



Kraftfahrt-Bundesamt

DE-24932 Flensburg

Allgemeine Betriebserlaubnis (ABE) National Type Approval

ausgestellt von:

Kraftfahrt-Bundesamt (KBA)

nach § 22 in Verbindung mit § 20 Straßenverkehrs-Zulassungs-Ordnung (StVZO)
für einen Typ des folgenden Genehmigungsobjektes

Hardtop

issued by:

Kraftfahrt-Bundesamt (KBA)

according to § 22 and 20 Straßenverkehrs-Zulassungs-Ordnung (StVZO) for a type
of the following approval object

Loading space cover

Genehmigungsnummer: **31929*00**

Approval number:

1. Genehmigungsinhaber:
Holder of the approval:
Vandapac B.V.
NL-5047TW Tilburg
2. Gegebenenfalls Name und Anschrift des Bevollmächtigten:
If applicable, name and address of representative:
Entfällt
Not applicable
3. Typbezeichnung:
Type:
Venture Canopy



Kraftfahrt-Bundesamt

DE-24932 Flensburg

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Genehmigungsnummer: **31929*00**

Approval number:

4. Aufgebrachte Kennzeichnungen:
Identification markings:
Hersteller oder Herstellerzeichen
Manufacturer or registered manufacturer`s trademark

Typ
Type

Genehmigungszeichen
Approval identification

5. Anbringungsstelle der Kennzeichnungen:
Position of the identification markings:
Siehe Punkt 0.9 des Prüfberichtes
See point 0.9 of the test report
6. Zuständiger Technischer Dienst:
Responsible Technical Service:
TÜV Nord Mobilität GmbH & Co. KG Institut für Fahrzeugtechnik und Mobilität
DE-45307 Essen
7. Datum des Prüfberichts des Technischen Dienstes:
Date of test report issued by the Technical Service:
12.06.2023
8. Nummer des Prüfberichts des Technischen Dienstes:
Number of test report issued by that Technical Service:
8121530046
9. Verwendungsbereich:
Range of application:
Das Genehmigungsobjekt „Hardtop“ darf nur zur Verwendung gemäß:
The use of the approval object „Loading space cover“ is restricted to the application listed:
- Punkt 3 des Prüfberichtes**
Point 3 of the test report
- unter den angegebenen Bedingungen an den dort aufgeführten bzw. beschriebenen Kraftfahrzeugen feilgeboten werden.**
The offer for sale is only allowed on the listed vehicles under the specified conditions.



Kraftfahrt-Bundesamt

DE-24932 Flensburg

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Genehmigungsnummer: **31929*00**

Approval number:

10. Bemerkungen:

Remarks:

**Es gelten die im o.g. Gutachten nebst Anlagen festgehaltenen Angaben.
The indications given in the above mentioned test report including its annexes shall apply.**

Die Anforderungen des Artikels 31, Absätze 5, 6, 8, 9 und 12 der Richtlinie 2007/46/EG - Verkauf und Inbetriebnahme von Teilen oder Ausrüstungen, von denen ein erhebliches Risiko für das einwandfreie Funktionieren wesentlicher Systeme ausgehen kann - sind sinngemäß erfüllt.

The requirements of Article 31, paragraphs 5, 6, 8, 9 and 12 of directive 2007/46/EC - Sale and entry into service of parts or equipment which are capable of posing a significant risk to the correct functioning of essential systems - are met.

11. Änderungsabnahme gemäß § 19 (3) StVZO:

Acceptance test of the modification as per § 19 (3) StVZO:

Siehe Prüfbericht

See test report

12. Die Genehmigung wird **erteilt**

Approval is **granted**

13. Grund (Gründe) für die Erweiterung der Genehmigung (falls zutreffend):

Reason(s) for the extension (if applicable):

Entfällt

Not applicable

14. Ort: **DE-24932 Flensburg**

Place:

15. Datum: **20.06.2023**

Date:

16. Unterschrift: **Im Auftrag**

Signature:

Dirk Hansen





Kraftfahrt-Bundesamt

DE-24932 Flensburg

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Genehmigungsnummer: **31929*00**

Approval number:

Anlagen:

Enclosures:

Gemäß Inhaltsverzeichnis

According to index



Kraftfahrt-Bundesamt

DE-24932 Flensburg

Inhaltsverzeichnis zu den Beschreibungsunterlagen Index to the information package

Nummer der Genehmigung: **31929*00**
Approval No.

Ausgabedatum: **20.06.2023**
Date of issue:

letztes Änderungsdatum: --
last date of amendment:

Nebenbestimmungen und Rechtsbehelfsbelehrung
Collateral clauses and instruction on right to appeal

Prüfbericht(e) Nr.:
Test report(s) No.:
8121530046

Datum:
Date
12.06.2023

Beschreibungsbogen Nr.:
Information document No.:
Entfällt
Not applicable

Datum:
Date

Liste der Änderungen:
List of modifications:
Entfällt
Not applicable

Datum:
Date



Kraftfahrt-Bundesamt

DE-24932 Flensburg

Nummer der Genehmigung: **31929*00**

- Anlage -

Nebenbestimmungen und Rechtsbehelfsbelehrung

Nebenbestimmungen

Jede Einrichtung, die dem genehmigten Typ entspricht, ist gemäß der angewendeten Vorschrift zu kennzeichnen.

Das Genehmigungszeichen lautet wie folgt:

KBA 31929

Die Einzelerzeugnisse der reihenweisen Fertigung müssen mit den Genehmigungsunterlagen genau übereinstimmen. Änderungen an den Einzelerzeugnissen sind nur mit ausdrücklicher Zustimmung des Kraftfahrt-Bundesamtes gestattet.

Änderungen der Firmenbezeichnung, der Anschrift und der Fertigungsstätten sowie eines bei der Erteilung der Genehmigung benannten Zustellungsbevollmächtigten oder bevollmächtigten Vertreters sind dem Kraftfahrt-Bundesamt unverzüglich mitzuteilen.

Verstöße gegen diese Bestimmungen können zum Widerruf der Genehmigung führen und können überdies strafrechtlich verfolgt werden.

Die Genehmigung erlischt, wenn sie zurückgegeben oder entzogen wird, oder der genehmigte Typ den Rechtsvorschriften nicht mehr entspricht. Der Widerruf kann ausgesprochen werden, wenn die für die Erteilung und den Bestand der Genehmigung geforderten Voraussetzungen nicht mehr bestehen, wenn der Genehmigungsinhaber gegen die mit der Genehmigung verbundenen Pflichten - auch soweit sie sich aus den zu dieser Genehmigung zugeordneten besonderen Auflagen ergeben - verstößt oder wenn sich herausstellt, dass der genehmigte Typ den Erfordernissen der Verkehrssicherheit oder des Umweltschutzes nicht entspricht.

Das Kraftfahrt-Bundesamt kann jederzeit die ordnungsgemäße Ausübung der durch diese Genehmigung verliehenen Befugnisse, insbesondere die genehmigungsgerechte Fertigung sowie die Maßnahmen zur Übereinstimmung der Produktion, nachprüfen. Es kann zu diesem Zweck Proben entnehmen oder entnehmen lassen. Dem Kraftfahrt-Bundesamt und/oder seinen Beauftragten ist ungehinderter Zutritt zu Produktions- und Lagerstätten zu gewähren.

Die mit der Erteilung der Genehmigung verliehenen Befugnisse sind nicht übertragbar. Schutzrechte Dritter werden durch diese Genehmigung nicht berührt.

Rechtsbehelfsbelehrung

Gegen diese Genehmigung kann innerhalb eines Monats nach Bekanntgabe Widerspruch erhoben werden. Der Widerspruch ist beim **Kraftfahrt-Bundesamt, Fördestraße 16, DE-24944 Flensburg**, schriftlich oder zur Niederschrift einzulegen.



Kraftfahrt-Bundesamt

DE-24932 Flensburg

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Approval No.: **31929*00**

- Attachment -

Collateral clauses and instruction on right to appeal

Collateral clauses

All equipment which corresponds to the approved type is to be identified according to the applied regulation.

The approval identification is as follows: - see German version -

The individual production of serial fabrication must be in exact accordance with the approval documents. Changes in the individual production are only allowed with express consent of the Kraftfahrt-Bundesamt.

Changes in the name of the company, the address and the manufacturing plant as well as one of the parties given the authority to delivery or authorised representative named when the approval was granted is to be immediately disclosed to the Kraftfahrt-Bundesamt.

Breach of this regulation can lead to recall of the approval and moreover can be legally prosecuted.

The approval expires if it is returned or withdrawn or if the type approved no longer complies with the legal requirements. The revocation can be made if the demanded requirements for issuance and the continuance of the approval no longer exist, if the holder of the approval violates the duties involved in the approval, also to the extent that they result from the assigned conditions to this approval, or if it is determined that the approved type does not comply with the requirements of traffic safety or environmental protection.

The Kraftfahrt-Bundesamt may check the proper exercise of the conferred authority taken from this approval at any time. In particular this means the compliant production as well as the measures for conformity of production. For this purpose samples can be taken or have taken. The employees or the representatives of the Kraftfahrt-Bundesamt may get unhindered access to the production and storage facilities.

The conferred authority contained with issuance of this approval is not transferable. Trade mark rights of third parties are not affected with this approval.

Instruction on right to appeal

This approval can be appealed within one month after notification. The appeal is to be filed in writing or as a transcript at the **Kraftfahrt-Bundesamt, Fördestraße 16, DE-24944 Flensburg.**

zur Erteilung einer Allgemeinen Betriebserlaubnis (ABE) nach
§ 22 Straßenverkehrs-Zulassungs-Ordnung (StVZO) in Verbindung mit § 20 StVZO
for the Granting of an ABE (German Authorisation) acc. to
§ 22 German Road Traffic Licensing Regulations (StVZO) in connection with § 20 StVZO

Fahrzeugteilart : Hardtop (Laderaumabdeckung)
Vehicle Component : Hardtop (Loading space cover)
Typ / Type : Venture Canopy
Antragsteller / Client : Vandapac B.V., 5047 TW Tilburg, Niederlande

1. Der genannte Fahrzeugteiletyp wird im Auftrag des Antragstellers im Betrieb der Firma Vandapac Co. Ltd., Chonburi 20000, Thailand gefertigt.

The vehicle component listed above is being manufactured in the production plant of Vandapac Co. Ltd., Chonburi 20000, Thailand in application of the client.

2. Der Antragsteller ermöglicht aufgrund von technischen Fachkräften, Fertigungsanlagen und Kontrolleinrichtungen eine gleichmäßige, reihenweise Fertigung von Fahrzeugteilen des in der Typbeschreibung festgelegten Teiletyps.

Based on the expertise of his technical workers, on his assembly facilities and on his production control, the applicant enables a uniform assembly of vehicle parts in series of the type of parts listed in the type description.

Tatsachen, die die Zuverlässigkeit des Herstellers im Sinne des § 20 StVZO in Frage stellen, sind hier nicht bekannt.

There are no facts known which could lead to question the reliability of the manufacturer with respect to § 20 StVZO.

3. Die beigefügte Typbeschreibung besteht aus Blatt 1 bis 5 und ist mit den darin unter Nr. 5. angegebenen Anlagen Bestandteil des Gutachtens.

The enclosed type description consists of pages 1 to 5 and it becomes a part of this report together with the attachments listed under point 5.

4. Der Teiletyp entspricht der vollständigen Typbeschreibung und genügt den heute gültigen Bestimmungen der StVZO, den hierzu vom Bundesministerium für Digitales und Verkehr erlassenen heute gültigen Anweisungen und Richtlinien.

The vehicle part corresponds with the complete type description and meets current StVZO requirements, the present directions and directives passed by the Federal Ministry of Digital and Transport.

zur Erteilung einer Allgemeinen Betriebserlaubnis (ABE) nach
§ 22 Straßenverkehrs-Zulassungs-Ordnung (StVZO) in Verbindung mit § 20 StVZO
for the Granting of an ABE (German Authorisation) acc. to
§ 22 German Road Traffic Licensing Regulations (StVZO) in connection with § 20 StVZO

Fahrzeugteailart : Hardtop (Laderaumabdeckung)
Vehicle Component : *Hardtop (Loading space cover)*
Typ / Type : Venture Canopy
Antragsteller / Client : Vandapac B.V., 5047 TW Tilburg, Niederlande

5. Der Erteilung einer ABE stehen technische Bedenken nicht entgegen.

There are no technical objections to the granting of an ABE.

6. Die Anforderungen des Artikels 31, Absätze 5, 6, 8, 9 und 12 der Richtlinie 2007/46/EG
- Verkauf und Inbetriebnahme von Teilen oder Ausrüstungen, von denen ein erhebliches
Risiko für das einwandfreie Funktionieren wesentlicher Systeme ausgehen kann – sind sinn-
gemäß erfüllt.

*The requirements of Article 31, paragraphs 5, 6, 8, 9 and 12 of directive 2007/46/EC - sale and entry
into service of parts or equipment which are capable of posing a significant risk to the correct function-
ing of essential systems – are met.*

TÜV NORD Mobilität GmbH & Co. KG
IFM - Institut für Fahrzeugtechnik und Mobilität
Schönscheidtstr. 28, 45307 Essen
DIN EN ISO/IEC 17025, 17020
Benannt als Technischer Dienst / *Designated as Technical Service*
vom Kraftfahrt Bundesamt / *by Kraftfahrt-Bundesamt: KBA – P 00004-96*

Hannover, Germany 12.06.2023
IFM/926/Sir



Dipl.-Ing. (FH) Schneider
IFM - Institut für Fahrzeugtechnik und Mobilität
Test Laboratory Motor Vehicle Engineering

Auftragsnummer / Order number 8121530046
E-Mail / E-mail reschneider@tuev-nord.de
Telefon / Phone +49 511 998 61578

Fahrzeugteiletyp / Component type : Venture Canopy
Antragsteller / Client : Vandapac B.V., 5047 TW Tilburg, Niederlande

0 Allgemeines / General

- 0.1 Antragsteller / Client : Vandapac B.V.
Aphroditestraat 1
5047 TW Tilburg
Niederlande
- 0.2 Hersteller / Manufacturer : Vandapac Co. Ltd.
700/135 Moo 5
Klongtumru, Muang Chonuri
Chonburi 20000
Thailand
- 0.3 Teileart / Component : Hardtop
(Laderaumabdeckung / loading space cover)
- 0.4 Teiletyp / Component type : Venture Canopy
- 0.5 Handelsbezeichnung / Make : Venture Canopy
- 0.6 Varianten / Variants : siehe Anlage 1.1 / see attachment 1.1
- 0.7 Wahlweise Ausrüstung
Optional fittings : ohne
without
- 0.8 Kennzeichnung (Beispiel)
Markings (example) : Hersteller / Manufacturer VANDAPAC
Teiletyp / Component type Venture Canopy
Prüfzeichen / Approval mark KBA XXXXX
- 0.9 Art und Ort der Kennzeichnung
Type and location of markings
- Art / Type : Herstellerschild als Folie, aufgeklebt
manufacturer's plate, glued-on foil
- Ort / Location : vorn rechts, innen
at the front right, inside

Fahrzeugteiletyp / Component type : Venture Canopy
Antragsteller / Client : Vandapac B.V., 5047 TW Tilburg, Niederlande

1 Technische Angaben / Technical data

- 1.1 Beschreibung / Description : Das Fahrzeugteil wird auf dem Rand der offenen Ladefläche des Fahrzeugs befestigt. Je nach Variante ist das Fahrzeugteil ohne Seitenscheiben, mit Klappscheiben oder Schiebescheiben seitlich ausgerüstet.
The part is for mounting on the border of the open loading platform. Depending on the variant the part is equipped without side windows, with popup windows or slide windows at the sides.
- 1.2 Hauptabmessungen / Dimensions : siehe Anlage 1.1 / see attachment 1.1
- 1.3 Gewicht / Weight : siehe Anlage 1.1 / see attachment 1.1
- 1.4 Werkstoff / Material
- Gehäuse, Heckklappe : ABS
Housing, rear door
 - Scheiben / Windows : Sicherheitsglas, klar oder getönt
Safety glass, clear or tinted
 - Halterungen / Fittings : Stahl / Steel
 - Reling / Roof rail : Aluminium / Aluminium
- 1.5 Scheiben / Windows : E13 43R-000129
wahlweise / optional : E4 43R-012509
wahlweise / optional : E1 43R-012507
wahlweise / optional : andere Scheiben mit Bauartgenehmigung gemäß UNECE R43.
other windows with homologation acc. to UNECE R43.
- 1.6 Befestigung / Mounting : Die Bauteile werden unter Verwendung der zum Lieferumfang gehörenden Befestigungsteile und -mittel gemäß der Montageanleitung des Herstellers am Fahrzeug befestigt.
The components are installed according to the manufacturer's installation instructions using the enclosed mounting parts.

Fahrzeugteiletyp / Component type : Venture Canopy
Antragsteller / Client : Vandapac B.V., 5047 TW Tilburg, Niederlande

2 Prüfungen / Tests

2.1 Äußere Gestaltung / Exterior body

Die geprüften Muster wurden im angebauten Zustand bezüglich der nach außen weisenden Kanten gemäß § 30c StVZO sowie gemäß UNECE R26 positiv begutachtet.

The samples were inspected in installed condition according to the outer projections allowances following the regulations of § 30c StVZO and UNECE R26. The parts comply with these regulations.

2.2 Fahrverhalten / Handling performance

Durch den Anbau der Fahrzeugteile sind bei bestimmungsgemäßigem Betrieb des Fahrzeugs keine negativen Auswirkungen auf das Fahr-, Brems- und Lenkverhalten zu erwarten.

The installation of the parts does not have negative influences on the driving characteristics, braking and steering under normal driving conditions.

2.3 Befestigung am Fahrzeug / Mounting on the vehicle

Die Befestigung des Fahrzeugteils am Fahrzeug ist unter Verwendung der zum Lieferumfang gehörenden Befestigungsteile und bei Beachtung der Montageanleitung als sicher und dauerhaft anzusehen.

The mounting of the components onto the vehicle using the enclosed mounting parts and observation of the manufacturer's mounting instructions may be regarded as safe and permanent.

2.4 Fahrzeugabmessungen / Vehicle dimensions

Durch den Anbau der Fahrzeugteile ändert sich die Fahrzeughöhe um die in der Anlage 1.1 angegebenen Werte. Die Anforderungen der Verordnung (EU) 1230/2012 hinsichtlich der Massen und Abmessungen sind erfüllt.

The installation of the components alters the vehicle's height by the values given in attachment 1.1. The requirements of Regulation (EU) 1230/2012 with regard to dimensions and dimensions are fulfilled.

2.5 Rückspiegel / Rear view mirror

Die indirekte Sicht über die beiden serienmäßigen Außenrückspiegel ist durch den Anbau des Fahrzeugteils nicht beeinträchtigt. Die Anforderungen der UNECE R46 hinsichtlich der indirekten Sicht sind erfüllt.

The field of vision of both standard outer rear view mirrors is not affected by the components. The requirements of the UNECE R46 regarding the indirect vision are fulfilled.

Fahrzeugteiletyp / Component type : Venture Canopy
Antragsteller / Client : Vandapac B.V., 5047 TW Tilburg, Niederlande

2.6 Fahrzeuggewicht / Vehicle weight

Die sich durch den Anbau des Fahrzeugteils ergebenden Änderungen des Leergewichts des Fahrzeugs sind in der Anlage 1.1 angegeben. Die Anforderungen der Verordnung (EU) 1230/2012 hinsichtlich der Massen und Abmessungen sind erfüllt.

*The changes in kerb weight due to the installation of the components are given in attachment 1.1
The requirements of Regulation (EU) 1230/2012 with regard to dimensions and dimensions are fulfilled.*

2.7 Splittersicherheit / Split-proof

Die Werkstoffe erfüllen die Anforderungen bezüglich der Splittersicherheit.

The materials used comply with the requirements with respect to being split-proof.

2.8 Brandverhalten / Fire behaviour

Die Werkstoffe erfüllen die Anforderungen bezüglich der Entflammbarkeit.

The materials used comply with the requirements with respect to flammability.

2.9 Lichttechnische Einrichtungen / Lighting equipment

Ein Einfluss auf die lichttechnischen Einrichtungen ist durch den Anbau des Fahrzeugteils nicht gegeben. Die Anforderungen der UNECE R48 hinsichtlich des Anbaues der lichttechnischen Einrichtungen sind erfüllt.

Lighting equipment is not affected. The requirements of the UNECE R48 regarding the mounting of lighting equipment are fulfilled.

3 Verwendungsbereich / Range of application

Fahrzeughersteller

Vehicle manufacturer : FORD

Fahrzeugtypen / Vehicle types : 2AB

Handelsbezeichnung / Trade name : RANGER

Fahrzeugklasse

Categorie of the vehicle : N1, N1G

Fahrzeugausführungen

Variants of the vehicle : Double Cab

Genehmigung / Approval No. : e5*2007/46*0080*

Fahrzeugteiletyp / Component type : Venture Canopy
Antragsteller / Client : Vandapac B.V., 5047 TW Tilburg, Niederlande

4 Abnahme des Anbaus / Inspection of the installation

Die zur Prüfung vorgestellten Fahrzeugteile / The vehicle components presented for acceptance

Venture Canopy

in den beschriebenen Ausführungen entsprechen den vorstehenden Angaben. Die im Verwendungsbereich aufgeführten Fahrzeuge entsprechen nach dem Anbau der zugeordneten Fahrzeugteile den heute gültigen Vorschriften der StVZO sowie den hierzu vom Bundesminister für Verkehr erlassenen heute gültigen Anweisungen und Richtlinien.

as described in their variants, comply with the aforesaid description. The vehicles listed under application comply after the installation of the described vehicle components- with currently valid regulations of StVZO as well as with the instructions and ordinances issued by the German Federal Ministry of Transport.

Eine Prüfung des Anbaus der Fahrzeugteile durch einen amtlich anerkannten Sachverständigen oder Prüfer für den Kfz-Verkehr oder einem Prüfenieur einer amtlich anerkannten Überwachungsorganisation wird nicht für erforderlich gehalten.

Inspections of the vehicle components' installation by an officially recognized expert or an engineer for motorized road traffic vehicles or an inspector of an accredited technical inspection agency are not considered as being required.

Eine Änderung der Angaben in der Zulassungsbescheinigung wird nicht für erforderlich gehalten.

A modification of the motor vehicle registration certificate is not deemed as being required.

5 Anlagen / Attachment

		<u>Zeichnung Nr.</u> <u>Drawing No.</u>	<u>Stand/Status</u>
1.1	Ausführungen / Variants		05.06.2023
1.2	Auflagen und Hinweise / Conditions and notes		12.06.2023
3.1	Installationshandbuch mit Stückliste Installation instructions with parts list	L04-0451A	Rev. 00
4.1	Zeichnung / Drawing	B04-0051	12.01.2023
4.2	Zeichnung / Drawing	B04-0052	12.01.2023
4.3	Zeichnung / Drawing	B04-0053	12.01.2023

Fahrzeugteilettyp / Component type : Venture Canopy
Antragsteller / Client : Vandapac B.V., 5047 TW Tilburg, Niederlande

Stand / Status date 12.06.2023

Auflagen und Hinweise / Conditions and notes

- 1) Der Anbau der Bauteile muss gemäß der Montageanleitung des Herstellers unter Verwendung der zum Lieferumfang gehörenden Befestigungsteile und -mittel gemäß Stückliste erfolgen.

The mounting of the parts must be carried out using the mounting parts included in the delivery according to manufacturer's mounting instructions.

- 2) Die Befestigungsklammern sind regelmäßig auf festen Sitz zu prüfen.

The attachment clamps must be inspected regularly for tightness.

- 3) Durch die Verwendung des Fahrzeugteils erhöht sich das Leergewicht um die in Anlage 1.1 genannten Werte.

The installation of the parts increases the unladen weight of the vehicle by the values listed in Attachment 1.1.

- 4) Die Höhe des Fahrzeugs ändert sich bei Verwendung des Fahrzeugteils um den in Anlage 1.1 genannten Wert.

The height of the vehicle changes as listed in Appendix 1.1 by using the vehicle part.

Fahrzeugteiletyp / *Vehicle Component Type* : Venture Canopy
Antragsteller / *Client* : Vandapac B.V., 5047 TW Tilburg, Niederlande

Stand / *Status date* 05.06.2023

Fahrzeugausführung / *Vehicle Variant*: Double Cab

Laderaumabdeckung / <i>Loading Space Cover</i>					
Variante / <i>Variant</i>	Abmessungen in mm L / B / H <i>Dimensions in mm Length/Width/Height</i>	Gewicht <i>Weight</i> in kg ± 1,5	Fz.-Höhe <i>Veh. Height</i> in mm	Beschreibung / <i>Description</i>	Auflagen und Hinweise <i>Instructions and Reference</i>
Commercial	1722 / 1673 / 533	+ 77	+ 55	Scheiben vorn/hinten, ohne Scheiben seitlich, mit Reling, Heckklappe <i>windows front/rear, without side windows, with railing, rear door</i>	1) – 4)
Leisure Slide In Lift Up Window		+ 94		Scheiben vorn/hinten, Schiebescheiben seitlich, mit Reling, Heckklappe <i>windows front/rear, slide side windows, with railing, rear door</i>	1) – 4)
Leisure Lift Up Window		+ 92		Scheiben vorn/hinten, Ausstellscheiben seitlich, mit Reling, Heckklappe <i>windows front/rear, pop up side windows, with railing, rear door</i>	1) – 4)

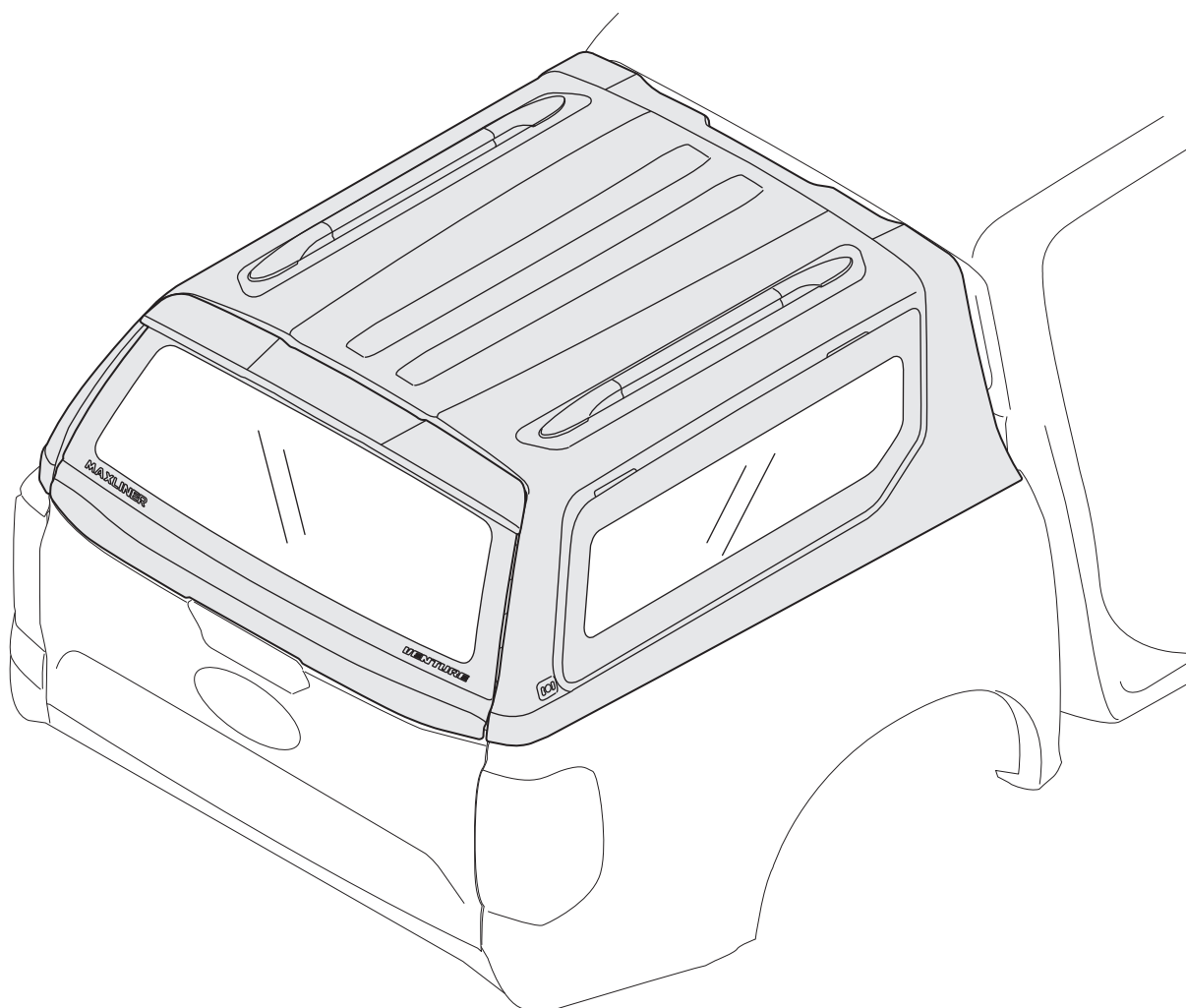


MAXLINER

INSTALLATION INSTRUCTIONS MANUAL

MAXTOP VENTURE

FORD RANGER DOUBLE CAB 2022



S22 31929*00

Contact us



THAILAND OFFICE

☎ + (66 38) 468 008 ext 2001
 ✉ info@maxliner.com
 🏠 700/135 Moo 5, Amata Nakorn,
 Klontumru, Muang Chonburi, 20000 Thailand

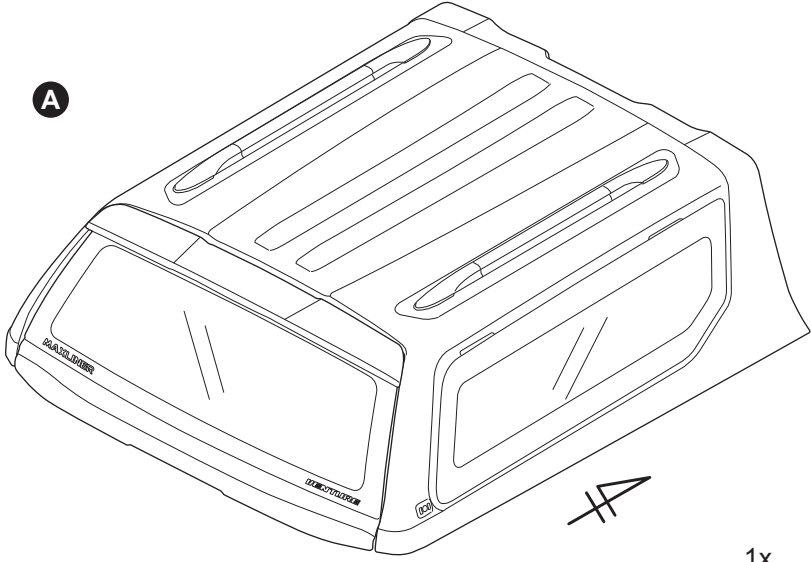
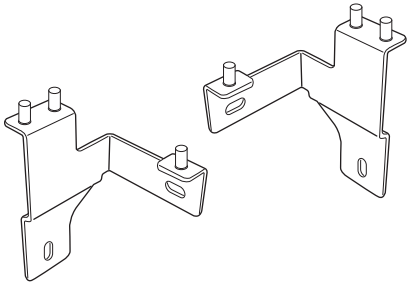
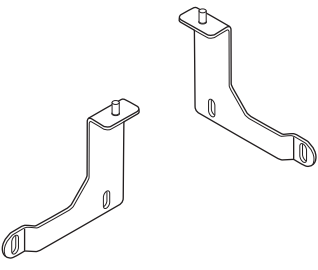




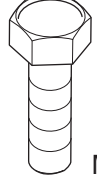
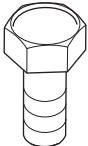











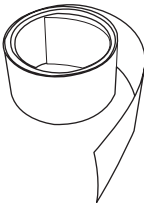
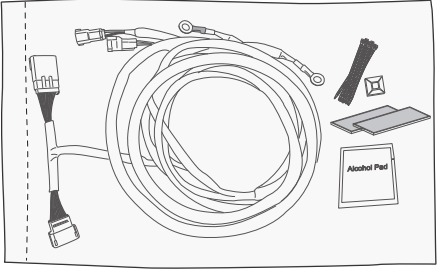
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☎ + 31 (0) 850 201 887
 ✉ infoEurope@vandapac.com
 🏠 Aphroditestraat 1, 5074TW Tilburg, Netherlands
 Chamber of Commerce : 71512799
 VAT identification number : NL858744272801

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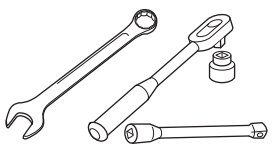
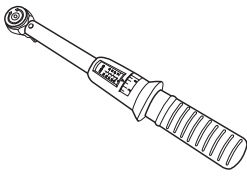
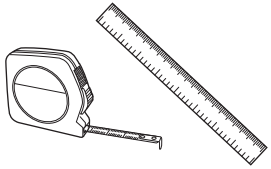

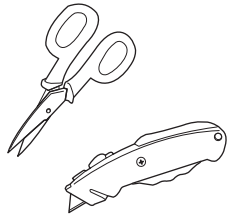

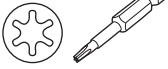
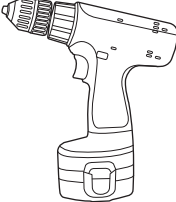
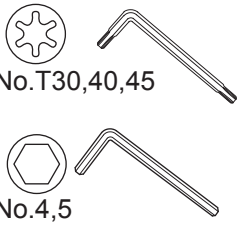
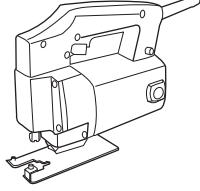
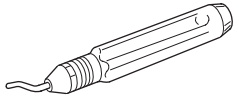
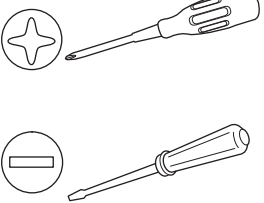
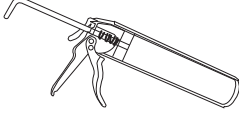
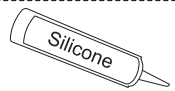
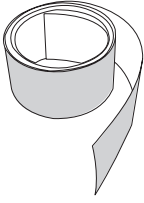

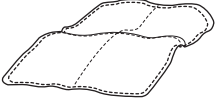
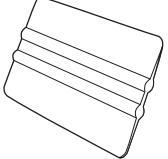

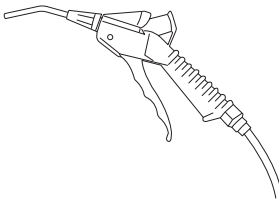
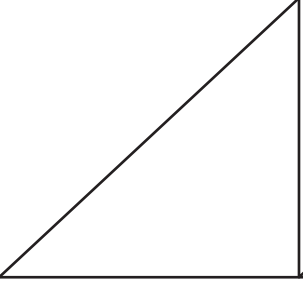
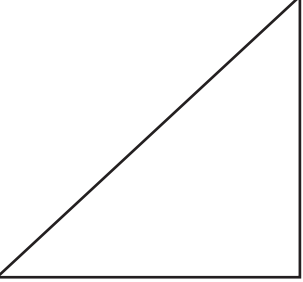
☎ + 61 1800 592 192
 ✉ sales@maxliner.com.au
 🏠 2 Dexter Drive Epping 3076 Australia

Component parts


<p>A</p>  <p>1x</p>	<p>B</p>  <p>LH / 1x RH / 1x</p>			
		<p>C</p>  <p>LH / 1x RH / 1x</p>		
<p>D</p>  <p>8x</p>	<p>E</p>  <p>7 mm 4x</p>	<p>F</p>  <p>12 mm 2x</p>	<p>G</p>  <p>2x</p>	<p>H</p>  <p>M8x35 4x</p>
<p>I</p>  <p>M8x25 10x</p>	<p>J</p>  <p>M6x35 2x</p>	<p>K</p>  <p>M8 14x</p>	<p>L</p>  <p>M6 2x</p>	<p>M</p>  <p>M8/16 2x</p>
<p>N</p>  <p>M8/18 10x</p>	<p>O</p>  <p>M8/25 16x</p>	<p>P</p>  <p>M6 4x</p>	<p>Q</p>  <p>M8 28x</p>	<p>R</p>  <p>M6 4x</p>
<p>S</p>  <p>M6 1x</p>	<p>T</p>  <p>AAA 4x</p>	<p>U</p>  <p>1x</p>	<p>V</p>  <p>1x</p>	

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Tools used

 <p>No.8,10,12,13,25</p>				
 <p>No.5,14,15,18,20</p>  <p>No.T20</p>		 <p>No.T30,40,45</p> <p>No.4,5</p>		
	  <p>Silicone (Non supply)</p>			
				

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Caution for installation

Read this mounting manual carefully, before your start the installation.

1. Area where to install product should be clean.
2. During installation, person who installed should take off any ornaments.
3. Wear the protective eyewear before installation.

