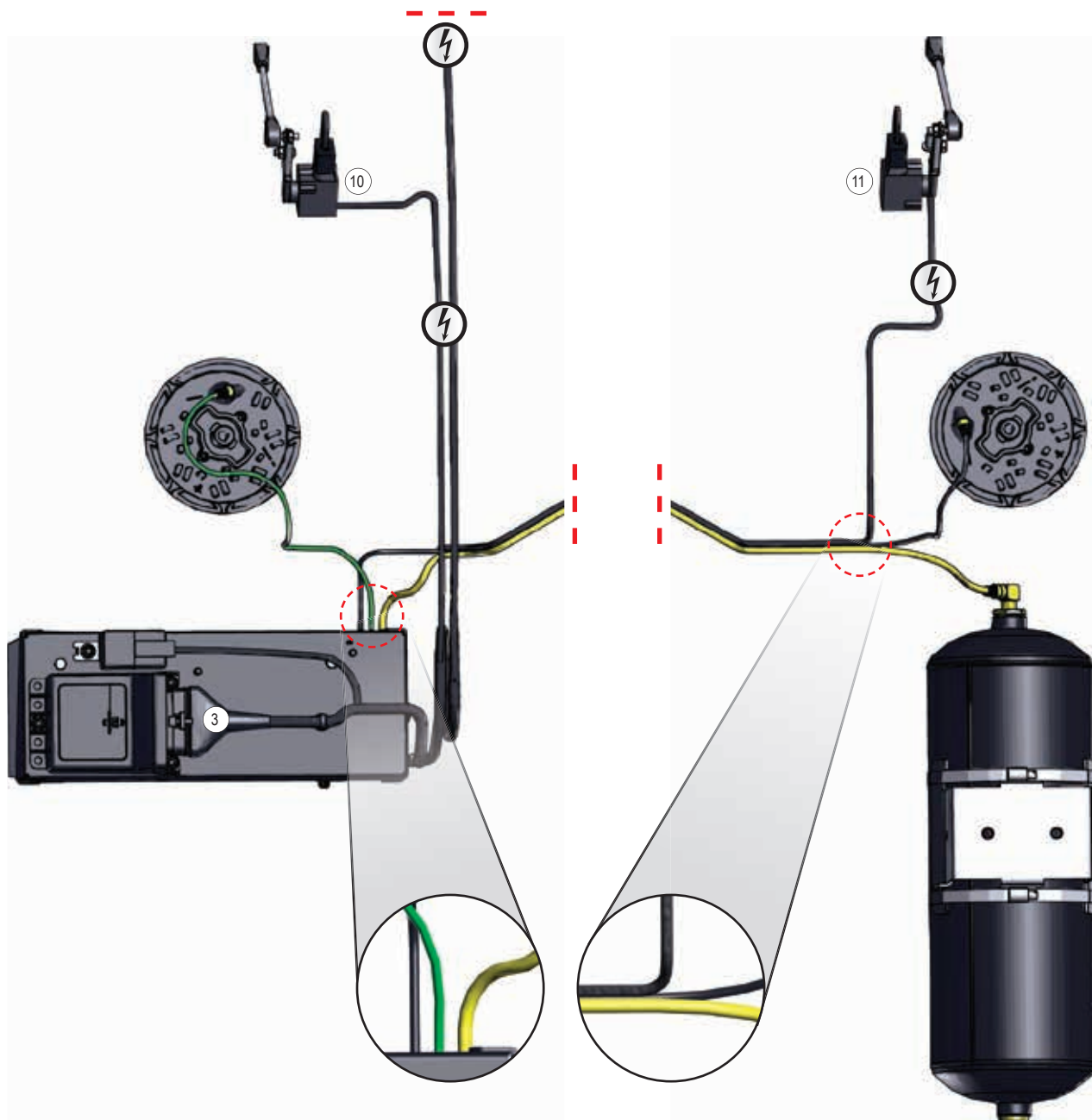




A2 A3 B2 B3 B

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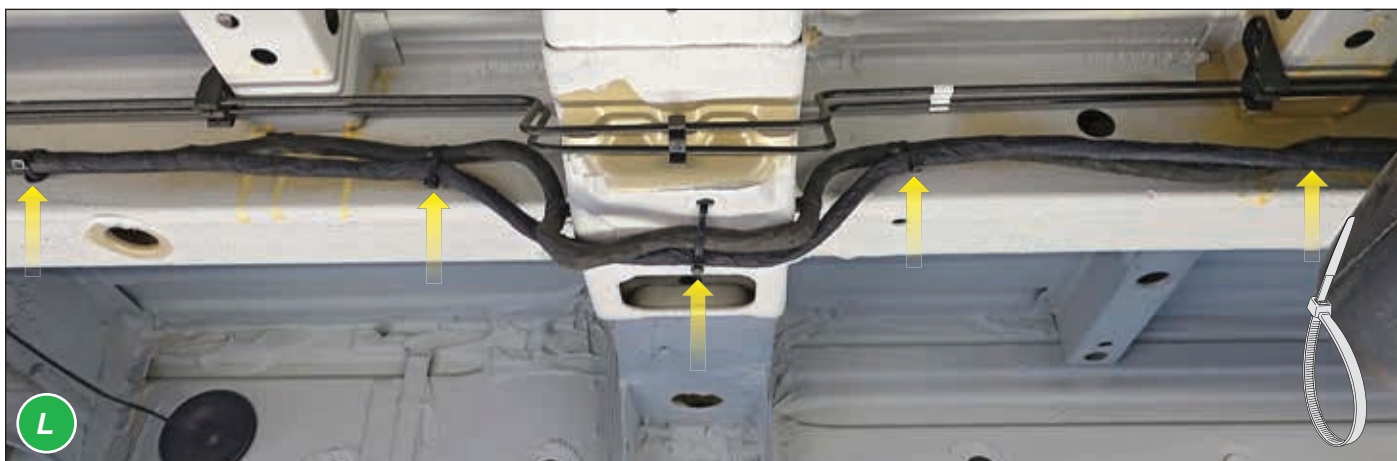
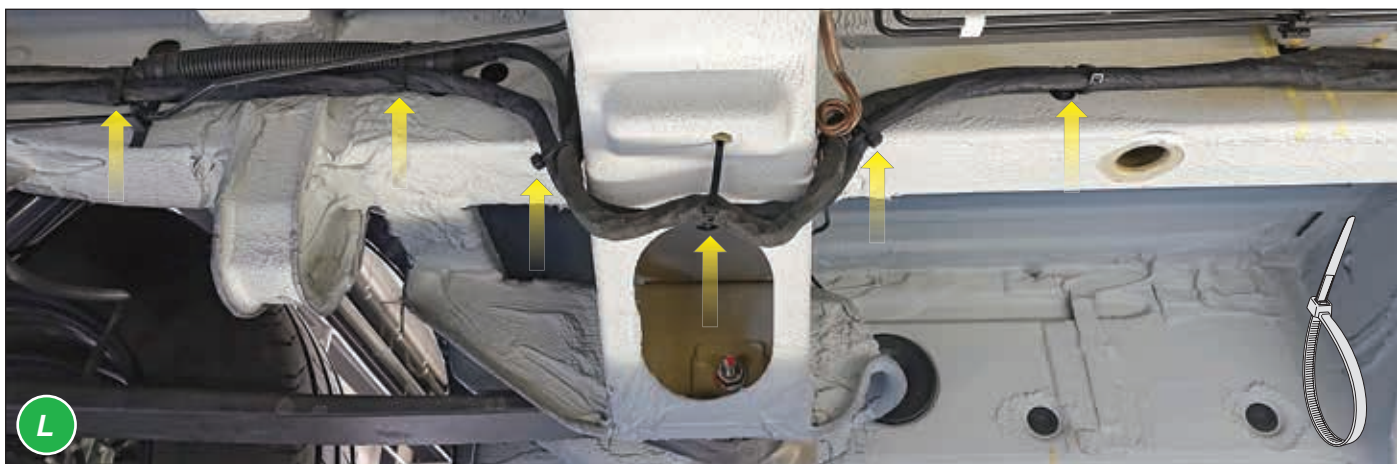
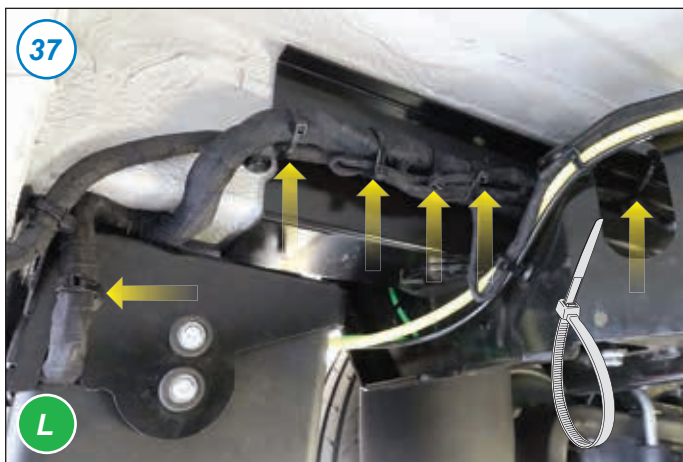