Instruction procedure

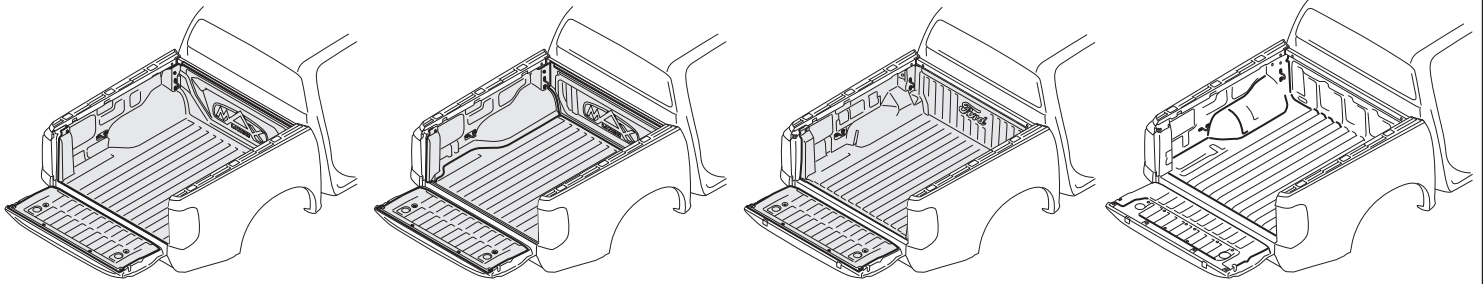
1

With bedliner DC under rail type

With KD liner DC under rail type

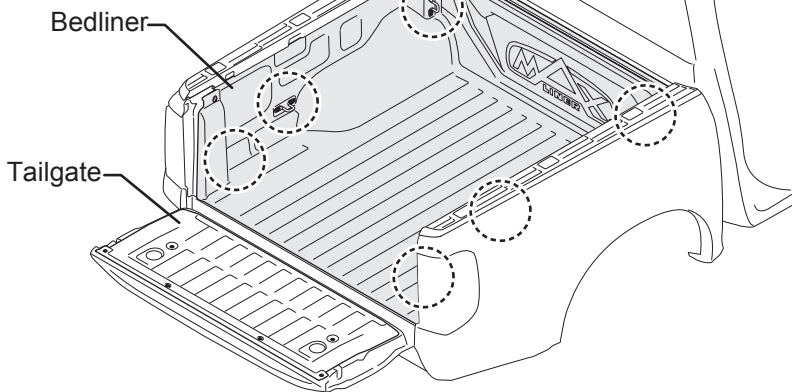
With bedliner TD type

Without bedliner

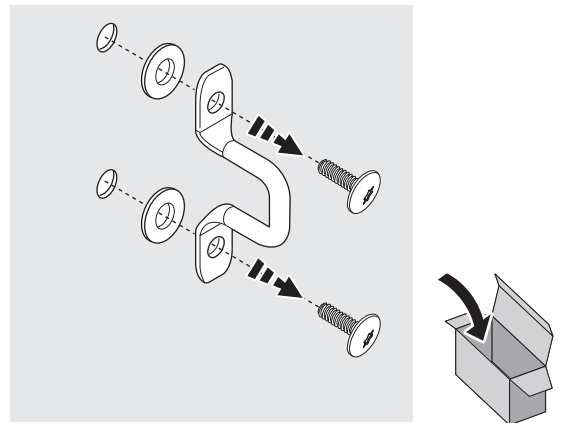


※ With bedliner DC under rail type (1.1 - 1.14)

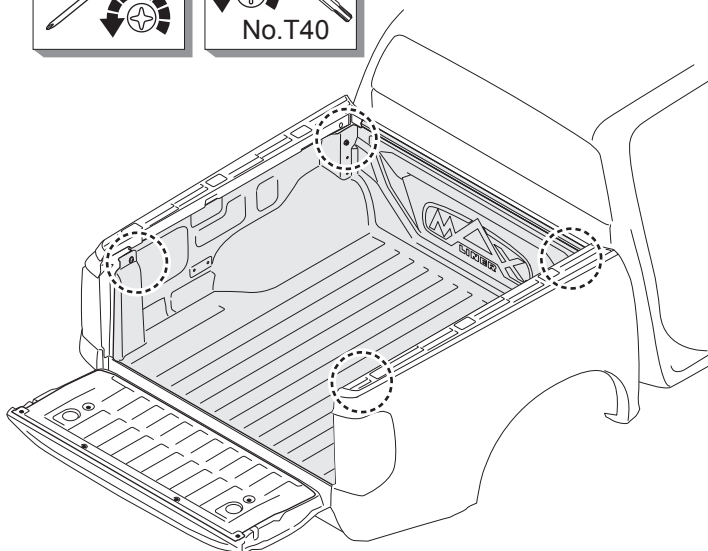
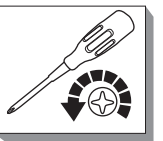
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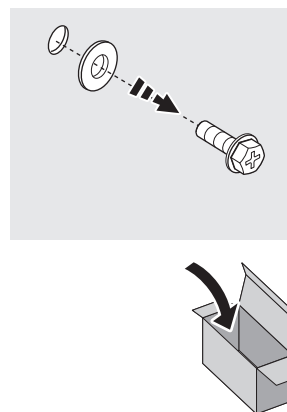
LH/RH (6x)



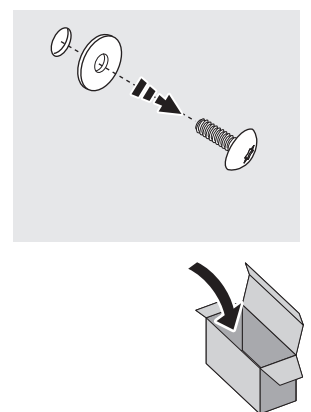
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LH/RH (2x)



LH/RH (2x)

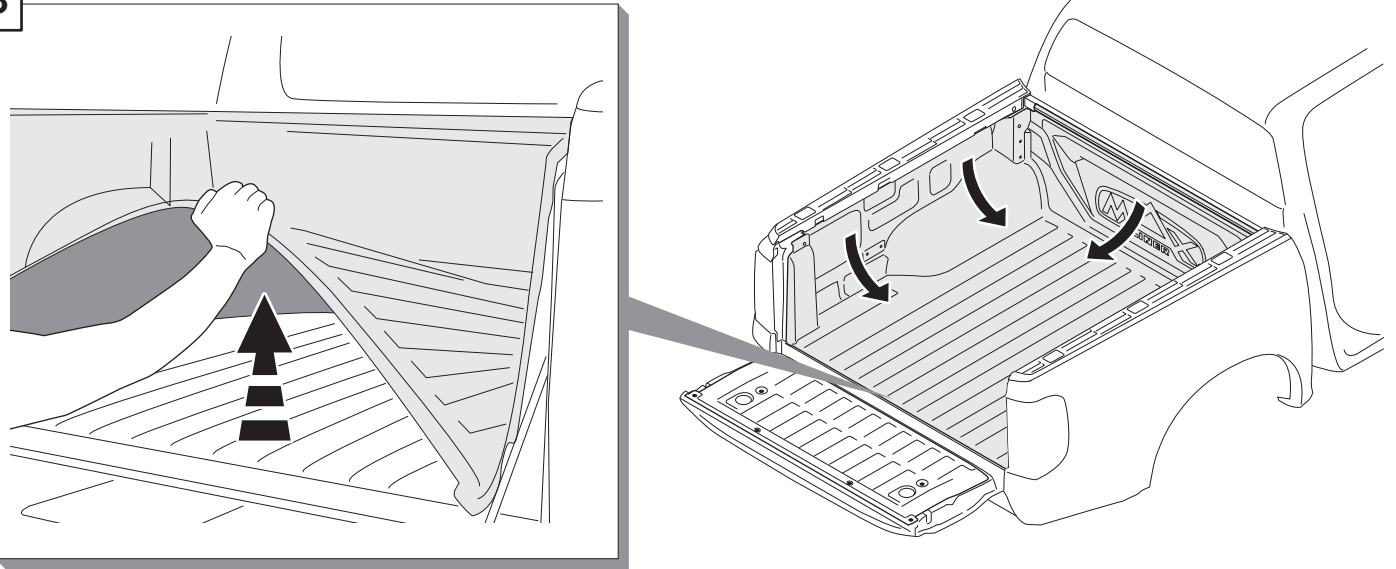


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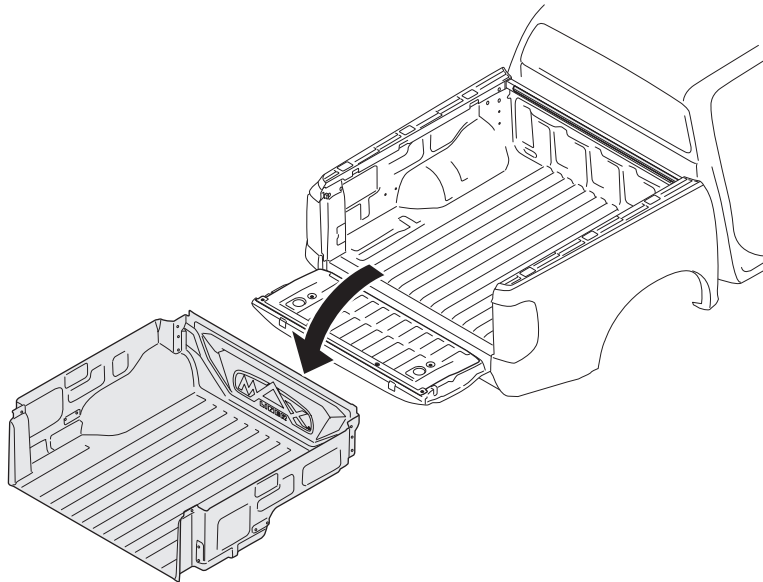
Instruction procedure

※ With bedliner DC under rail type (1.1 - 1.14)

1.3

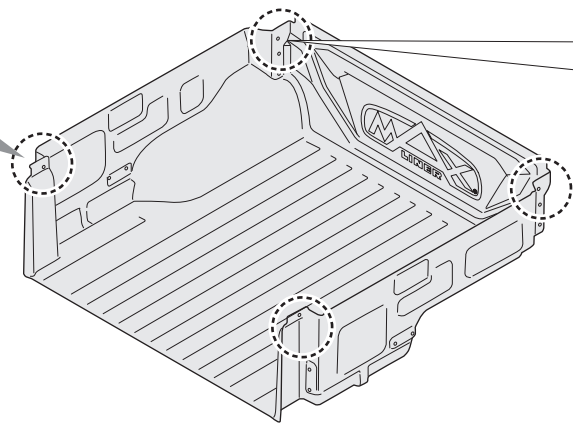


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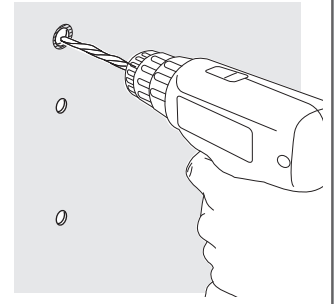


1.5

LH/RH (2x)



LH/RH (2x)

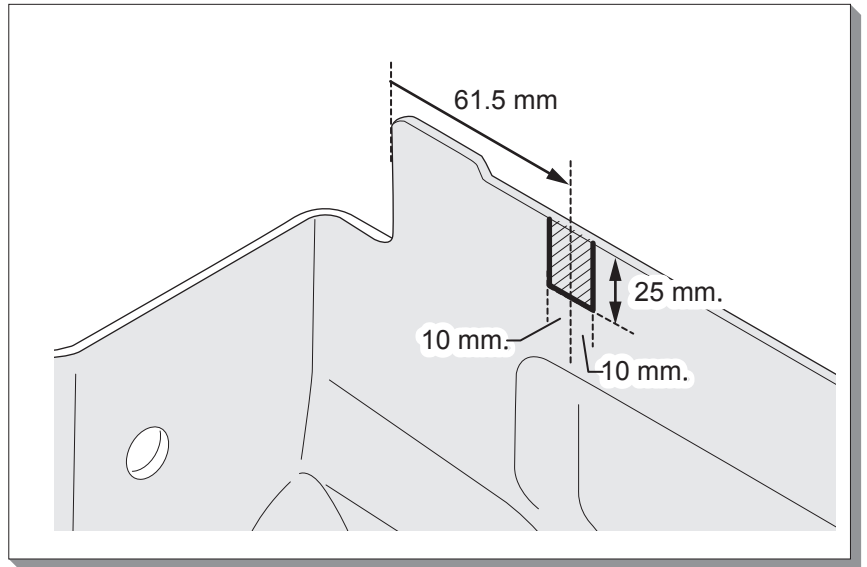
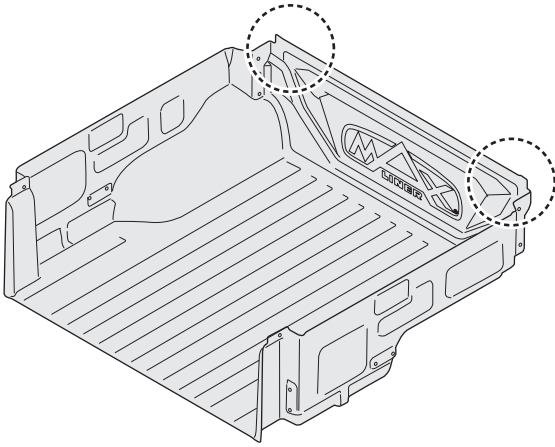
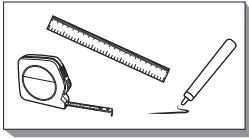


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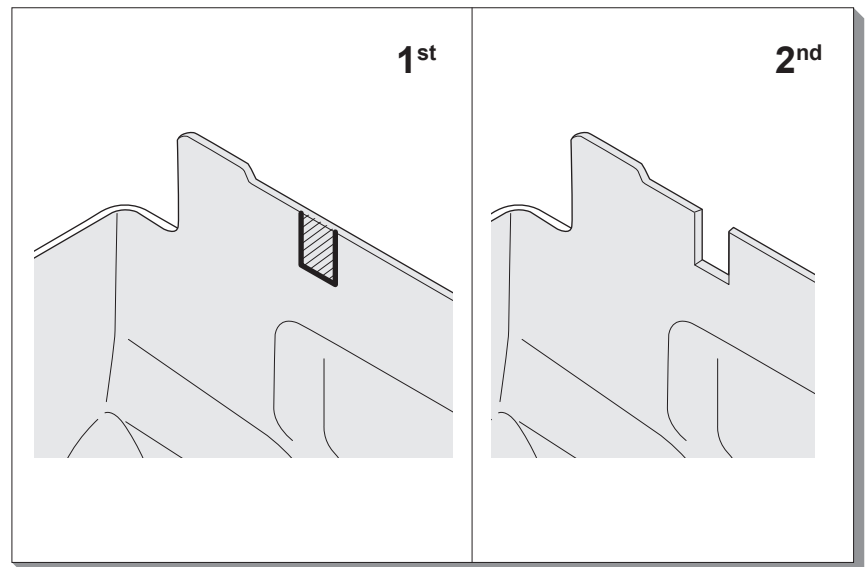
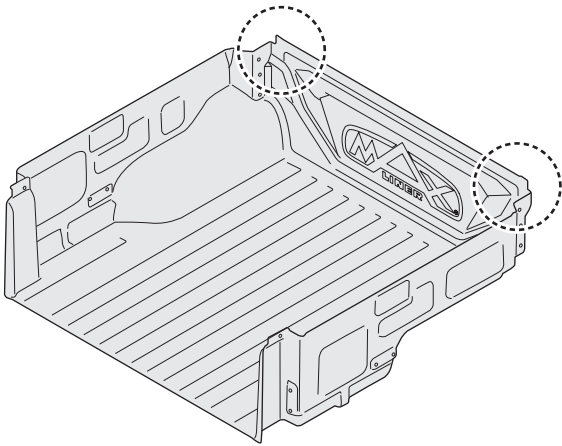
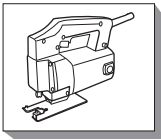
Instruction procedure

※ With bedliner DC under rail type (1.1 - 1.14)

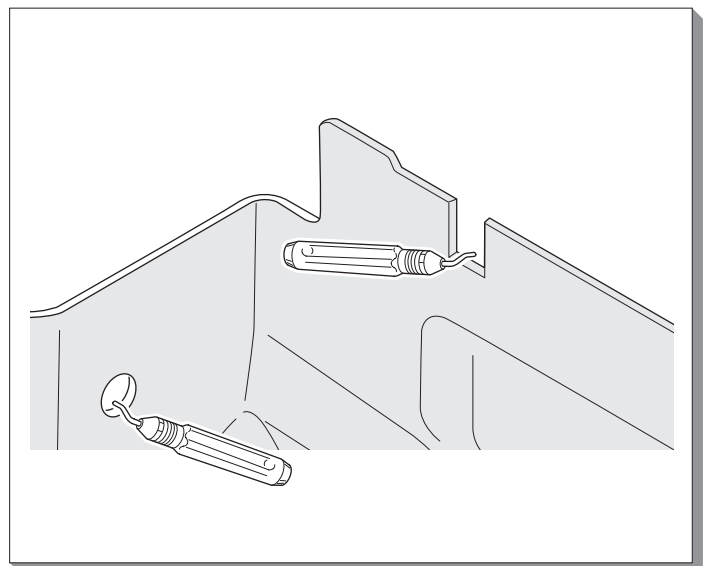
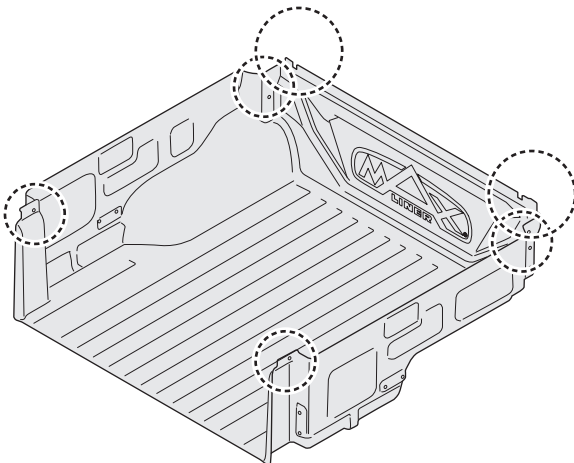
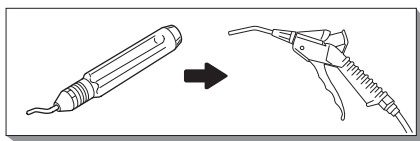
1.6 LH/RH



1.7 LH/RH



1.8 LH/RH

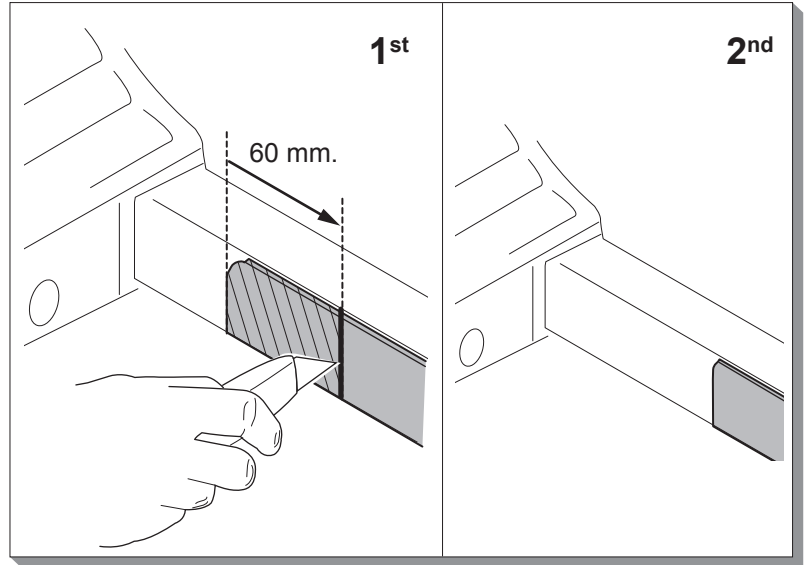
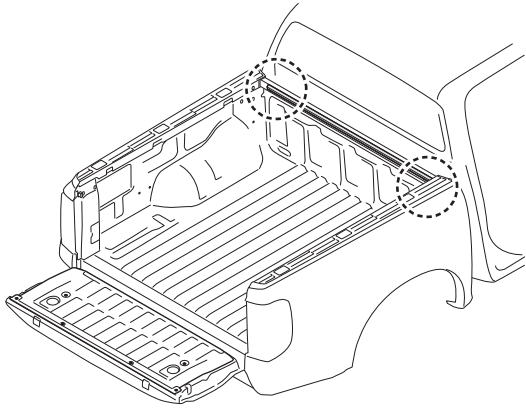
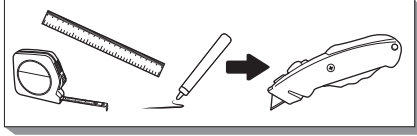


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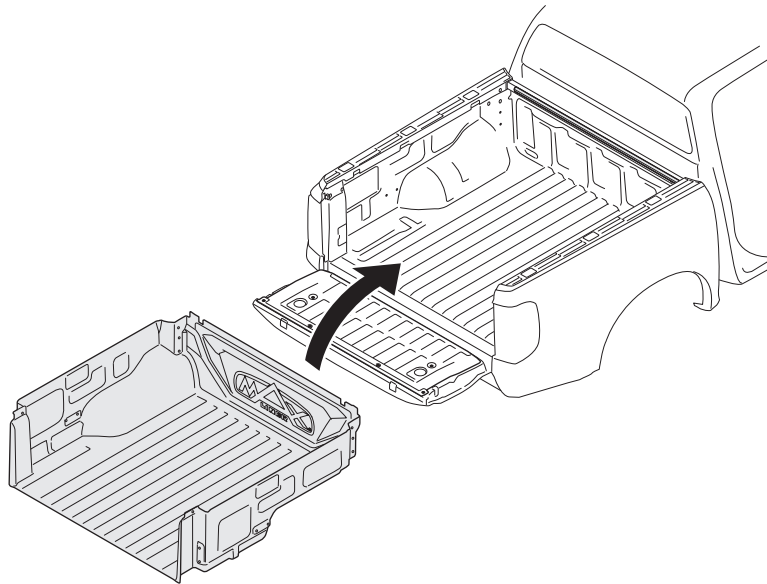
Instruction procedure

※ With bedliner DC under rail type (1.1 - 1.14)

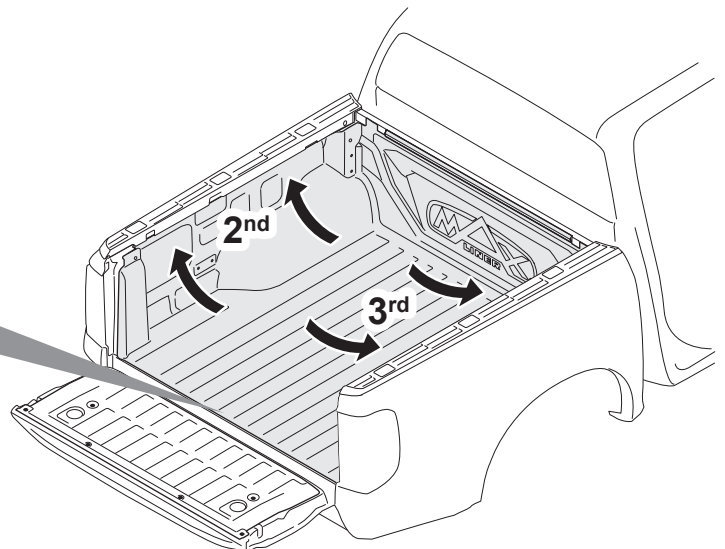
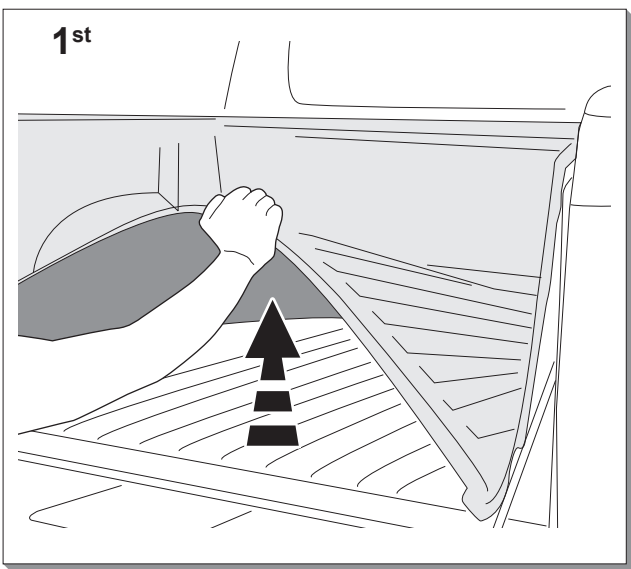
1.9 LH/RH



1.10



1.11

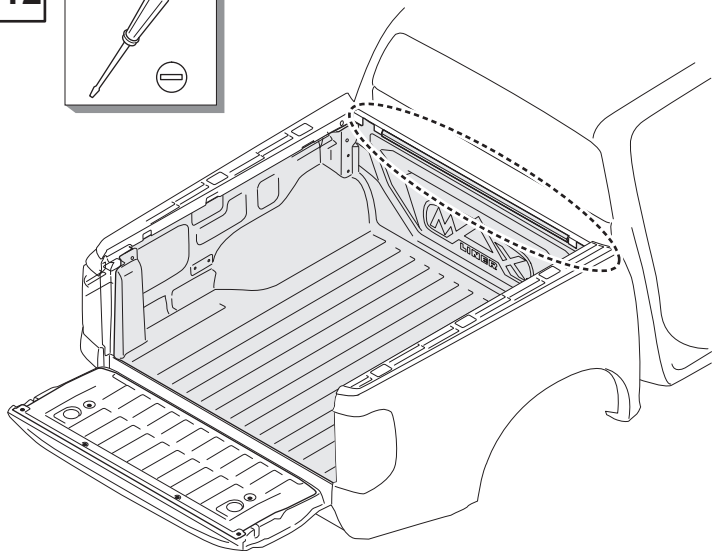
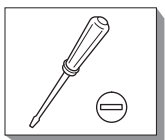


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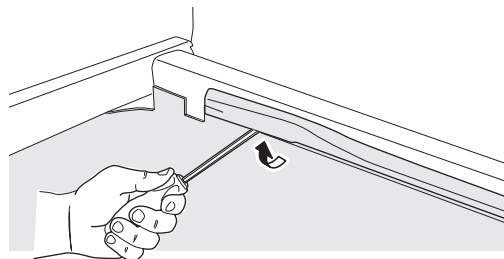
Instruction procedure

※ With bedliner DC under rail type (1.1 - 1.14)

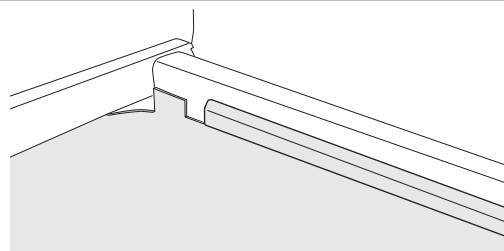
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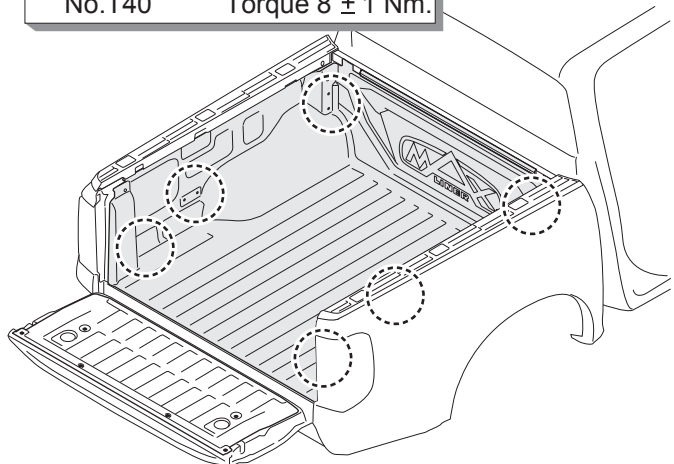
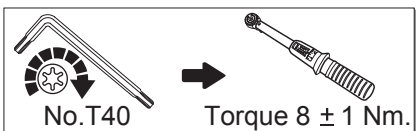
1st



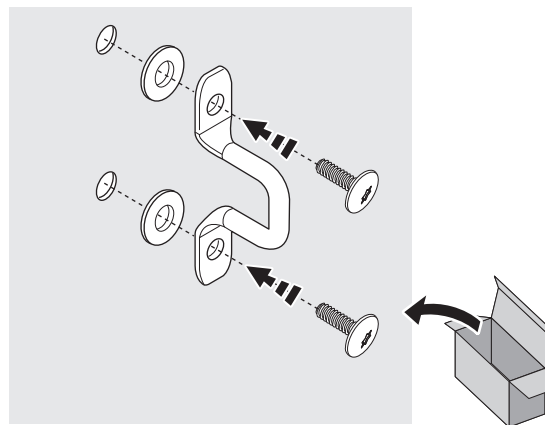
2nd



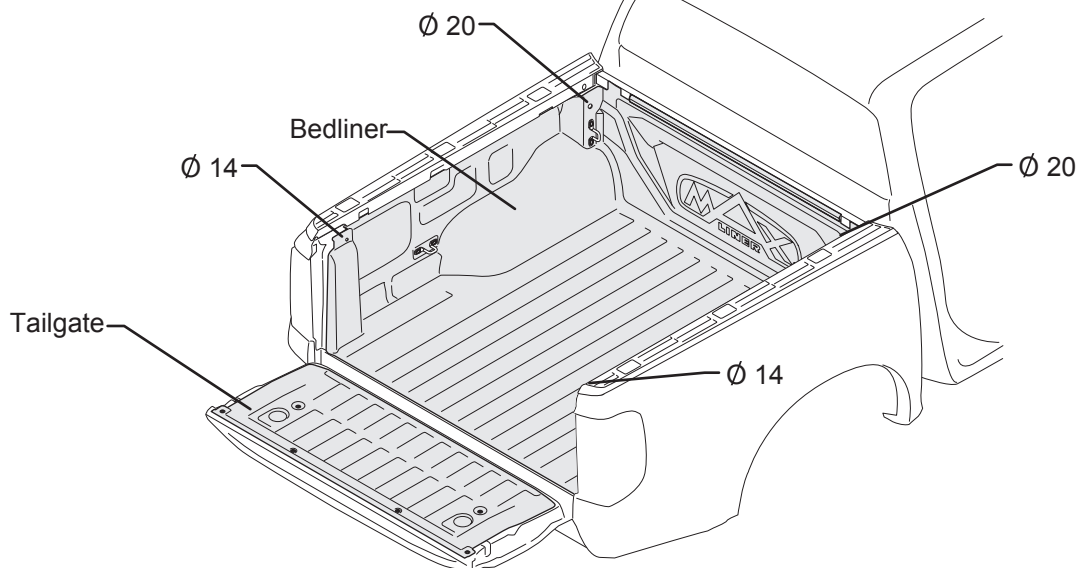
1.13



LH/RH (6x)



1.14



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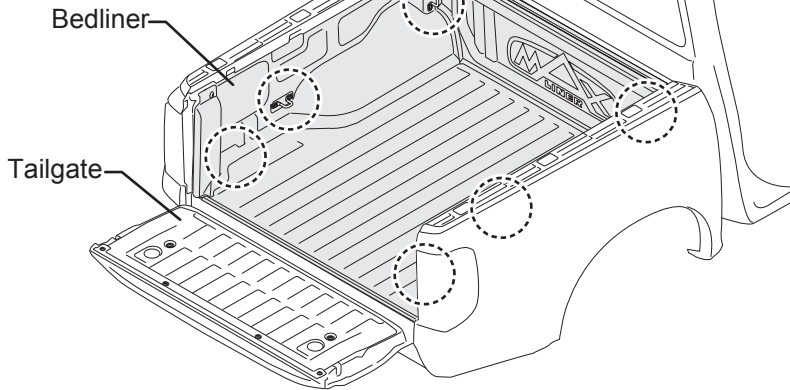
Instruction procedure

※ With KD liner DC under rail type (1.1 - 1.13)

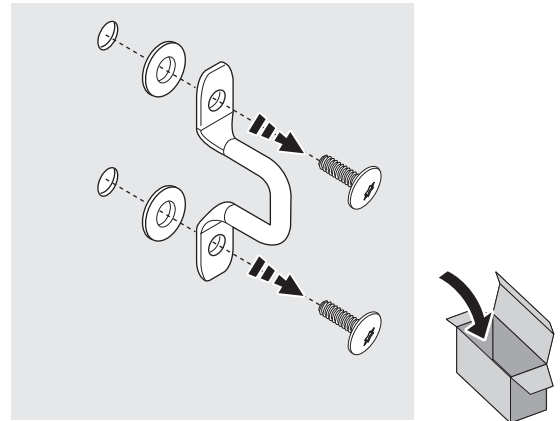
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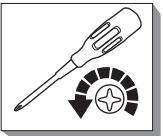
No.T40



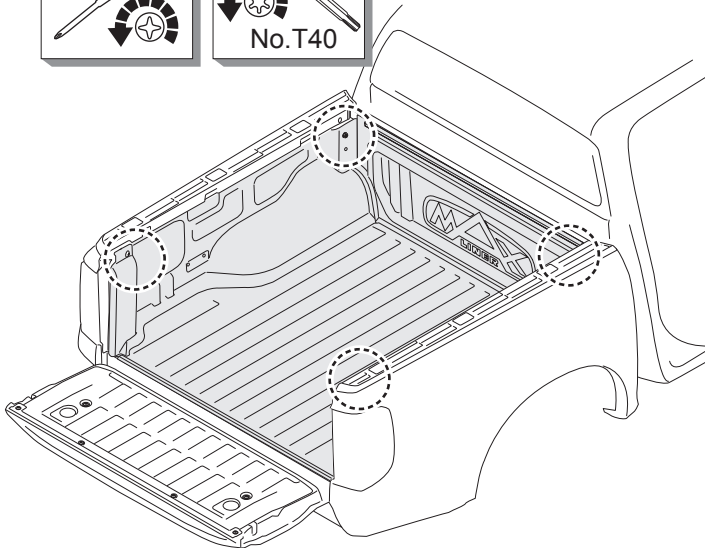
LH/RH (6x)



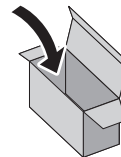
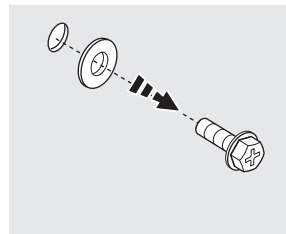
1.2



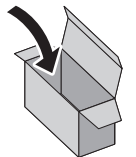
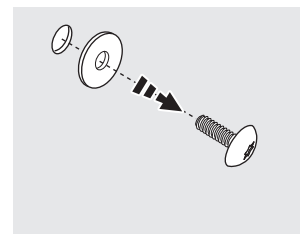
No.T40



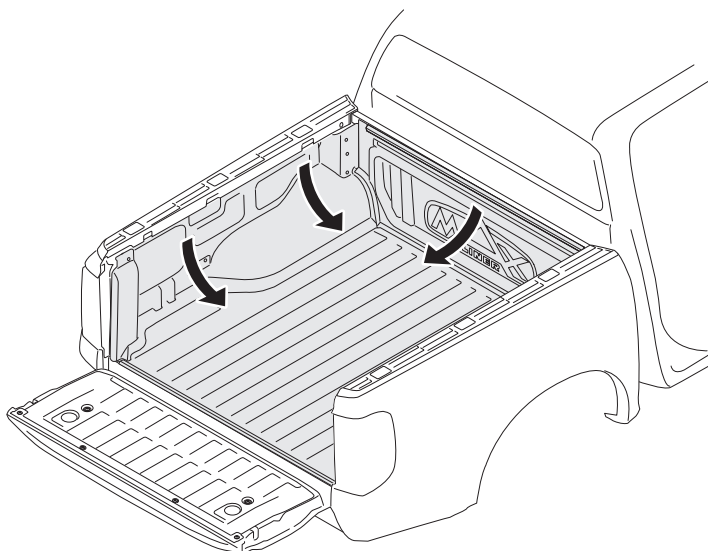
LH/RH (2x)



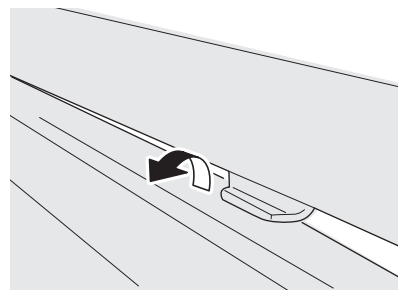
LH/RH (2x)



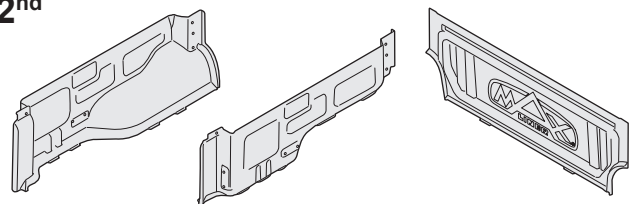
1.3



1st



2nd

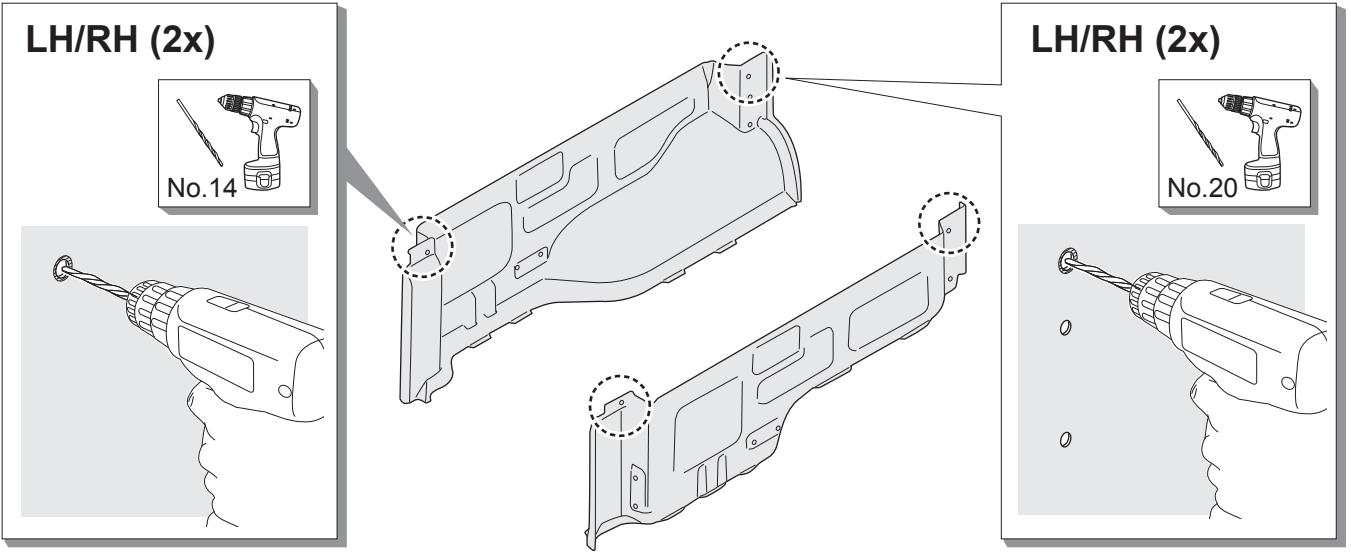


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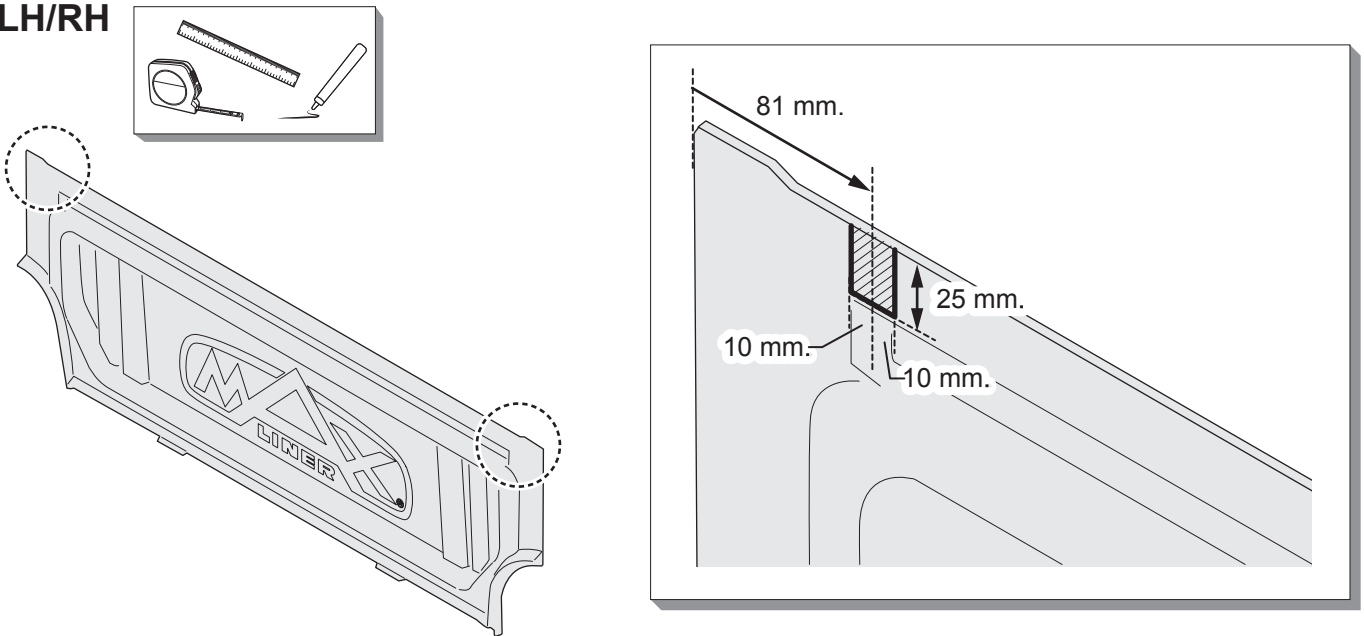
Instruction procedure

※ With KD liner DC under rail type (1.1 - 1.13)

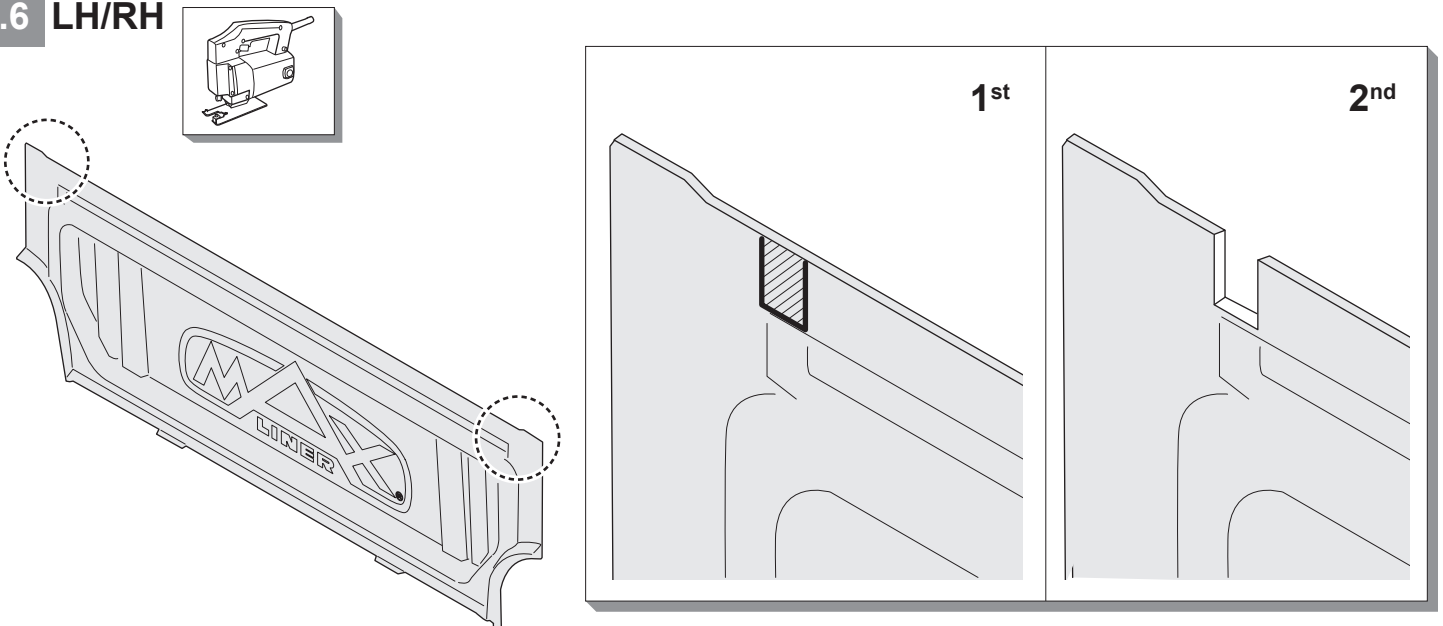
1.4



1.5 LH/RH



1.6 LH/RH

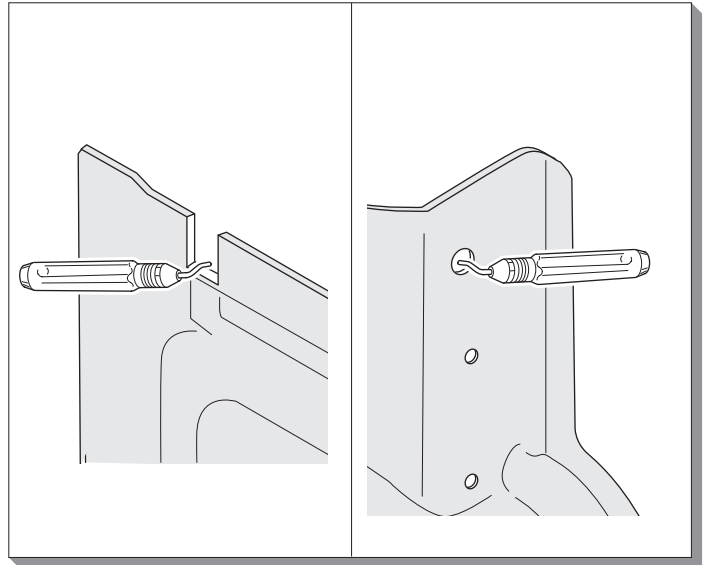
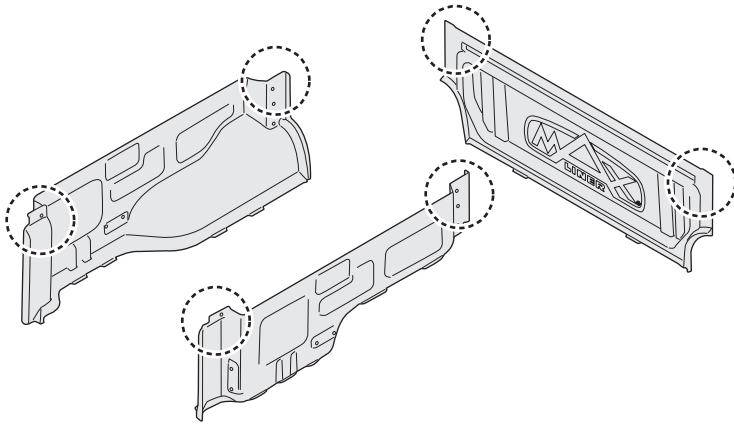
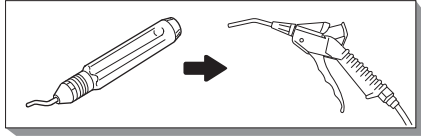