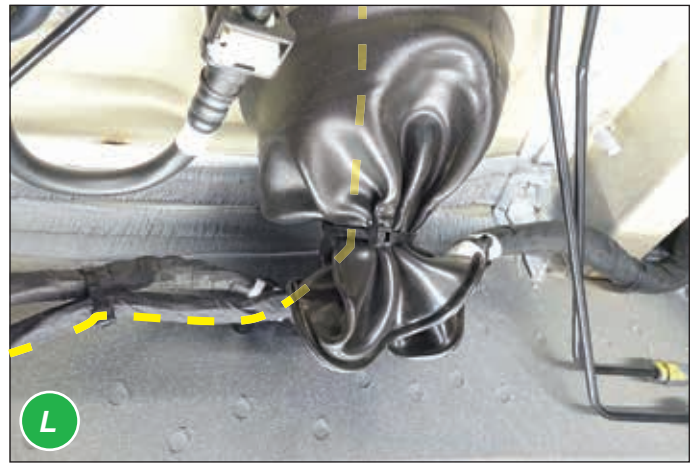


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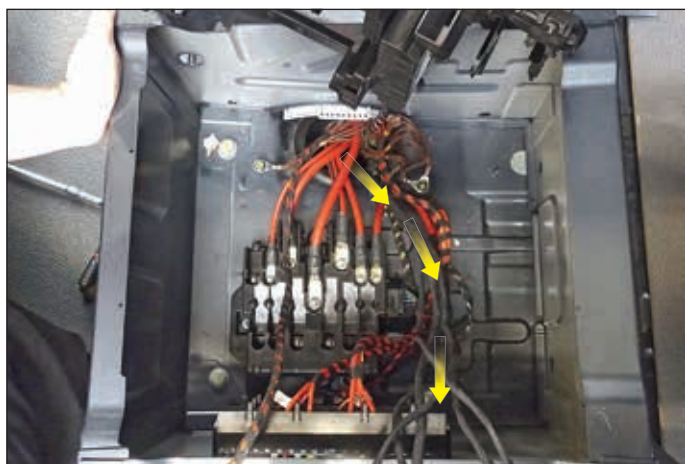
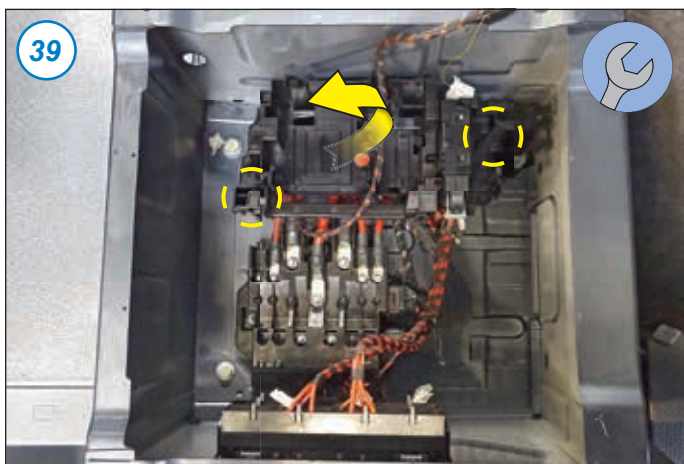
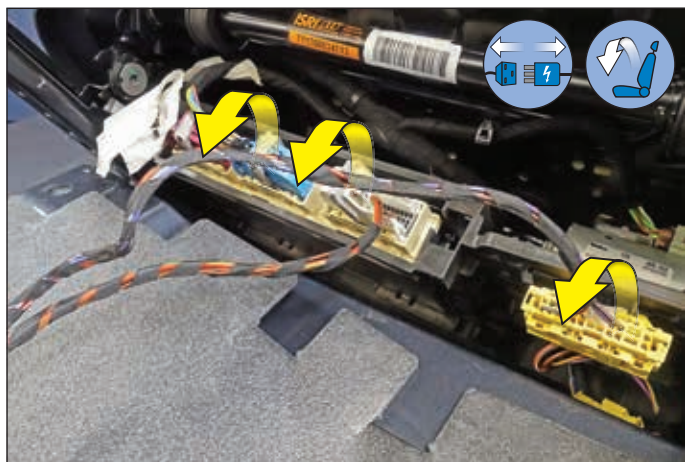
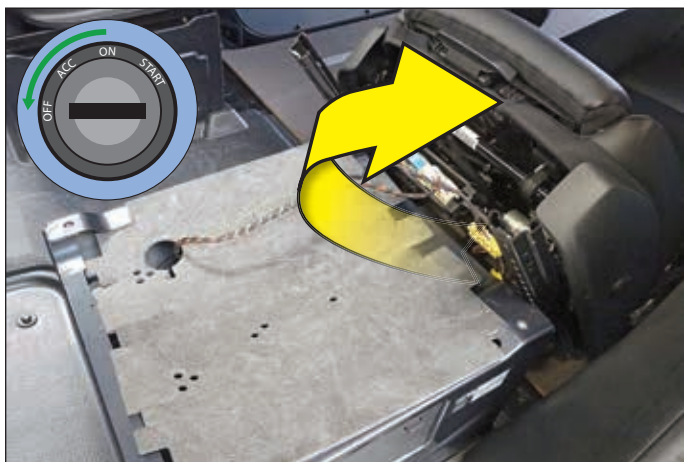
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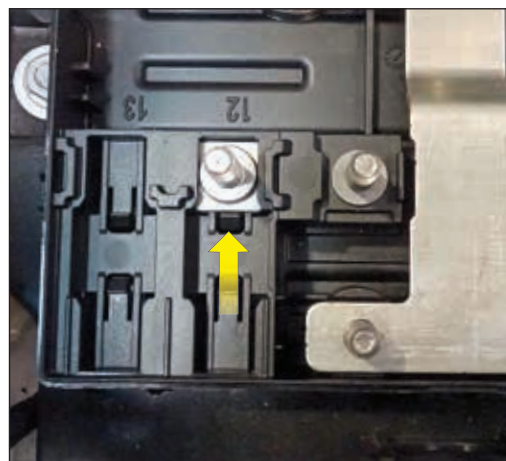
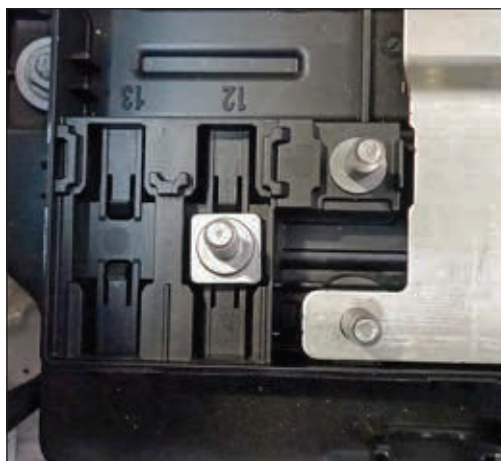
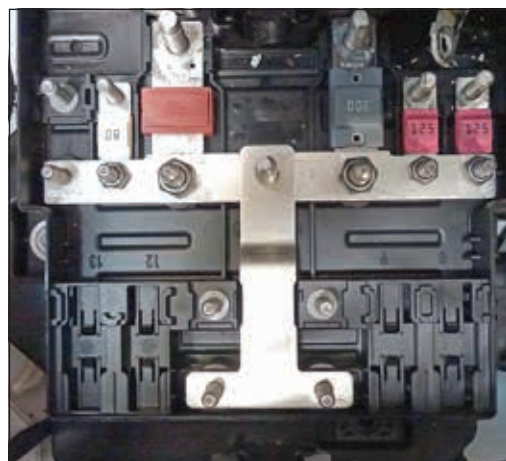
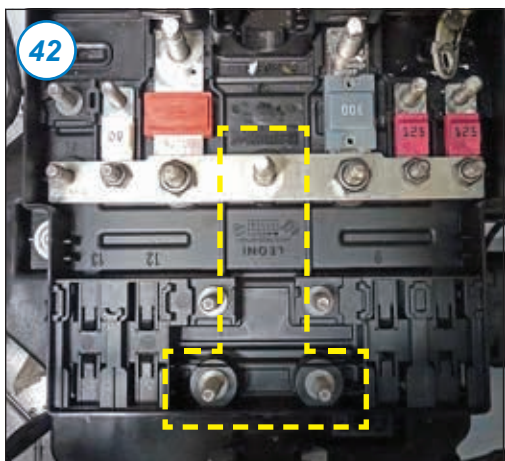
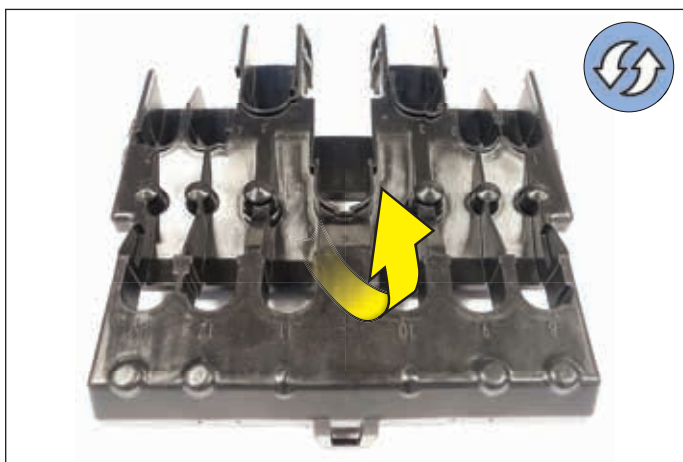
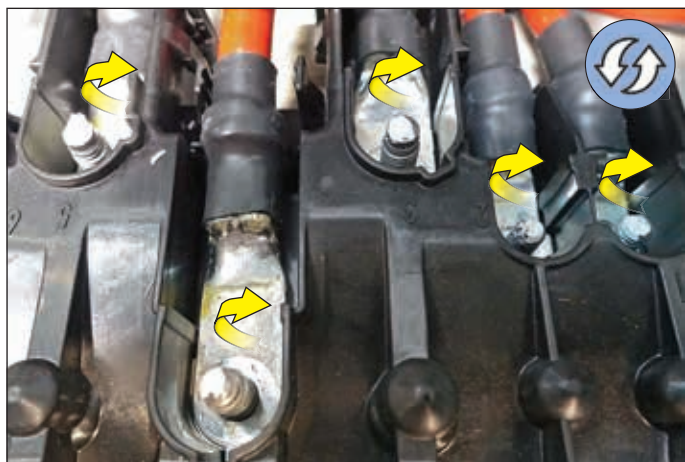
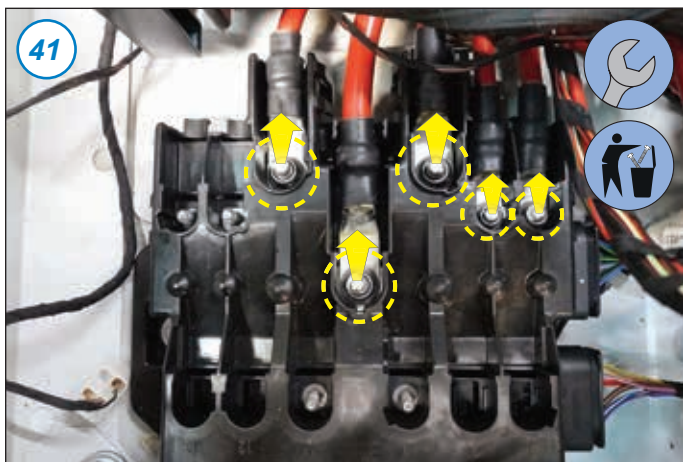
A2 A3 B2 B3 B

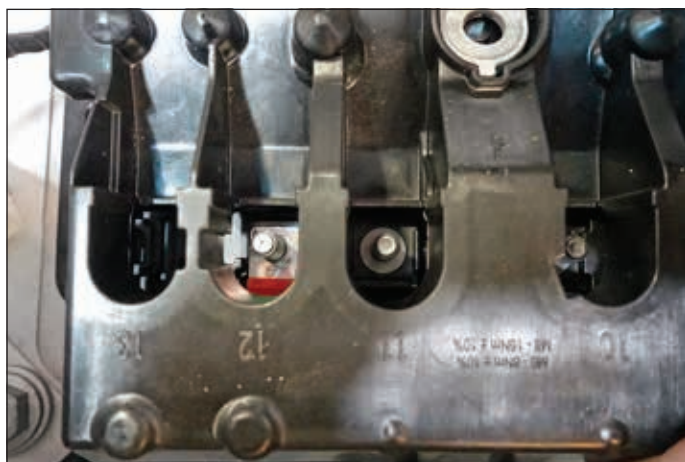
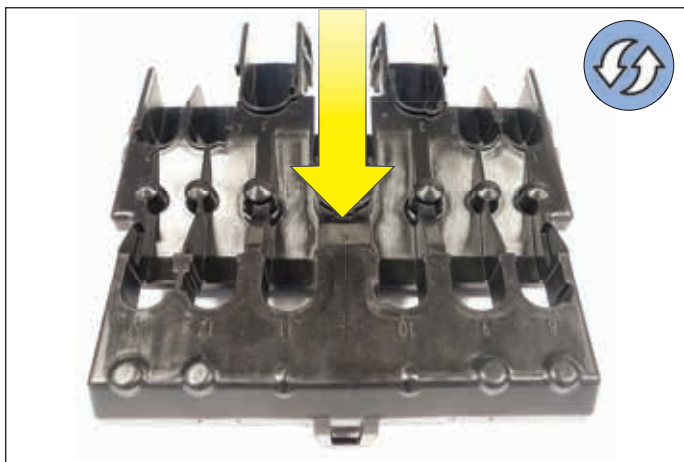
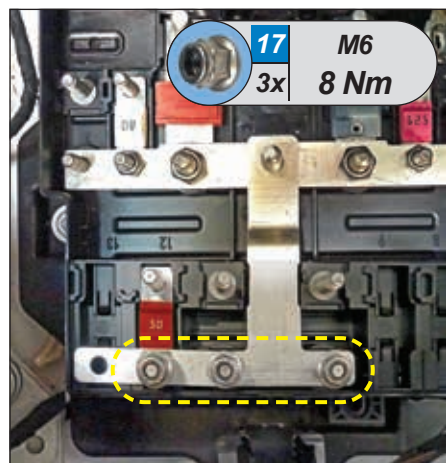
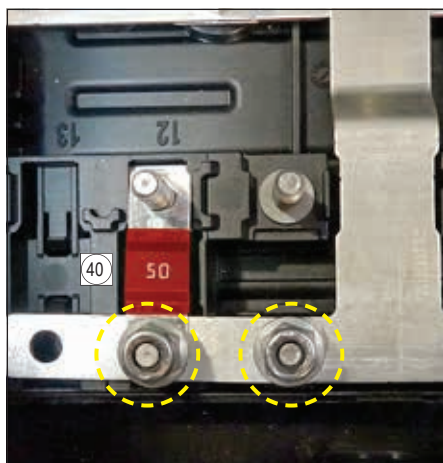
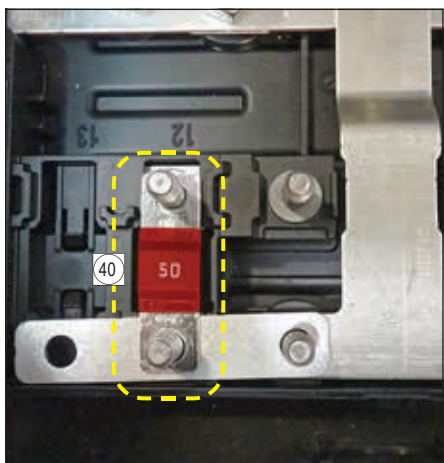
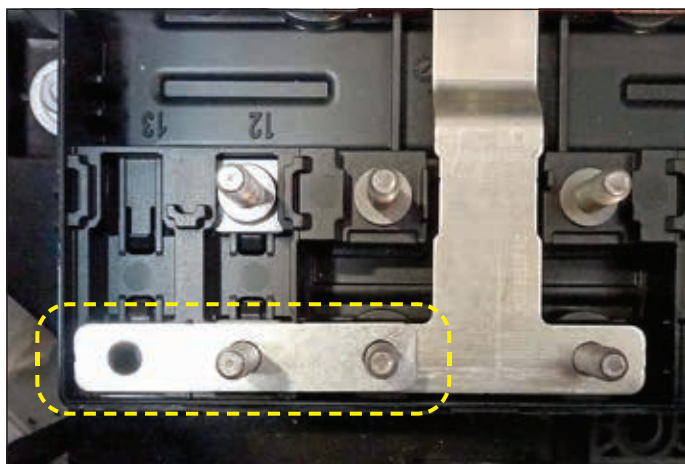
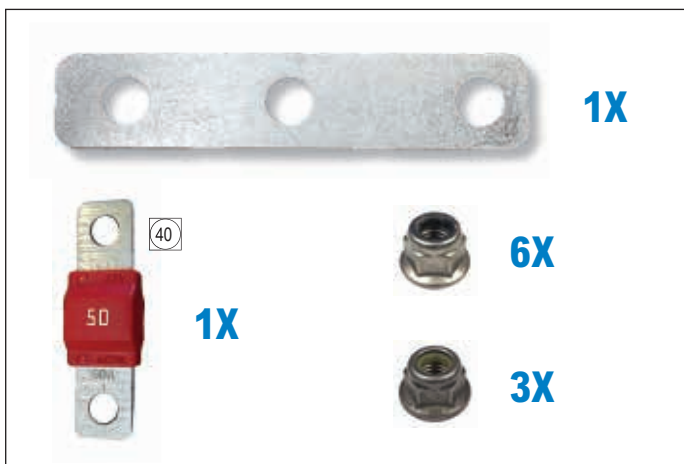
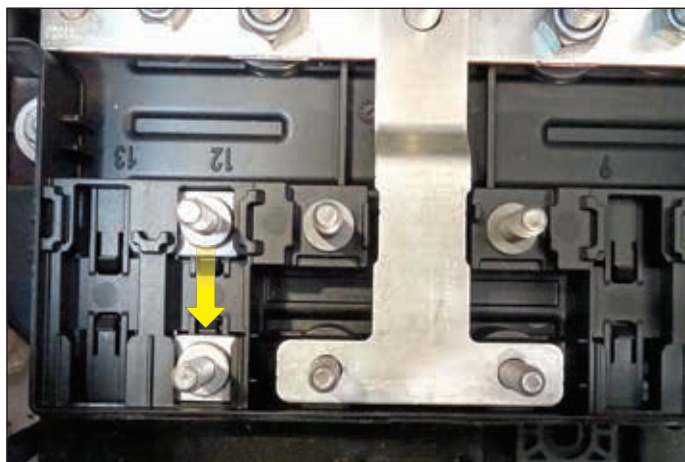
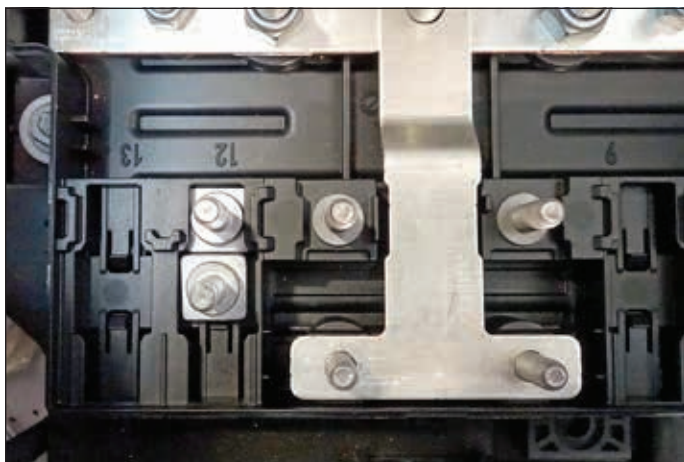
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A2 A3 B2 B3 B

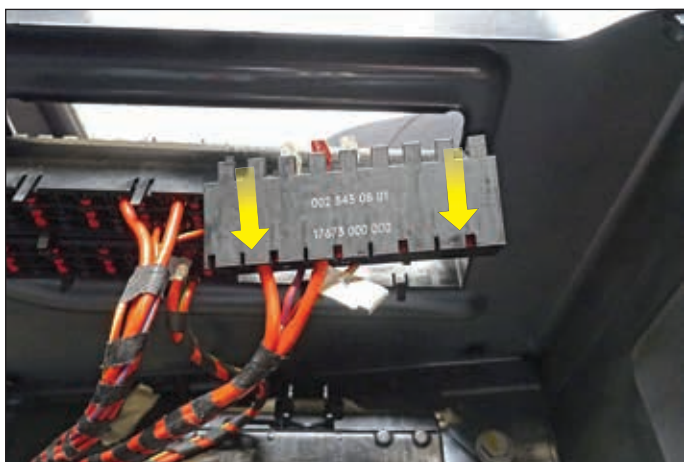
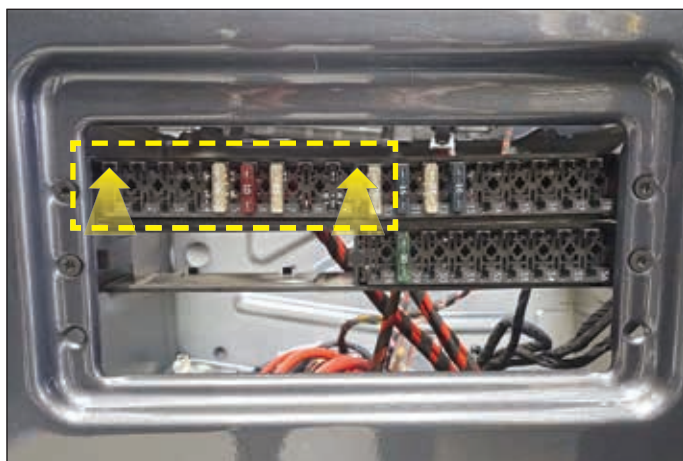
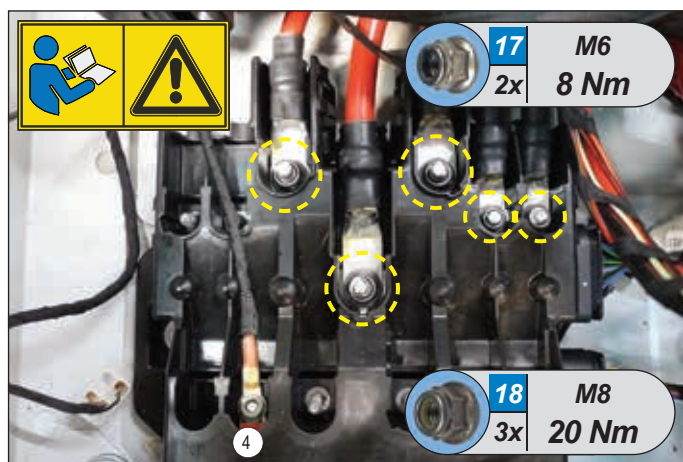
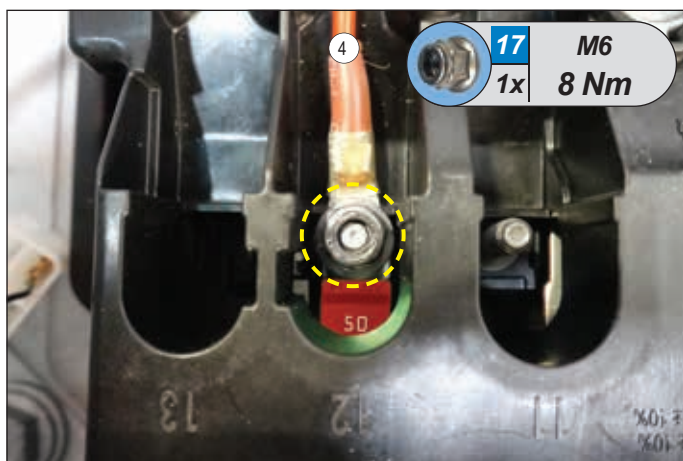
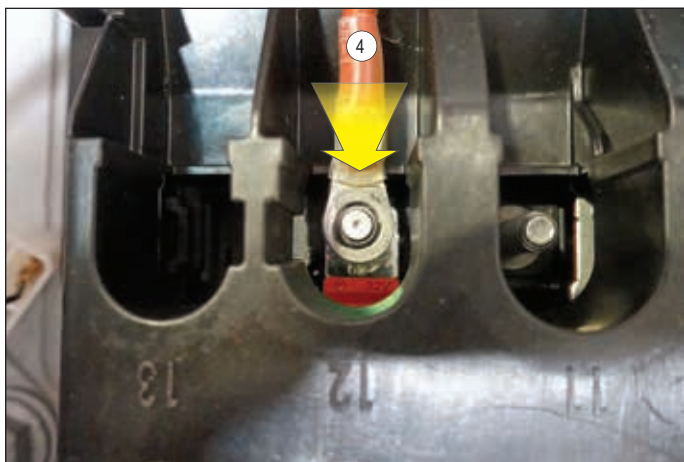
? ⇒ WIRING HARNESS Page 46