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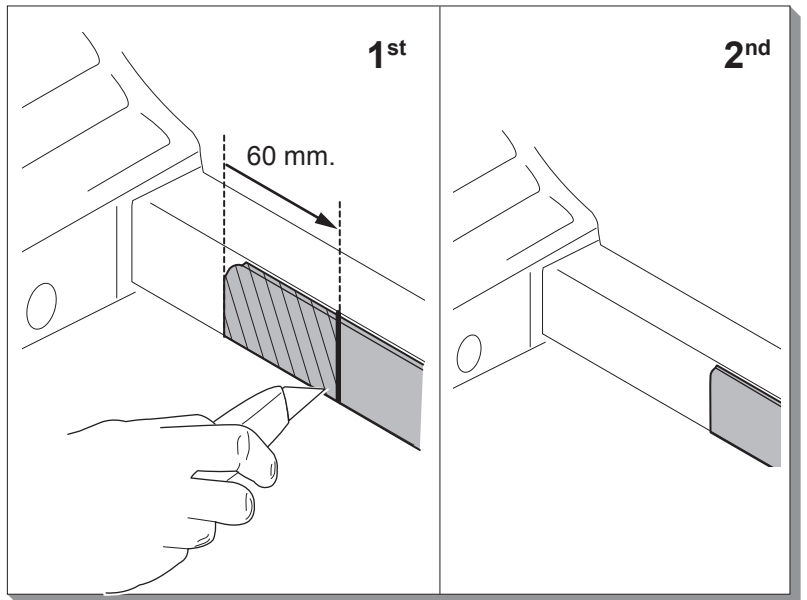
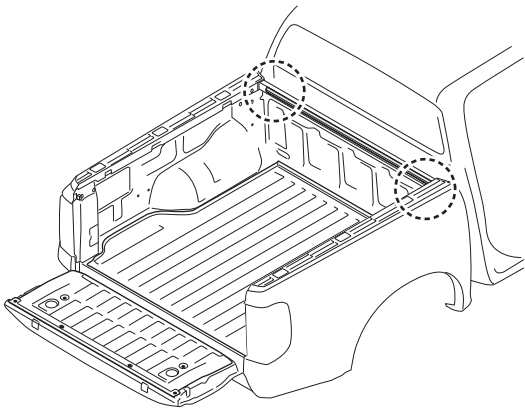
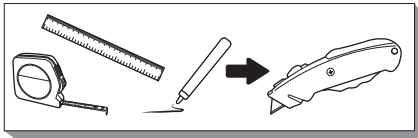
Instruction procedure

※ With KD liner DC under rail type (1.1 - 1.13)

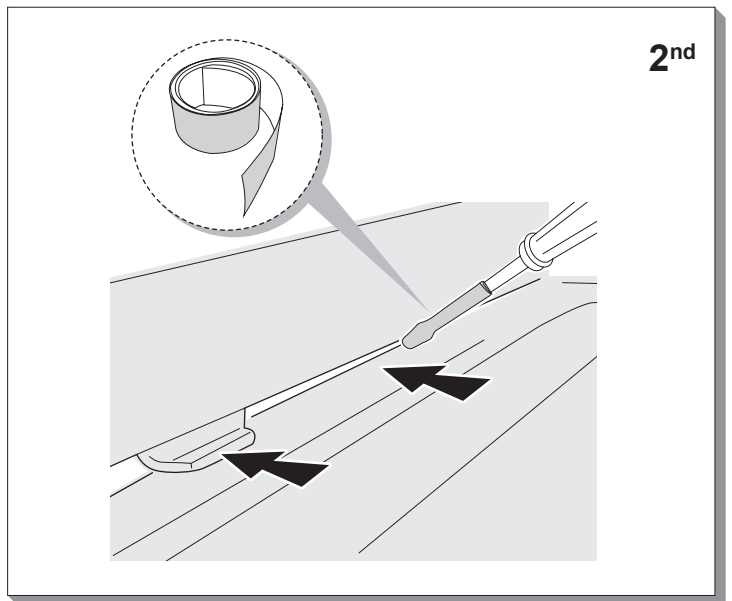
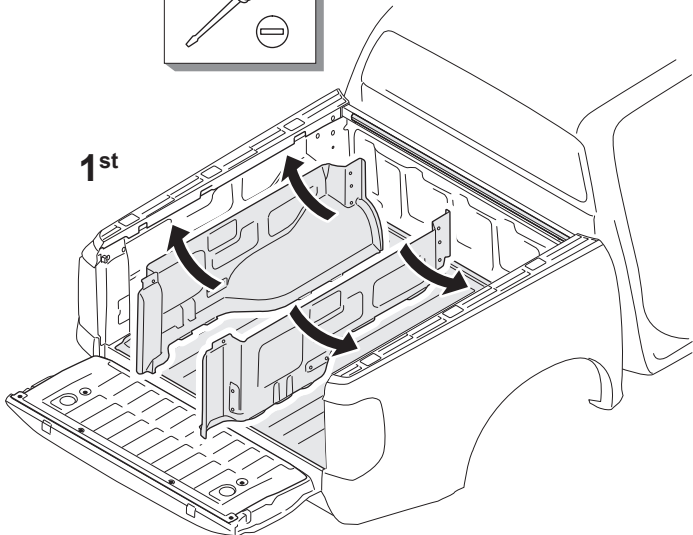
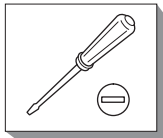
1.7 LH/RH



1.8 LH/RH



1.9 LH/RH

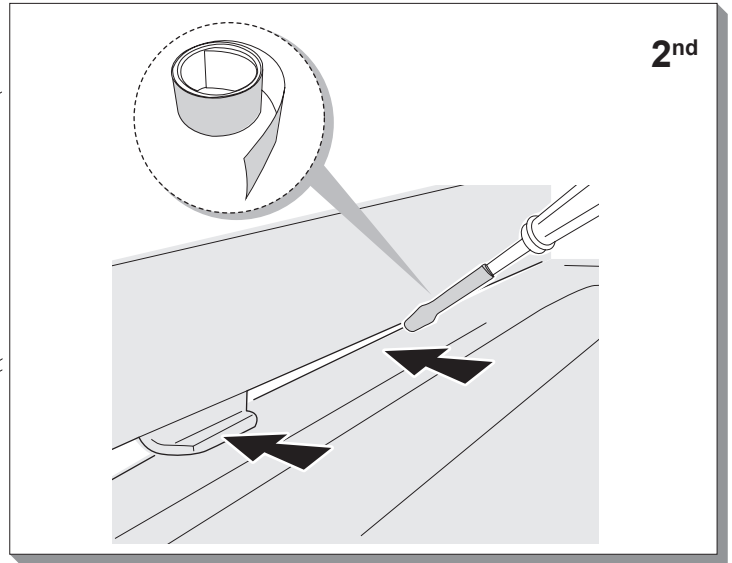
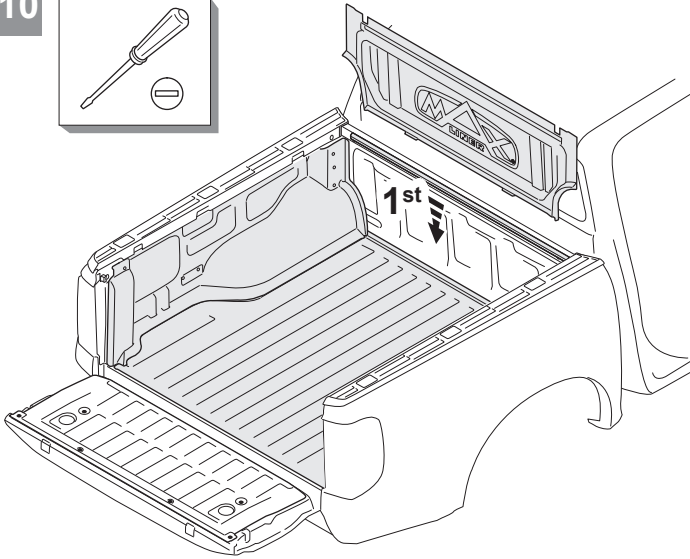
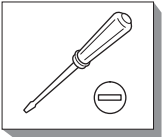


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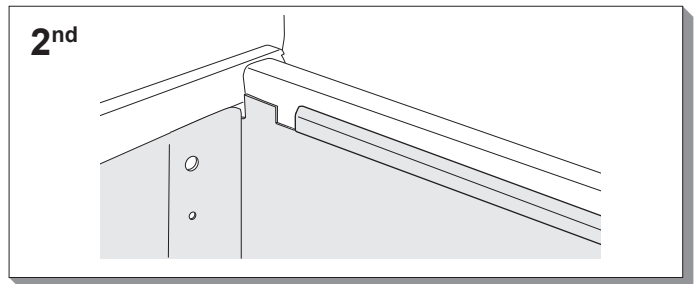
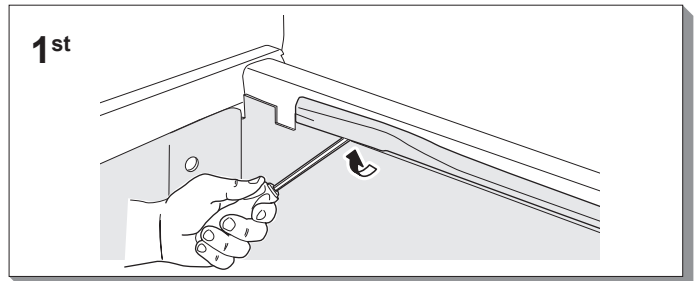
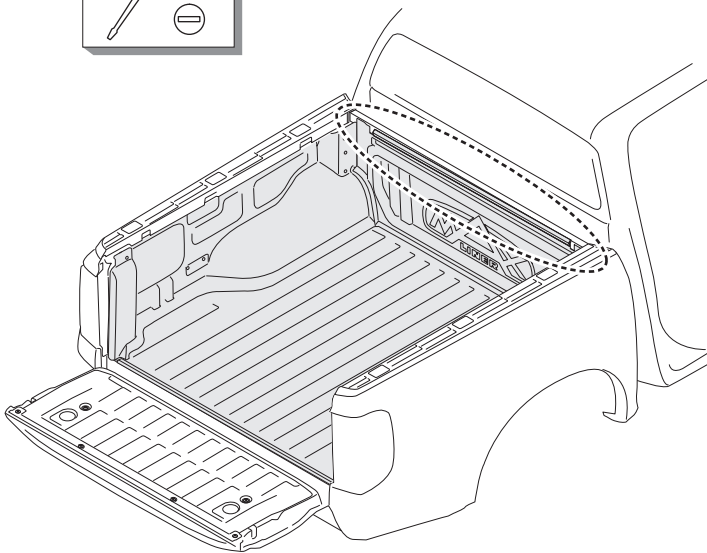
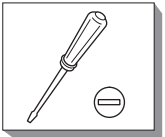
Instruction procedure

※ With KD liner DC under rail type (1.1 - 1.13)

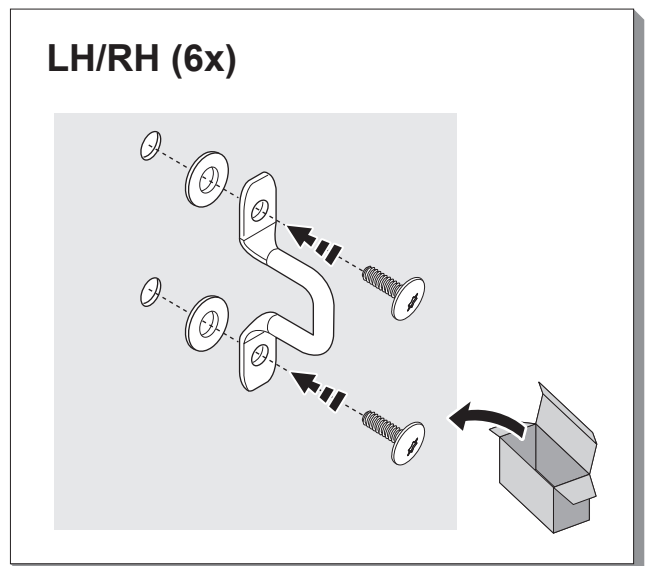
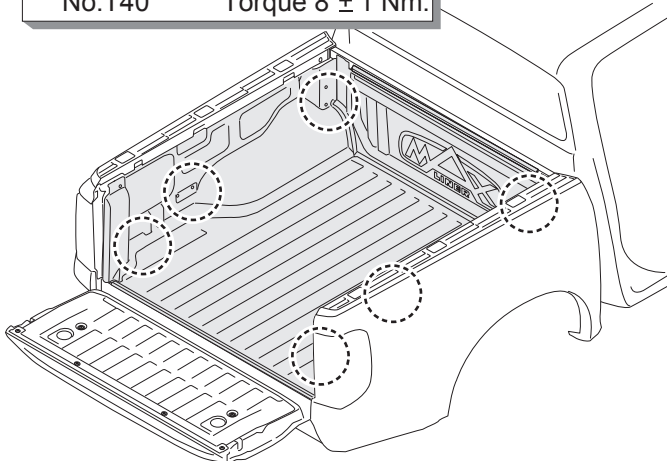
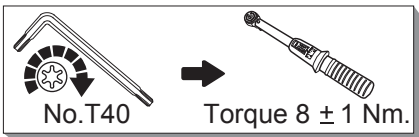
1.10



1.11



1.12 LH/RH

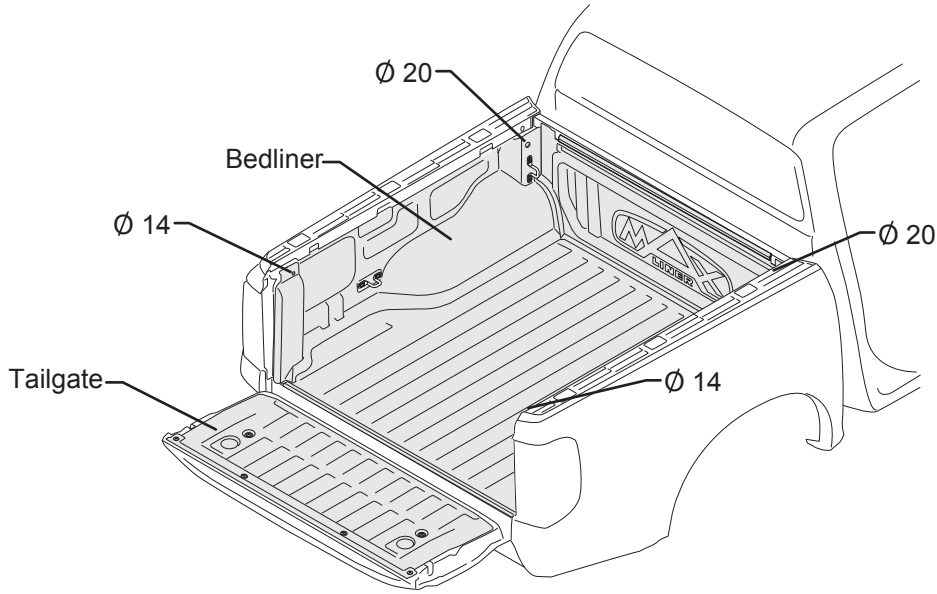


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Instruction procedure

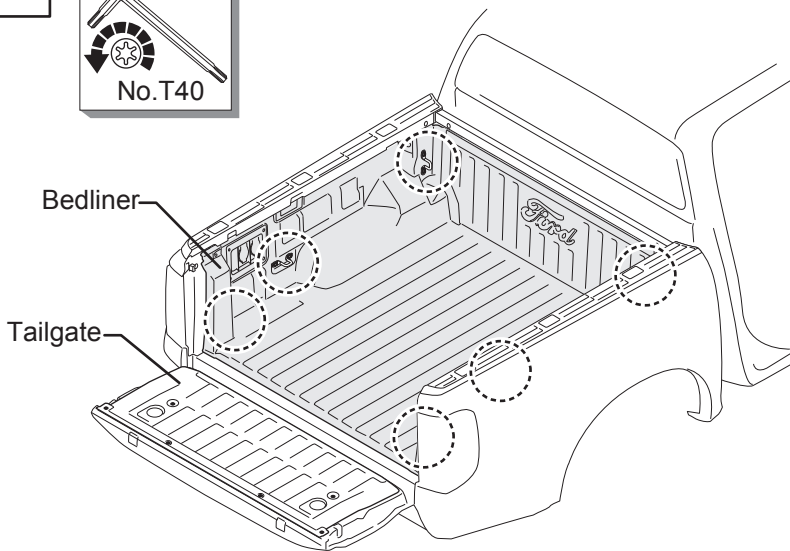
※ With KD liner DC under rail type (1.1 - 1.13)

1.13

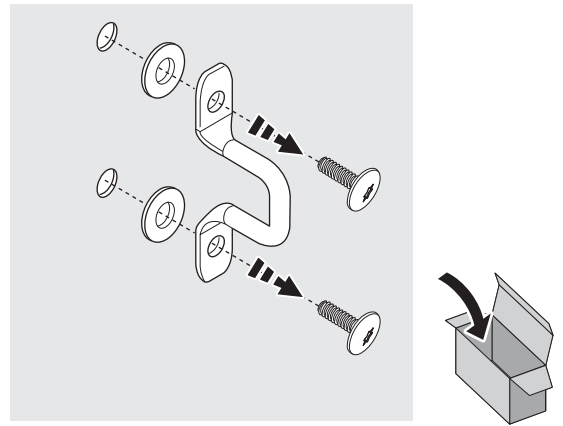


※ With bedliner TD type (1.1 - 1.15)

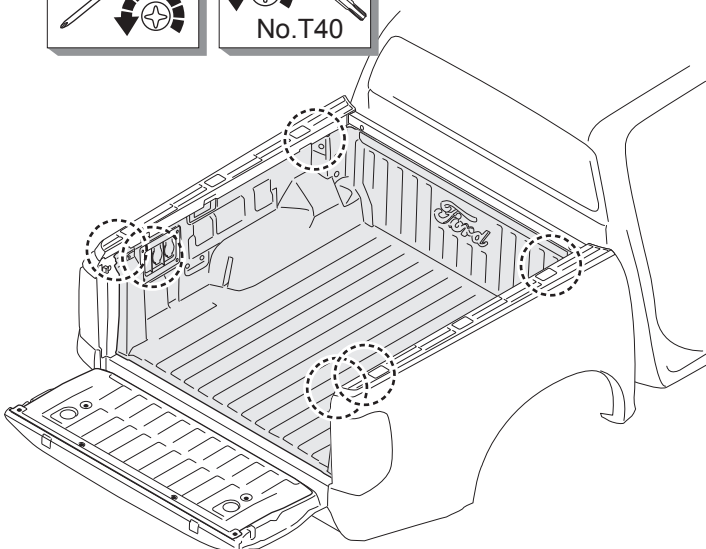
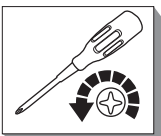
1.1



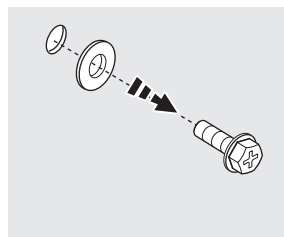
LH/RH (6x)



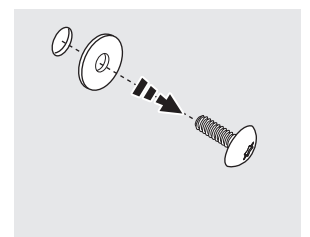
1.2



LH/RH (2x)



LH/RH (4x)

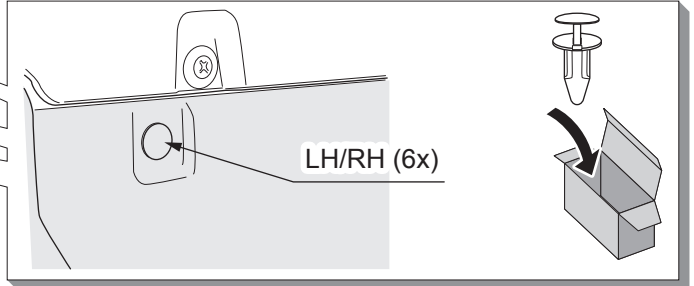
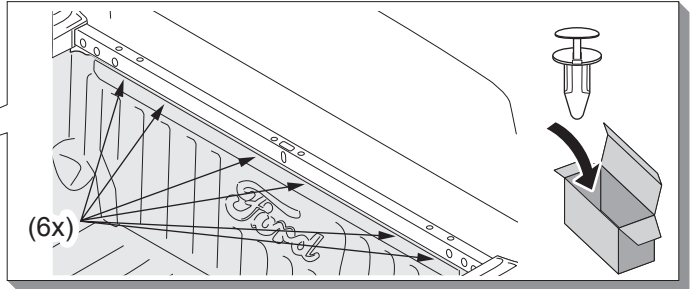
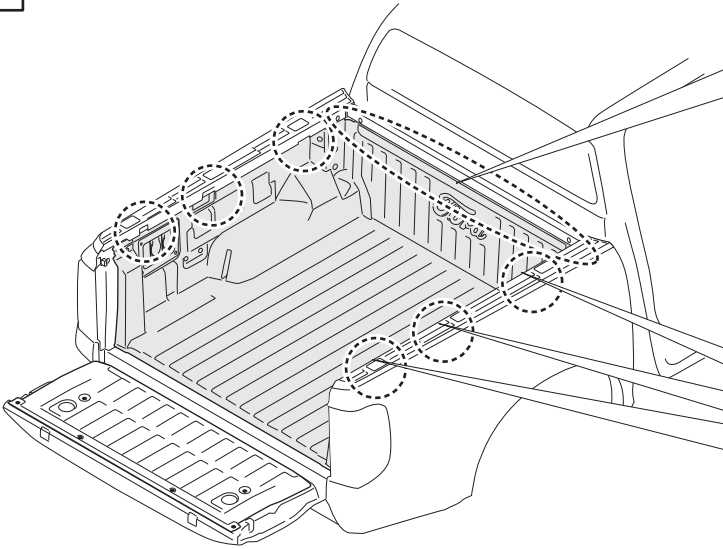


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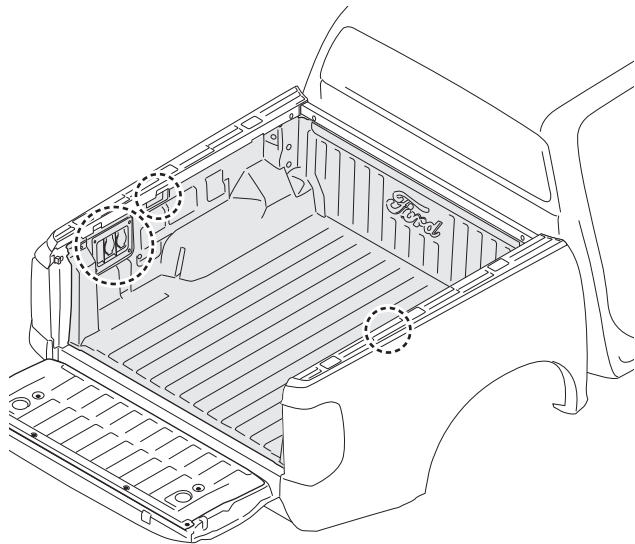
Instruction procedure

※ **With bedliner TD type (1.1 - 1.15)**

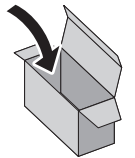
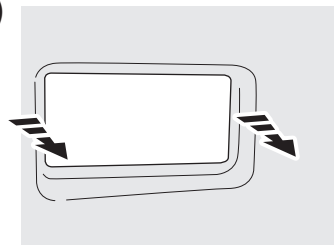
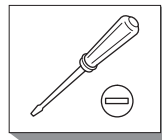
1.3



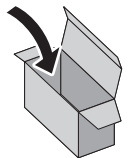
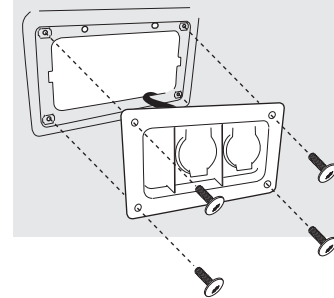
1.4



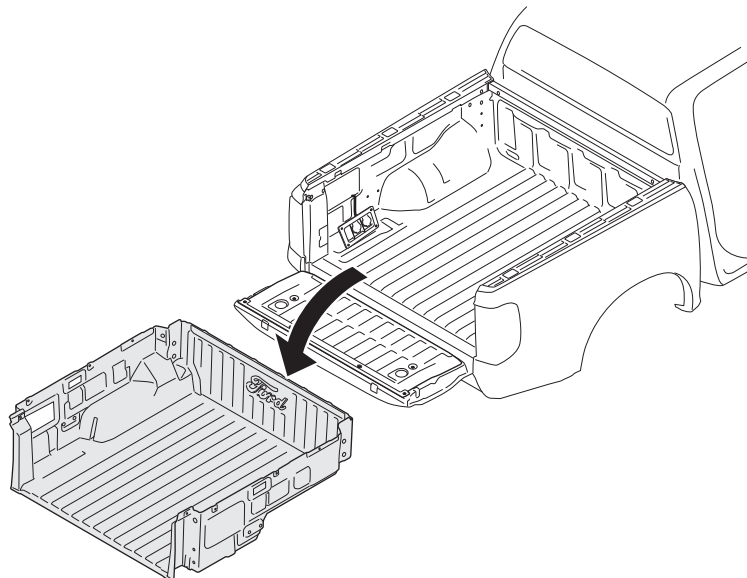
LH/RH (2x)



LH (4x)



1.5

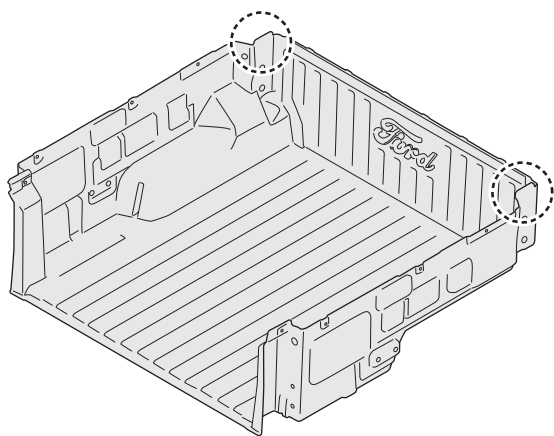
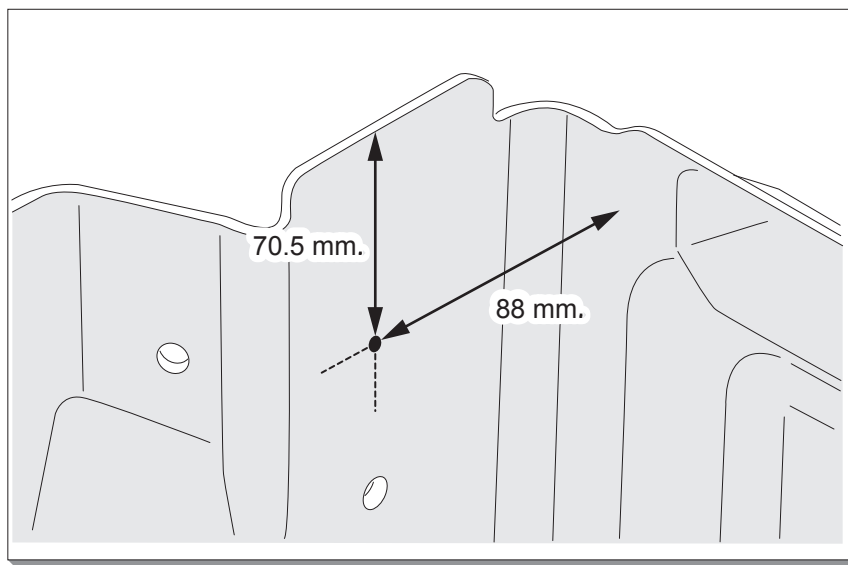
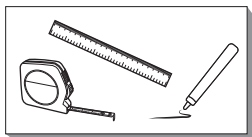


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Instruction procedure

※ **With bedliner TD type (1.1 - 1.15)**

1.6 LH/RH



1.7

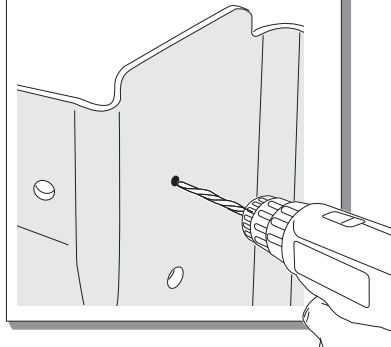
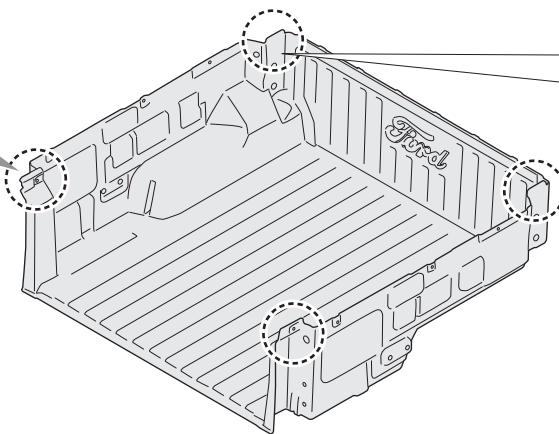
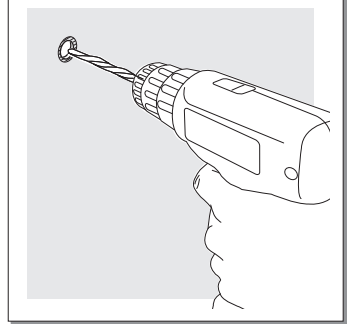
LH/RH (2x)



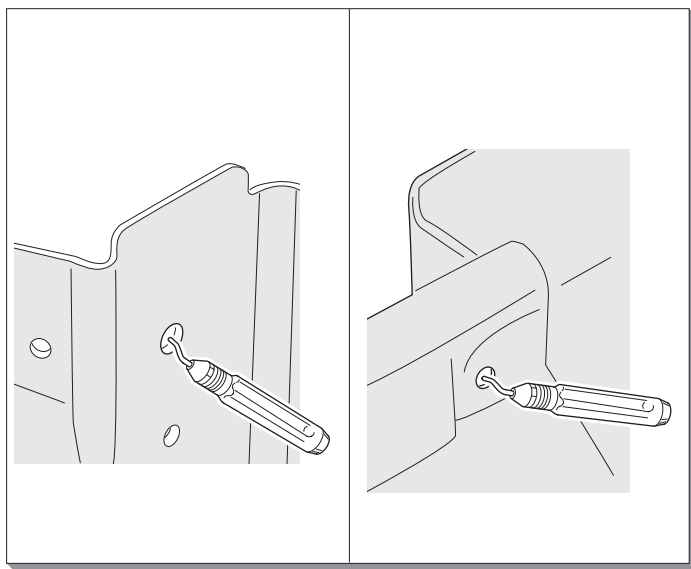
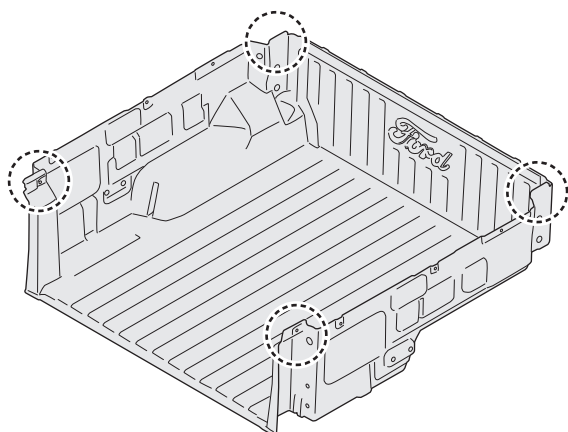
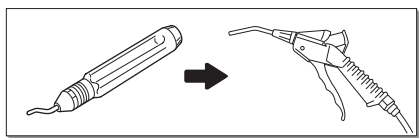
LH/RH (2x)

1st: \varnothing 5

2nd: \varnothing 20



1.8 LH/RH

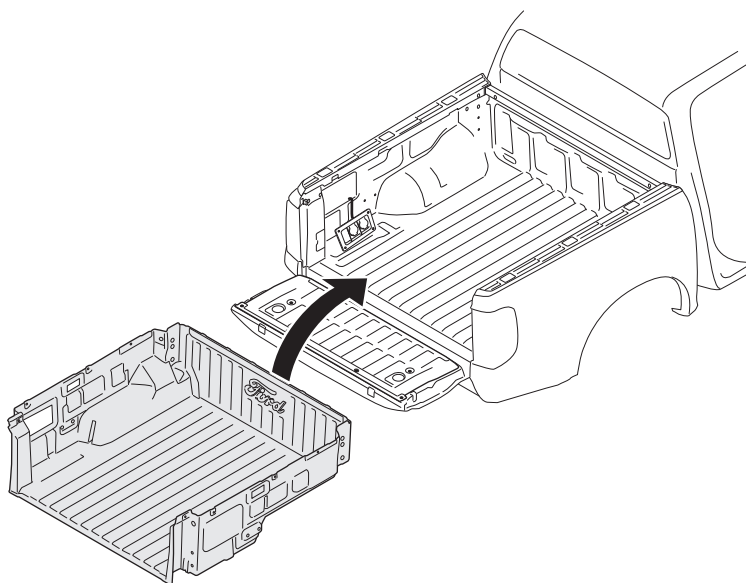


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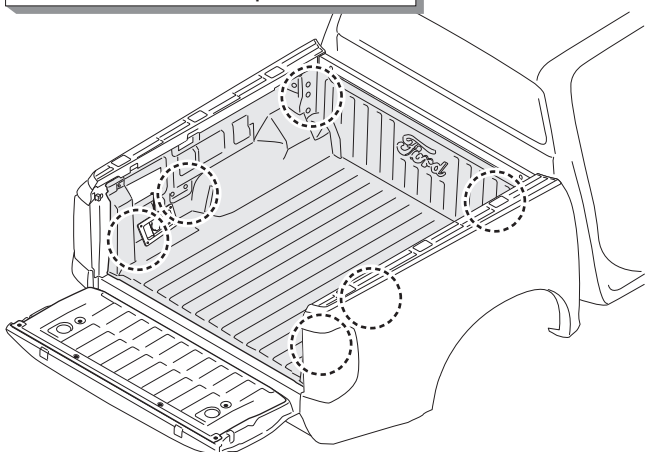
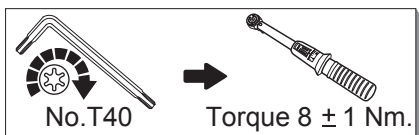
Instruction procedure

※ With bedliner TD type (1.1 - 1.15)

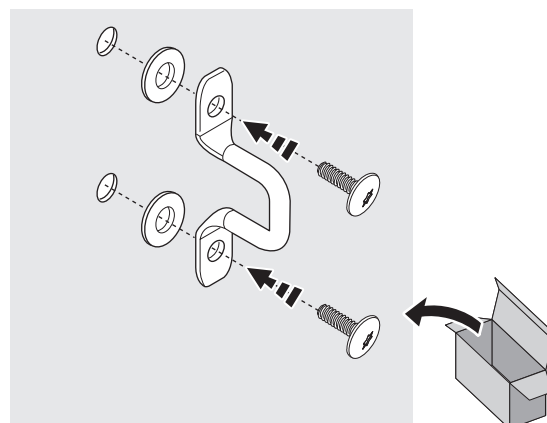
1.9



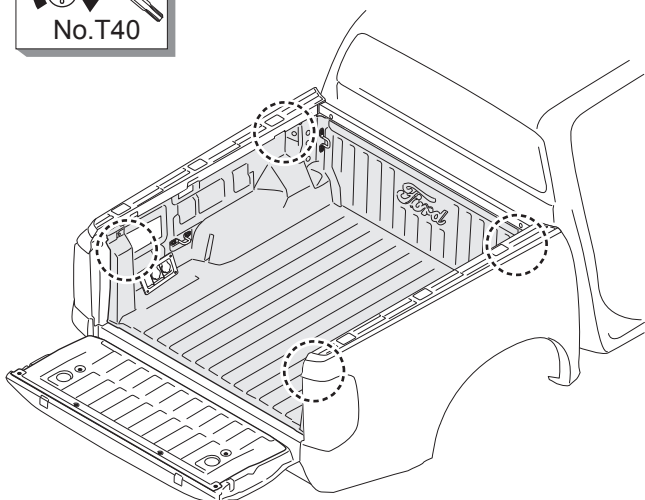
1.10 LH/RH



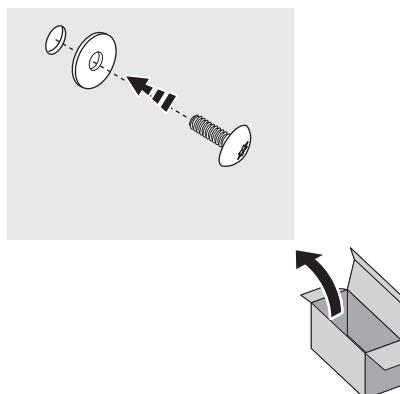
LH/RH (6x)



1.11



LH/RH (4x)

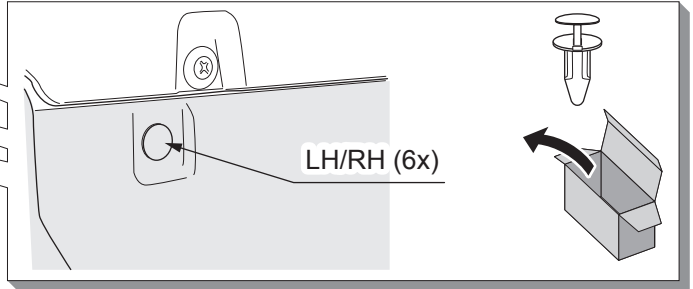
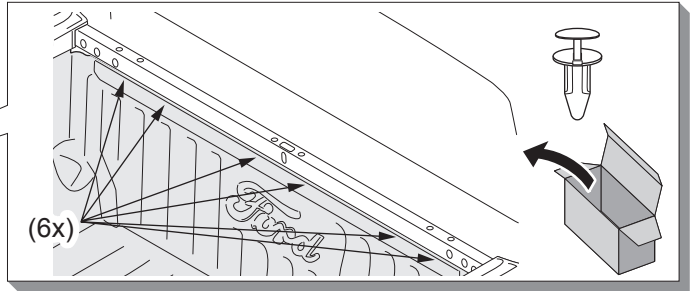
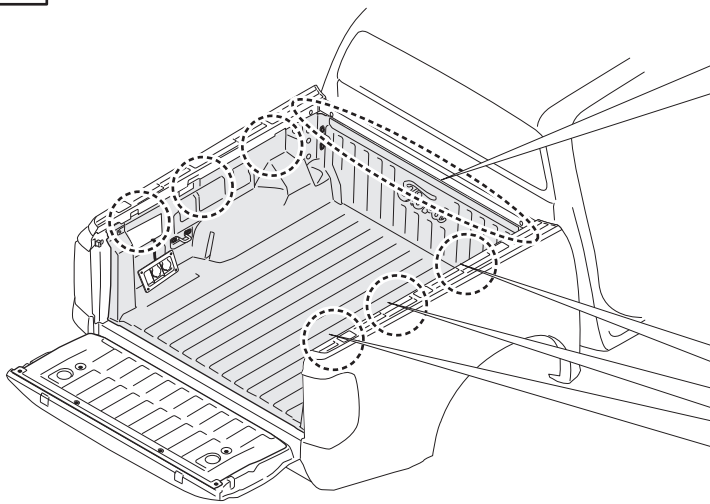


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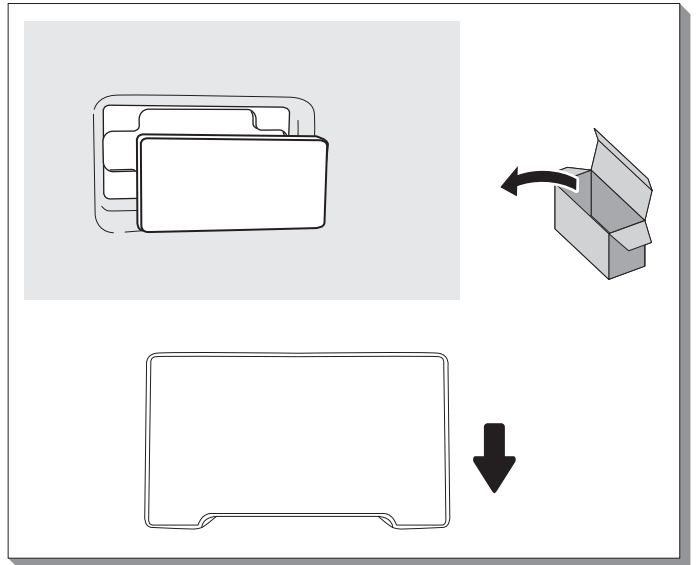
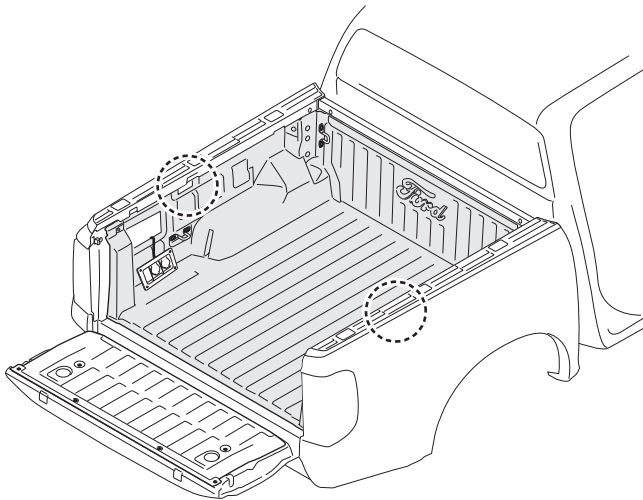
Instruction procedure