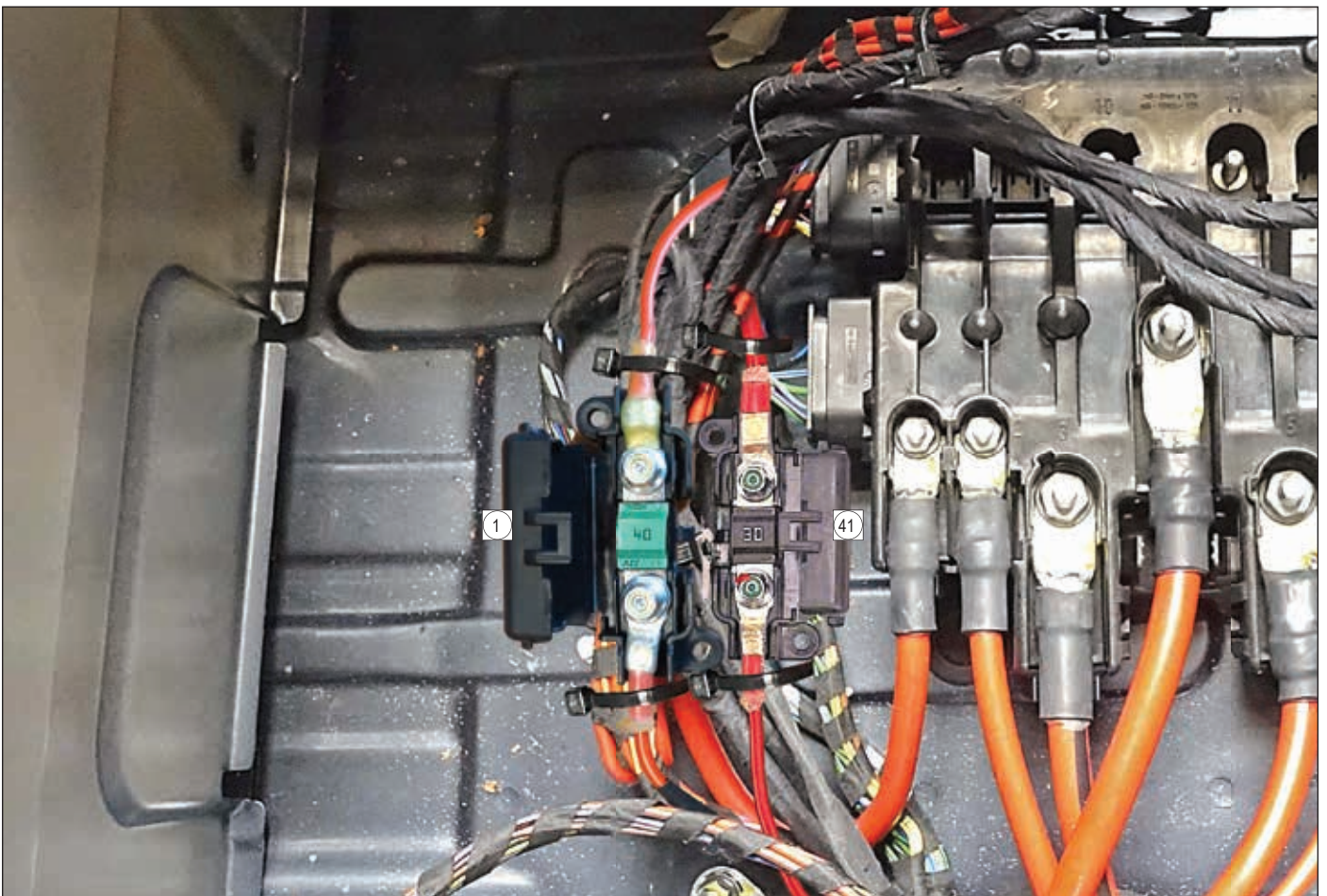
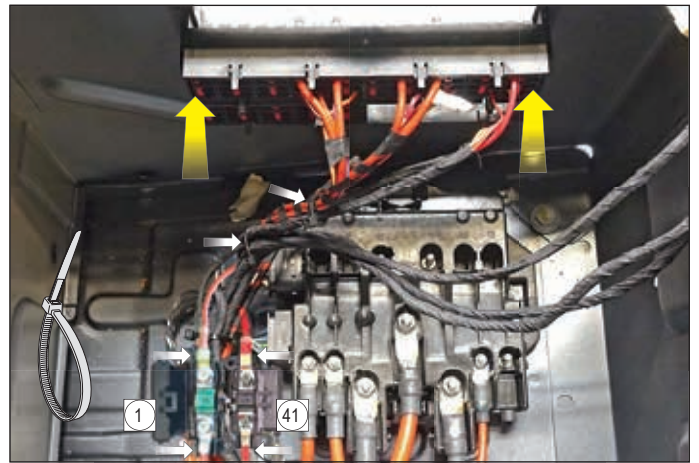
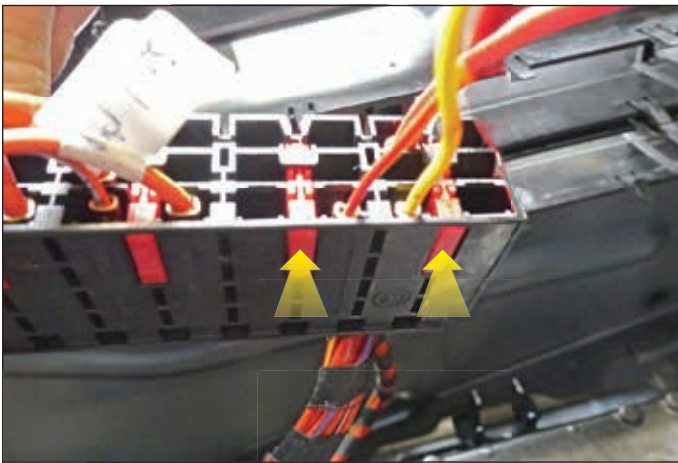
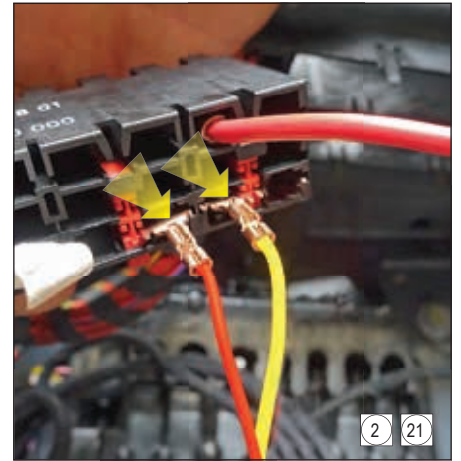
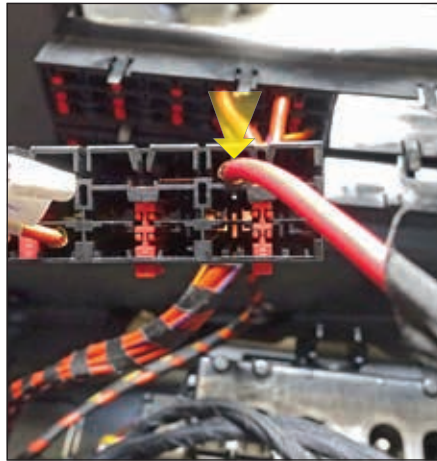


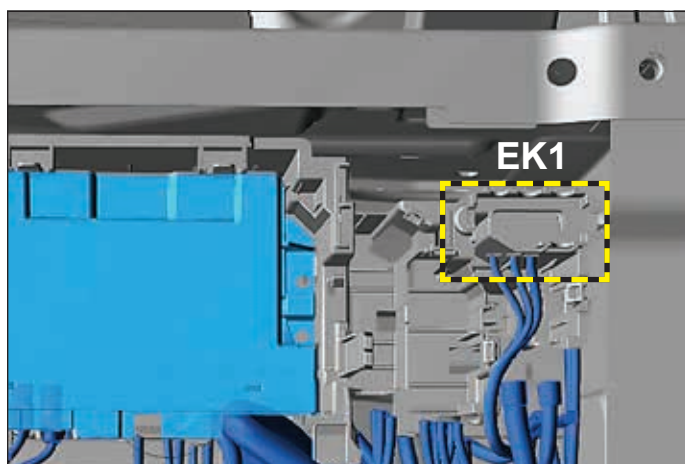
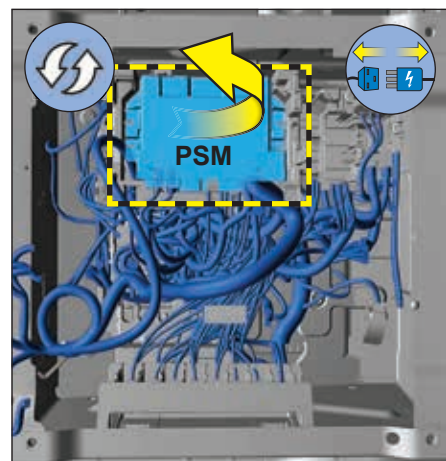
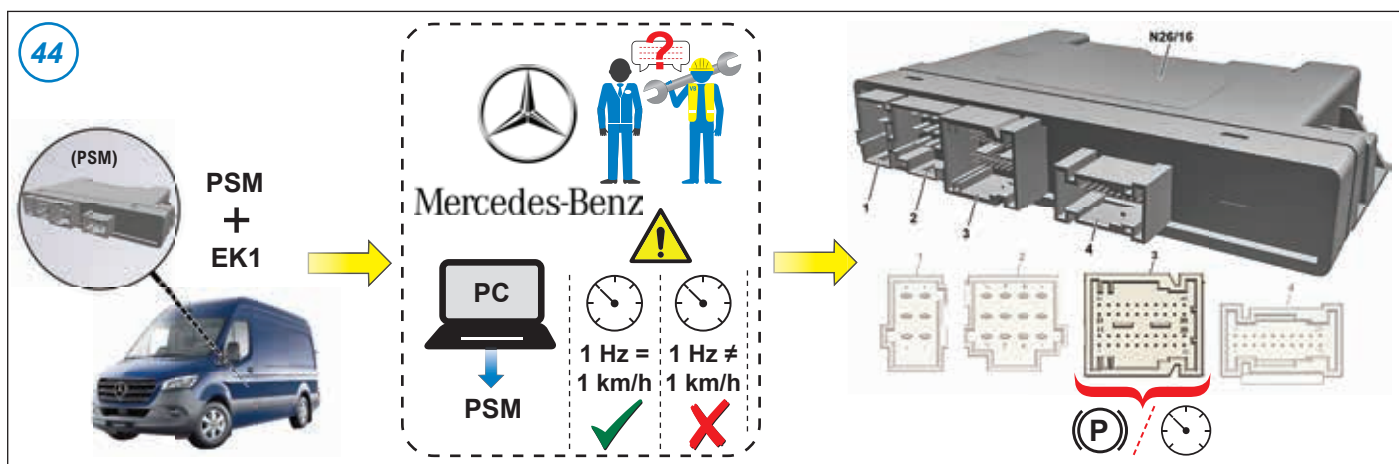
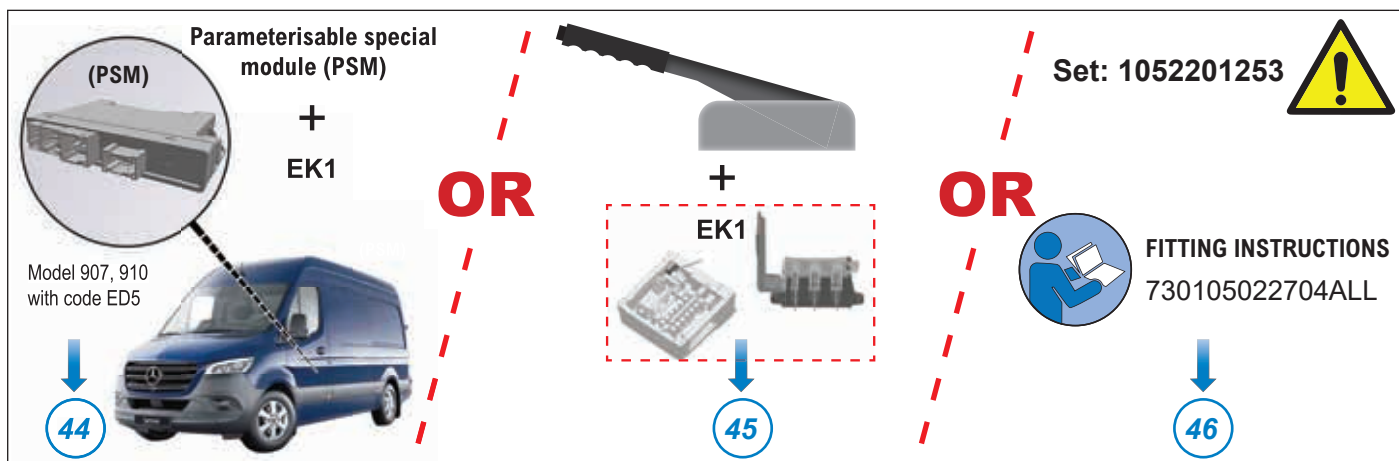