※ With bedliner TD type (1.1 - 1.15)

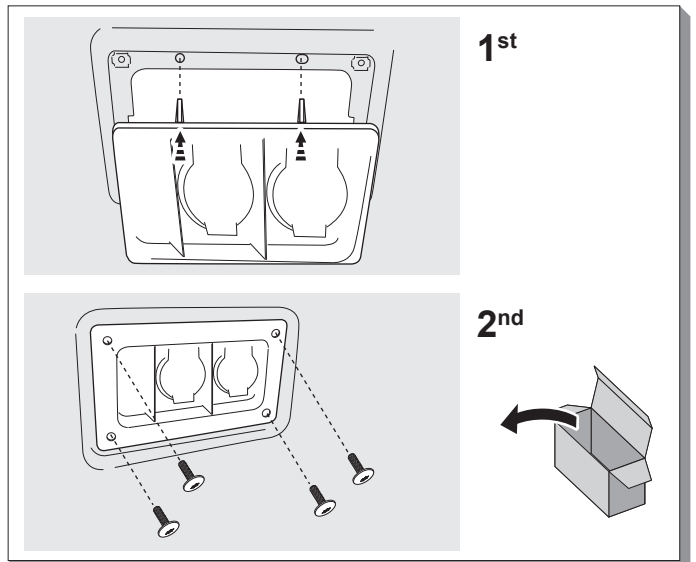
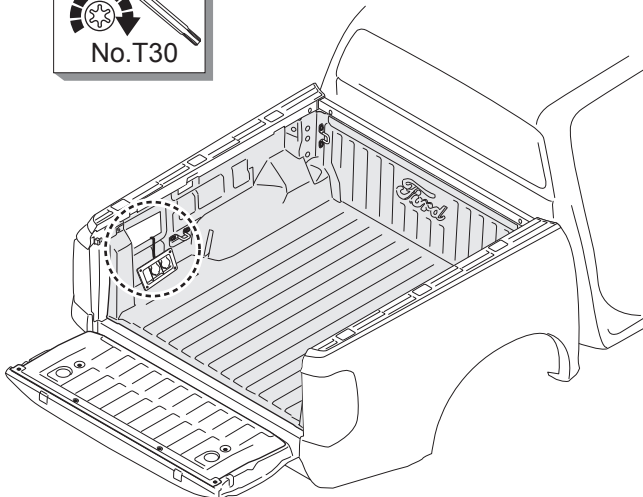
1.12



1.13 LH/RH



1.14

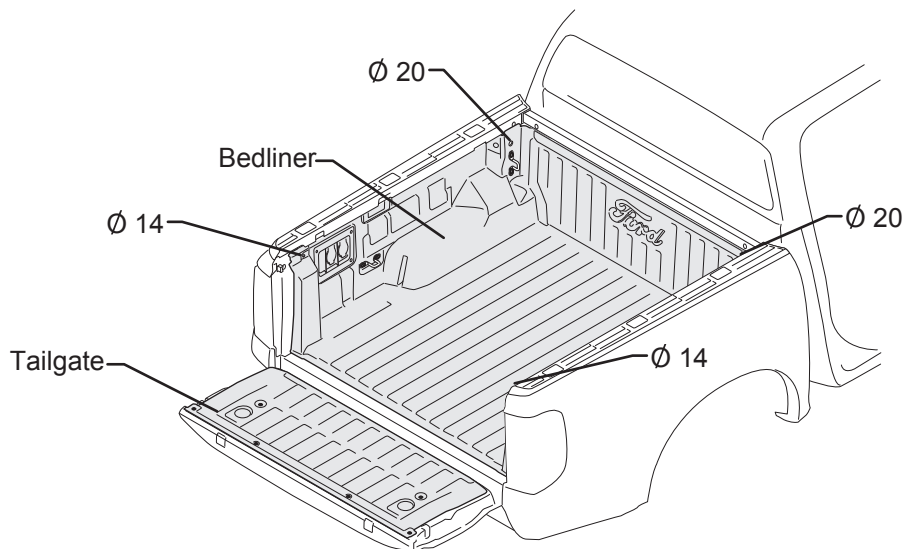


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Instruction procedure

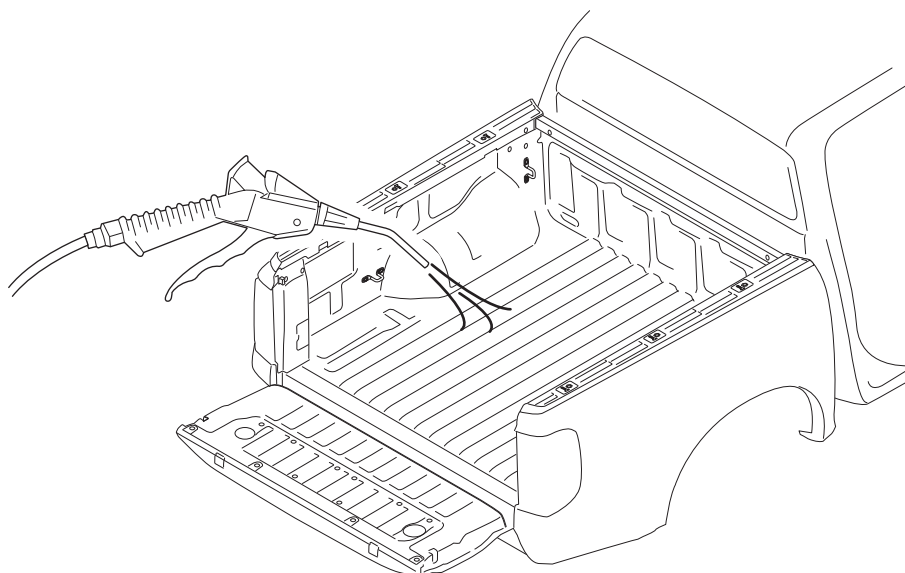
※ With bedliner TD type (1.1 - 1.15)

1.15



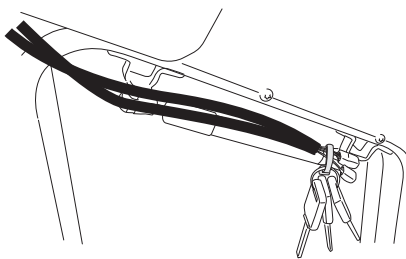
※ Without bedliner (1.1)

1.1

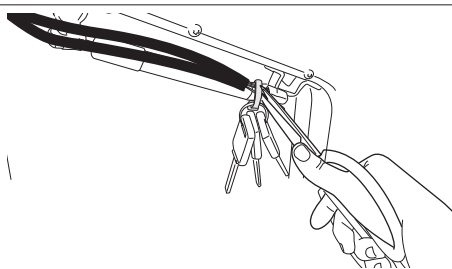


2

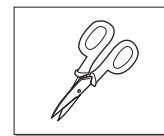
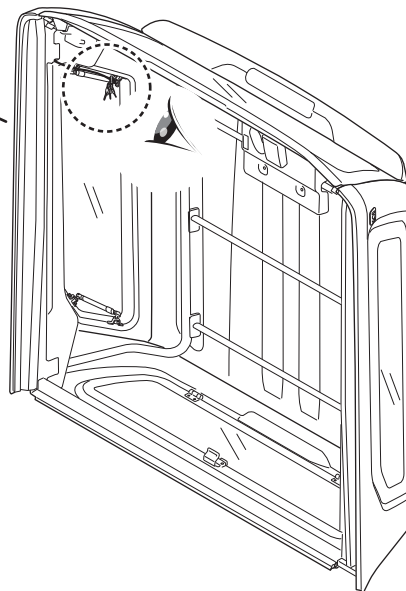
2.1



2.2

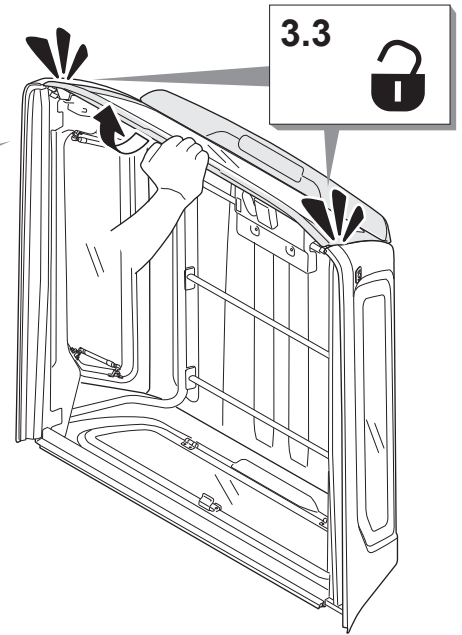
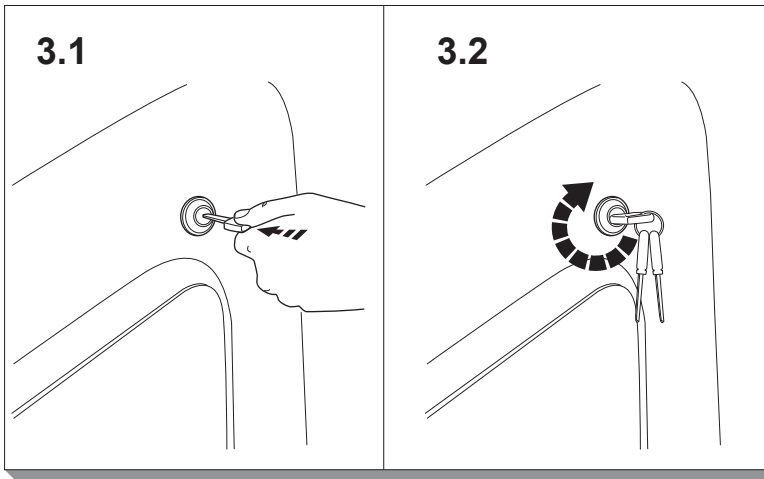


A

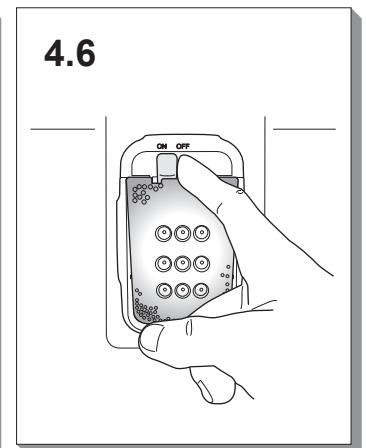
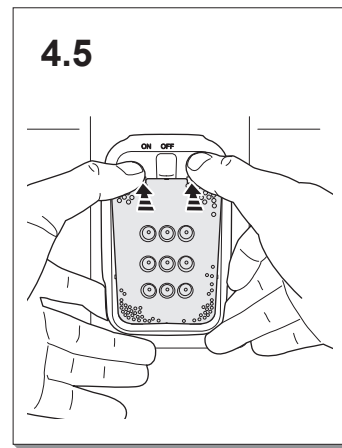
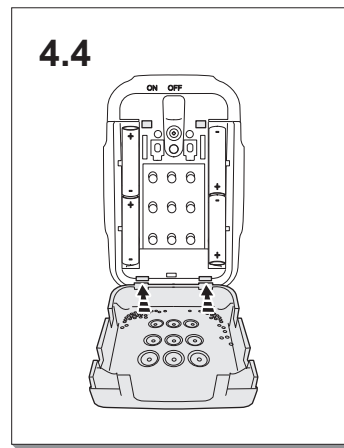
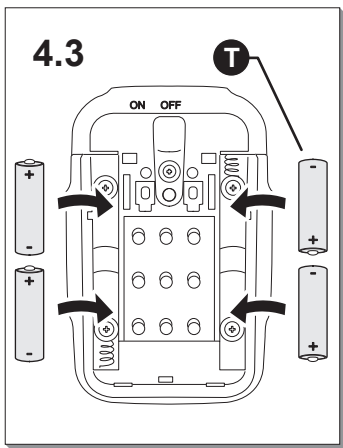
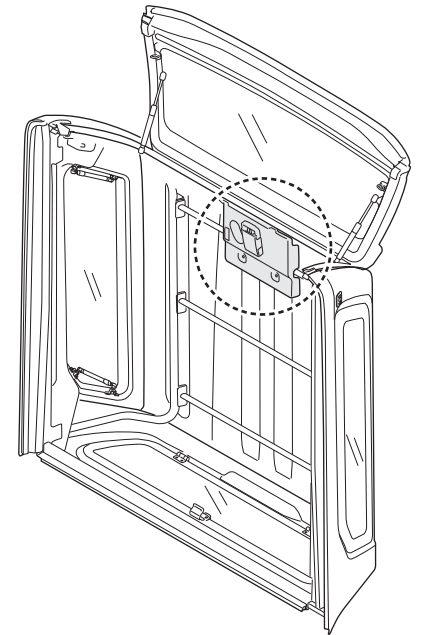
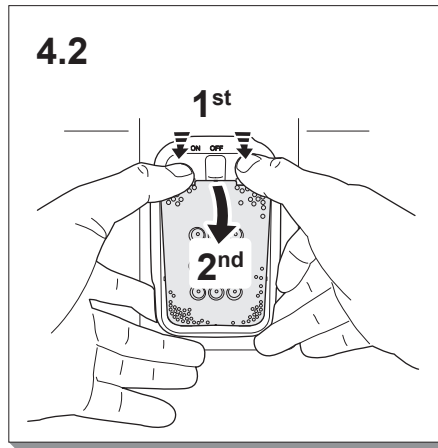
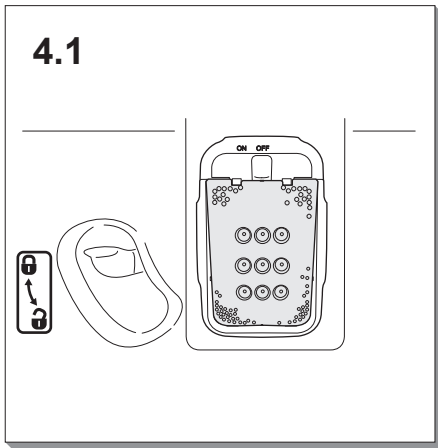


Instruction procedure

3



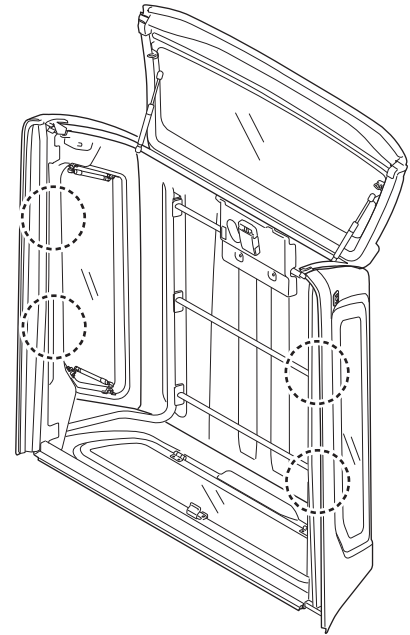
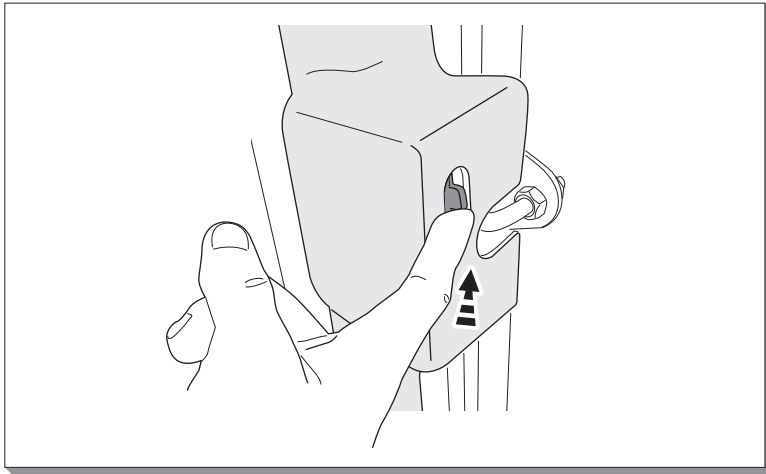
4



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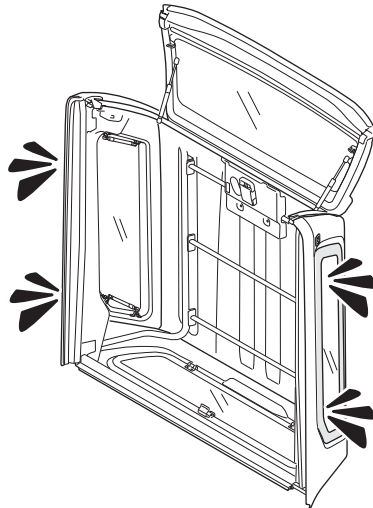
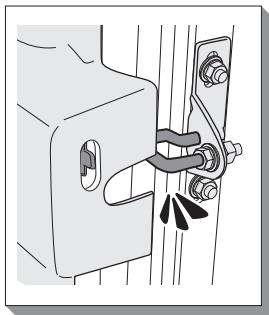
Instruction procedure

5 LH/RH

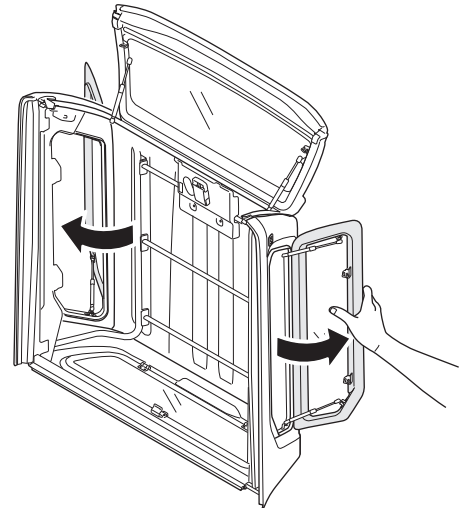


6 LH/RH

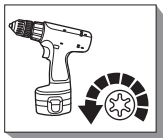
6.1



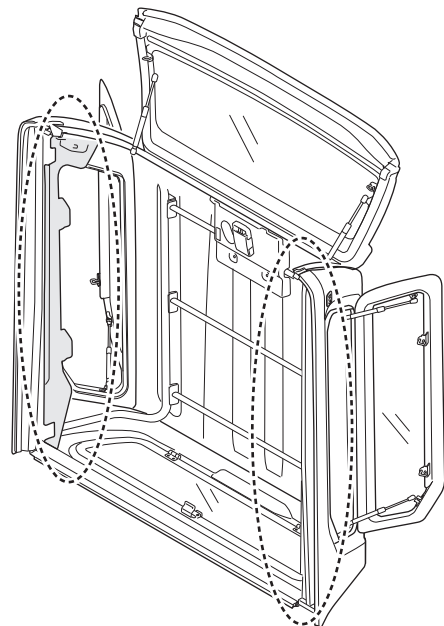
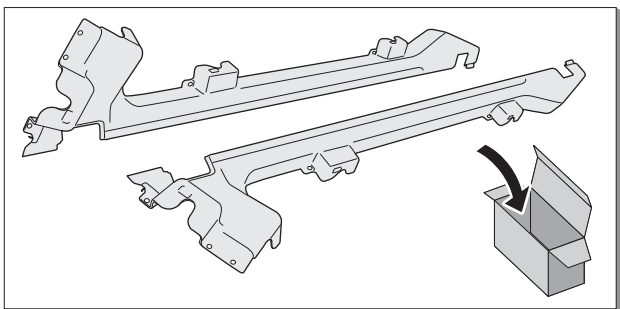
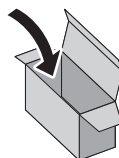
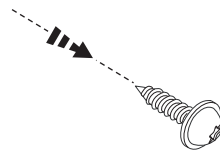
6.2



7 LH/RH



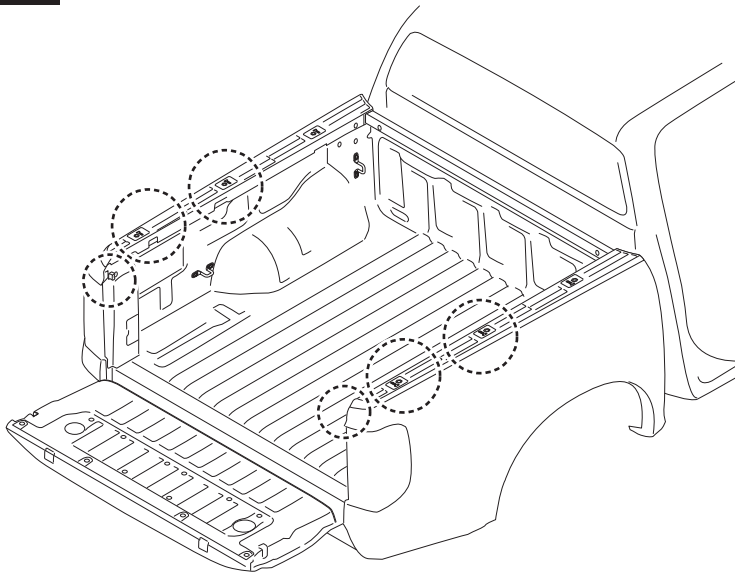
(14x)



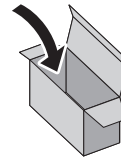
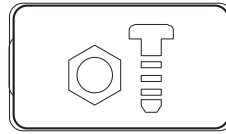
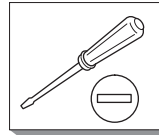
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Instruction procedure

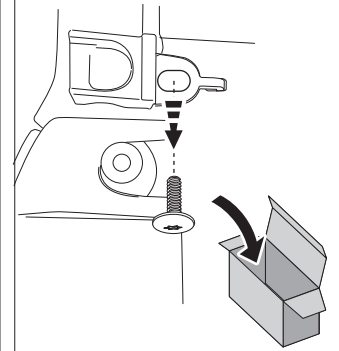
8



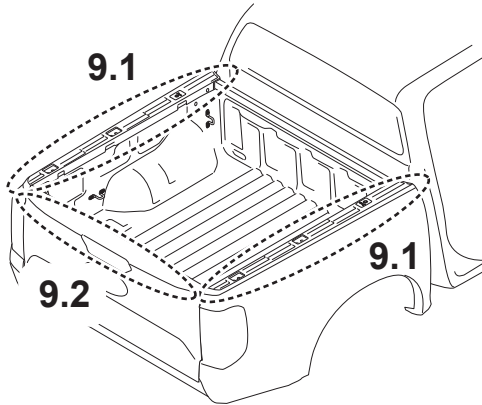
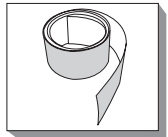
LH/RH
(4x)



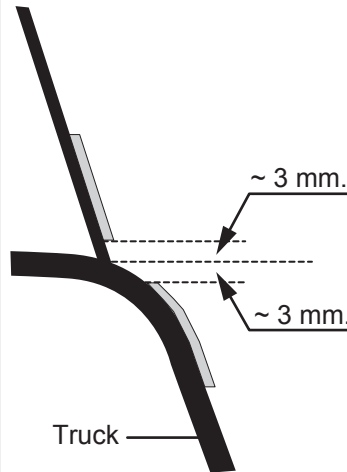
LH/RH
(2x)



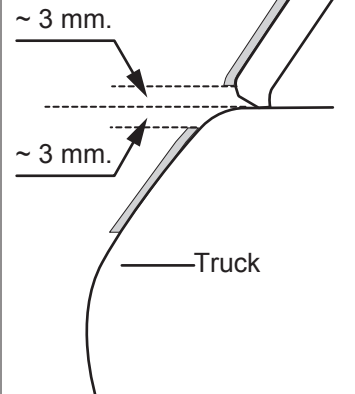
9



9.1 LH/RH



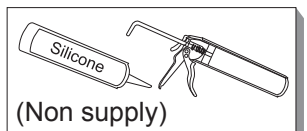
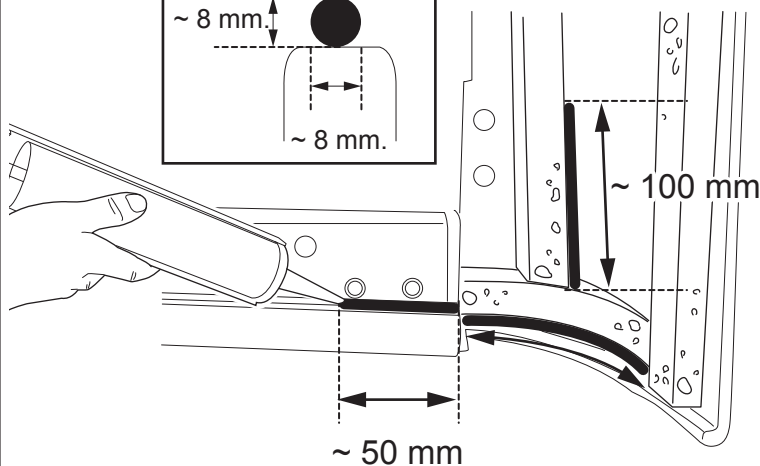
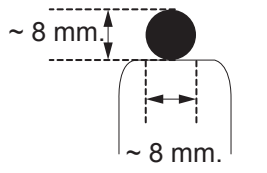
9.2



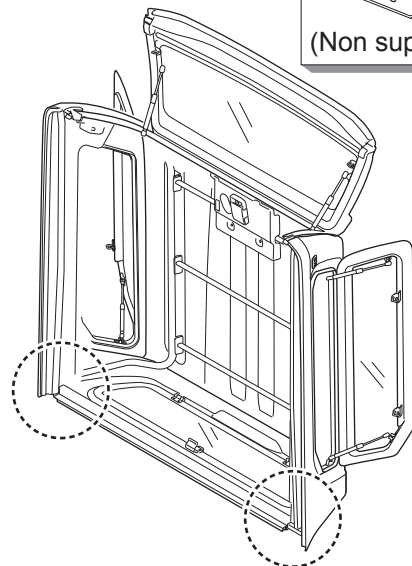
10

LH/RH

Section

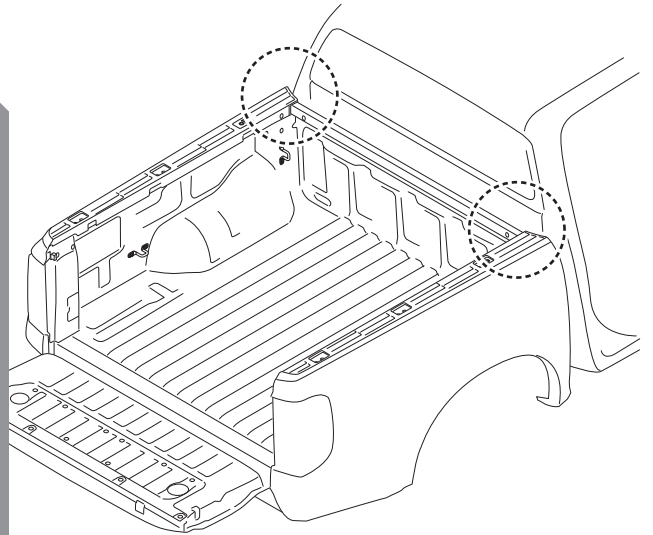
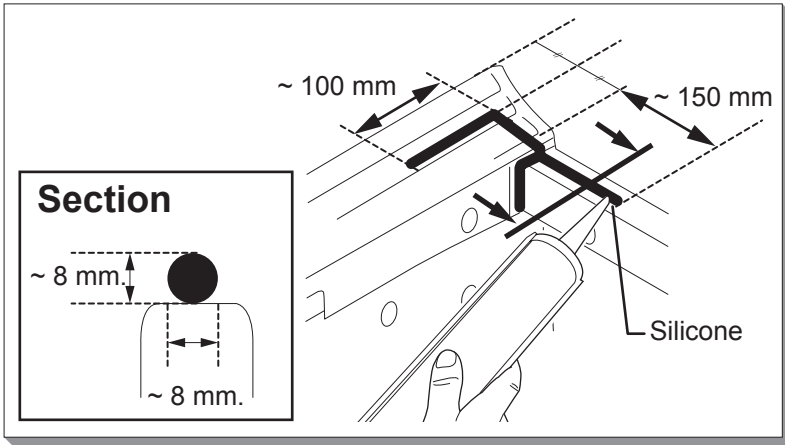
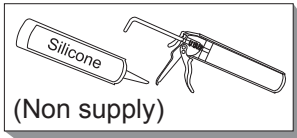


(Non supply)



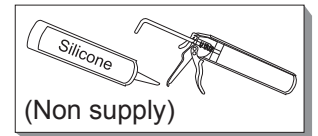
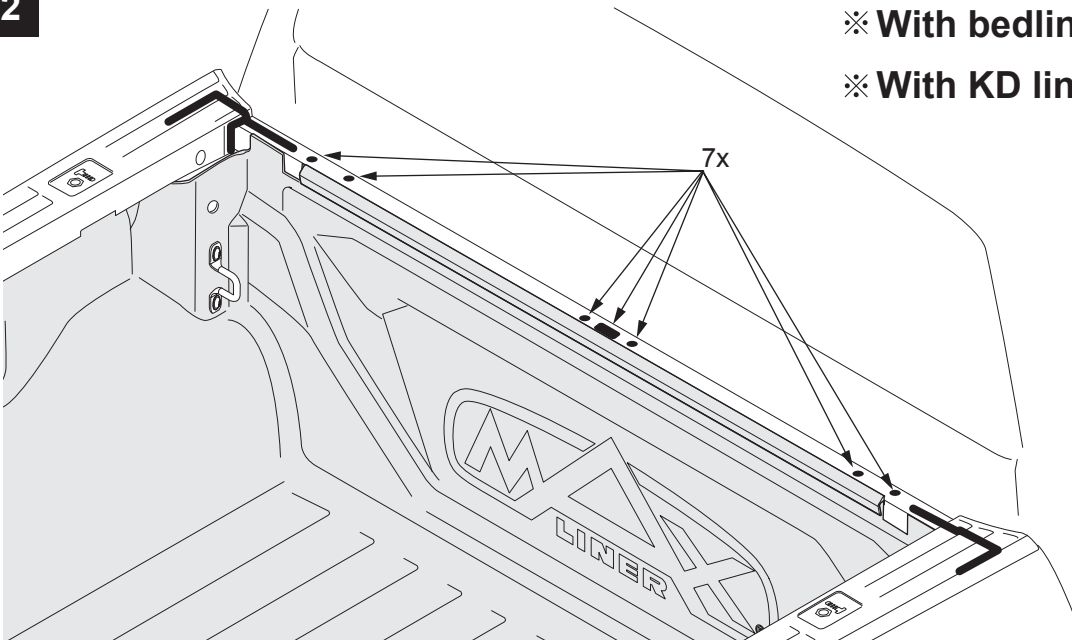
Instruction procedure

11 LH/RH

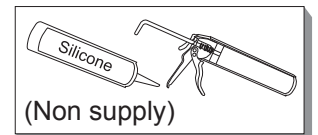
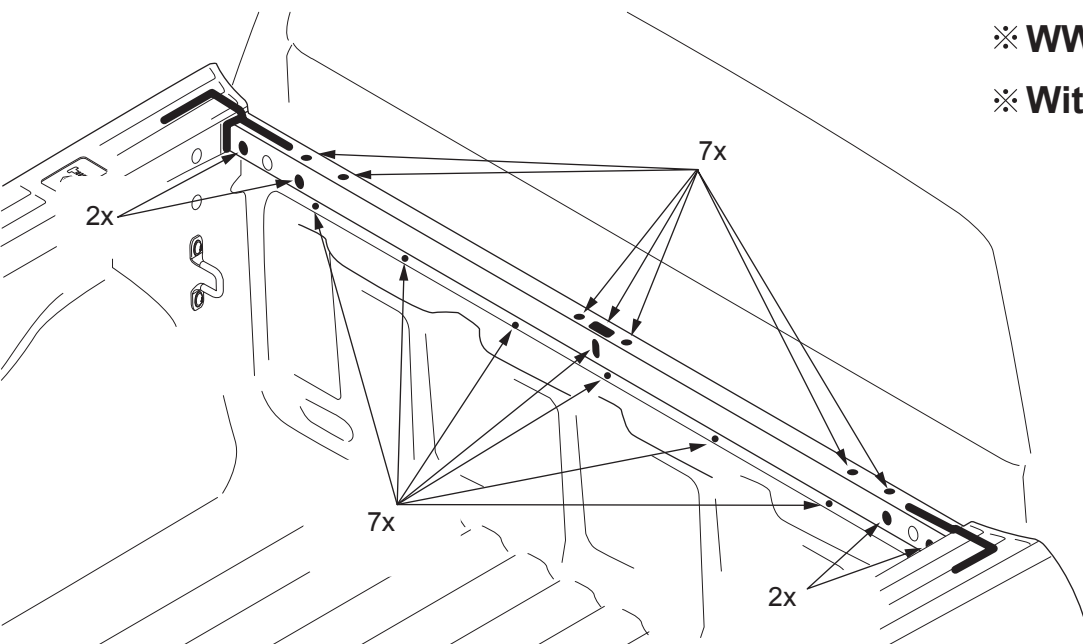


12

- ※ With bedliner DC under rail type
- ※ With KD liner DC under rail type



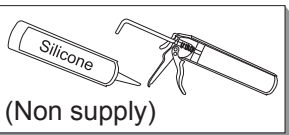
- ※ With bedliner TD type
- ※ Without bedliner



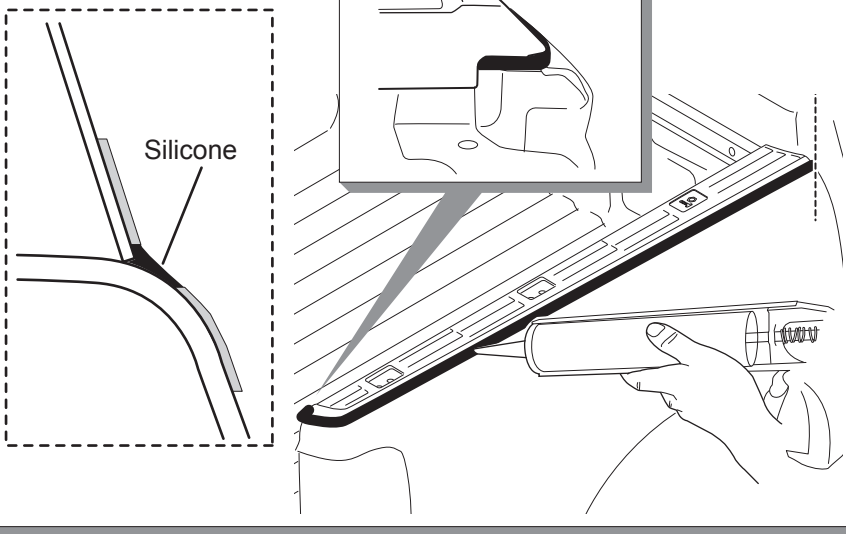
S22 31929*00

Instruction procedure

13



13.1 LH/RH

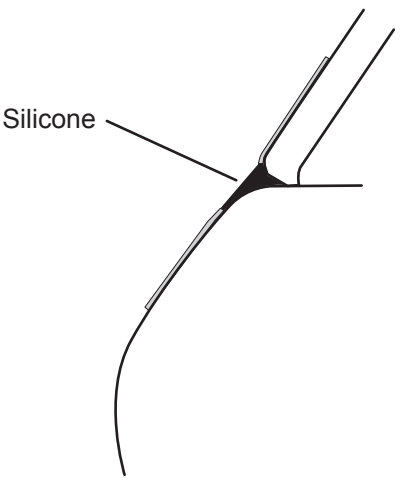


13.1

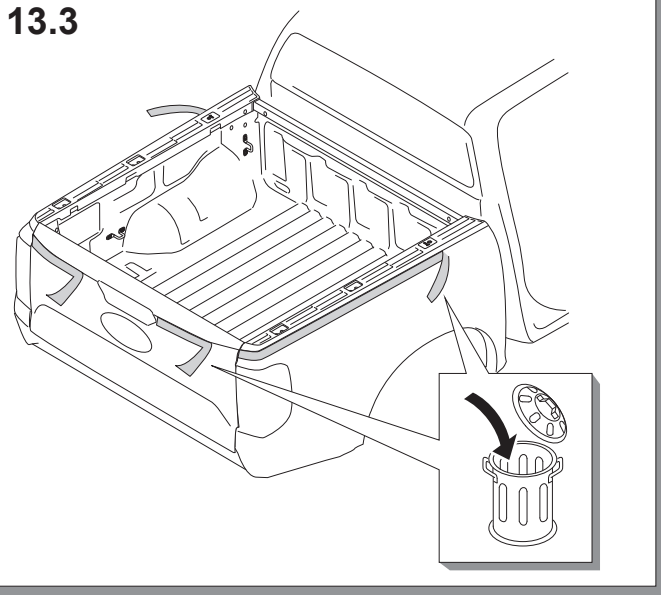
13.2

13.1

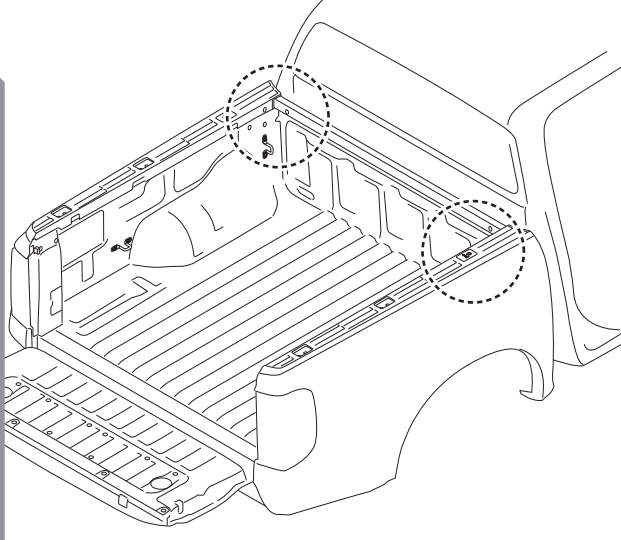
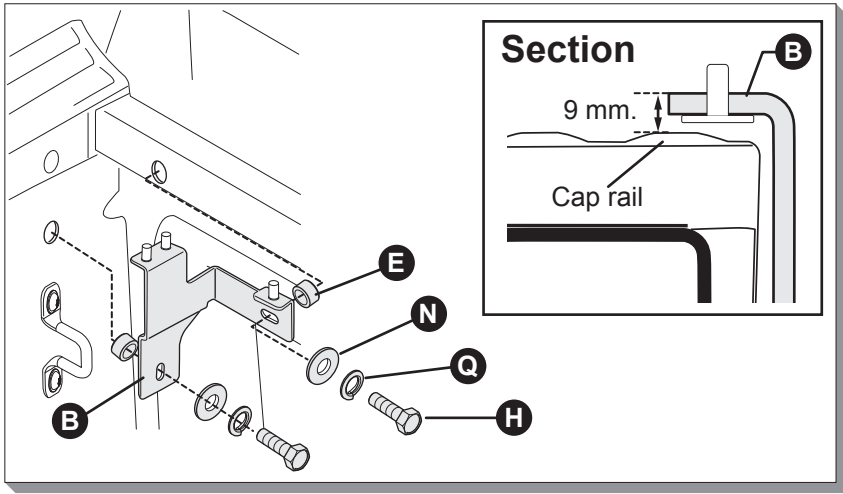
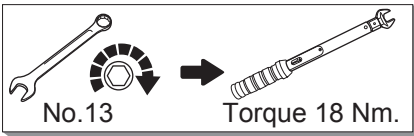
13.2



13.3



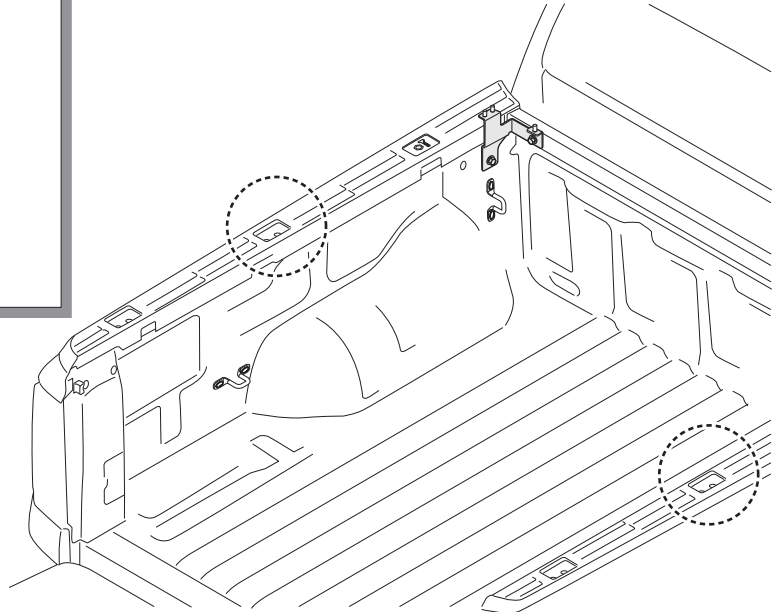
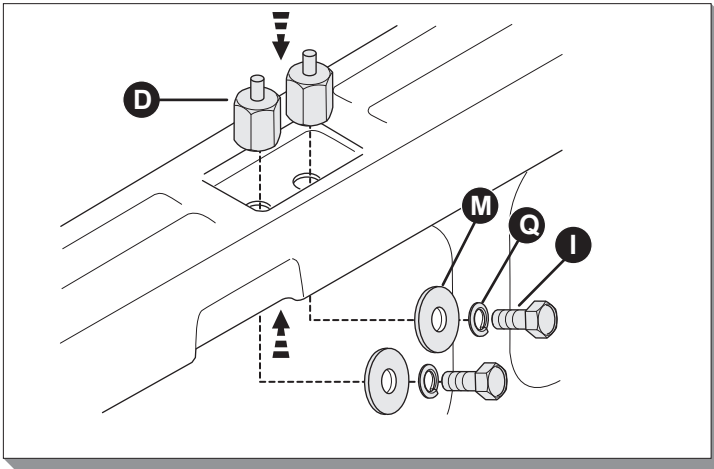
14 LH/RH