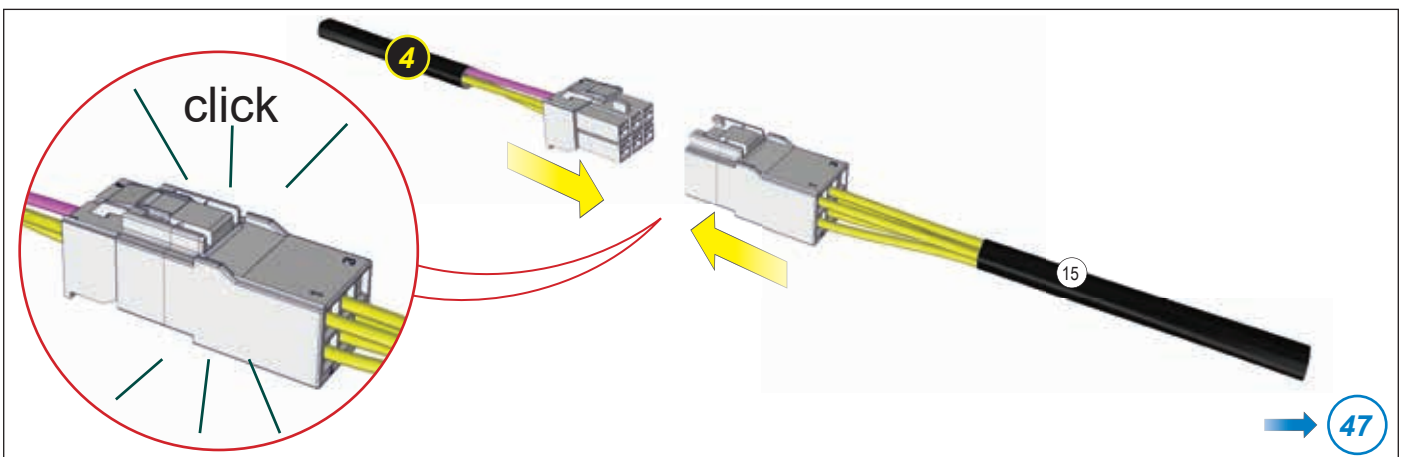
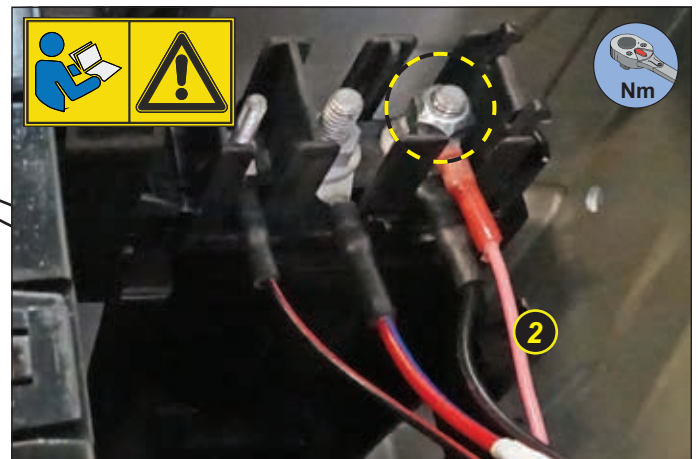
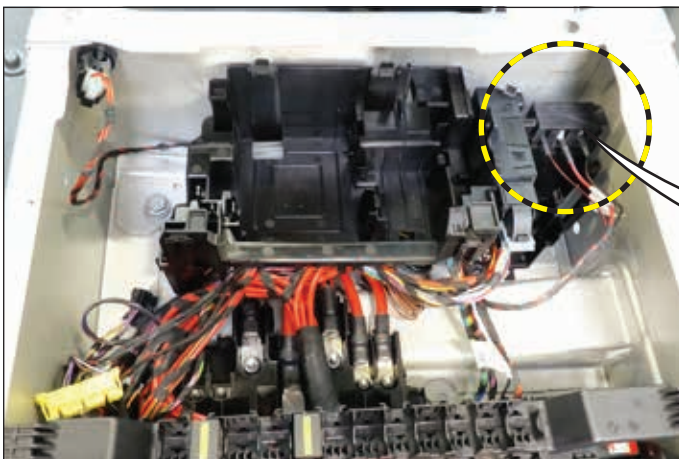
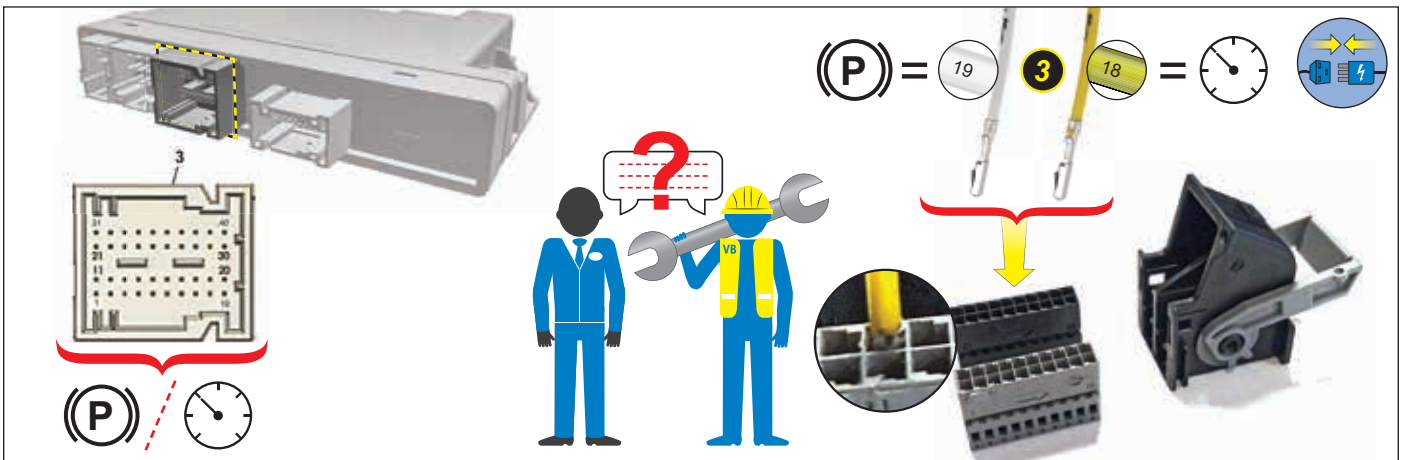
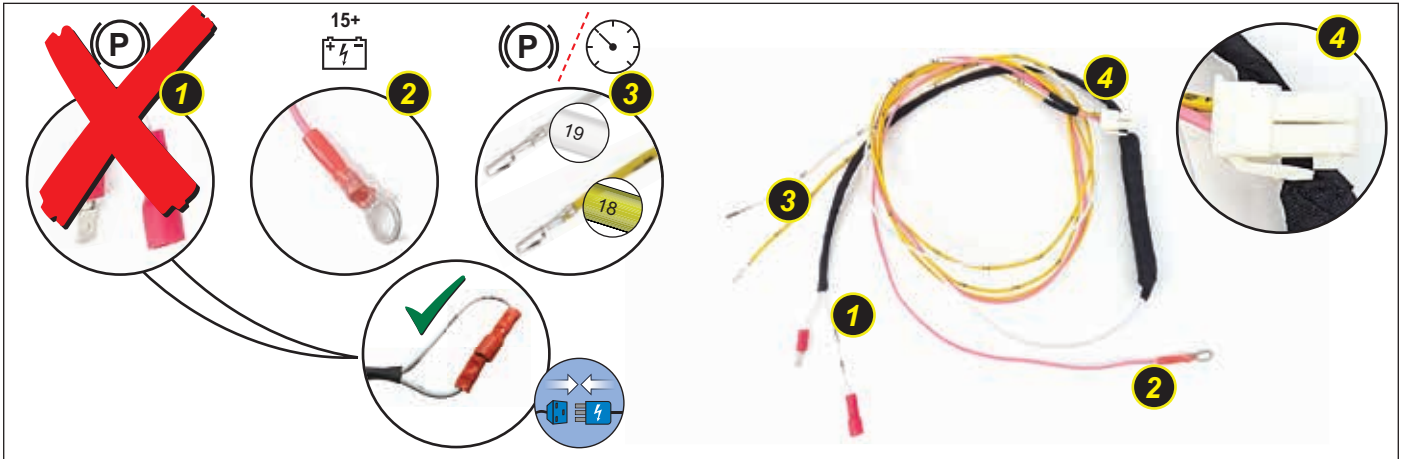
A2 A3 B2 B3 B

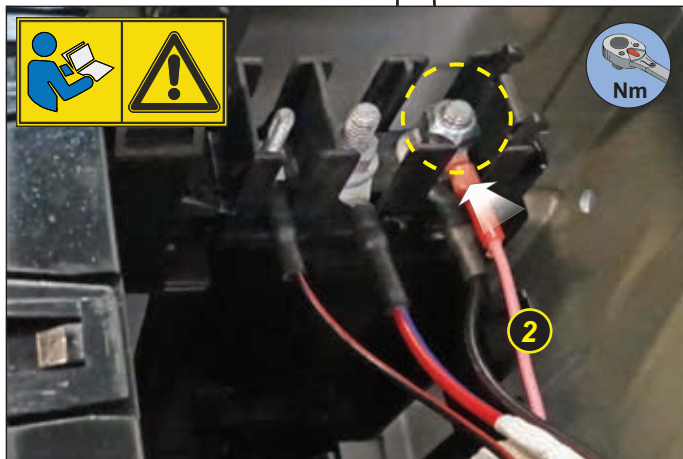
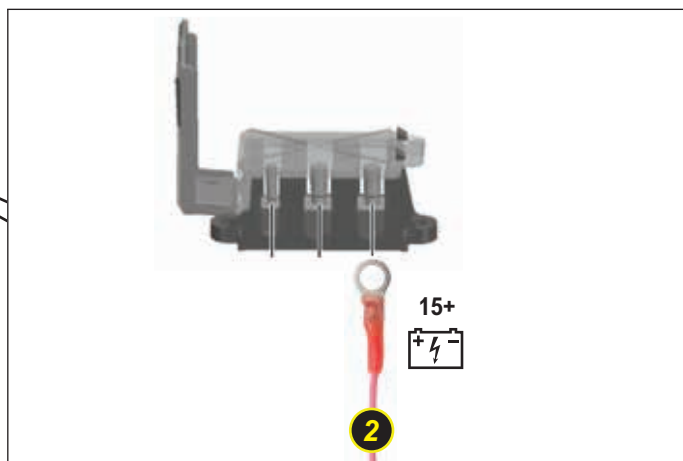
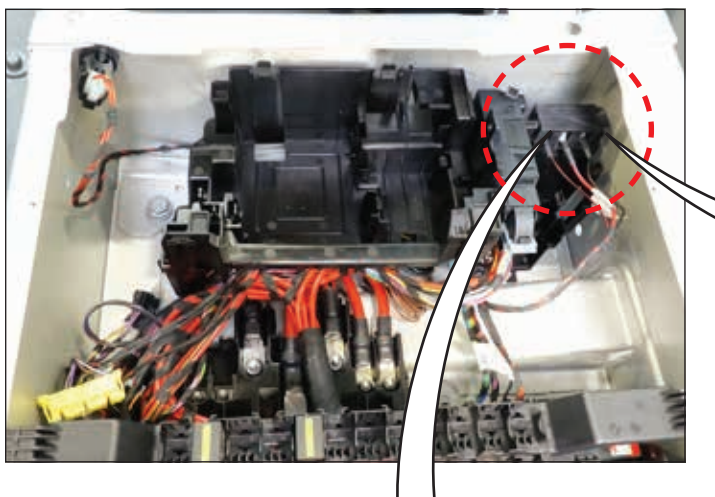
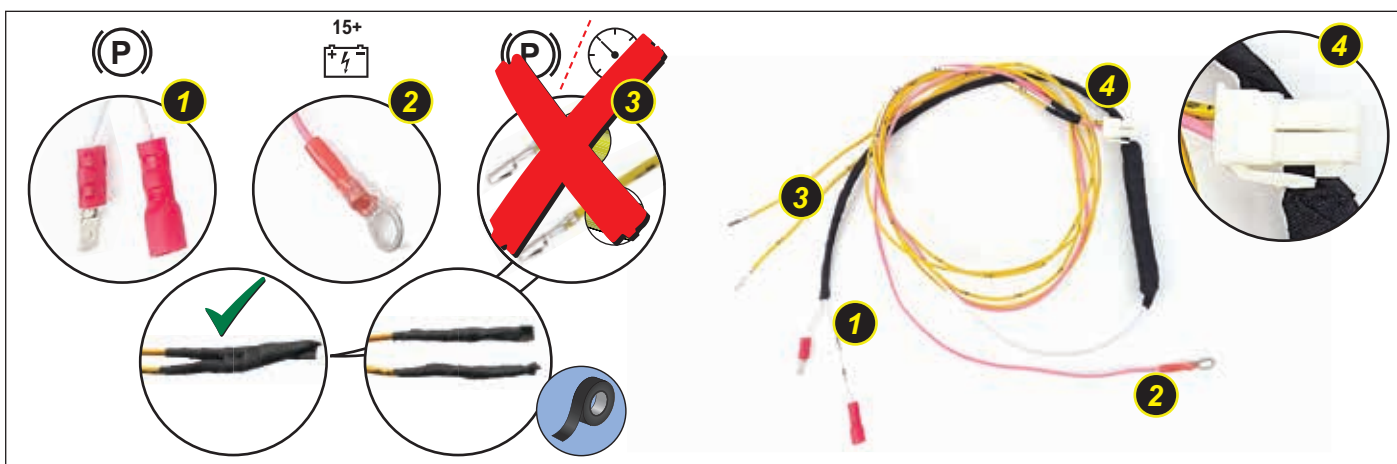
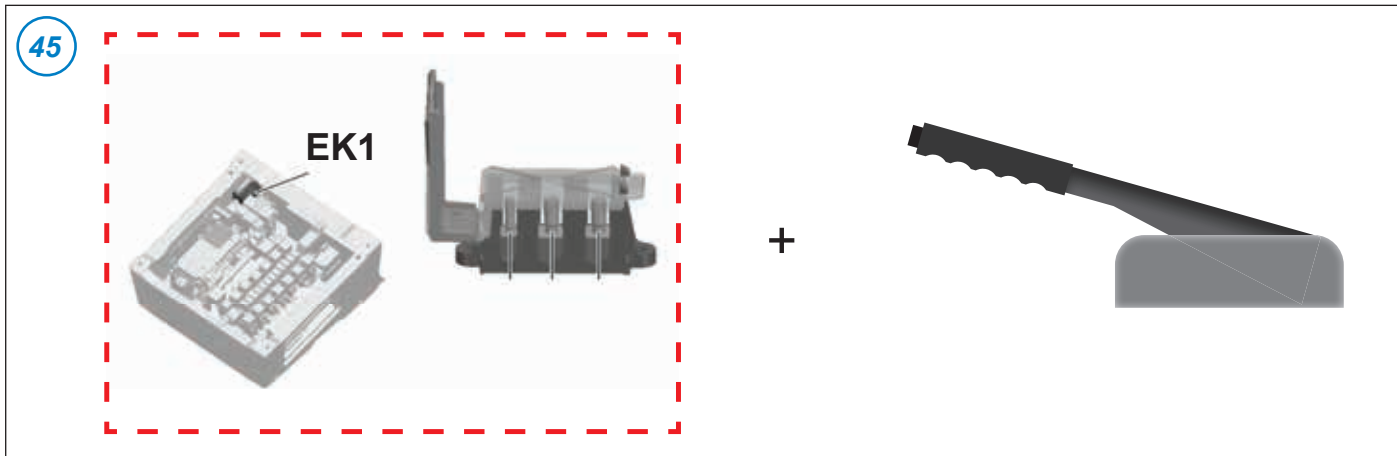
? → WIRING HARNESS Page 46

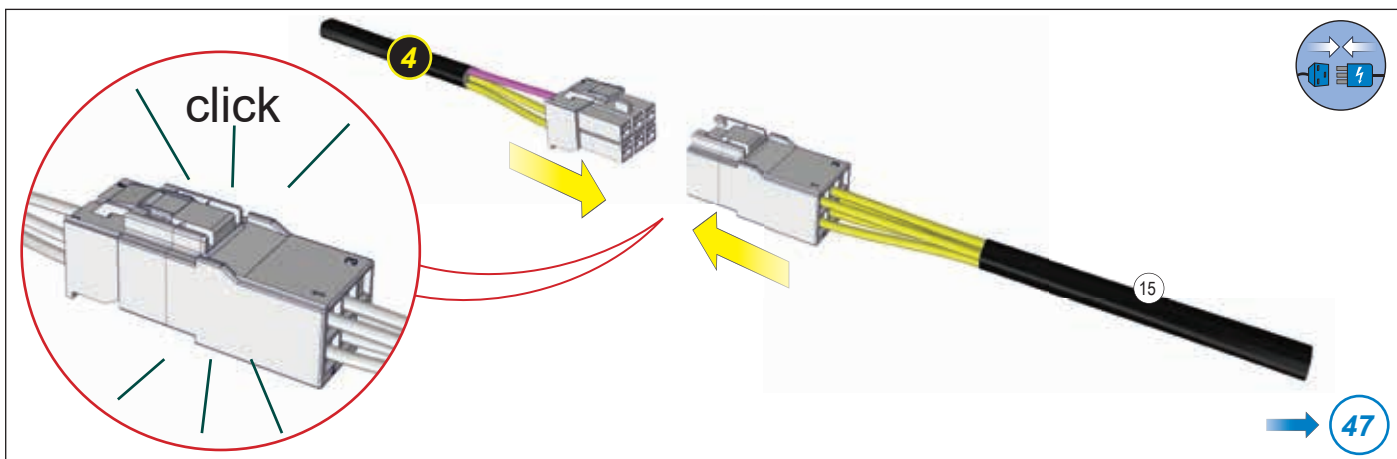
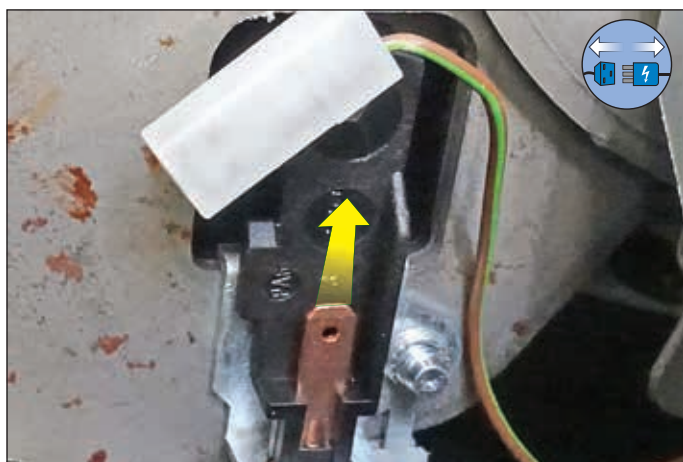
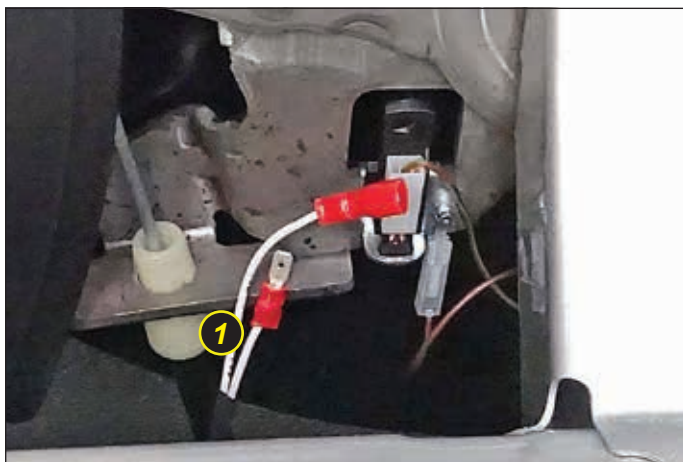






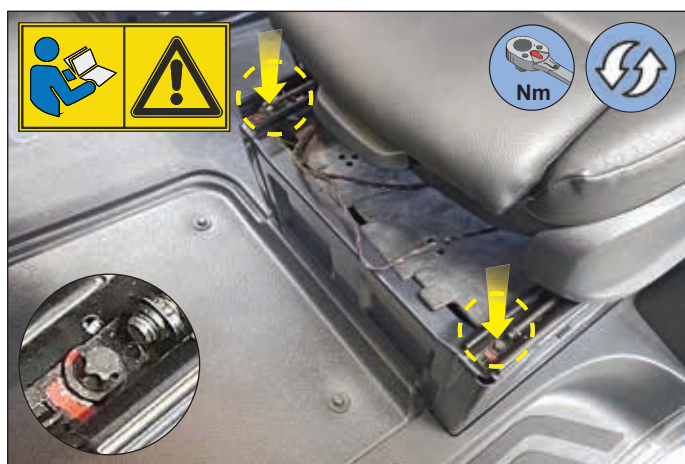
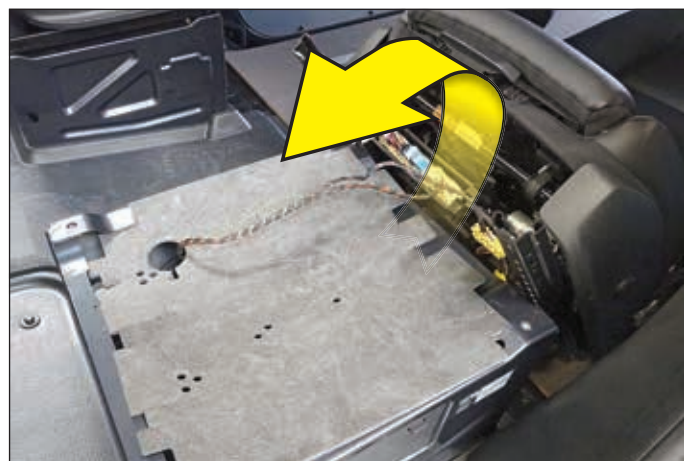
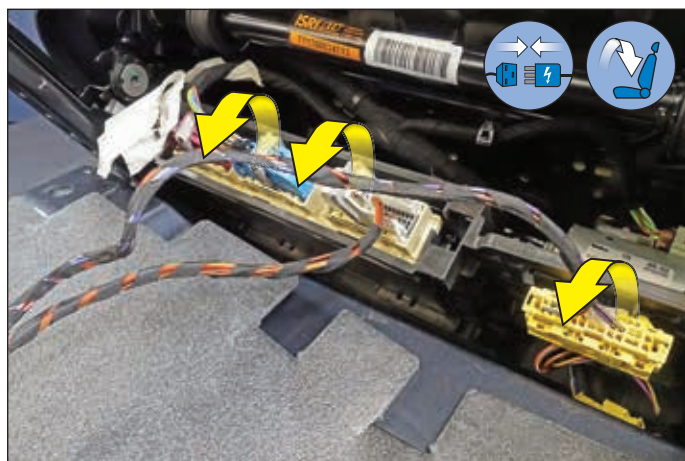
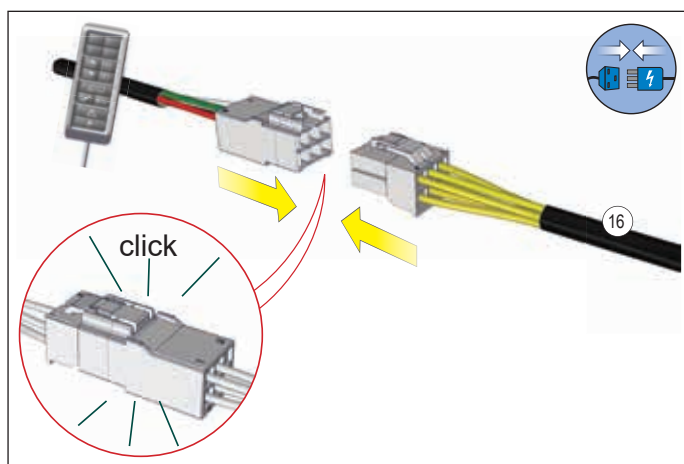
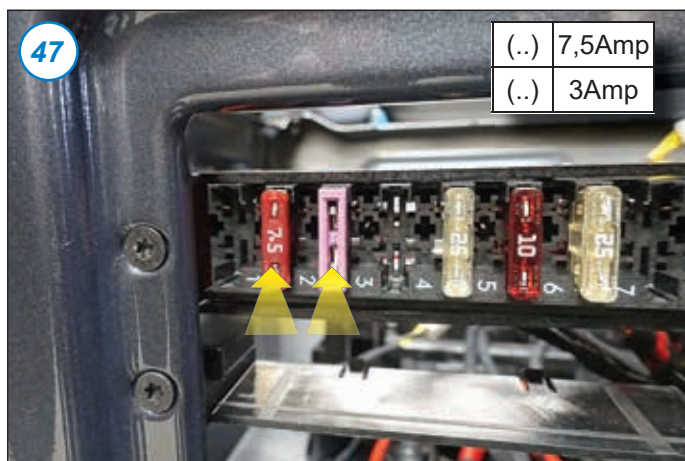






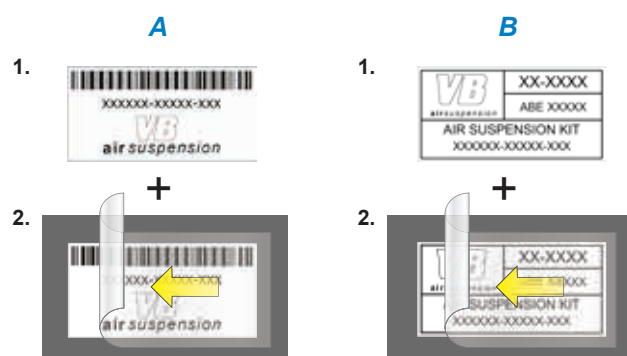
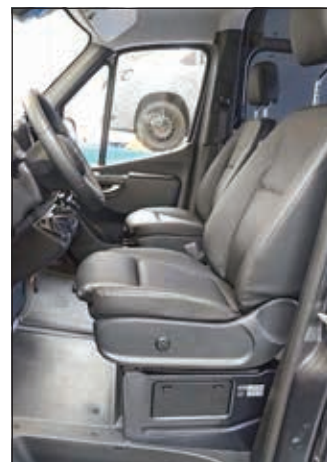
A2 A3 B2 B3 B