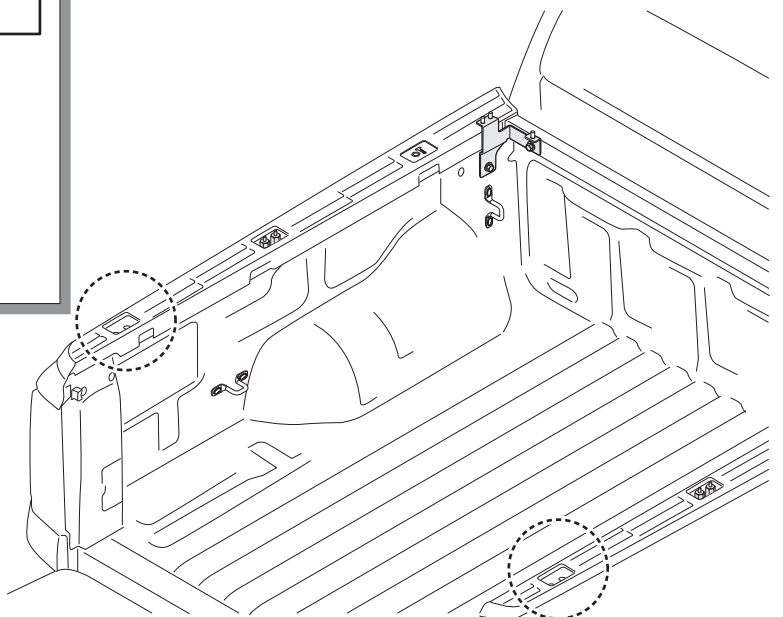
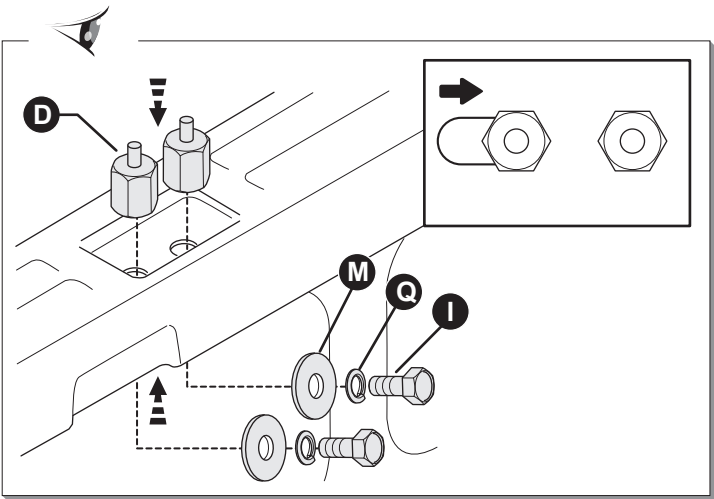
S22 31929*00

Instruction procedure

15 LH/RH



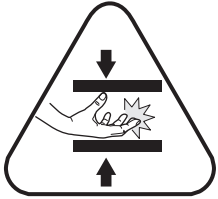
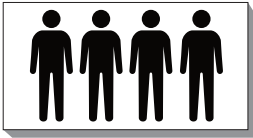
16 LH/RH



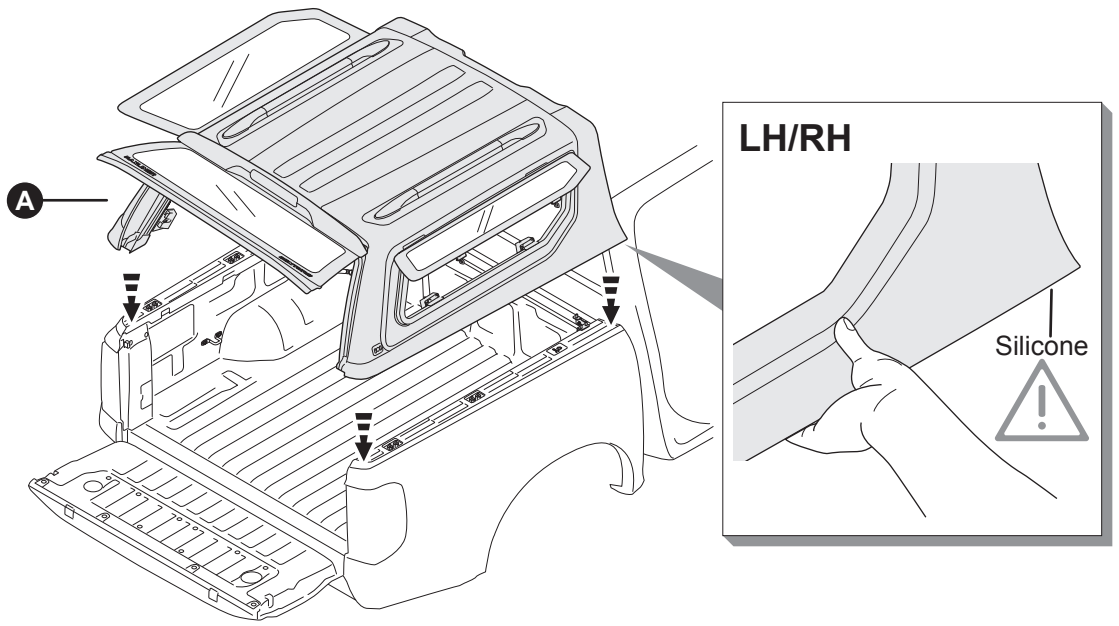
S22 31929*00

Instruction procedure

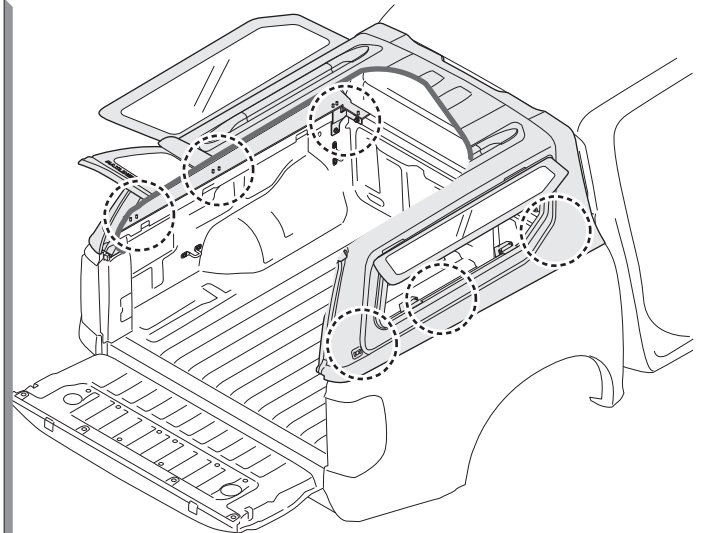
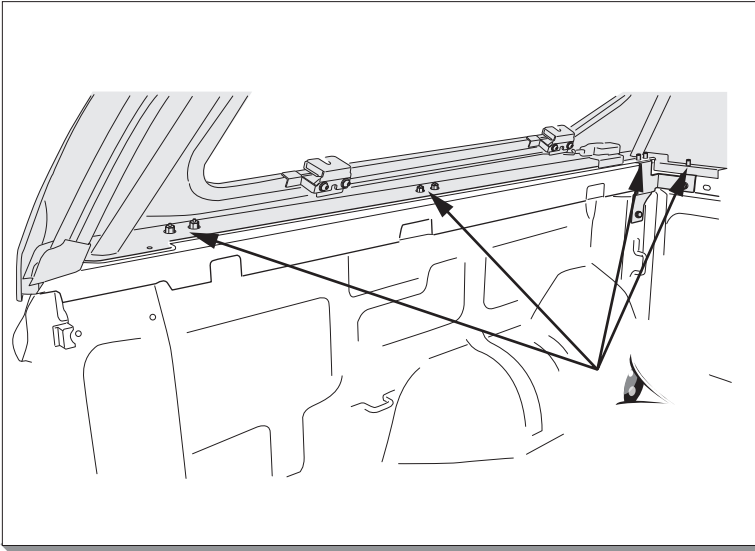
17



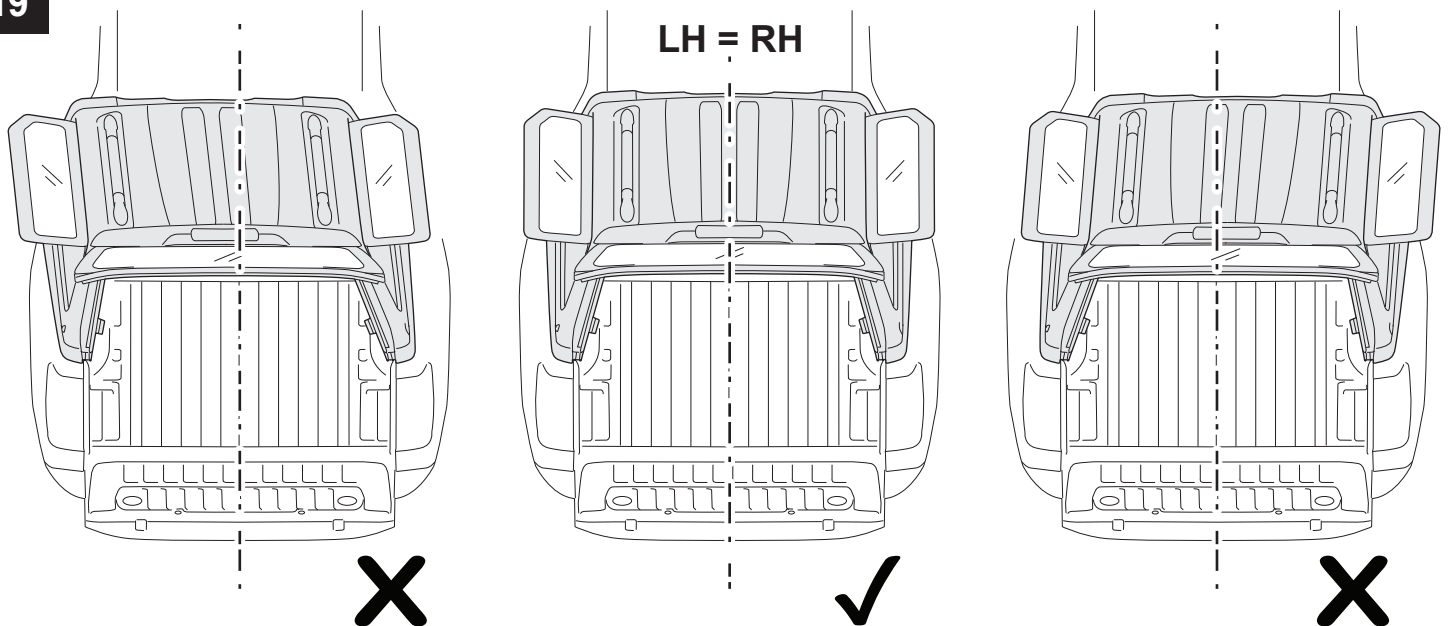
BEWARE OF CRUSHING HAND



18 LH/RH



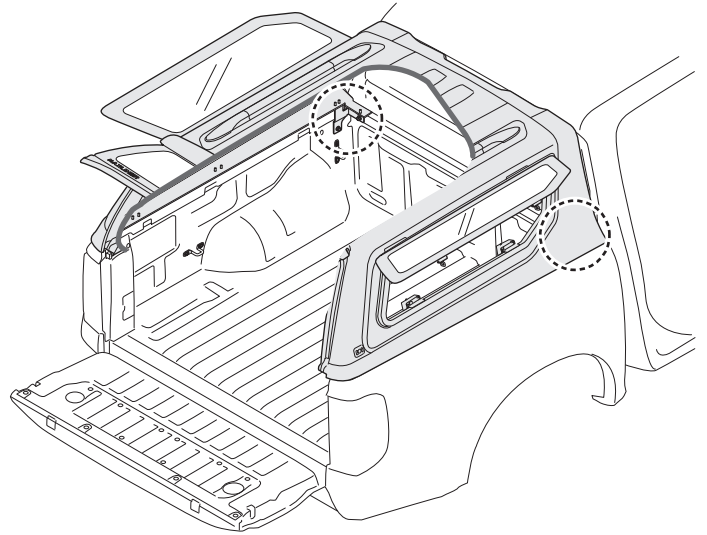
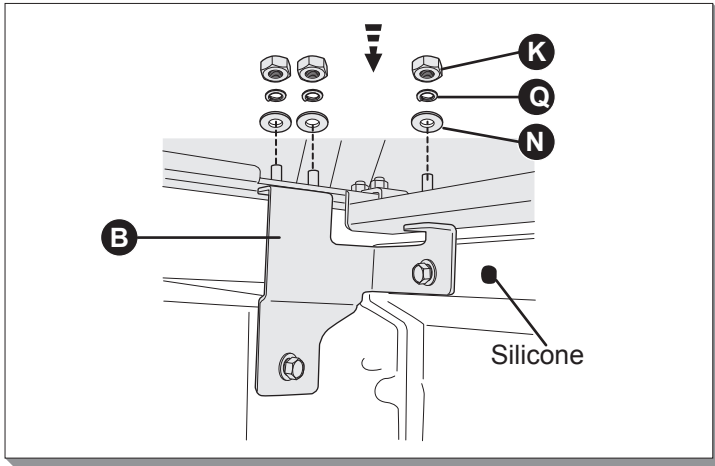
19



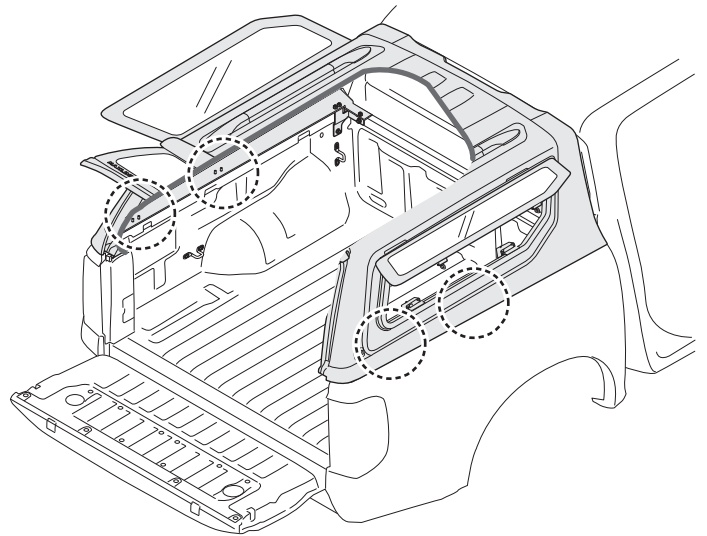
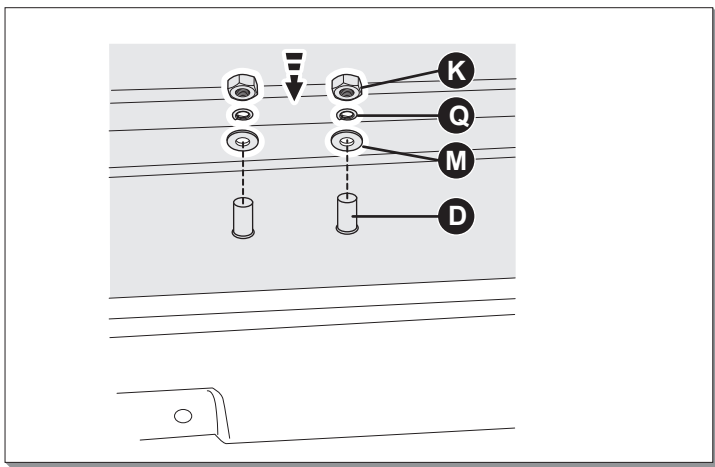
S22 31929*00

Instruction procedure

20 LH/RH



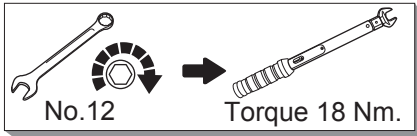
21 LH/RH



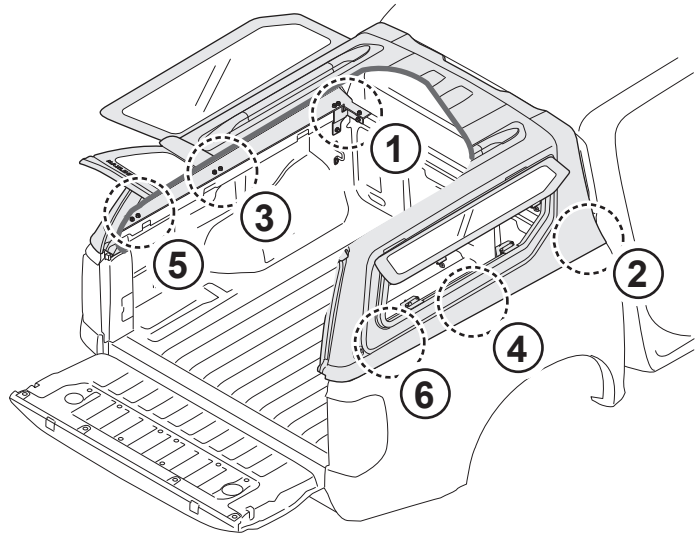
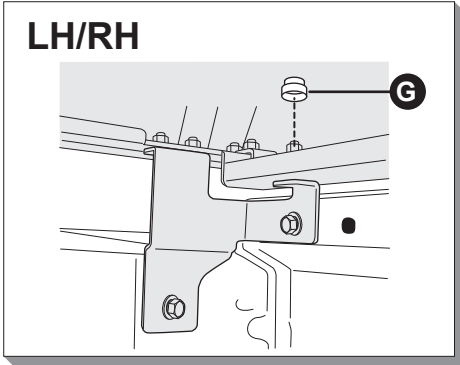
S22 31929*00

Instruction procedure

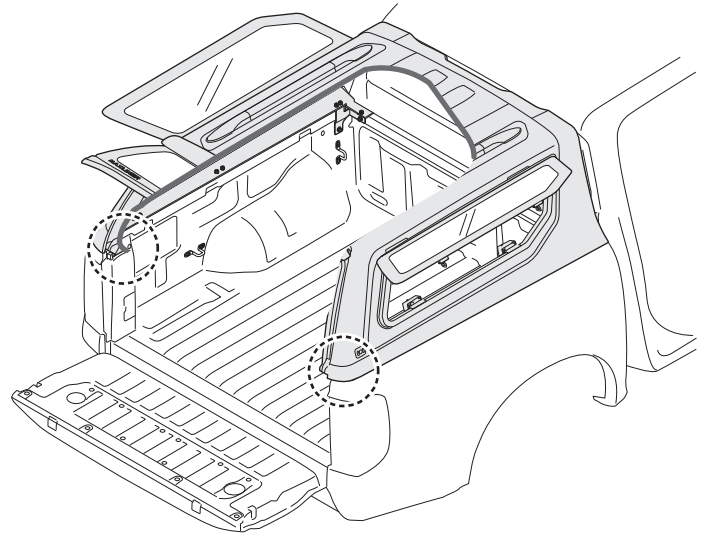
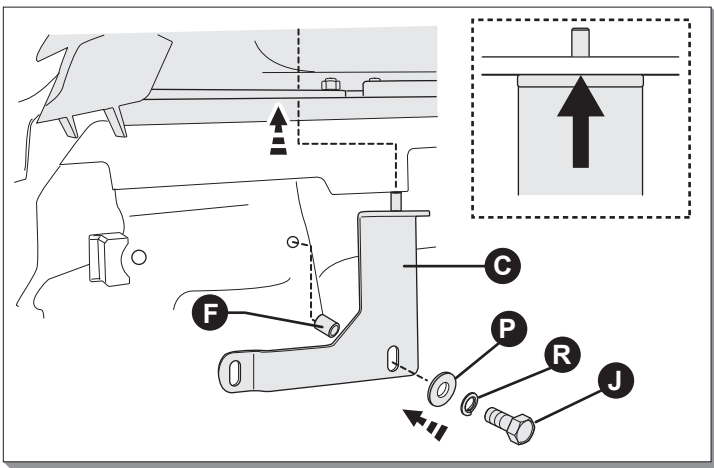
22 LH/RH



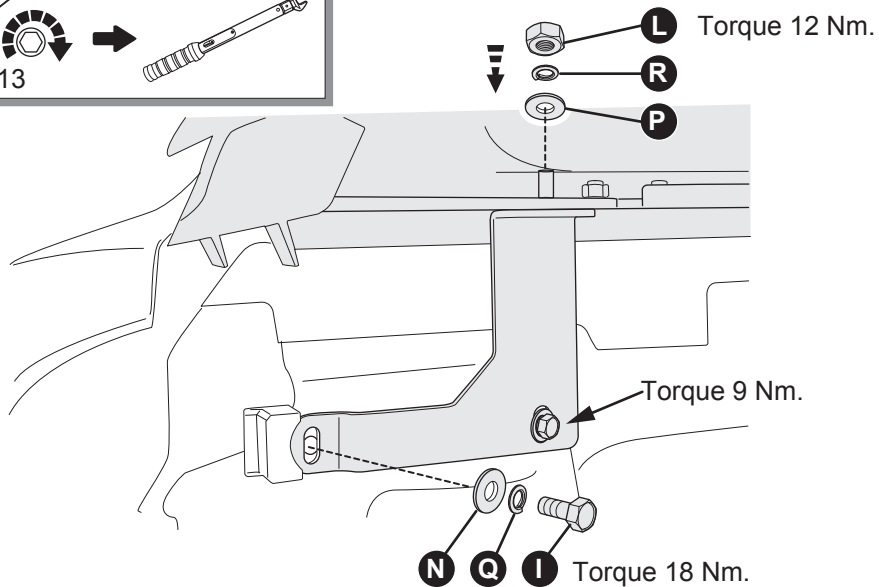
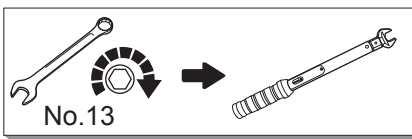
1 → 6



23 LH/RH



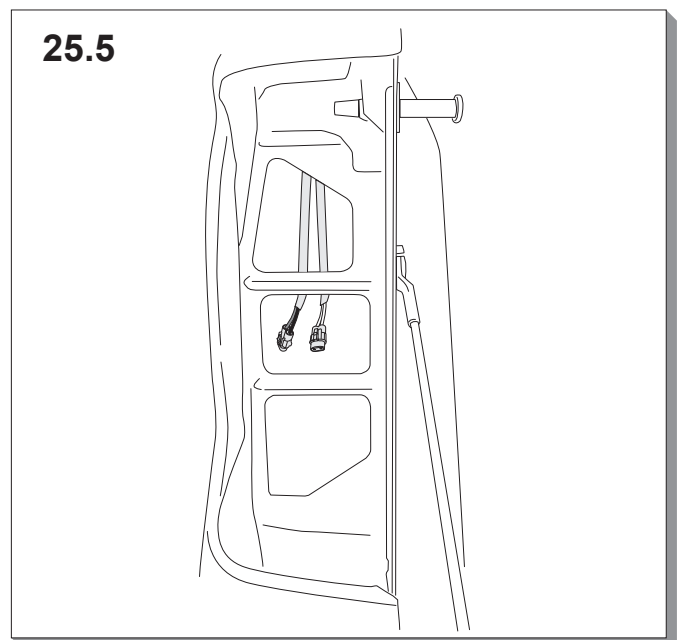
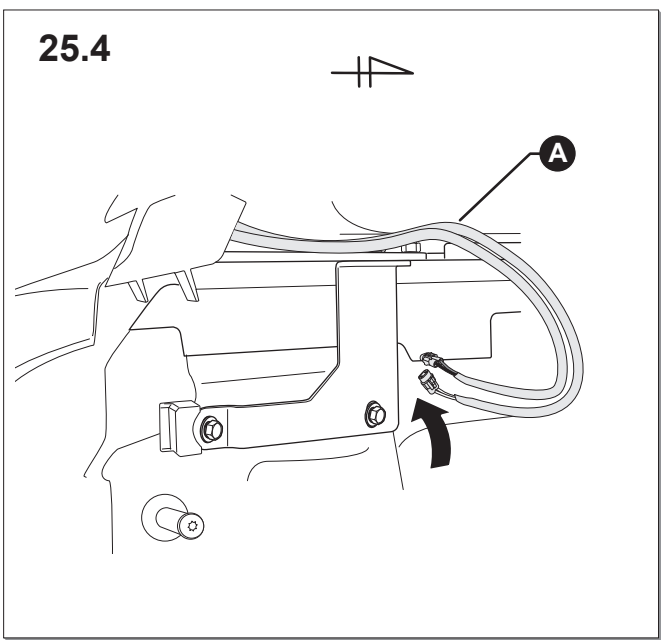
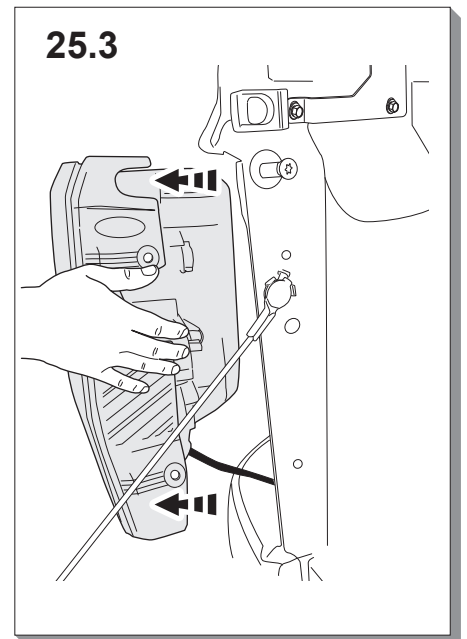
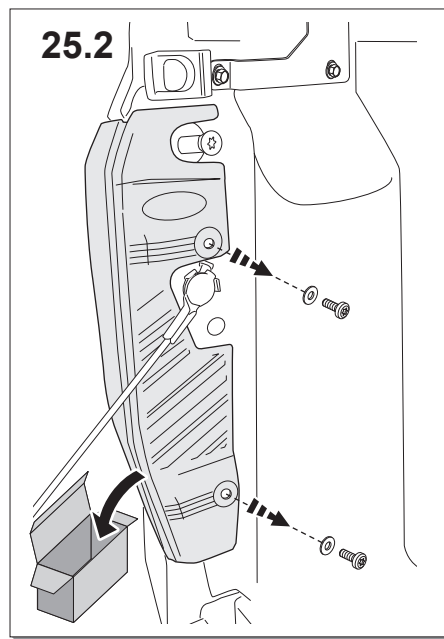
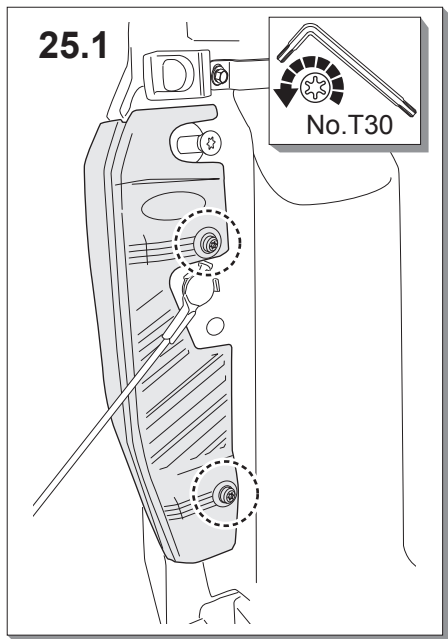
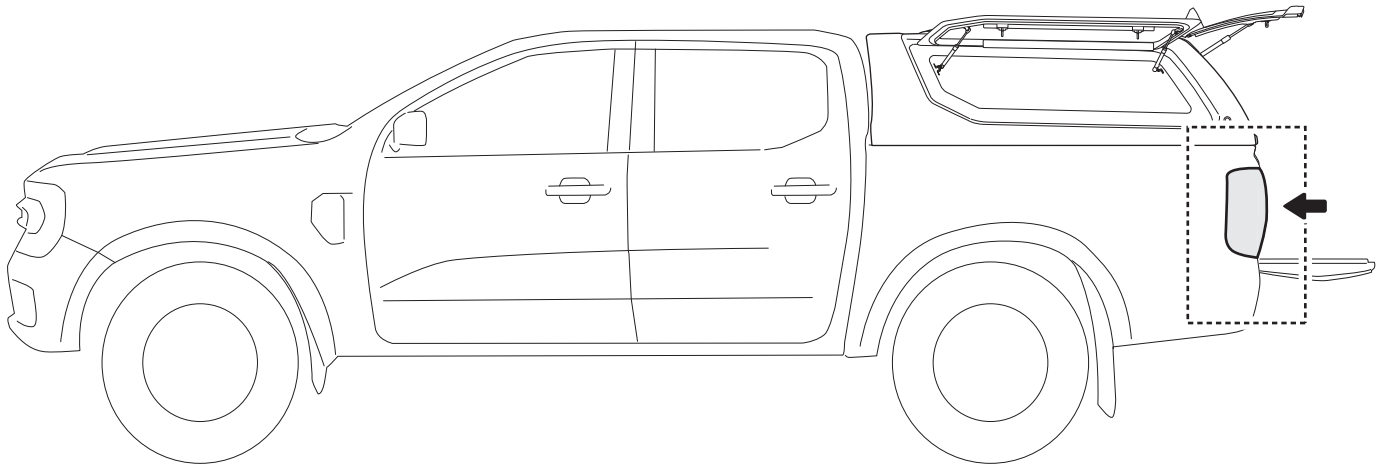
24 LH/RH



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Instruction procedure

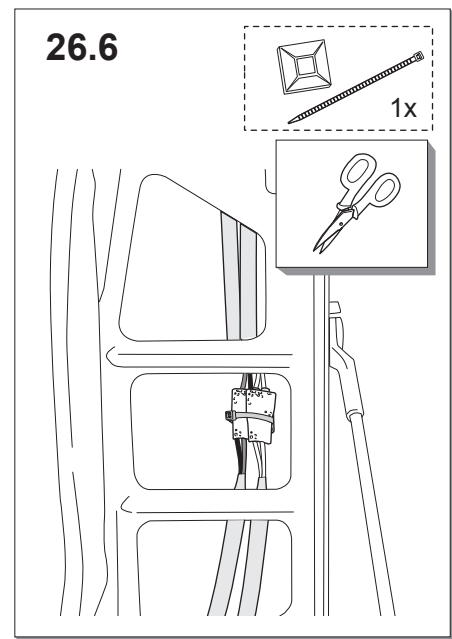
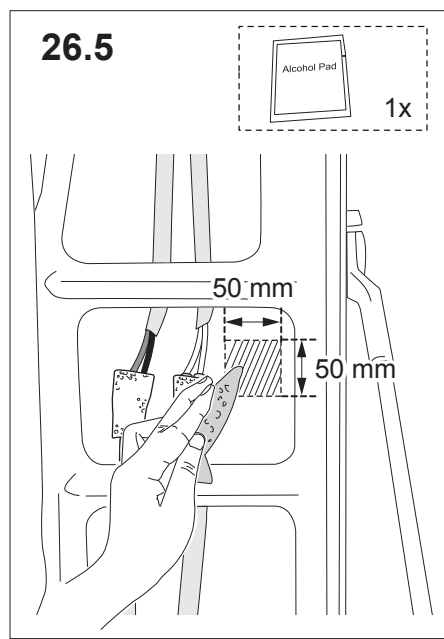
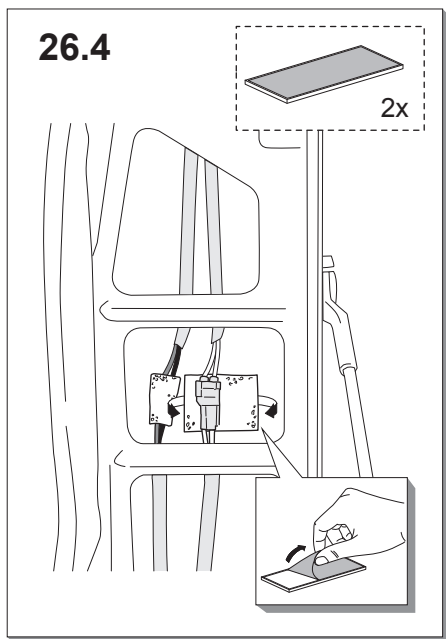
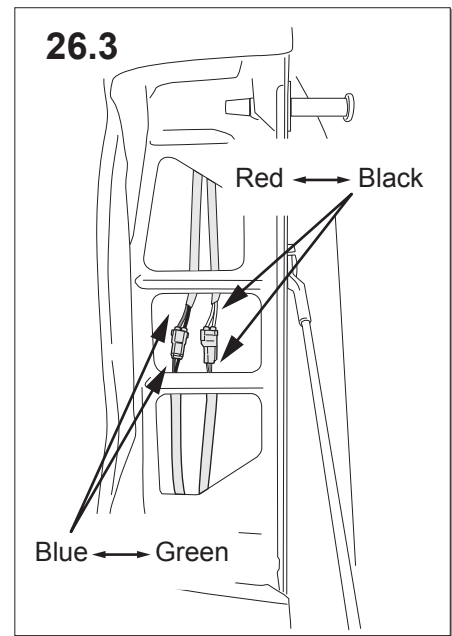
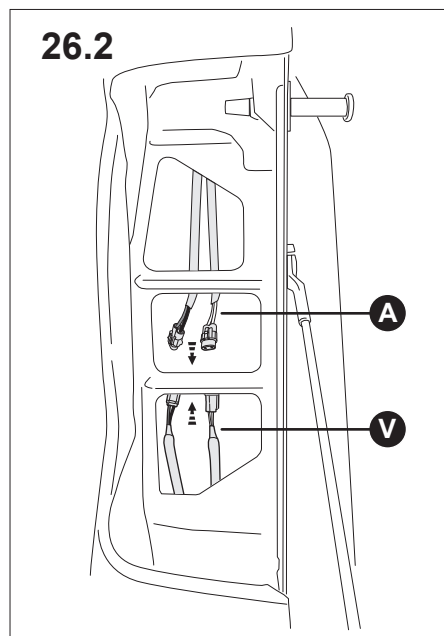
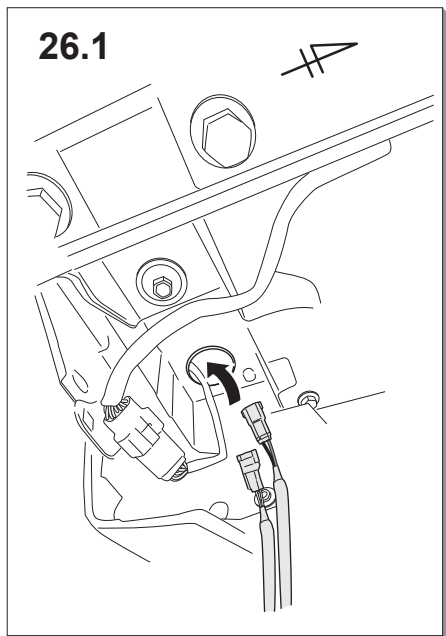
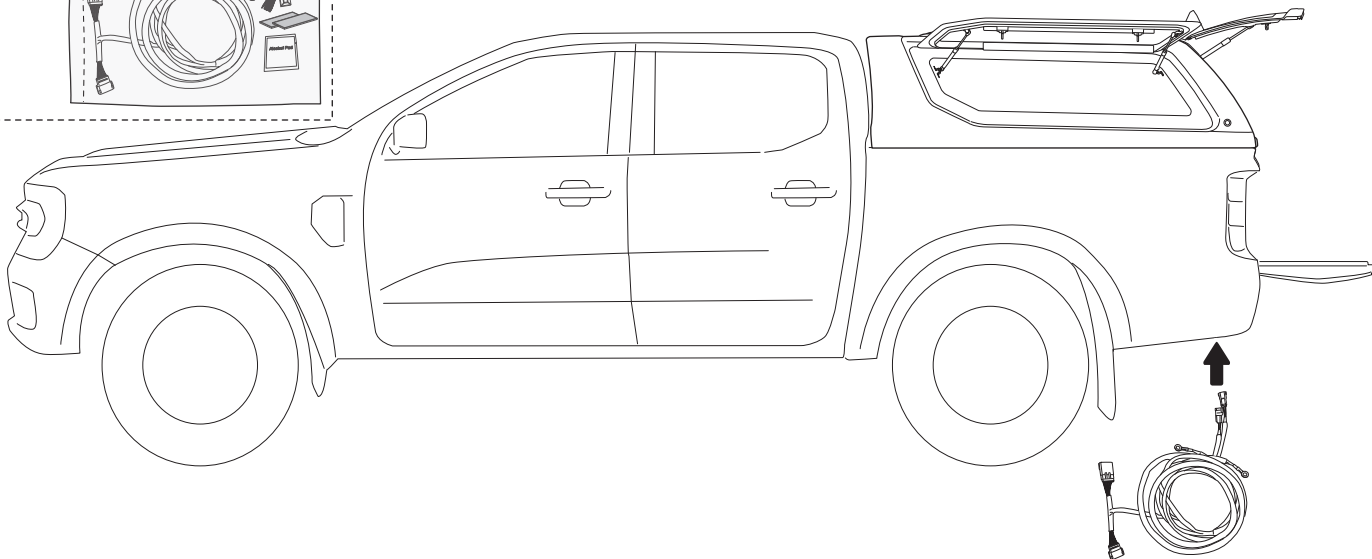
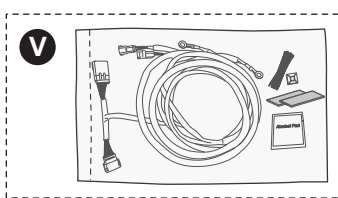
25



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Instruction procedure

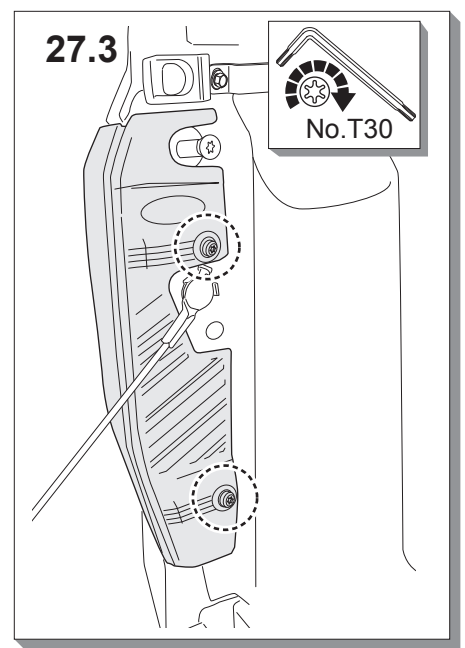
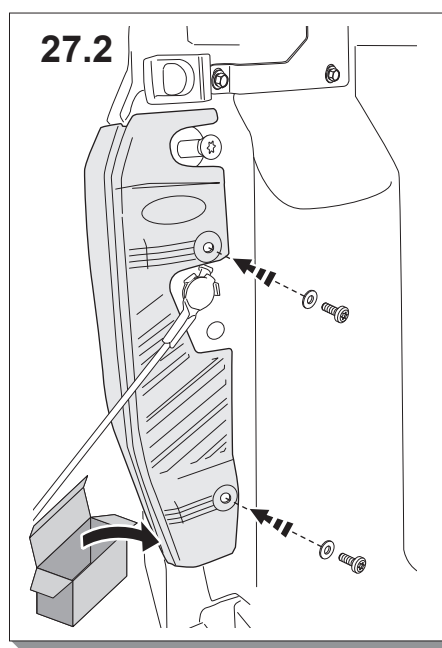
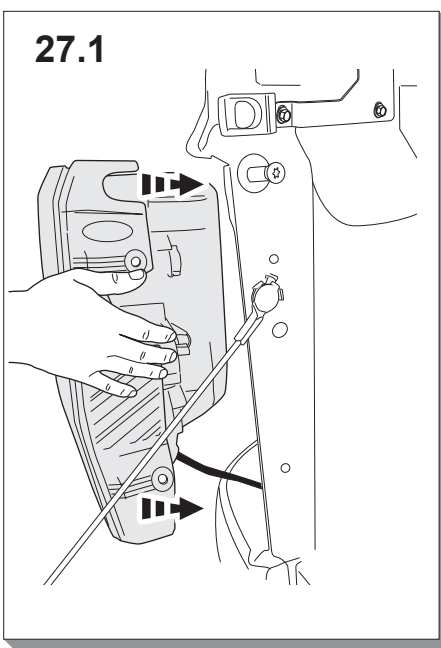
26