? → WIRING HARNESS Page 46

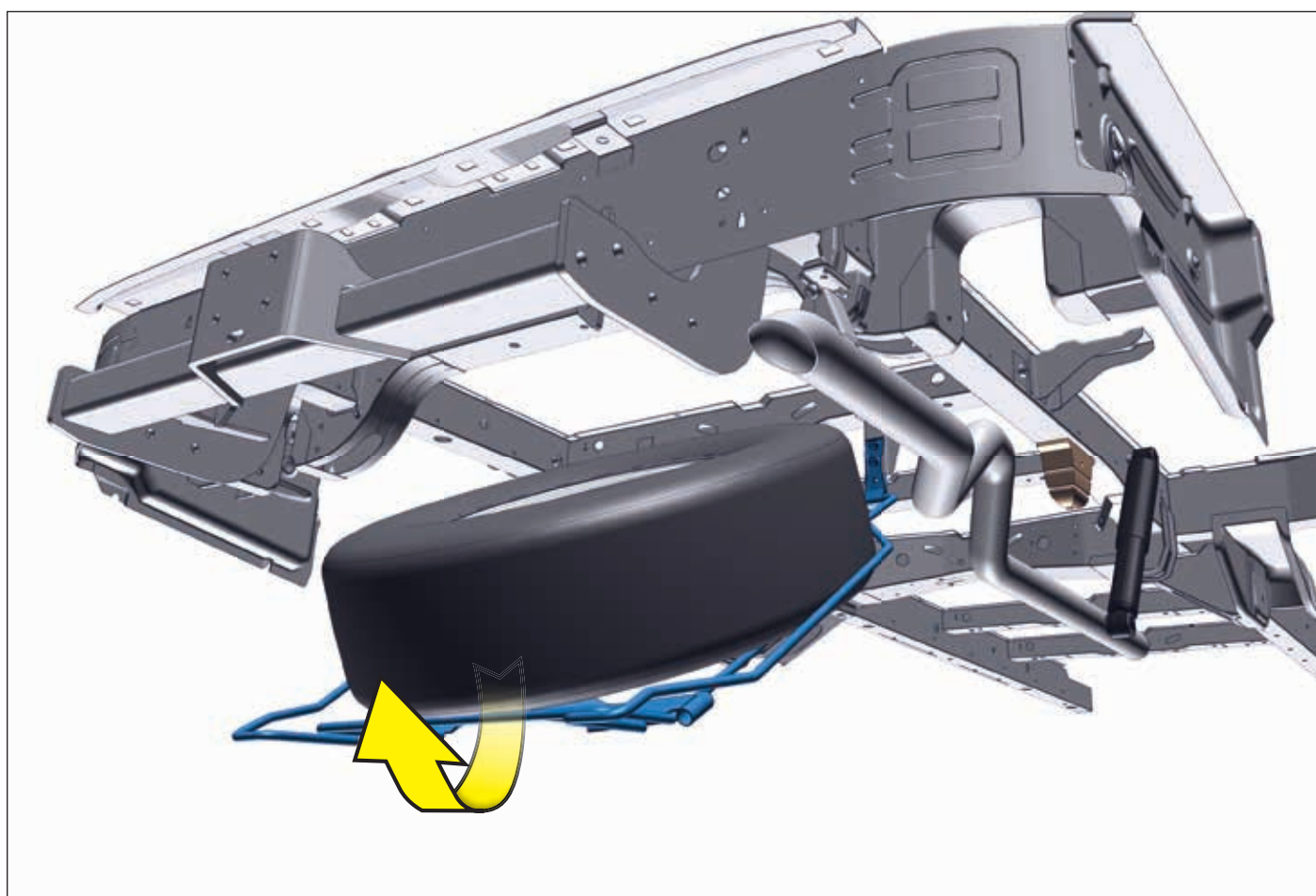
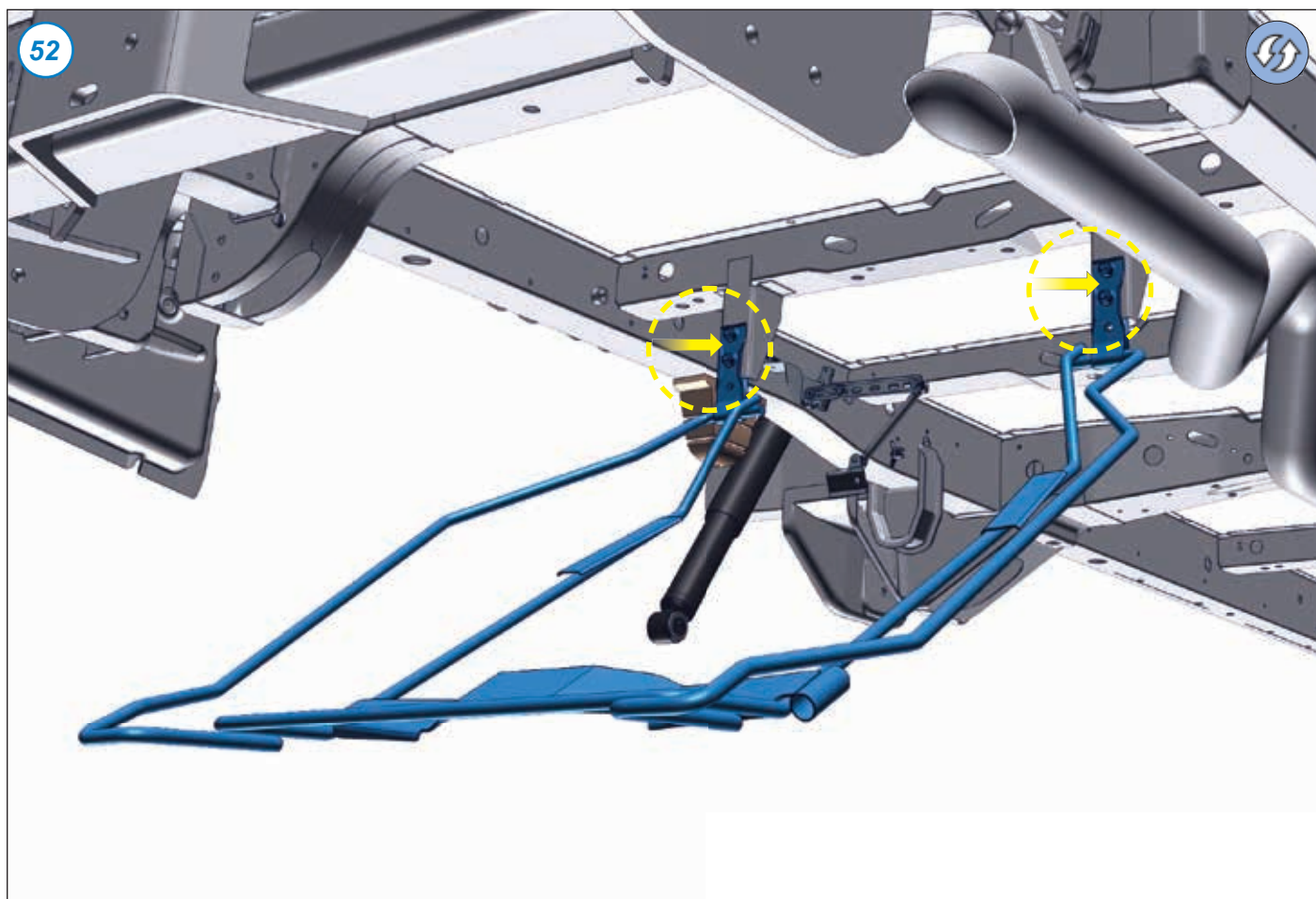


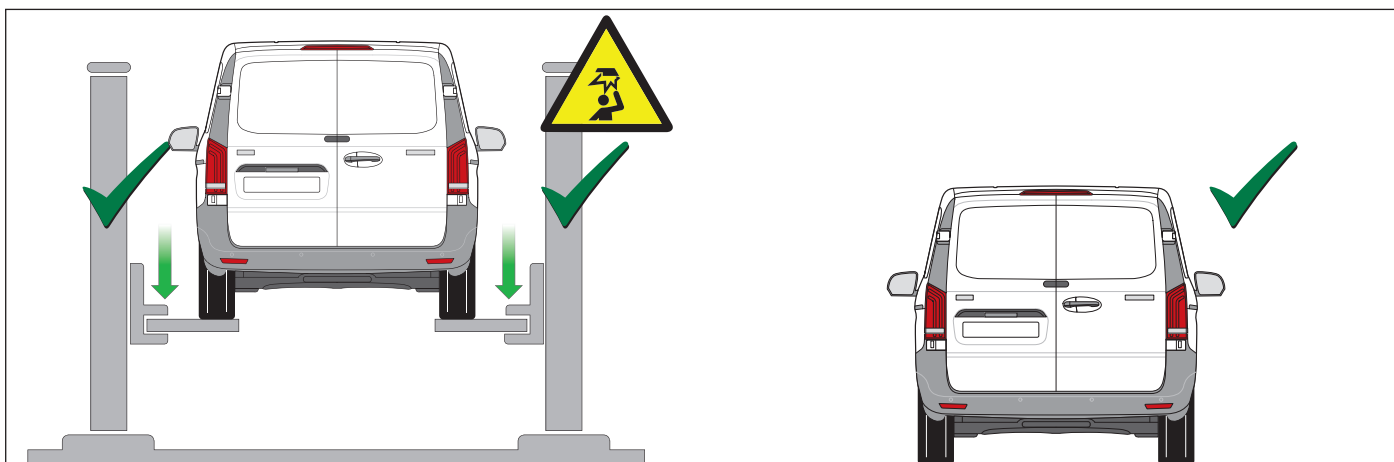
A2 A3 B2 B3 B

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4. CALIBRATION / KALIBRATIE / KALIBRIERUNG / CALIBRAGE



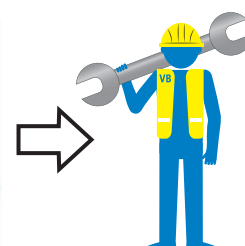
Attention: Read and follow the installation guidelines for vehicle calibration. Follow the guidelines prescribed by VB-Airsuspension.



1. INSTALLATION GUIDELINES
730105000004-ALL



2.



A2 A3 B2 B3 B



B
X= 145

Axle:	Calibration height:	Order number:
Rear axle	B 145 mm	0090000127



53

OR

OR

Have the vehicle adjusted/checked by an authorized body.

OEM

54

OR

OR

Have the vehicle adjusted/checked by an authorized body.

ADAS
(Advanced driver-assistance systems)

OEM

5. CHECKLIST / CHECKLIST / CHECKLISTE / CHECK-LIST



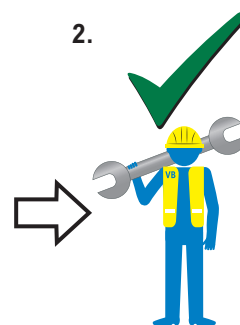
Enclosed is a CHECKLIST in English.
For a CHECKLIST in your own language,
see the supplied VB document
CHECKLIST 730105000003-ALL.

Attention: Fill in the checklist.
This checklist should be retained
by the dealer and must be
available to VB-Airsuspension
for inspection on request.
Follow the guidelines prescribed
by VB-Airsuspension.

1. Checklist
730105000003-ALL



2.



Final checks

- 1.1 ☐ Safety rules and fitting instructions read and followed.
- 1.2 ☐ Ride height correctly calibrated.
- 1.3 ☐ Front axle/rear axle aligned.
- 1.4 ☐ Height sensors correctly fitted.
- 1.5 ☐ Shock absorbers vented.
- 1.6 ☐ Bolted joints tightened to the correct torque and marked with security check paint marker.
- 1.7 ☐ Air tubes, wires and connectors properly secured.
- 1.8 ☐ All parts that were removed have been refitted and checked to ensure they are working properly.
- 1.9 ☐ System checked for air tightness.
- 1.10 ☐ Clearance around air springs checked.
- 1.11 ☐ Identification stickers, plus protective film, affixed to the vehicle.
- 1.12 ☐ Headlamp adjustment checked.
- 1.13 ☐ If required, have ADAS (Advanced Driver Assistance Systems) recalibrated.
- 1.14 ☐ If required, have the vehicle aligned.
- 1.15 ☐ VB-ID card inside cover of user manual.
- 1.16 Documentation present in vehicle: ☐ - User manual
☐ - TÜV/ABE documentation
☐ - Original vehicle documentation
- 1.17 ☐ Battery voltage (<12.4 volt = charge).
- 1.18 ☐ Tyre pressures correct.

System functions

- 2.1 ☐ * Raise manually.
- 2.2 ☐ * Lower automatically.
- 2.3 ☐ * Lower manually.
- 2.4 ☐ * Raise automatically.
- 2.5 ☐ Test drive carried out.

☐ **SYSTEM OK**

* Not for VB-NivoAir

Completed as a true and accurate record:

Date: - -

VIN:

Dealer: _____

VB-ID-no.: - -

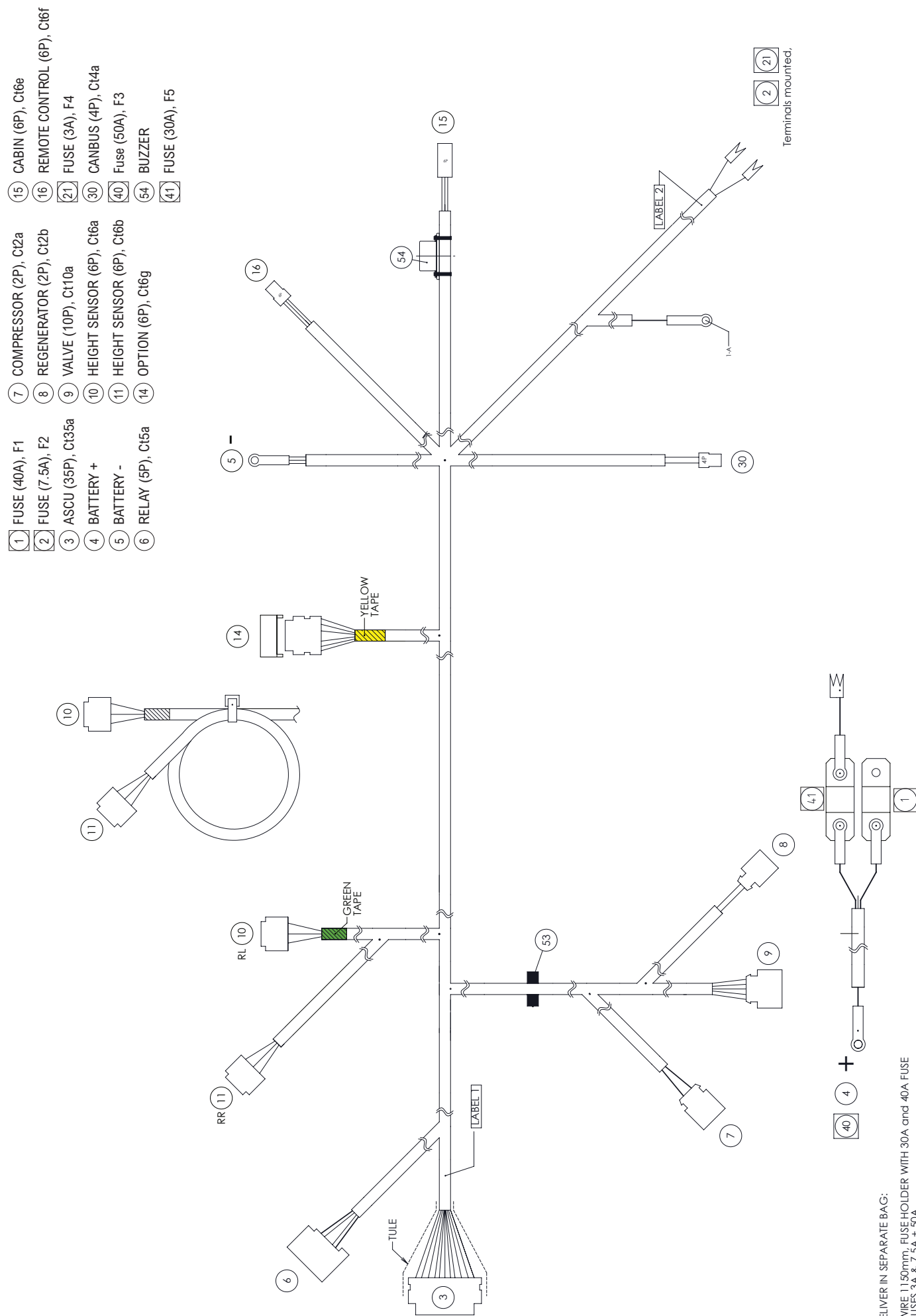
Kit numbers(s):

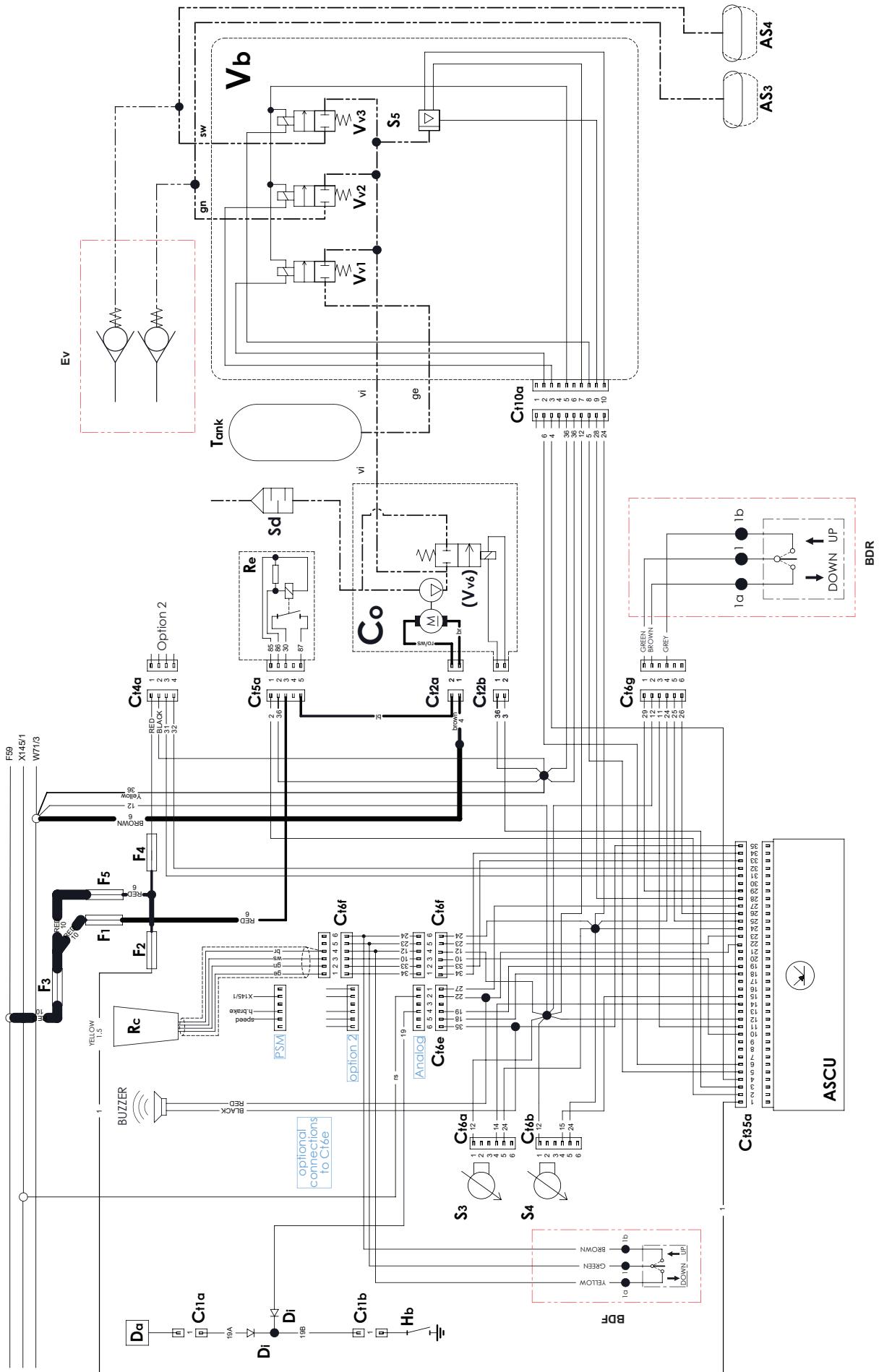
Fitting instructions no.:

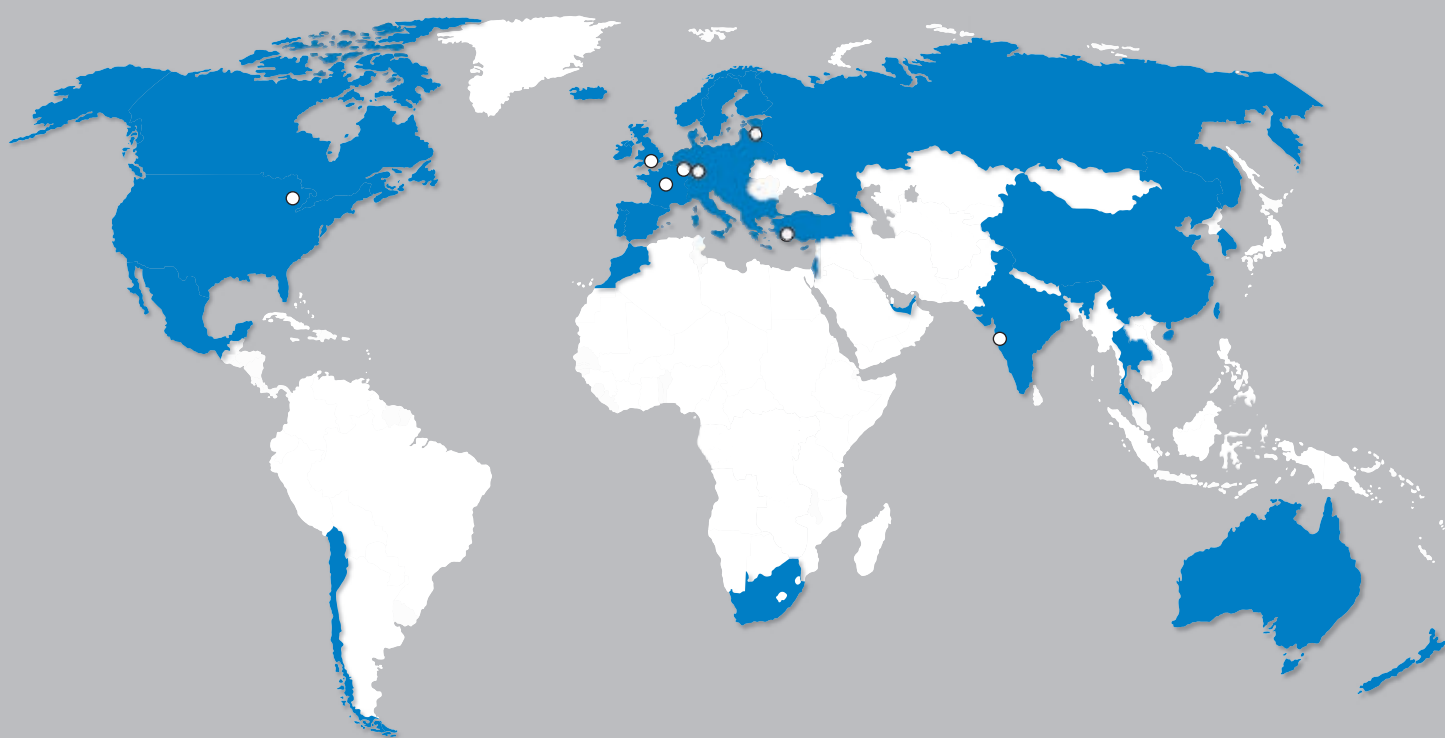
Version:

This checklist should be retained by the dealer and must be available to VB-Airsuspension for inspection on request.

6. ELECTRICAL DIAGRAM / ELEKTRISCH SCHEMA / SCHALTBILD / SCHÉMA ÉLECTRIQUE







VB-AIRSUSPENSION,

INCREASED COMFORT, BETTER DRIVEABILITY, MORE SAFETY.



730105022725-00 ALL V00