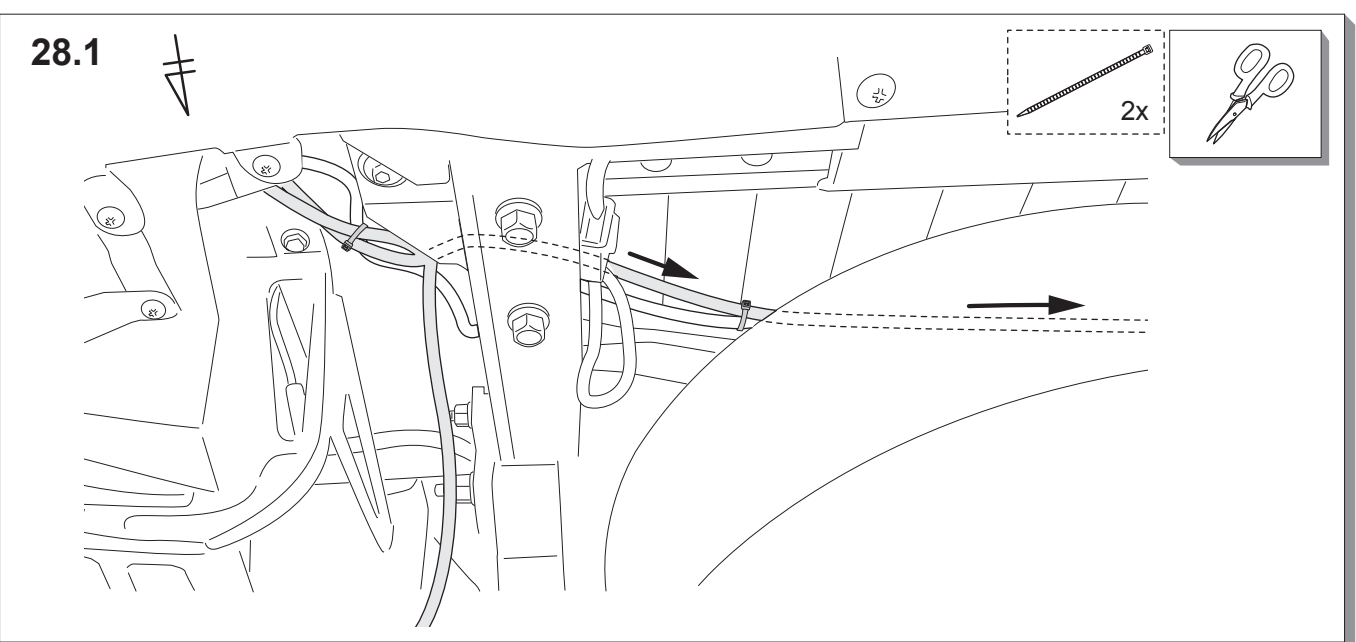
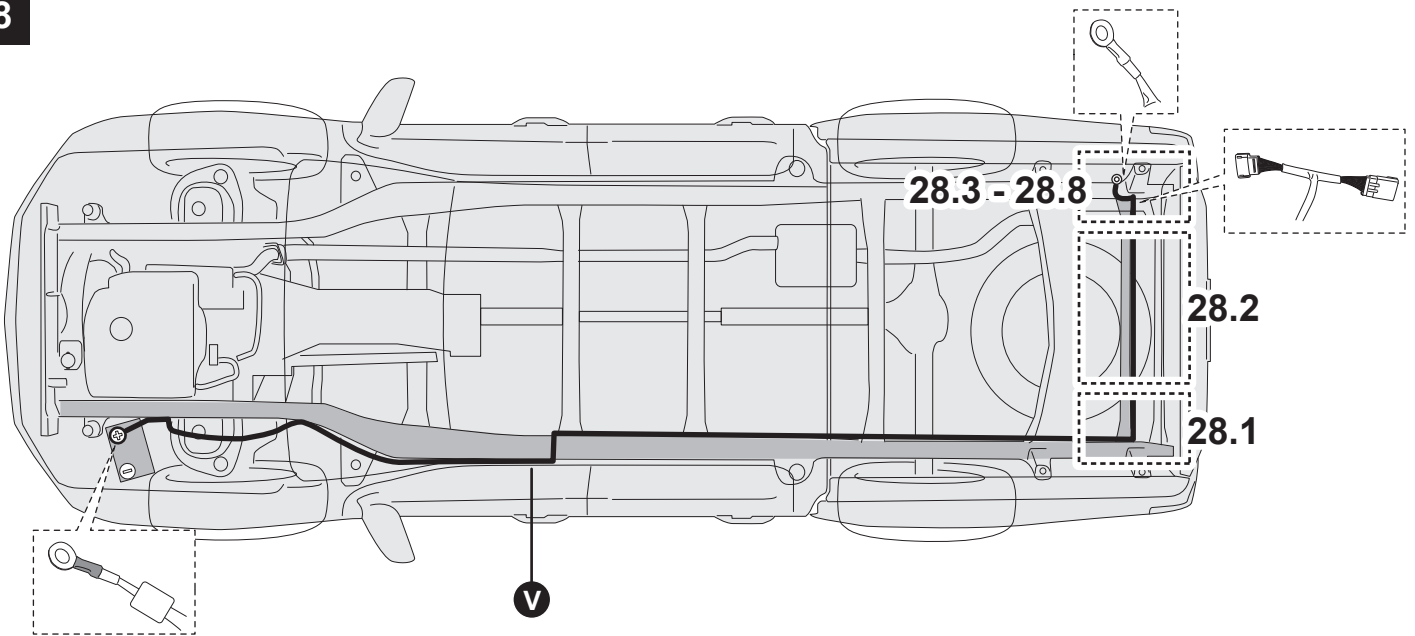
S22 31929*00

Instruction procedure

27

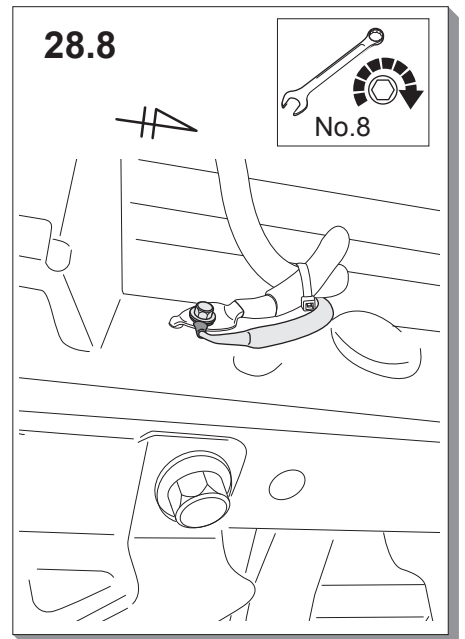
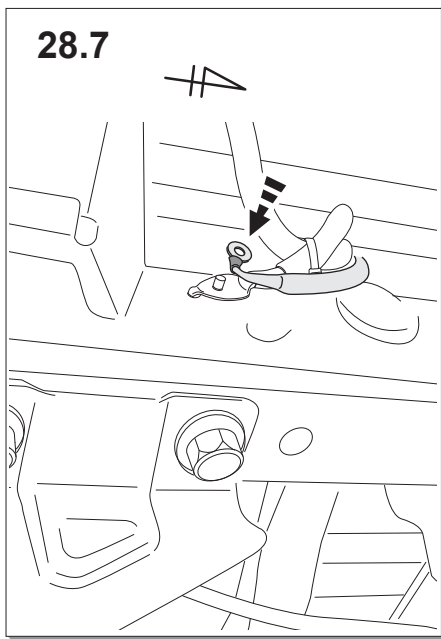
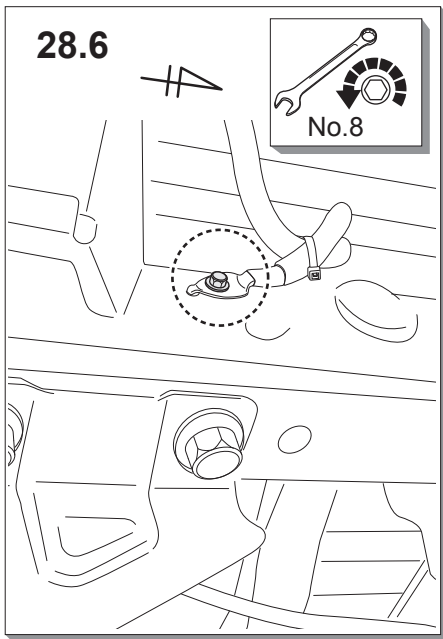
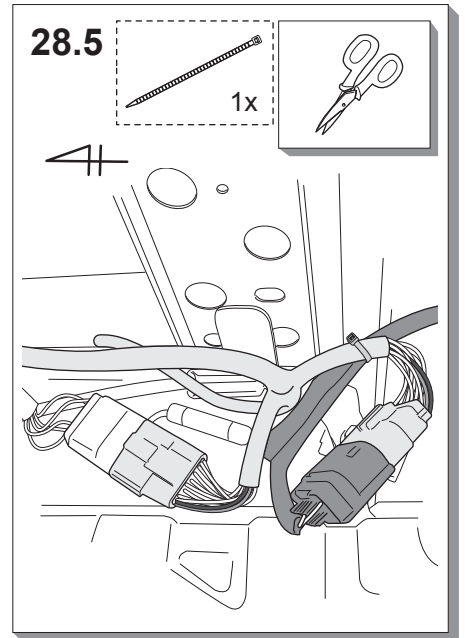
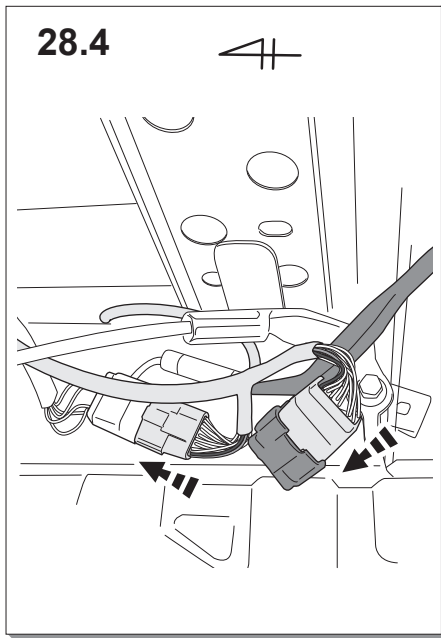
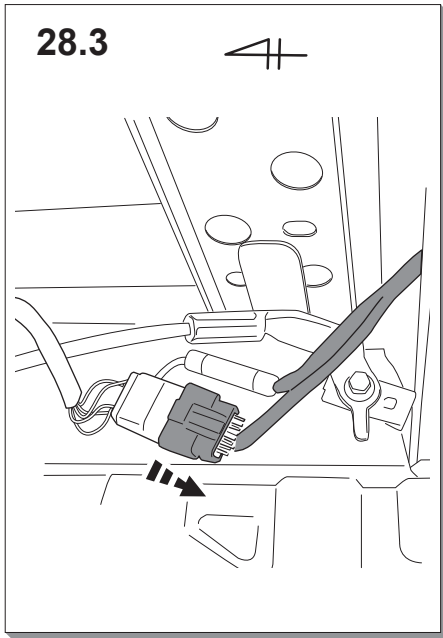
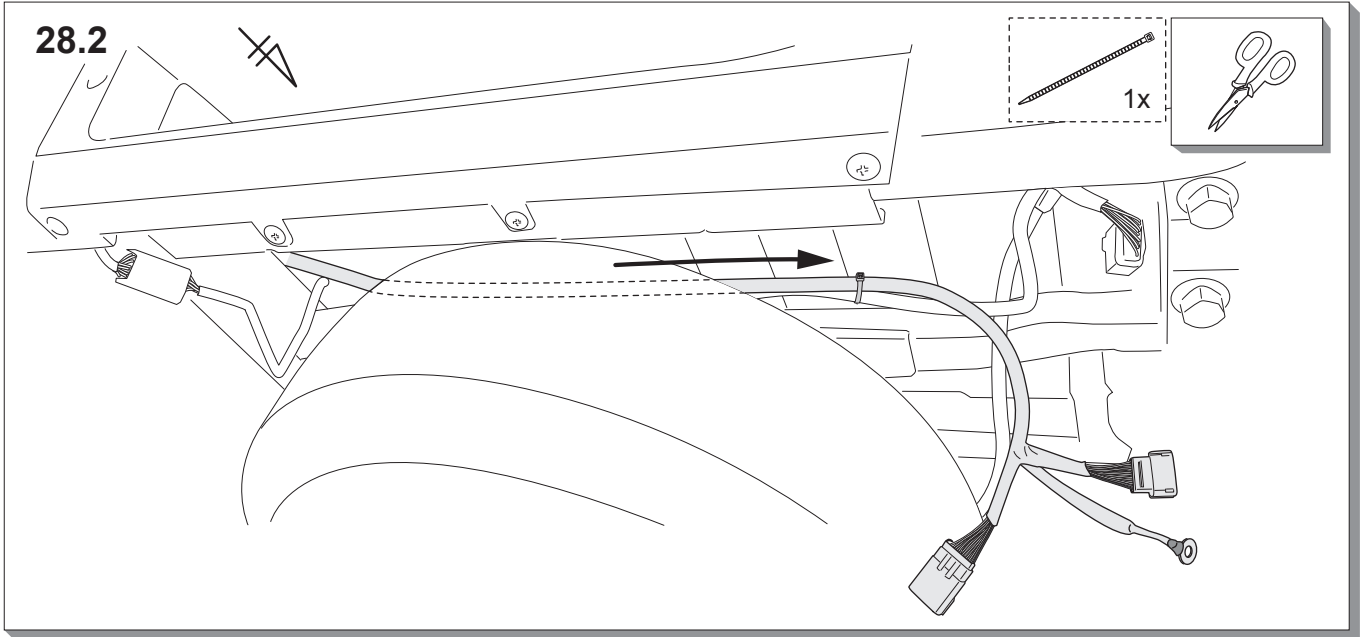


28



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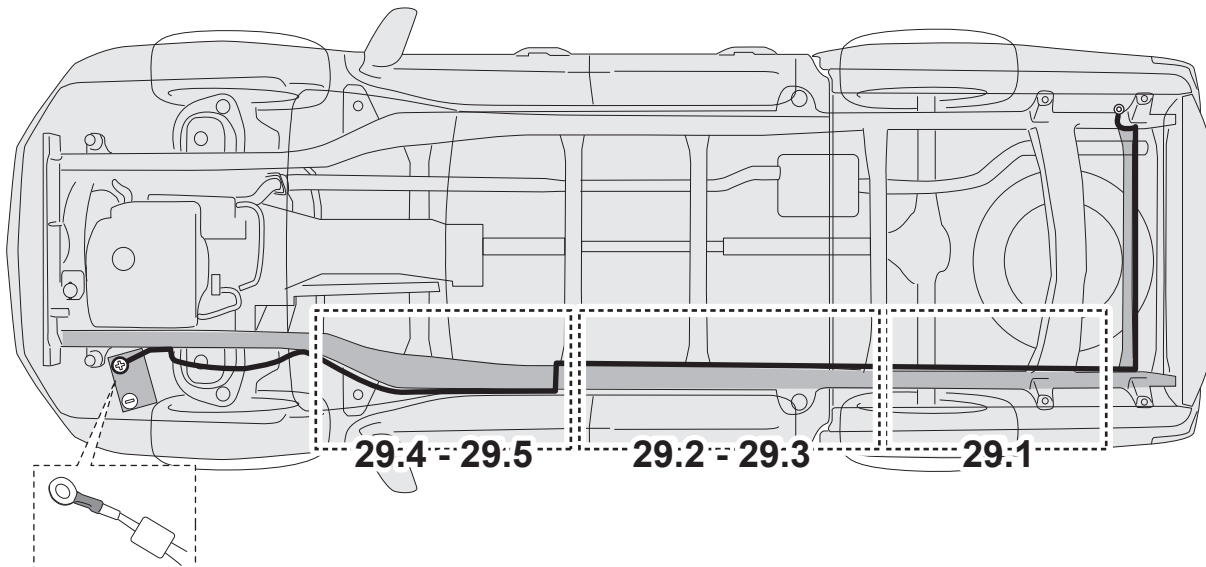
Instruction procedure



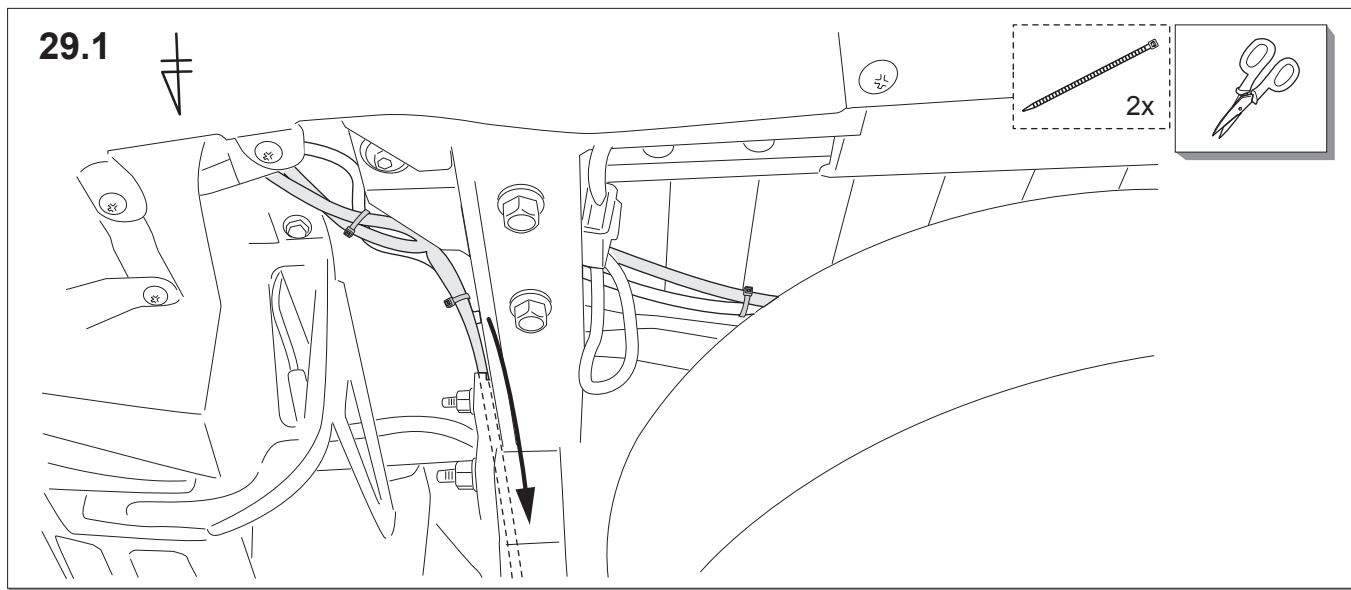
S22 31929*00

Instruction procedure

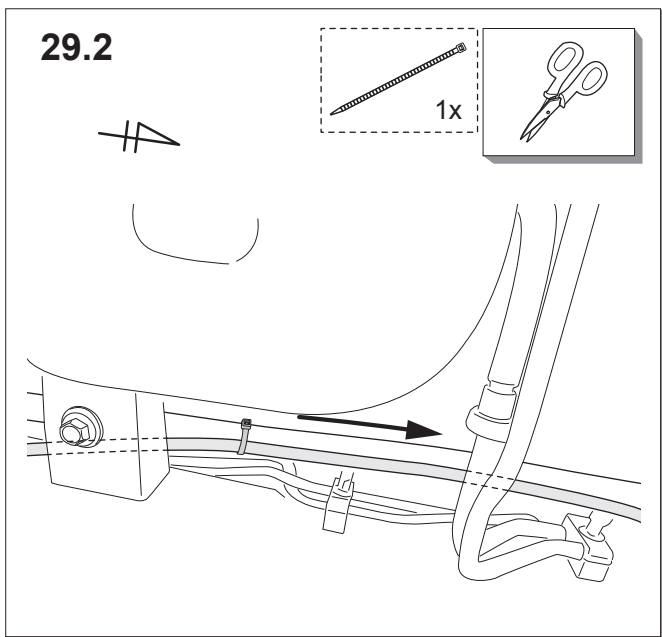
29



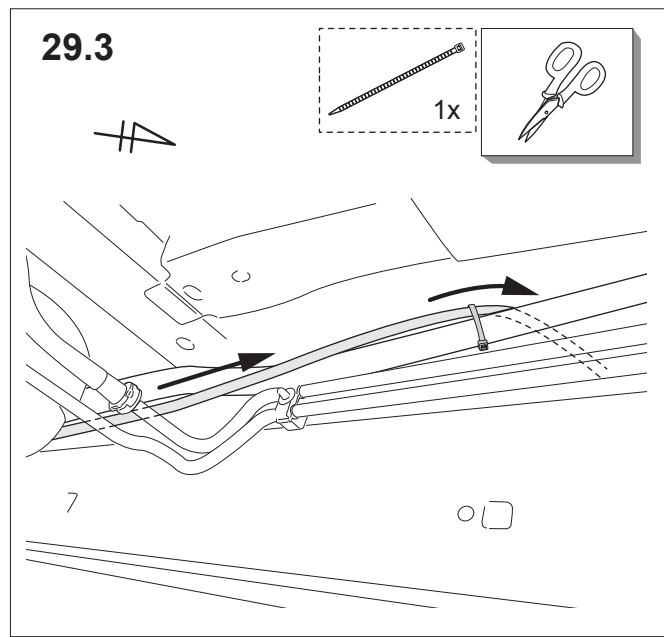
29.1



29.2

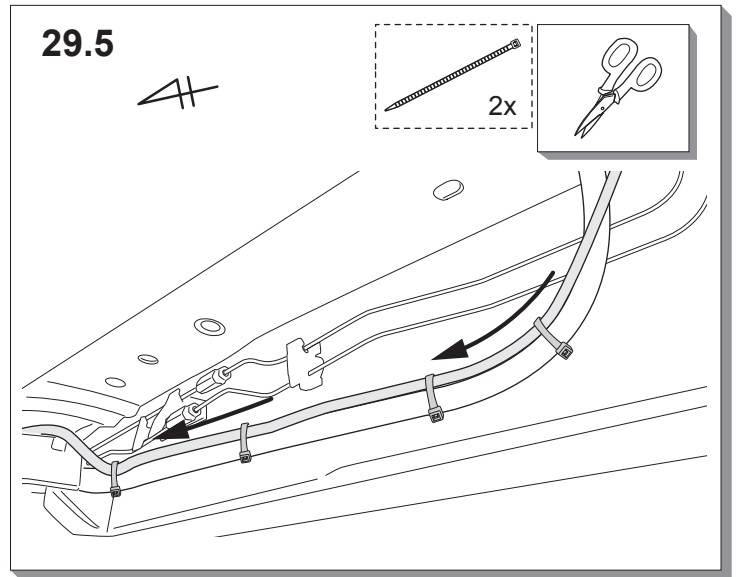
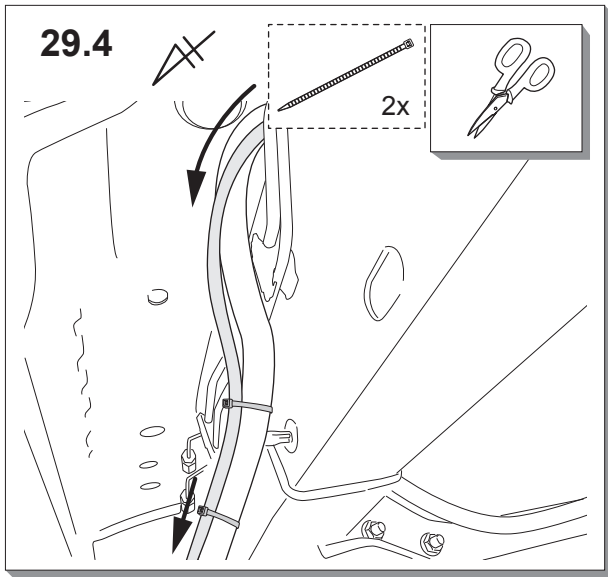


29.3

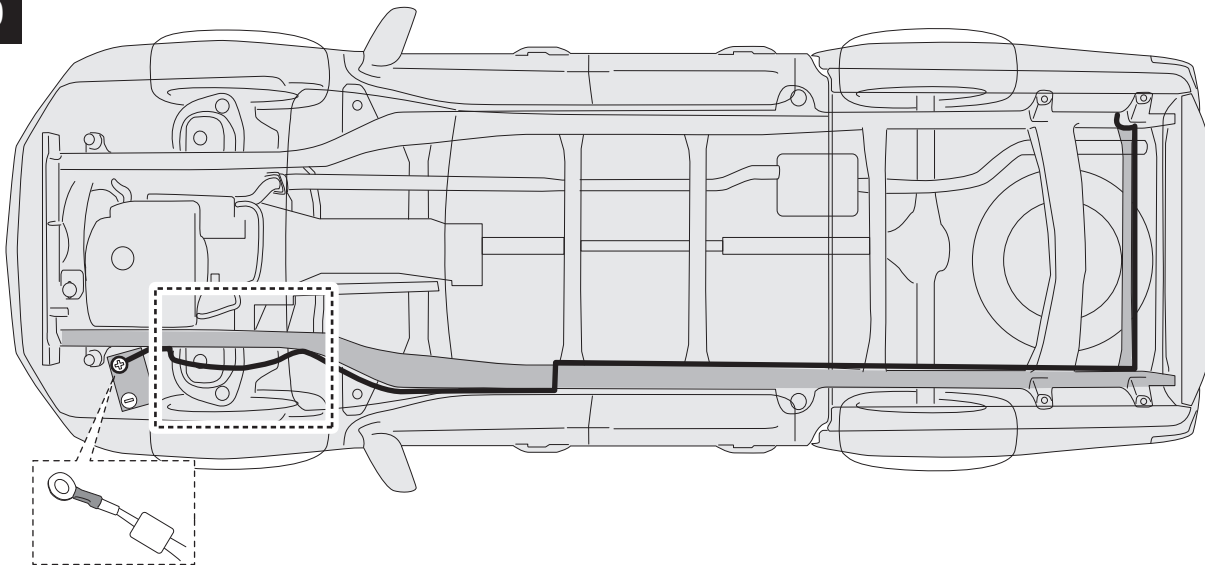


S22 31929*00

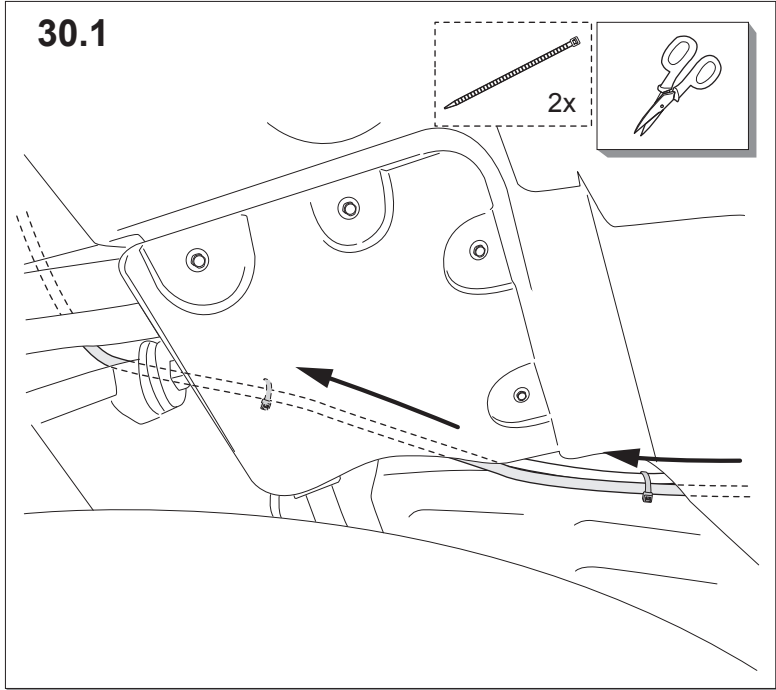
Instruction procedure



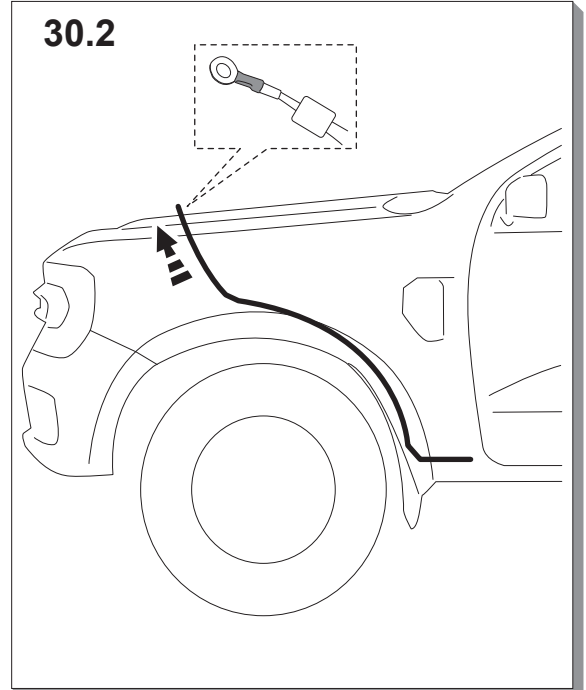
30



30.1



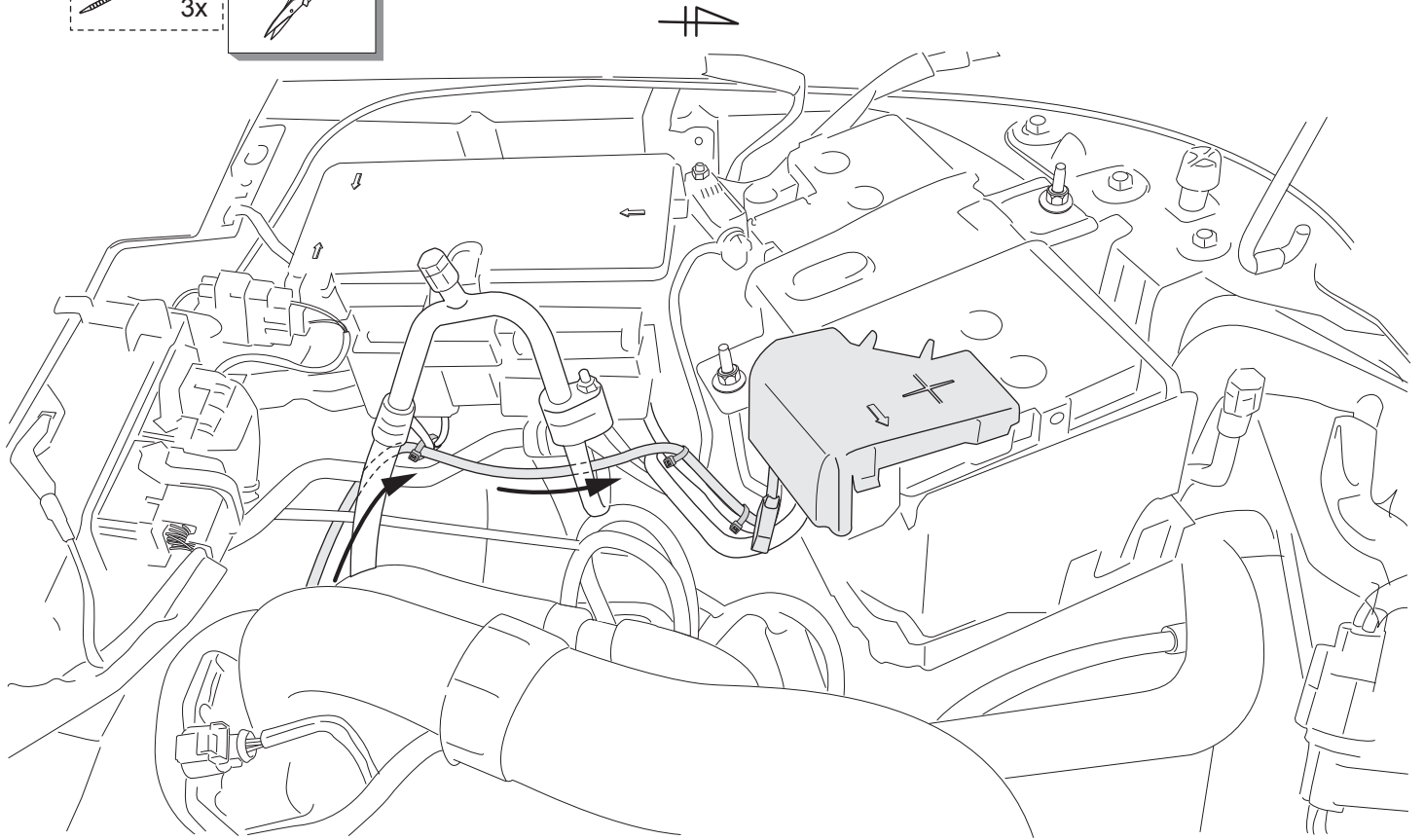
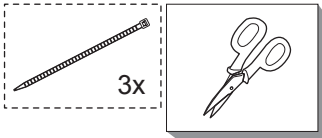
30.2



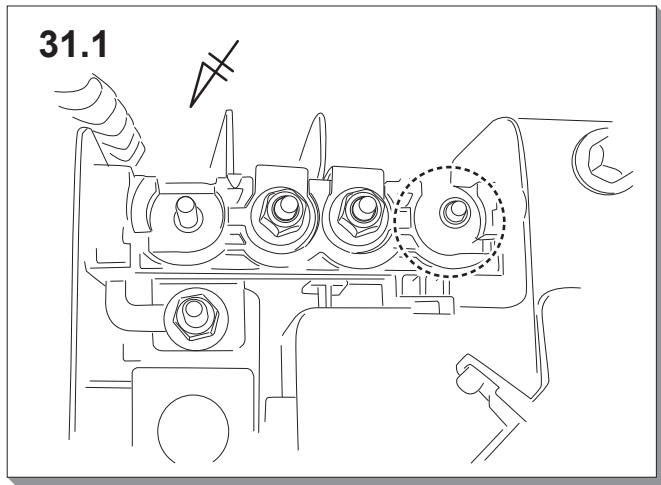
S22 31929*00

Instruction procedure

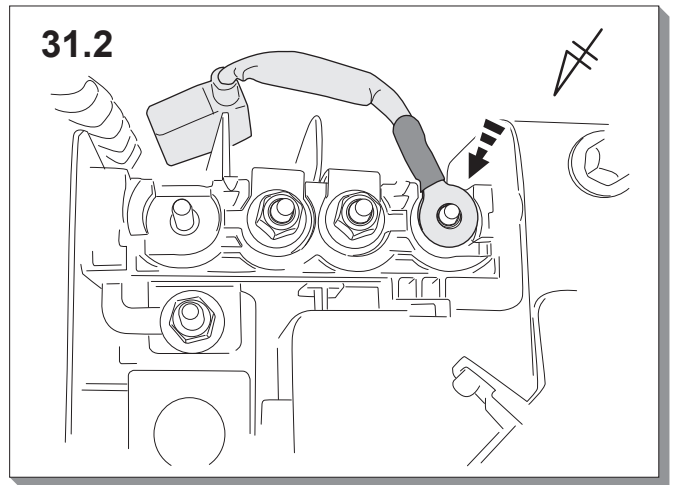
31



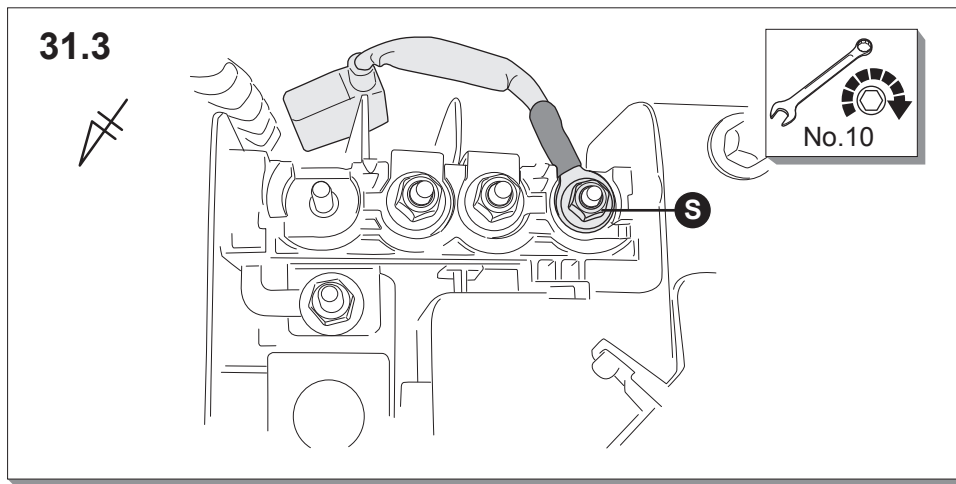
31.1



31.2



31.3

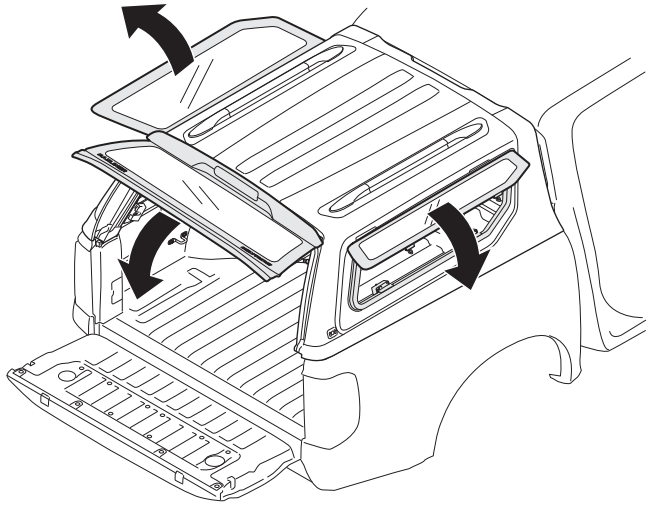


S22 31929*00

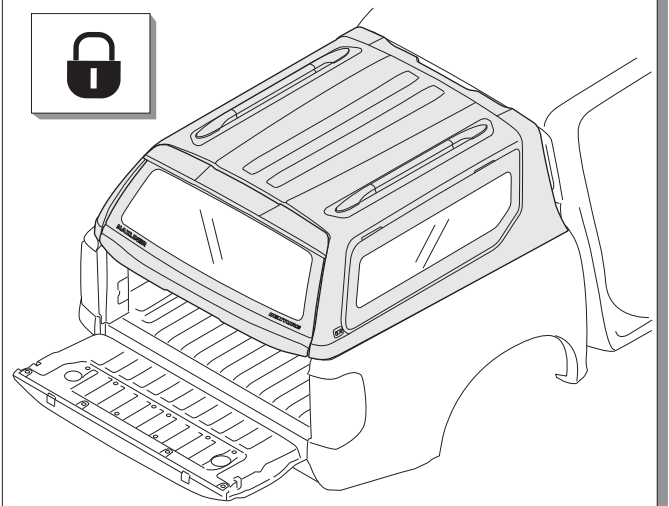
Instruction procedure

32

32.1

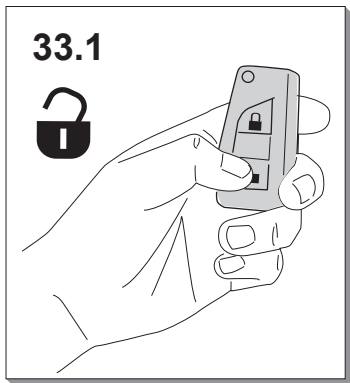


32.2

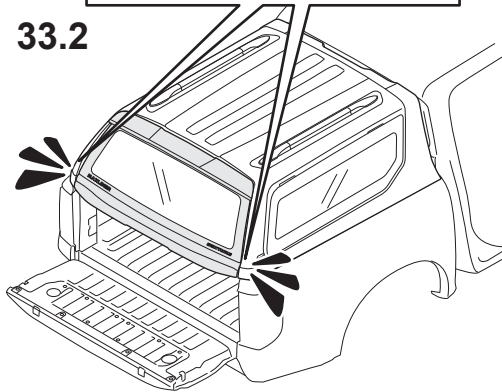
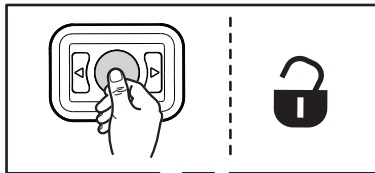


33

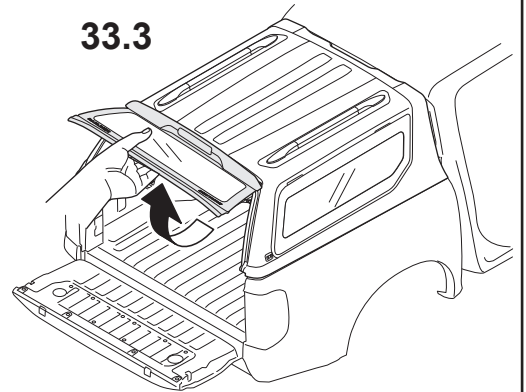
33.1



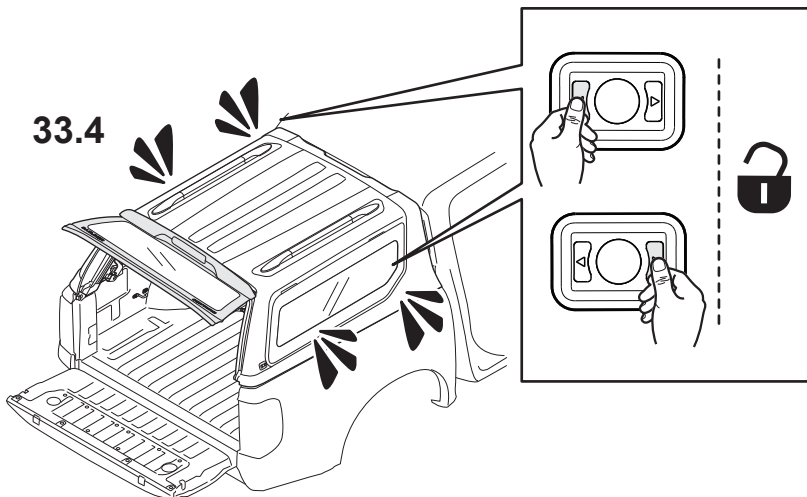
33.2



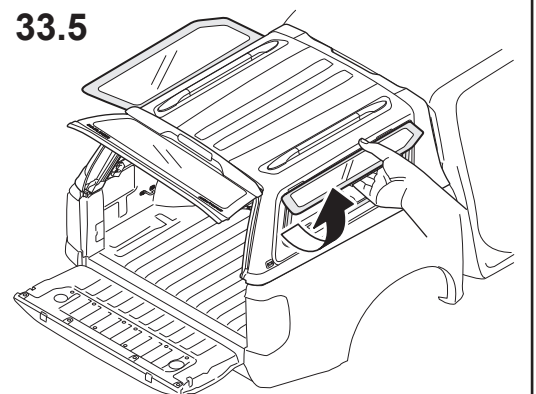
33.3



33.4



33.5

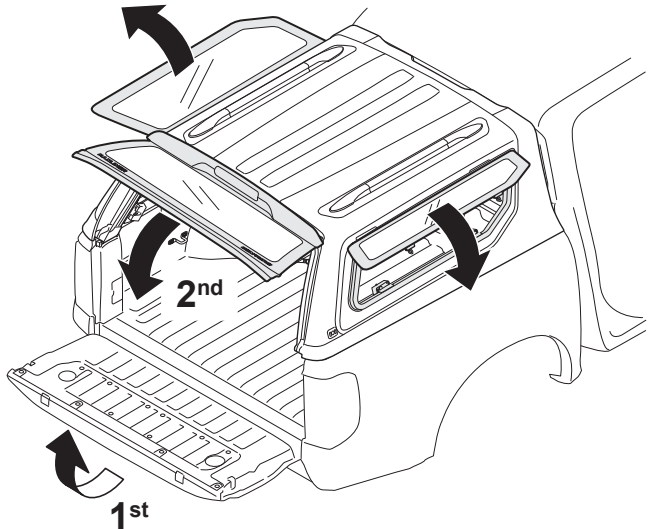


S22 31929*00

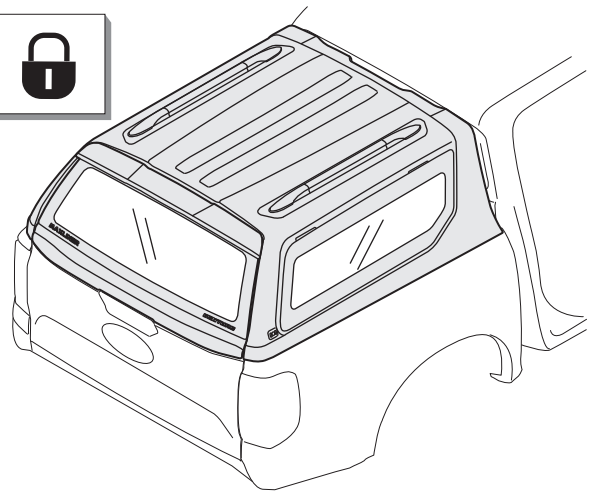
Instruction procedure

34

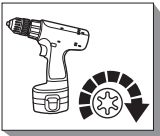
34.1



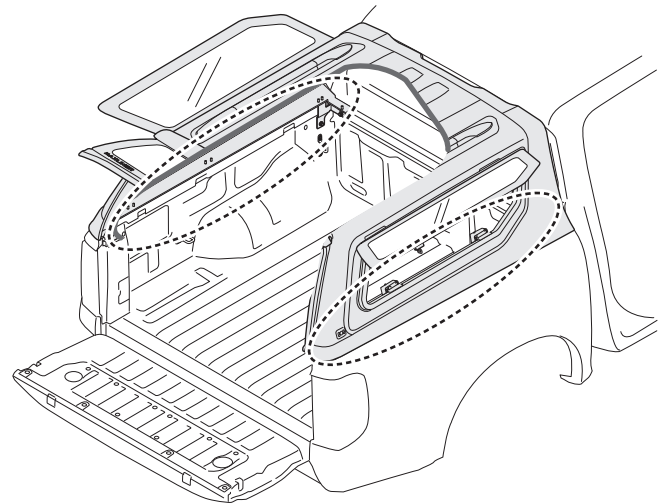
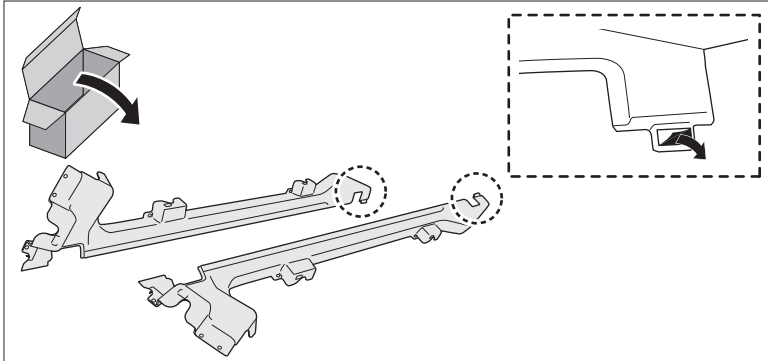
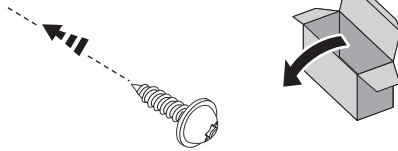
34.2



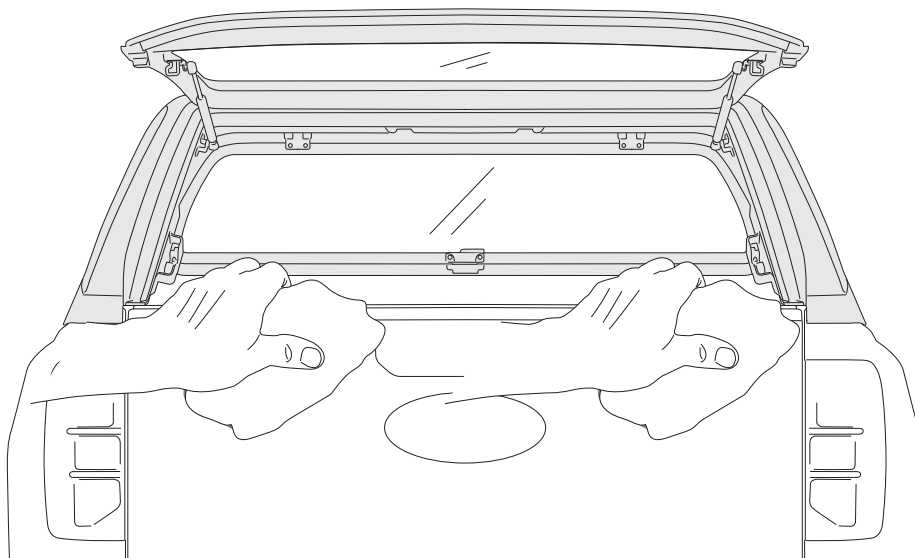
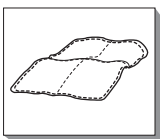
35



(14x)



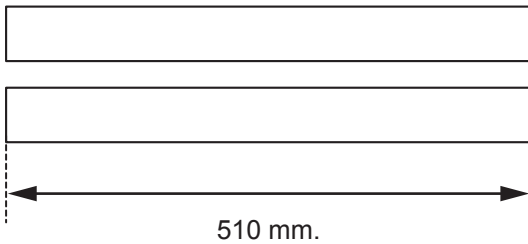
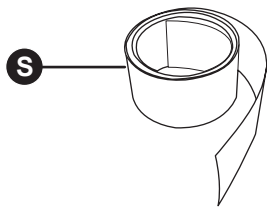
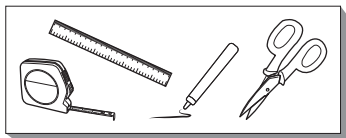
36



S22 31929*00

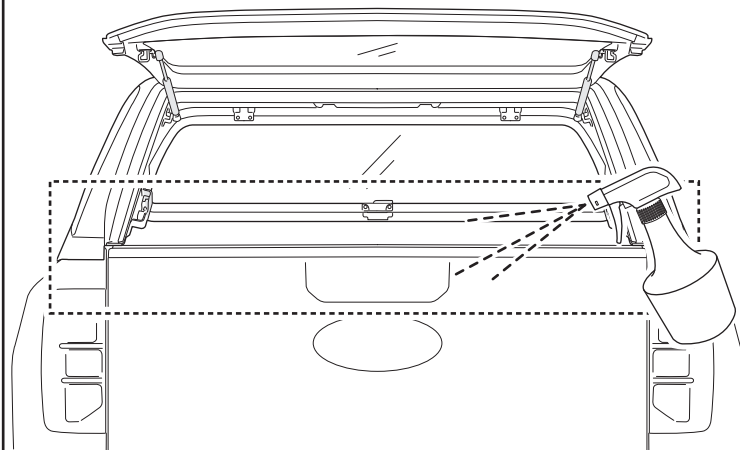
Instruction procedure

37

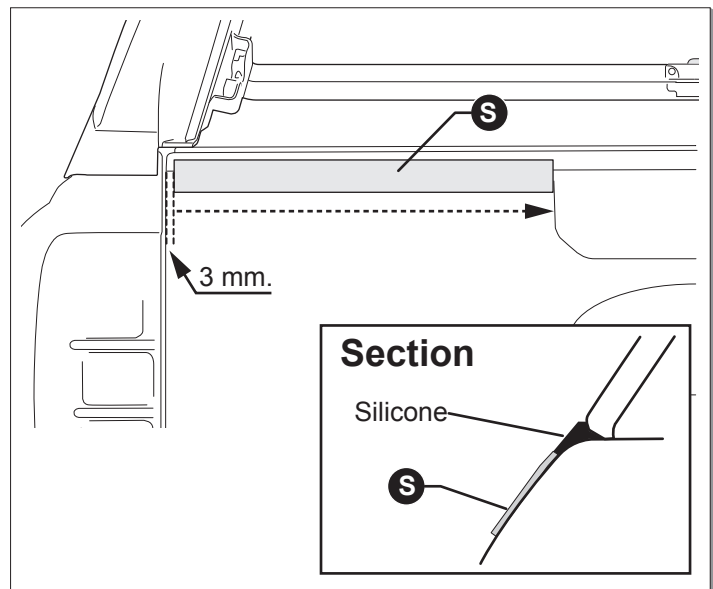
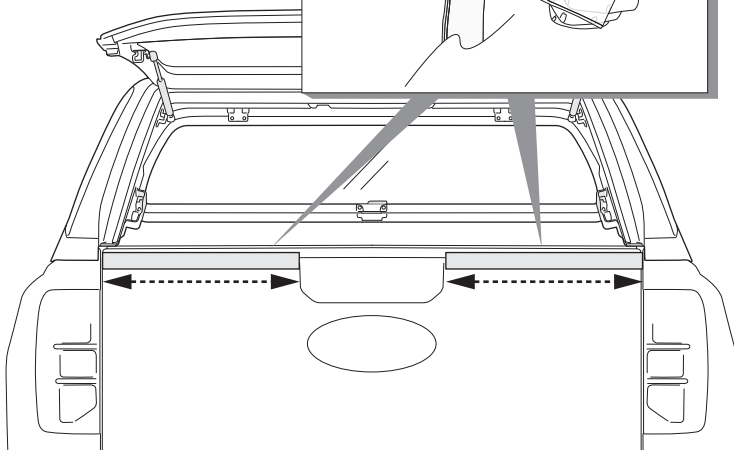
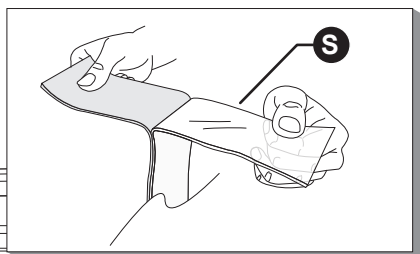
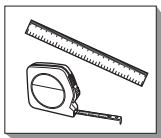


510 mm.

38



39



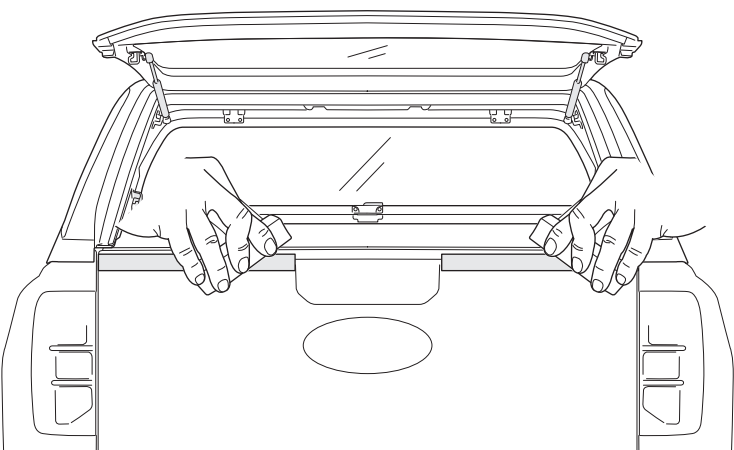
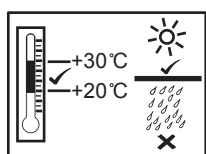
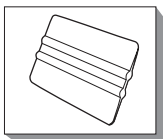
3 mm.

Section

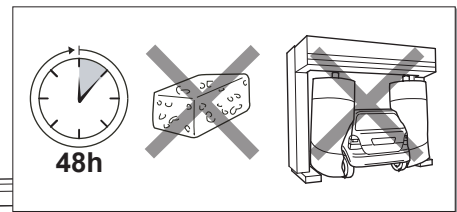
Silicone

S

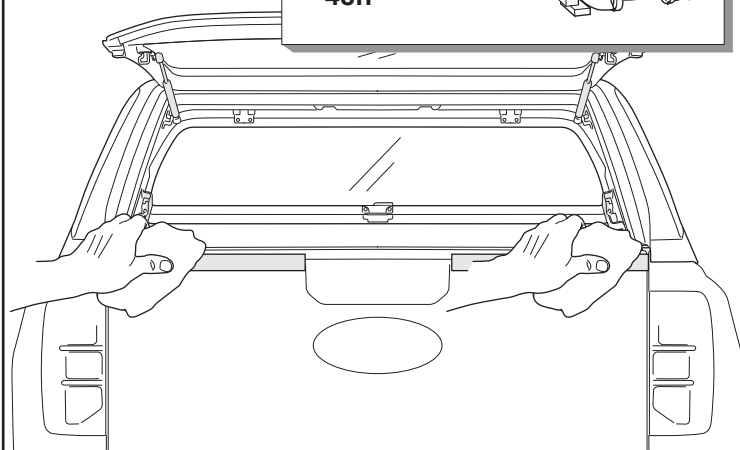
40



41



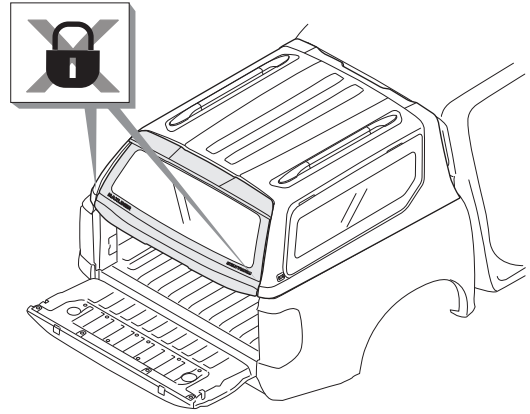
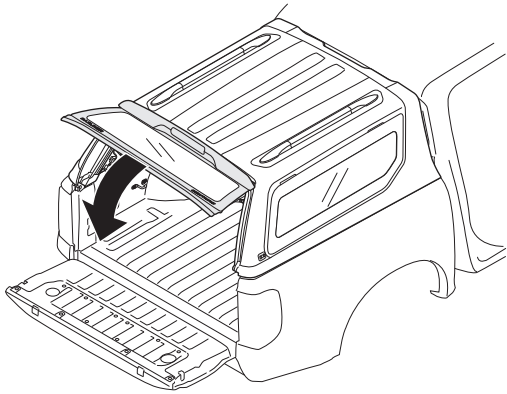
48h



S22 31929*00

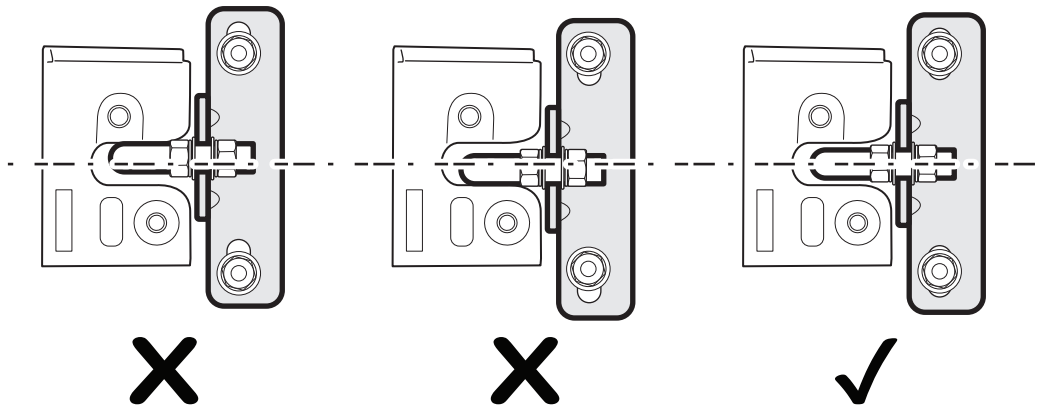
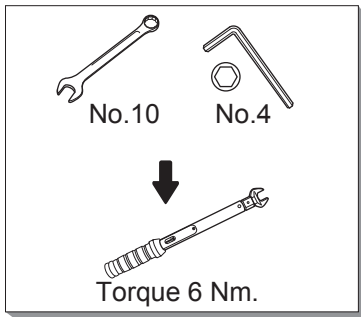
※ Adjustment

※ Latch & Striker rear

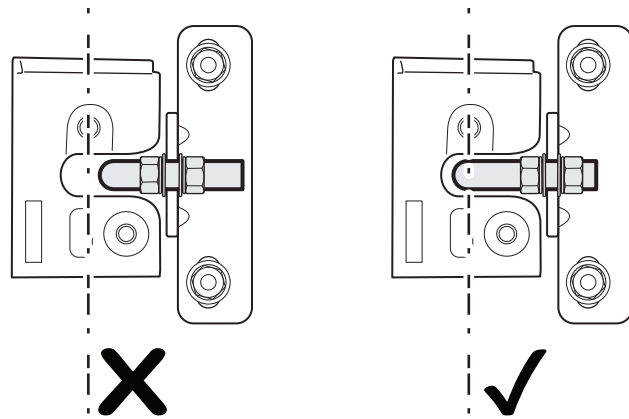
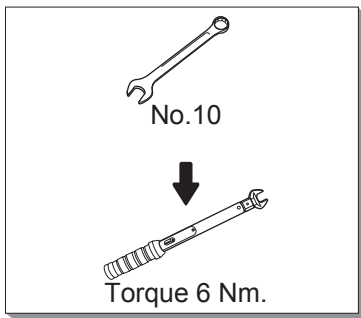


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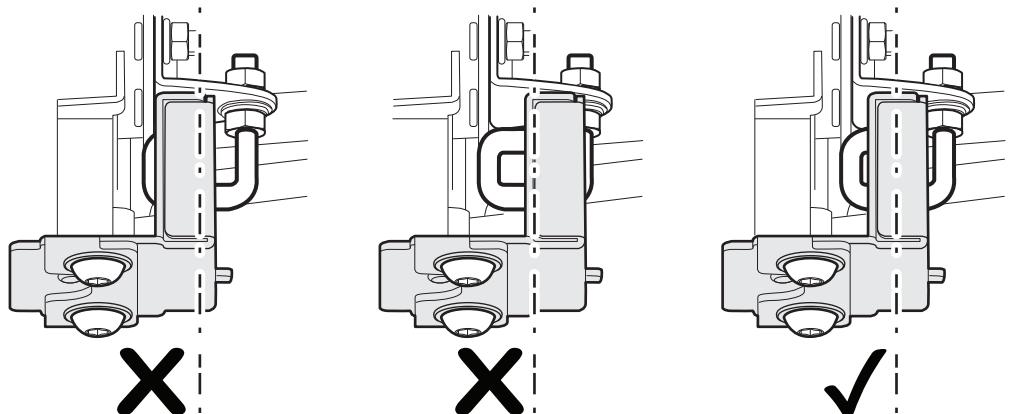
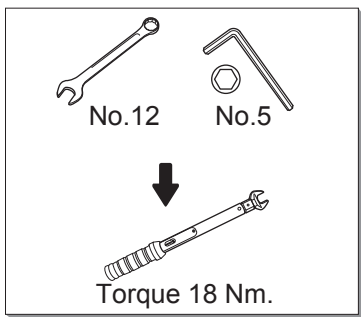
CASE 1 LH/RH



CASE 2 LH/RH



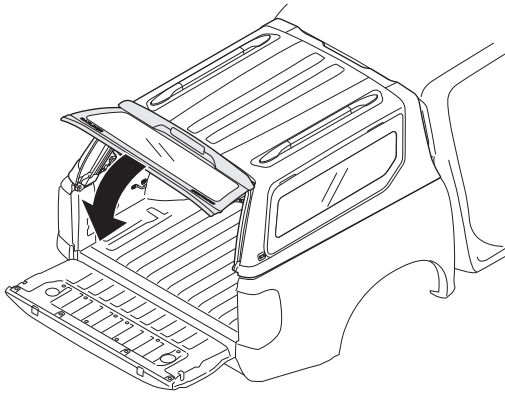
CASE 3 LH/RH



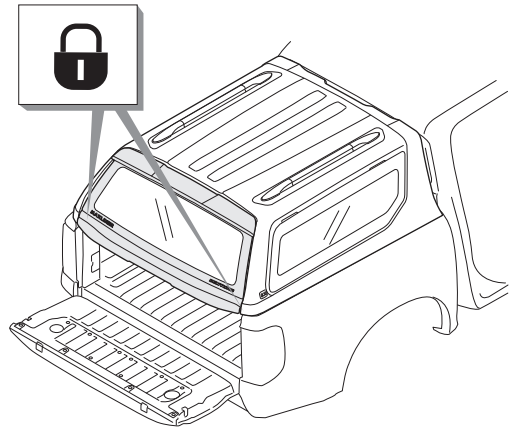
S22 31929*00

※ Latch & Stryker rear

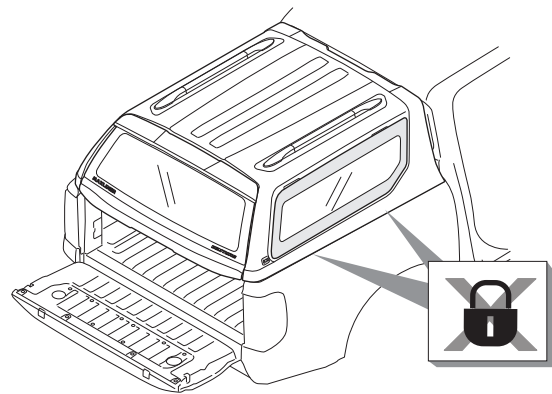
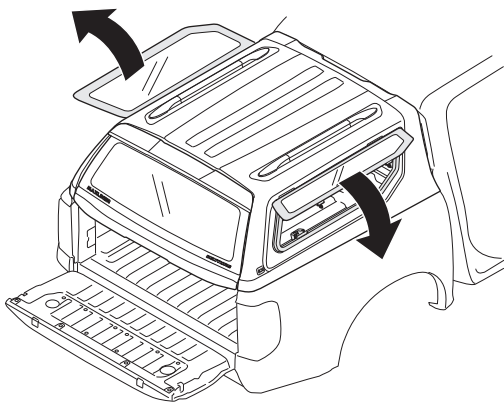
1.2



1.3



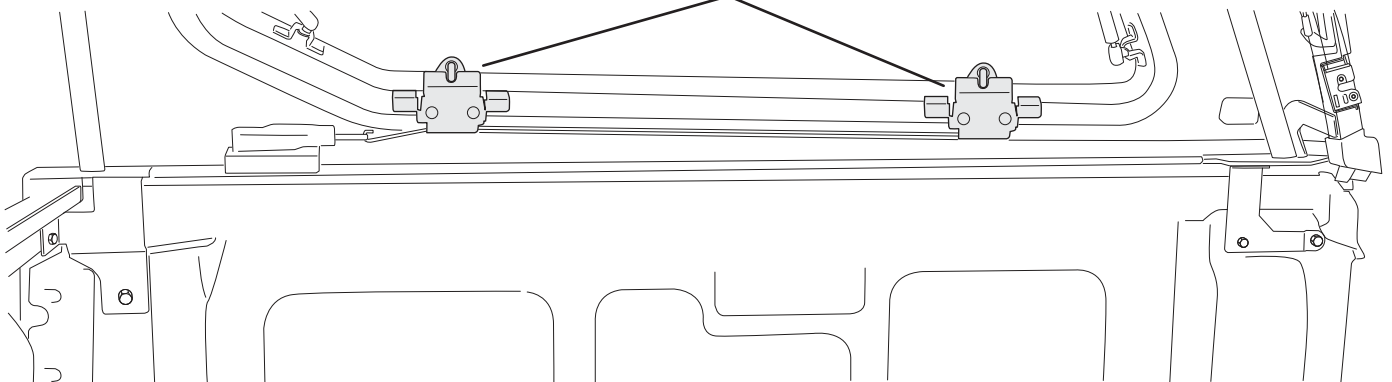
※ Latch & Stryker side



S22 31929*00

4

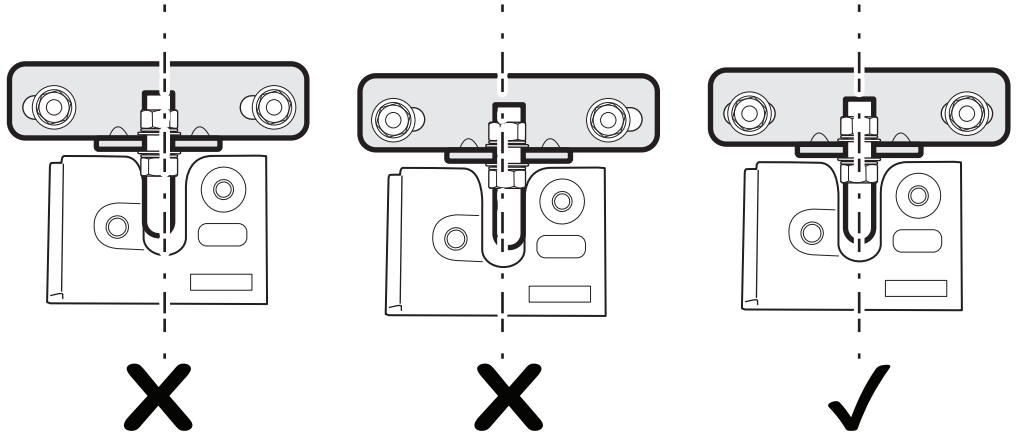
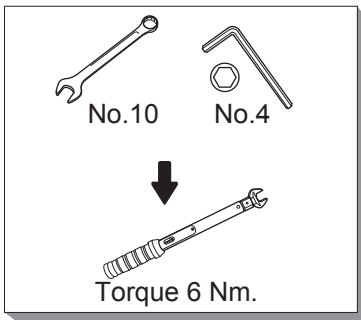
Latch & Striker side



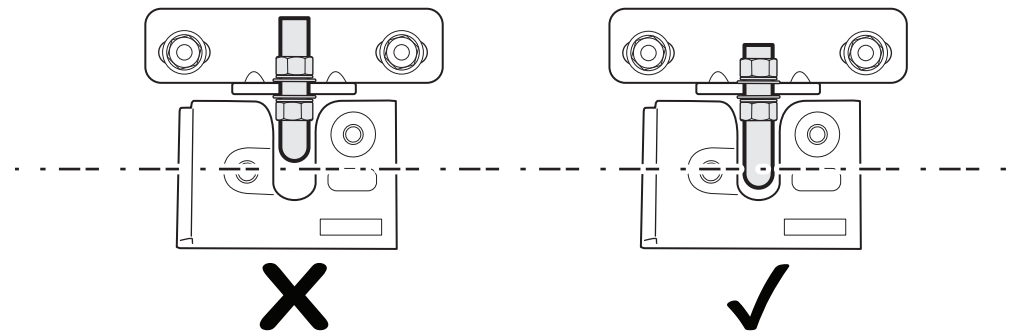
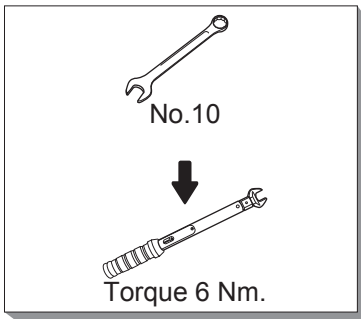
※ Latch & Stryker side

1.1

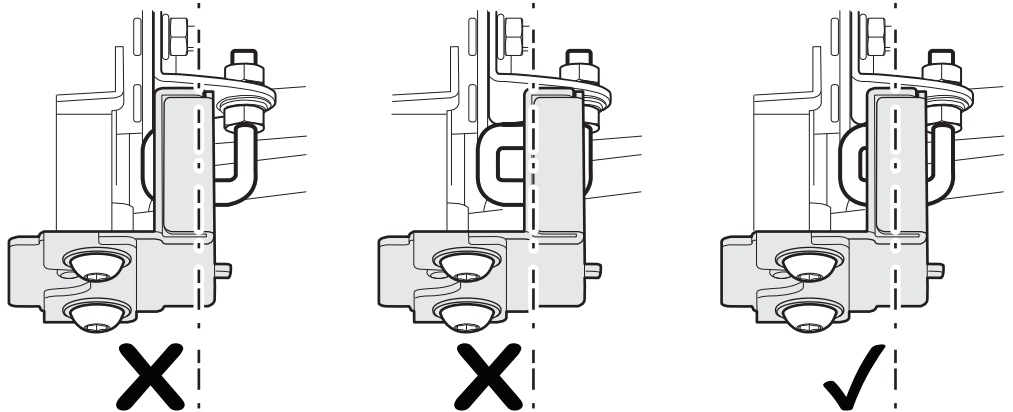
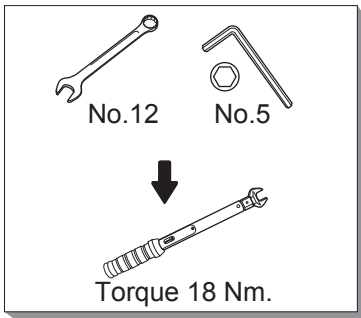
CASE 1 LH/RH



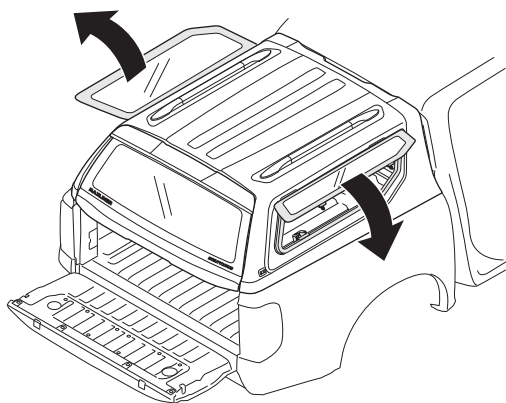
CASE 2 LH/RH



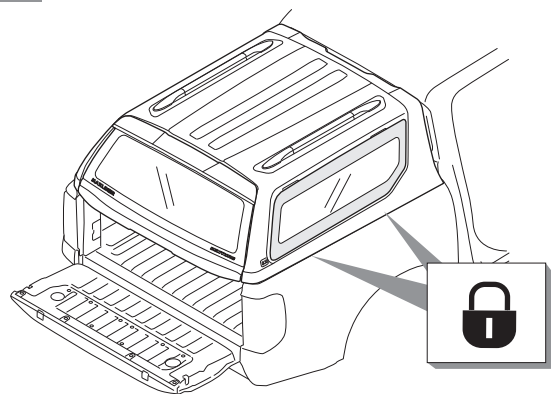
CASE 3 LH/RH



1.2

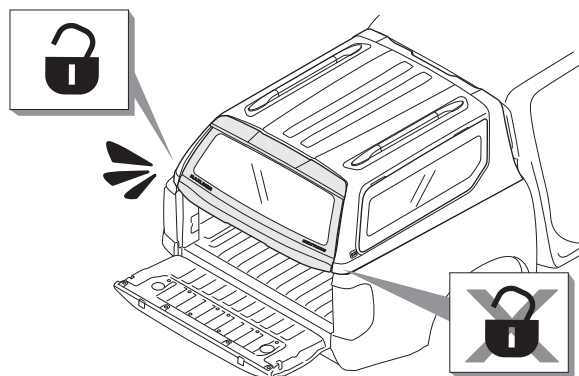
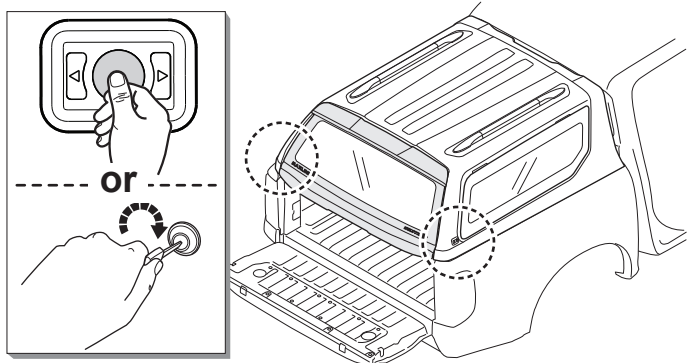


1.3

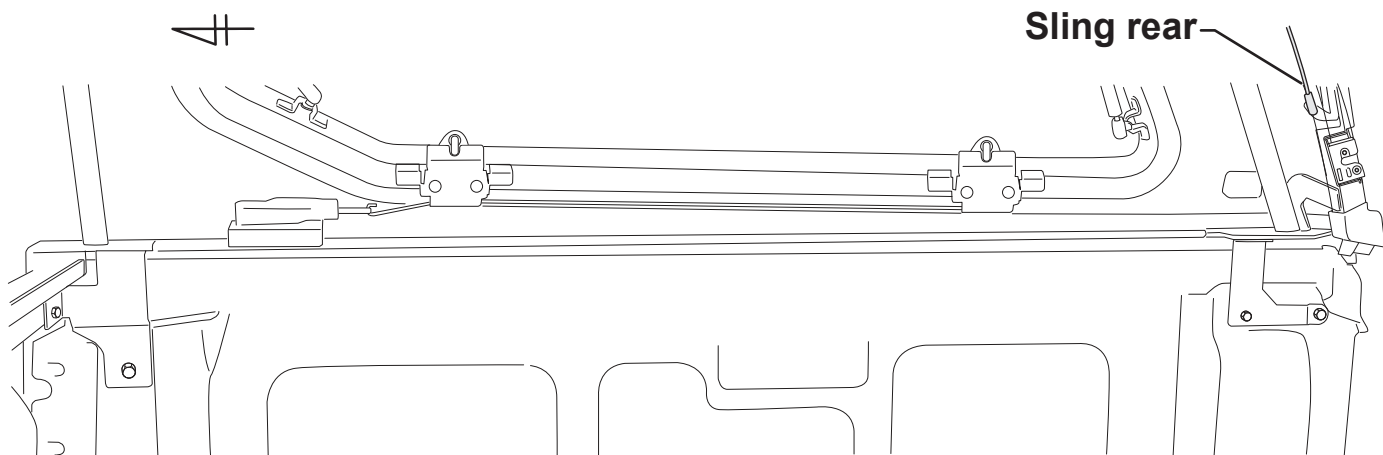


S22 31929*00

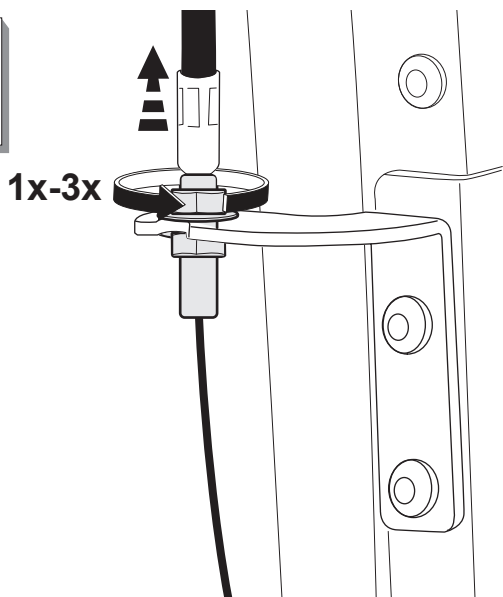
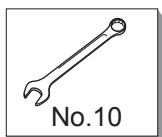
※ Sling rear



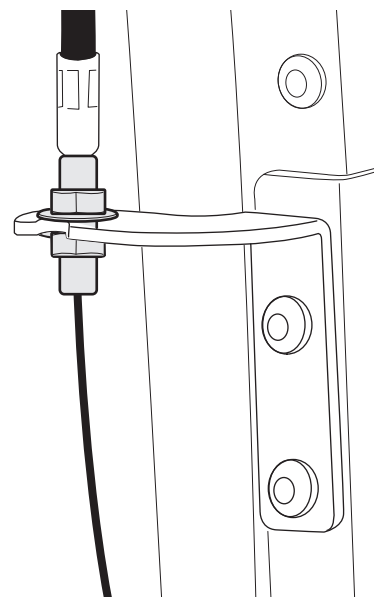
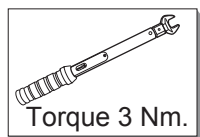
S22 31929*00



1.1

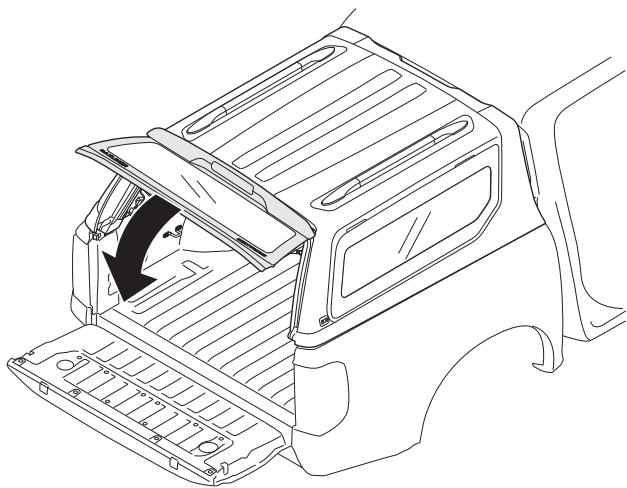


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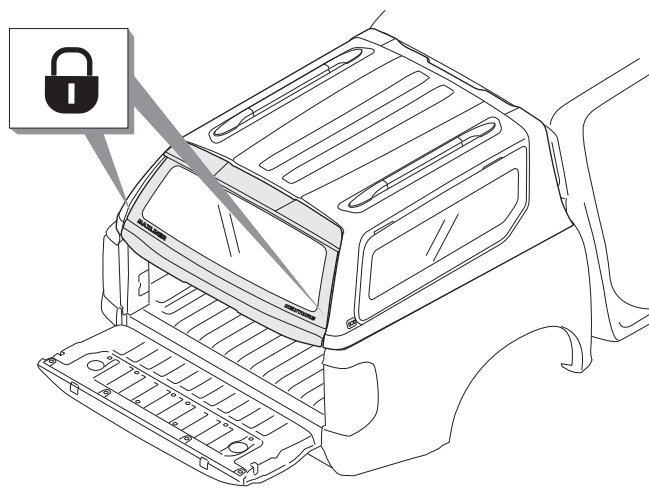


※ Sling rear

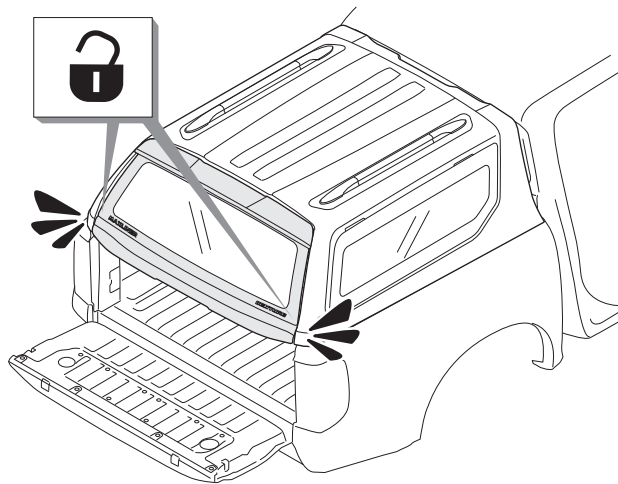
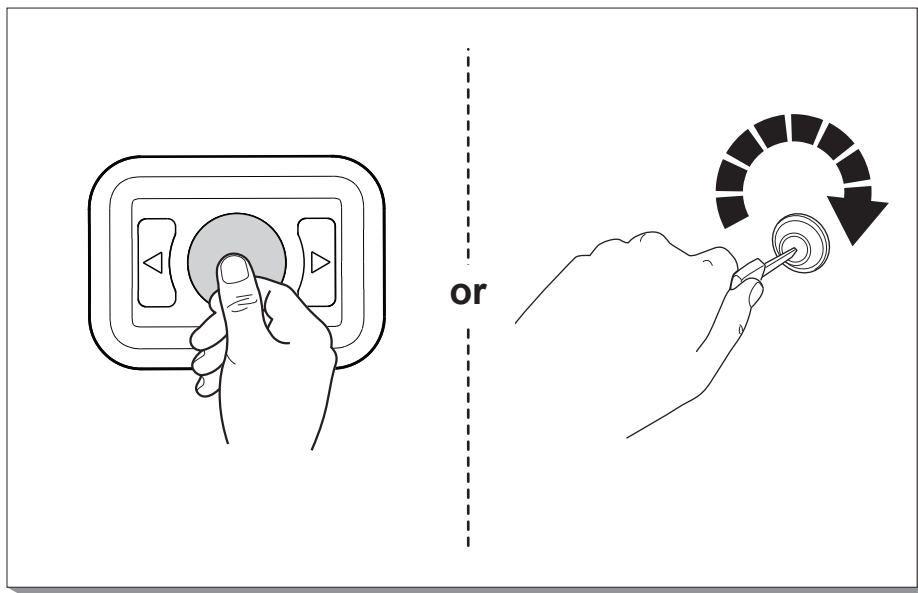
1.3



1.4

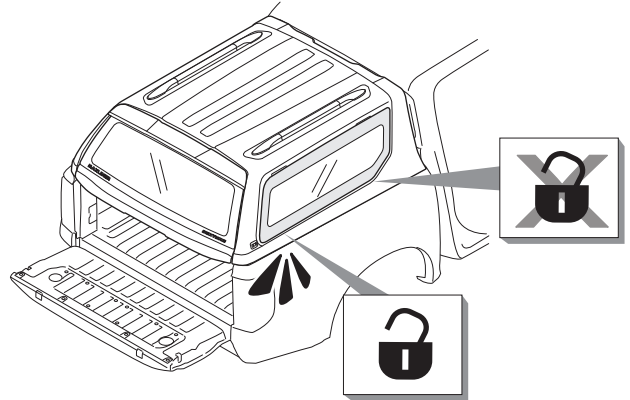
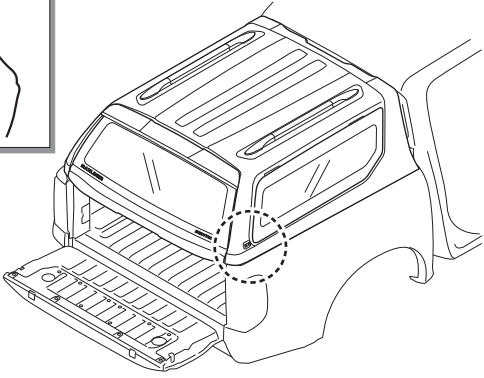
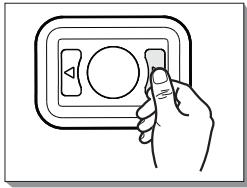


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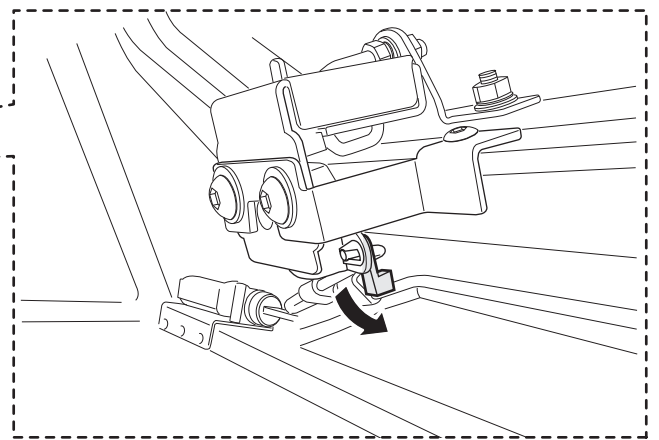
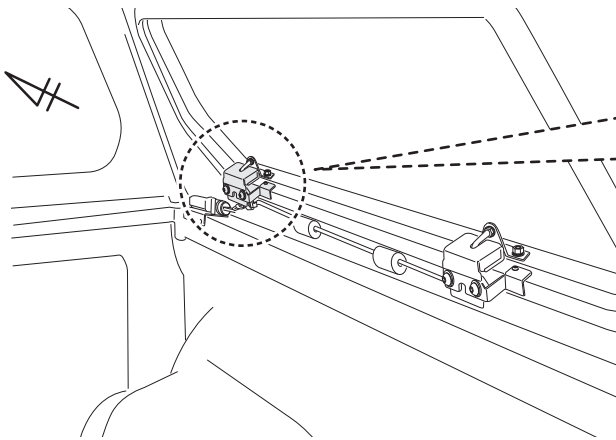


S22 31929*00

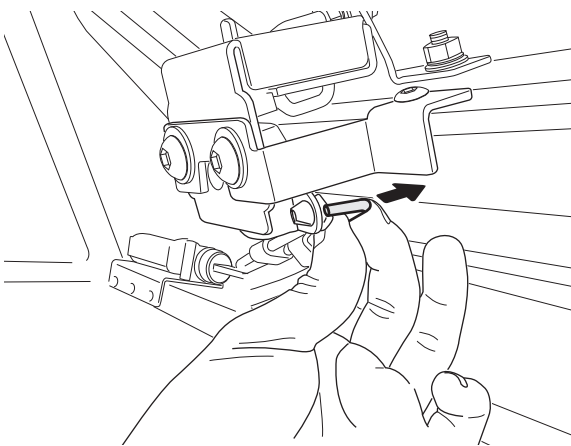
※ Side rod



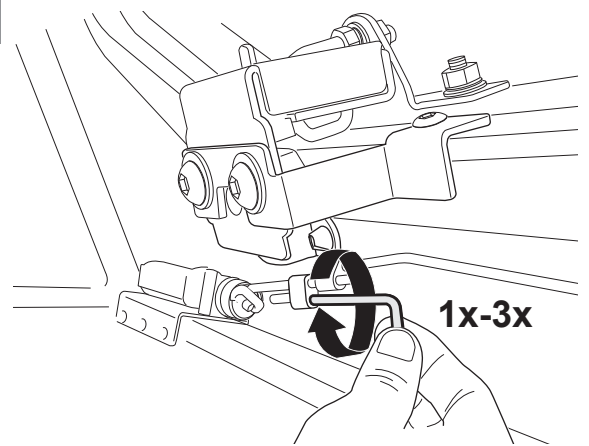
1.1



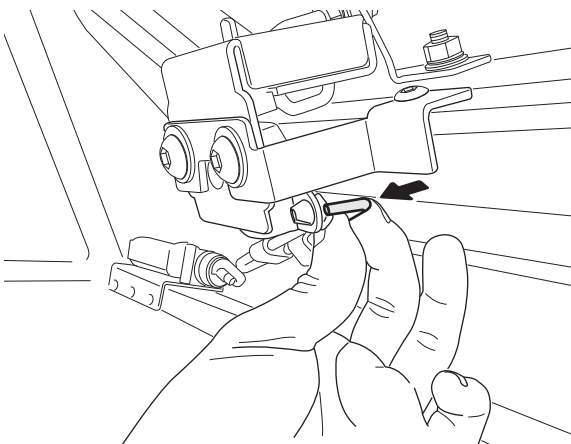
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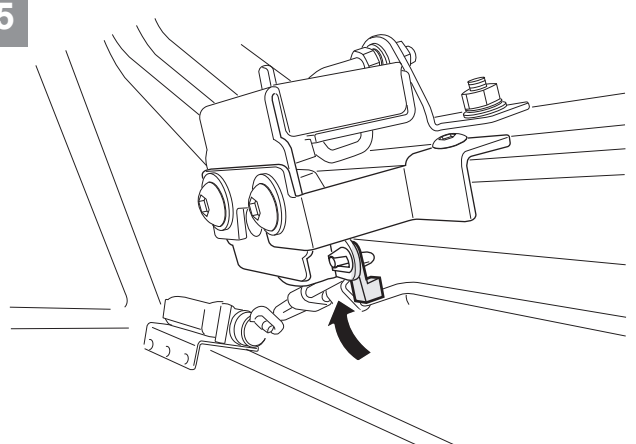
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1.4



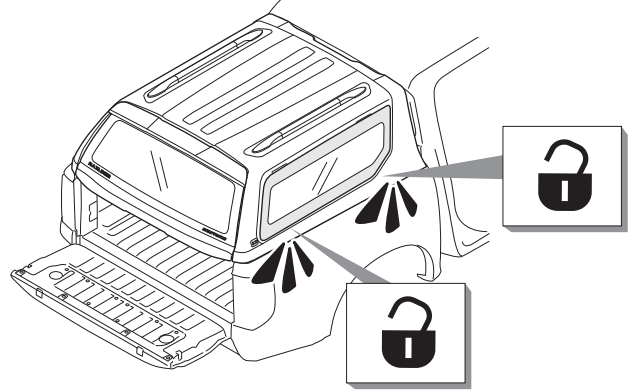
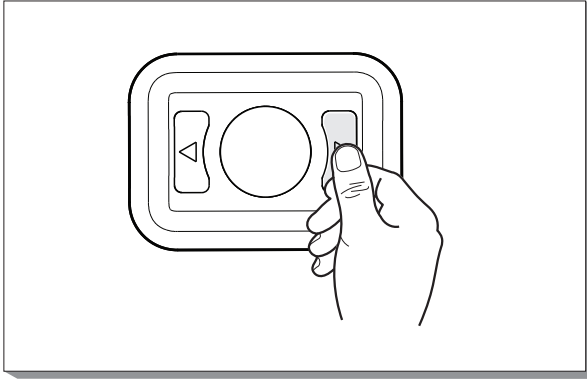
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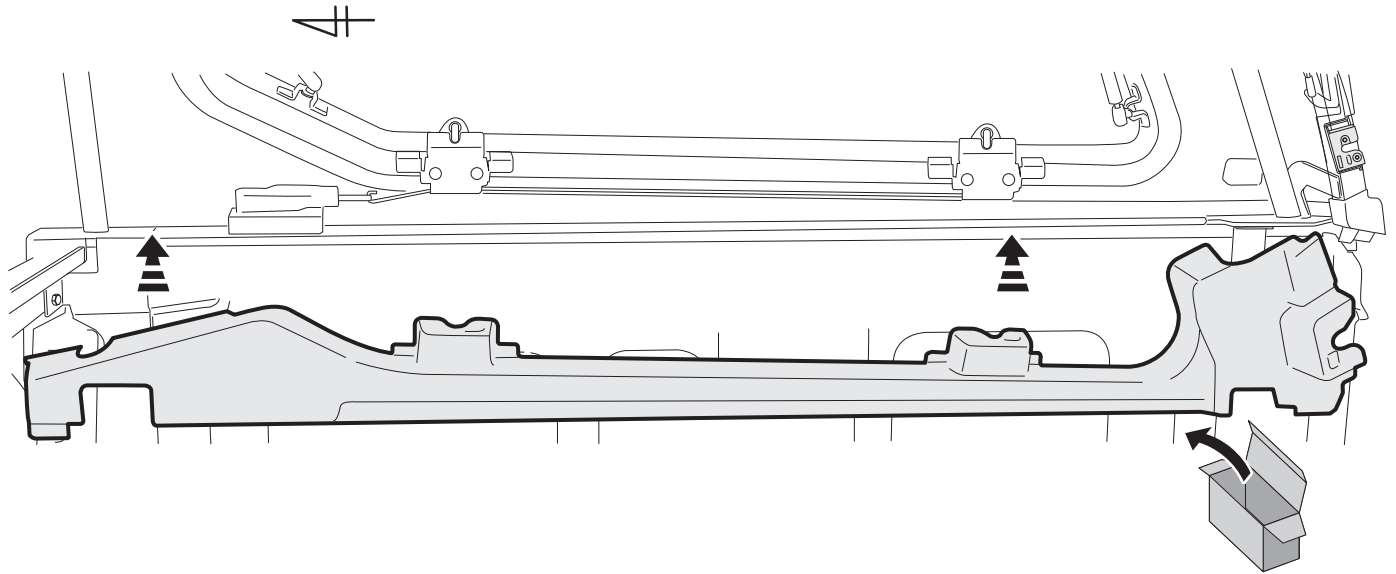
S22 31929*00

※ Side rod

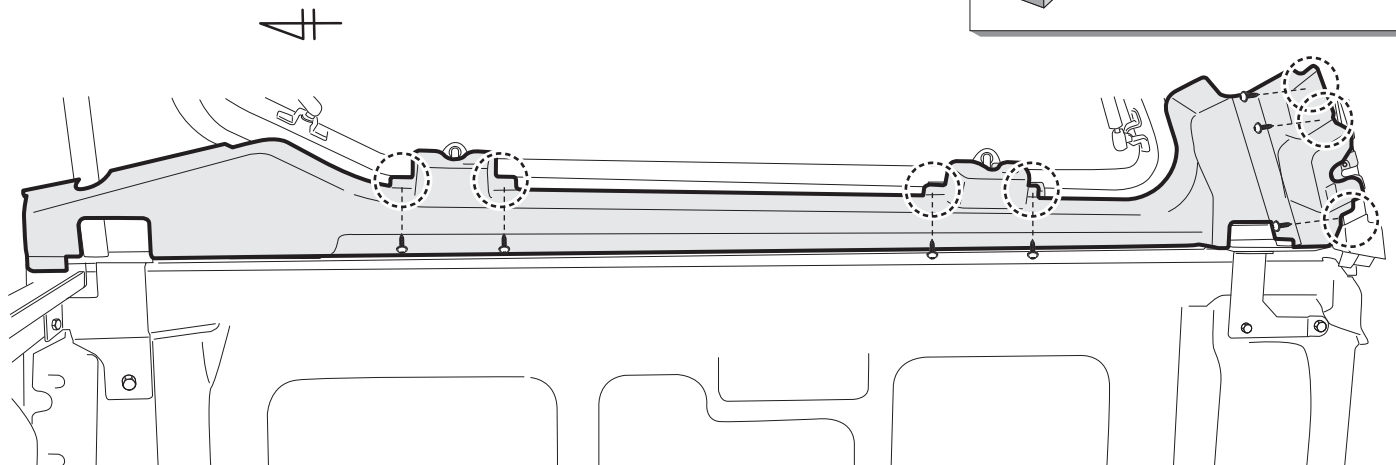
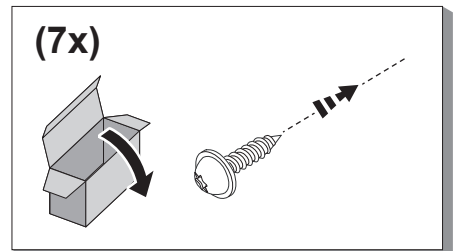
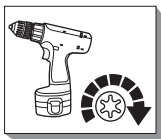
1.6



3 LH/RH

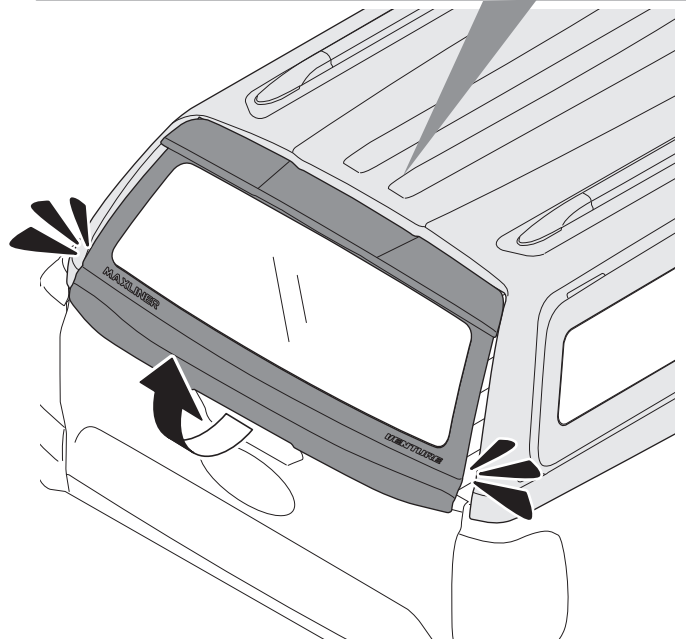
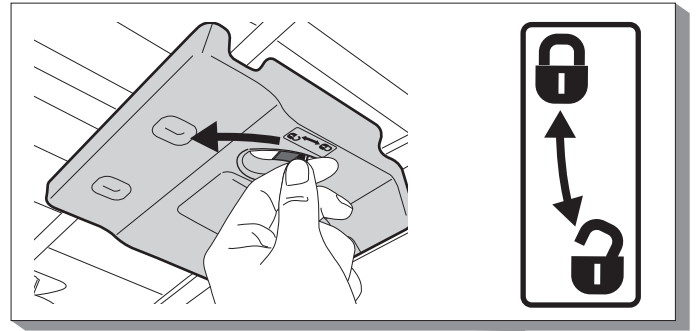


4 LH/RH

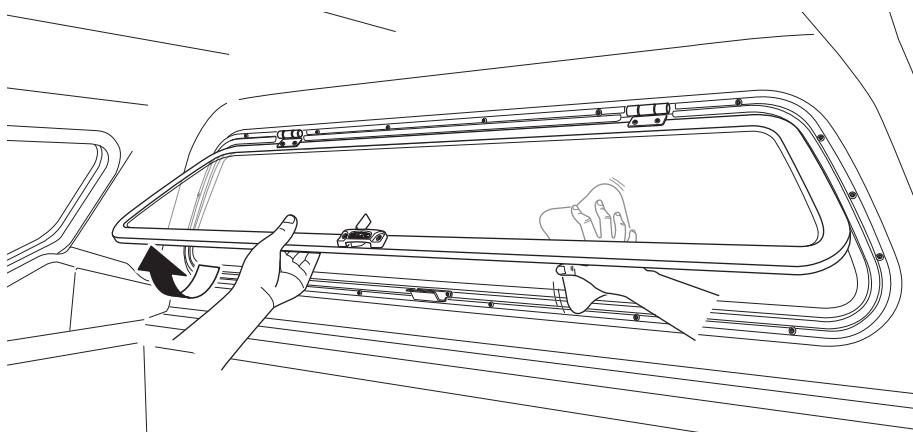
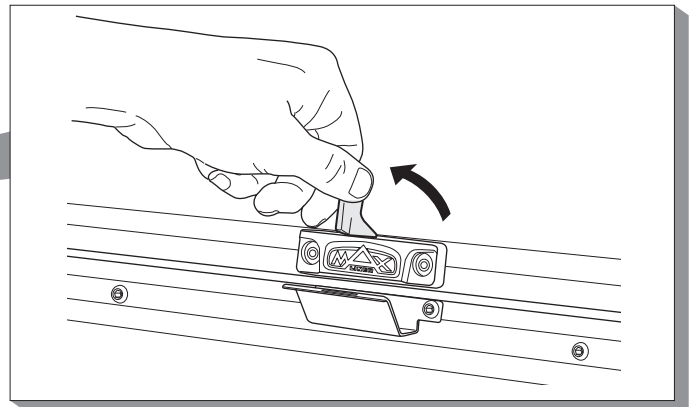
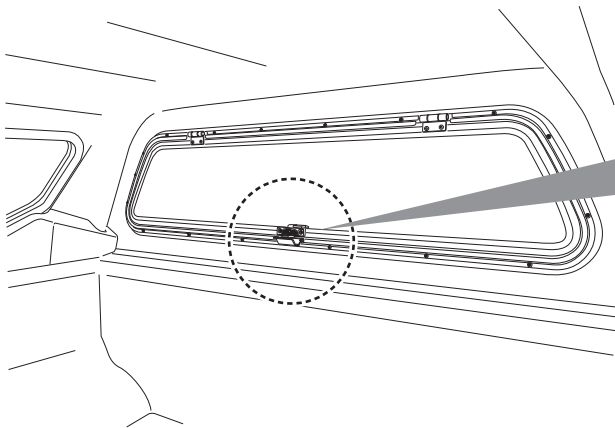


S22 31929*00

※ Release inside

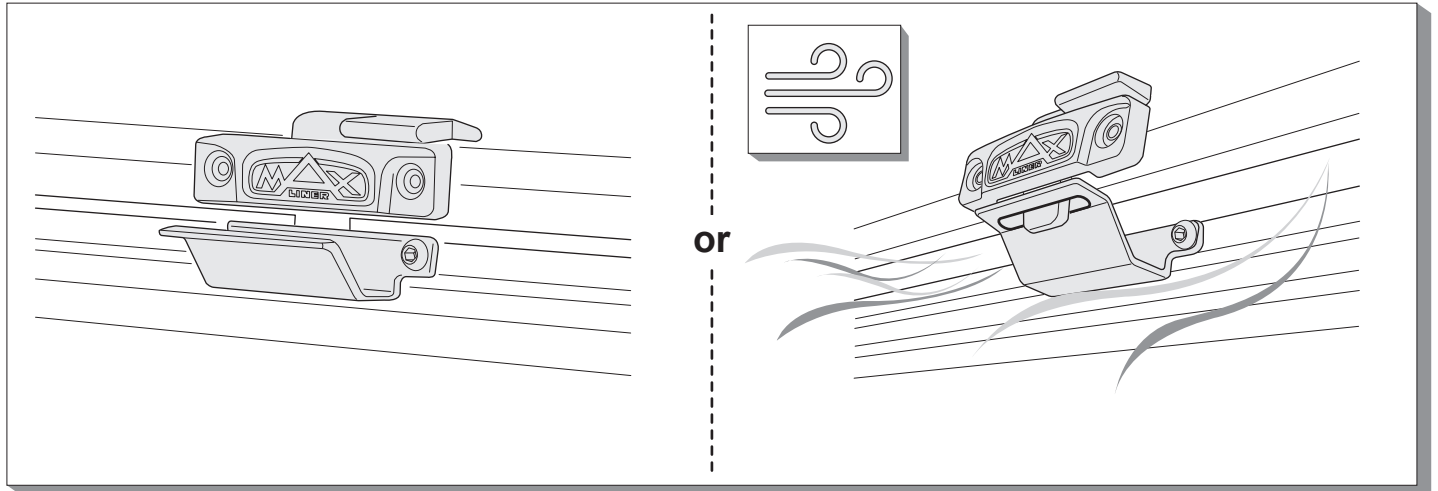
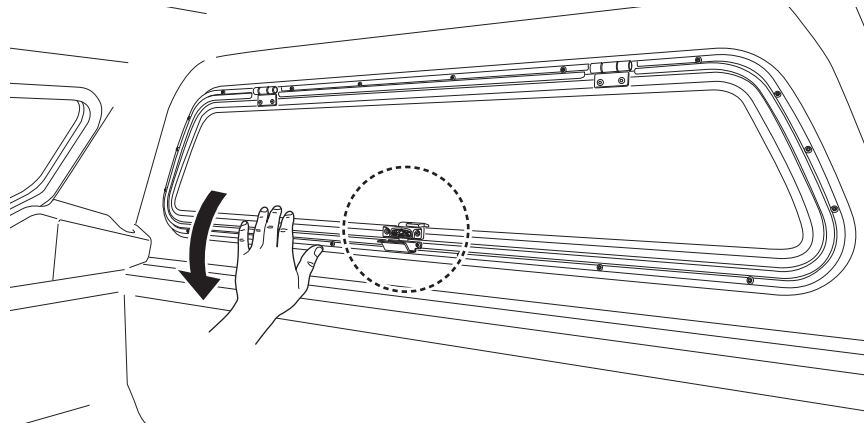


※ Front window guidelines



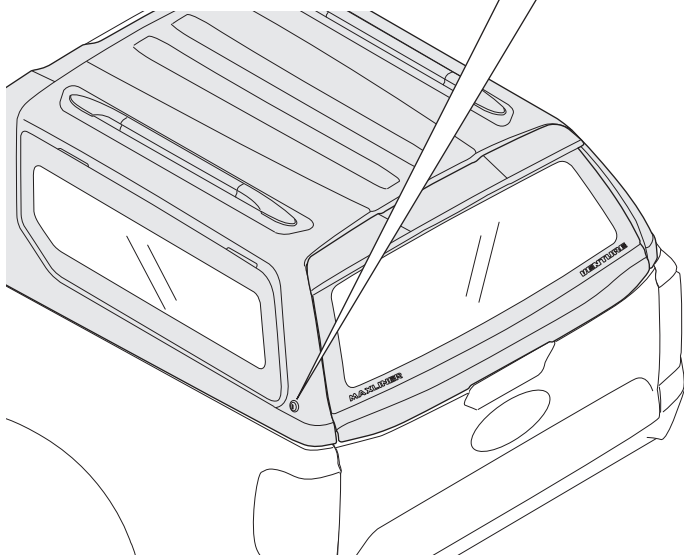
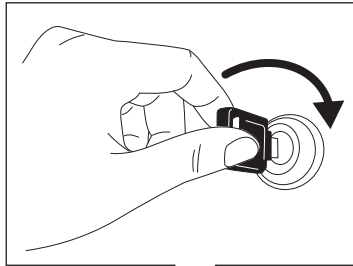
S22 31929*00

※ Front window guidelines

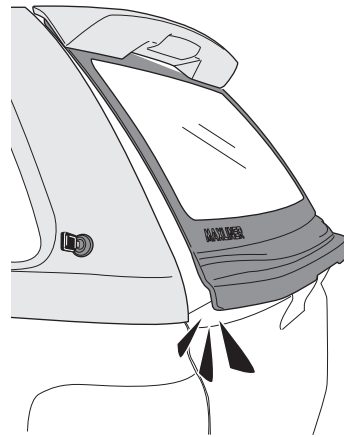


S22 31929*00

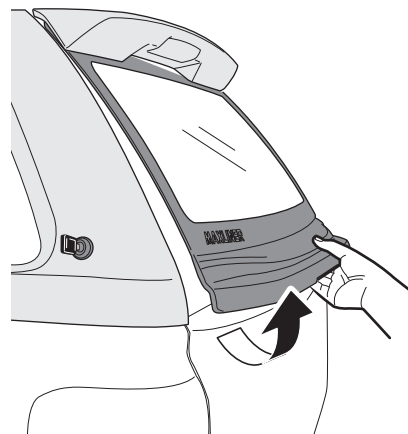
LOW



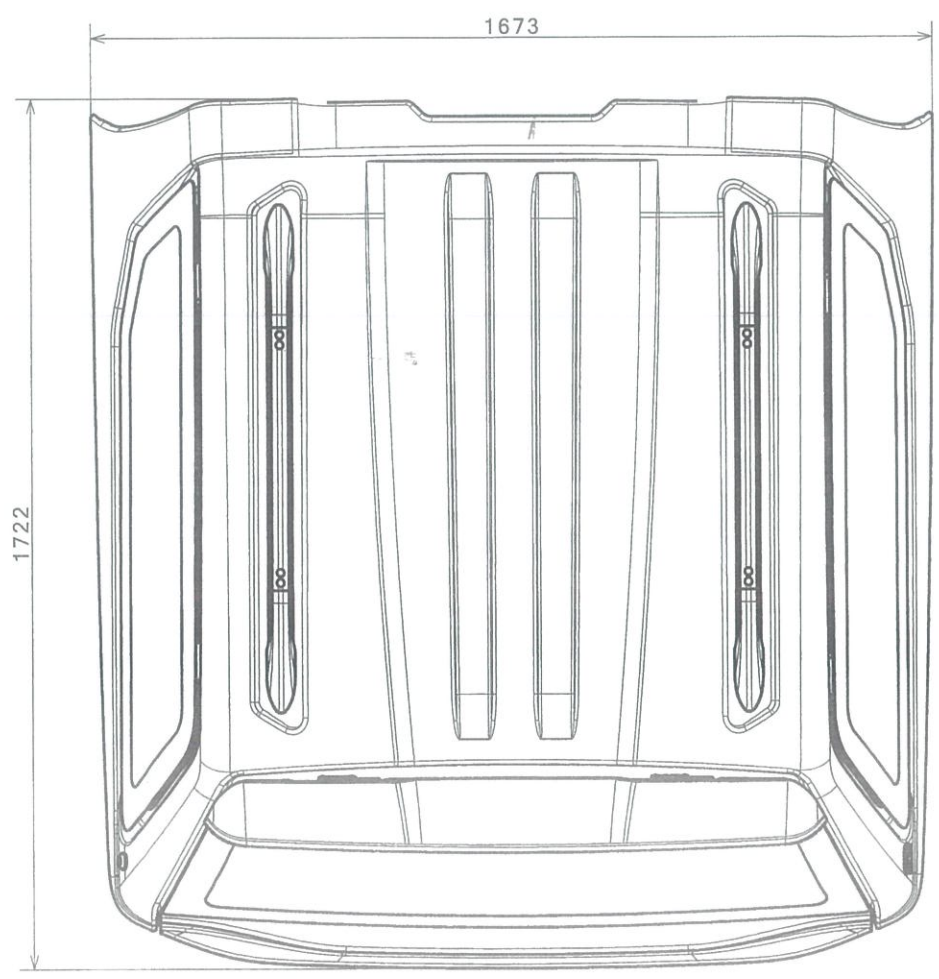
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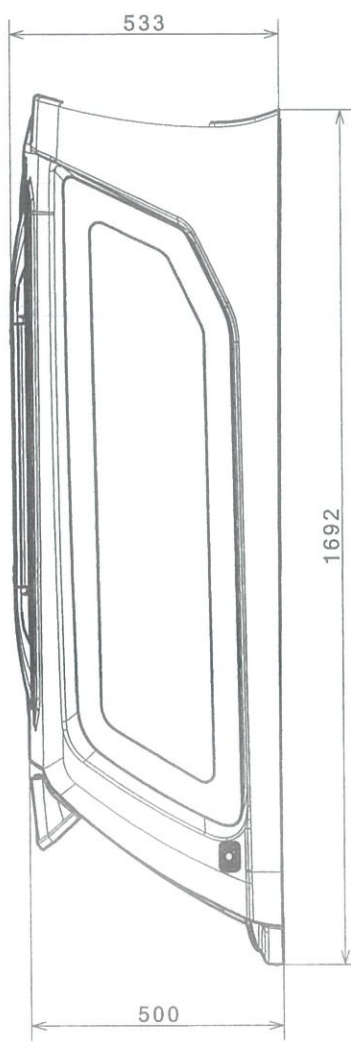
2nd



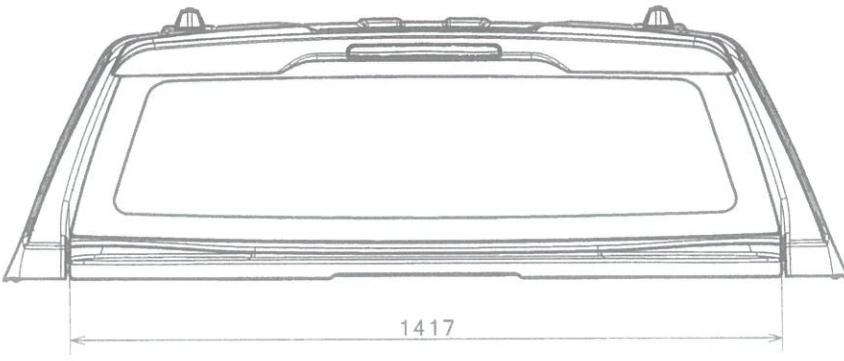
REV.	ZONE	MODIFICATION	DATE	MODIFIED BY
		ISSUE NEW DRAWING	11 / 01 / 23	S.Surachai



Front view



Right view





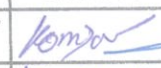

Bottom view

NOTE

- 1. REMOVE ALL BURRS AND SHARP EDGES OF THE ABS SHELL.
- 2. TOLERANCE FOR ALL DIMENSION , EXCEPT OTHERWISE SPECIFIED AS TABLE.

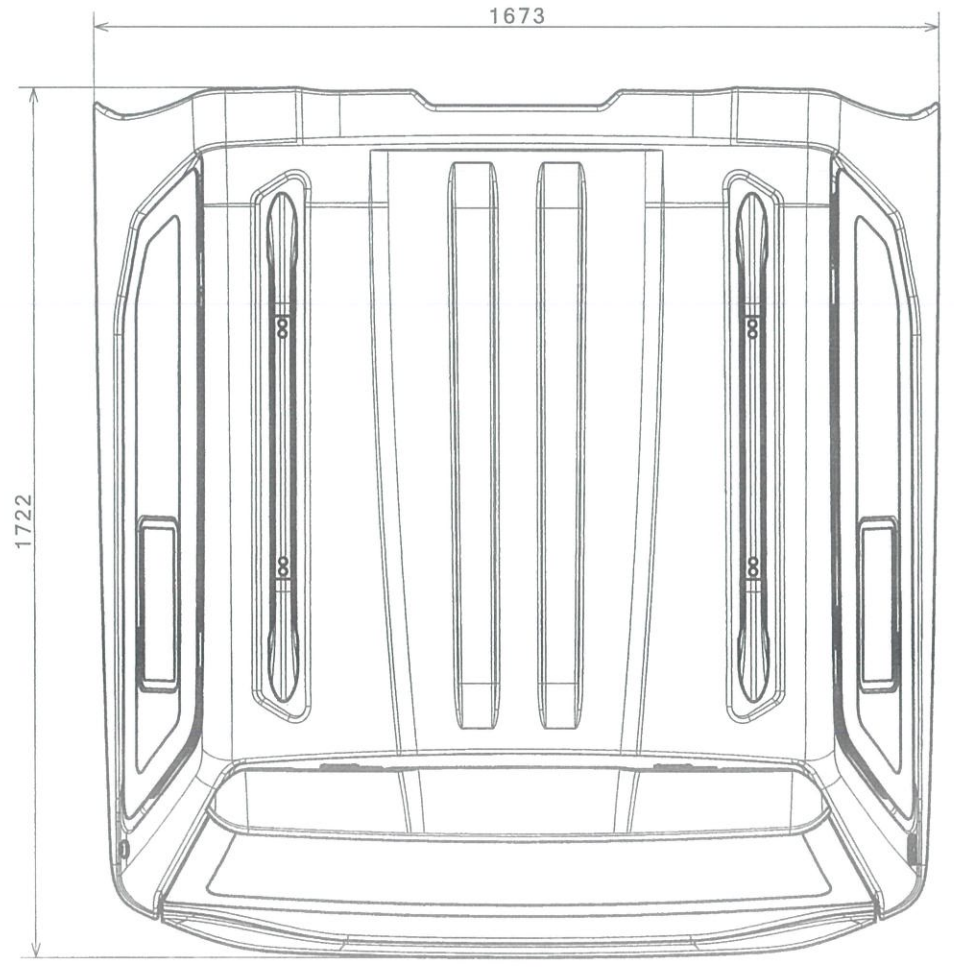
DIMENSION	0-50	51-100	101-500	501-1000	1001 UP
TOLERANCE	±1.0	±2.0	±3.0	±4.0	±5.0

3. REFERENCE TO DWG ASSEMBLY No. A04-0069

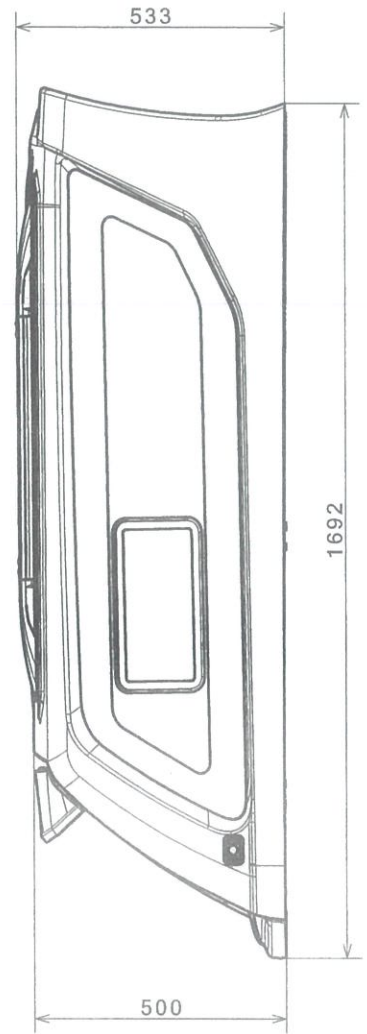
 VANDAPAC CO.,LTD. บริษัท แวนต้าแพค จำกัด						
MATERIAL		MODEL NAME : FORD RANGER DBC 2022				
-		PART NAME : VENTURE CANOPY LEISURE LIFT UP WINDOW				
PROJECTION METHOD	SIZE	DWG No. : B04-0051		ACC No. : SEE ASSEMBLY DWG.		
		1673x1722x533		NOTI No. : T-D-2301-0007		
SCALE	WEIGHT	DESIGN BY :	DWG. BY :	CHK. BY :	CHK. BY :	APP. BY :
1 : 15	91.5 ± 1.5 Kg.		S.Surachai			
HEAT & SURFACE TREATMENT		/ /	11/01/23	12/01/23	12/01/23	12/11/23
-		CUSTOMER : VANDAPAC			A3	SHEET 1/1

S22 31929*00

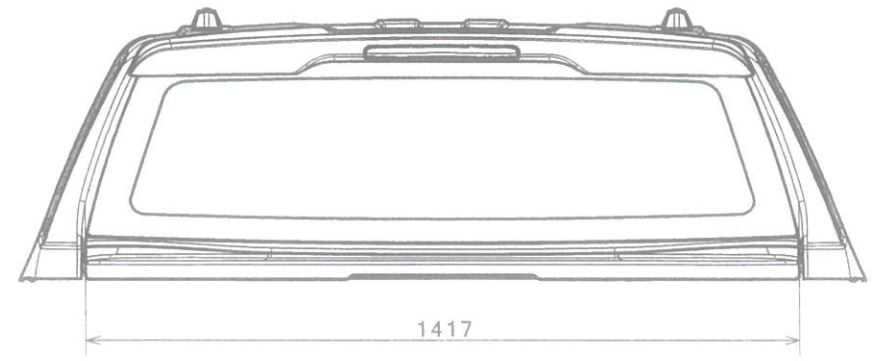
REV.	ZONE	MODIFICATION	DATE	MODIFIED BY
		ISSUE NEW DRAWING	11 / 01 / 23	S.Surachai



Front view




Right view



Bottom view

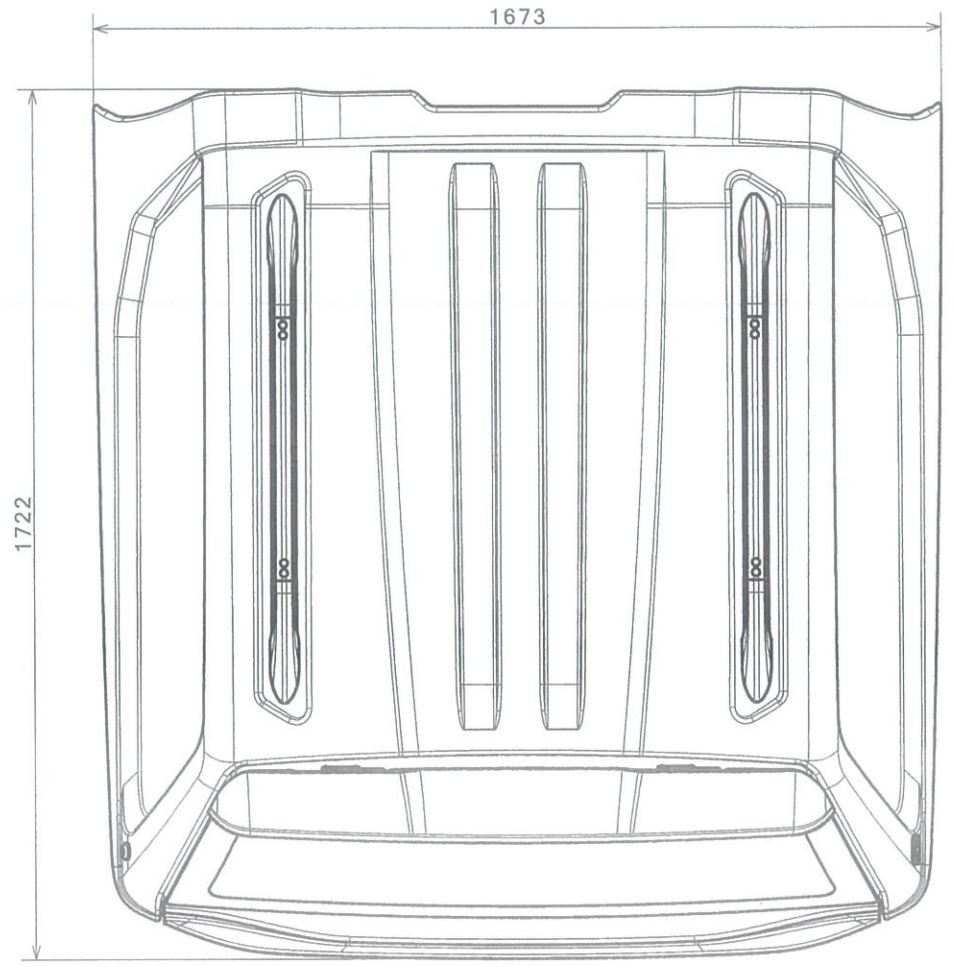
NOTE

1. REMOVE ALL BURRS AND SHARP EDGES OF THE ABS SHELL.
 2. TOLERANCE FOR ALL DIMENSION , EXCEPT OTHERWISE SPECIFIED AS TABLE.
- | DIMENSION | 0-50 | 51-100 | 101-500 | 501-1000 | 1001 UP |
|-----------|------|--------|---------|----------|---------|
| TOLERANCE | ±1.0 | ±2.0 | ±3.0 | ±4.0 | ±5.0 |
3. REFERENCE TO DWG ASSEMBLY No. A04-0073

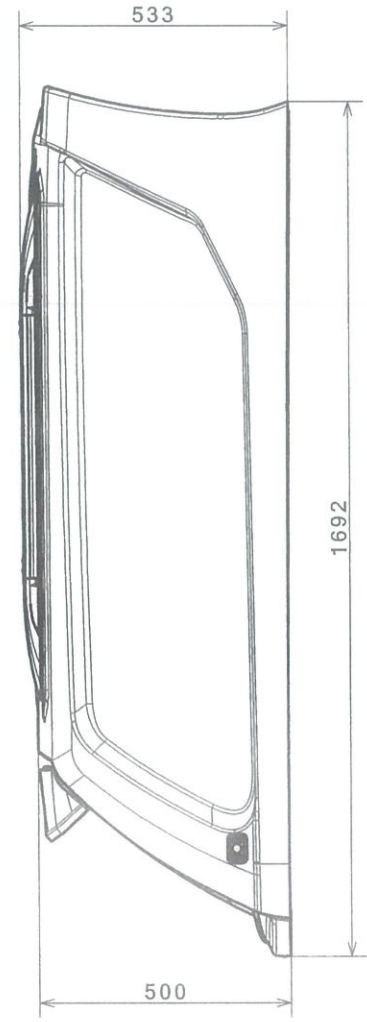
 VANDAPAC CO.,LTD. บริษัท แวนต้าแพค จำกัด					
MATERIAL		MODEL NAME : FORD RANGER DBC 2022			
-		PART NAME : VENTURE CANOPY LEISURE SLIDE IN LIFT UP WINDOW			
PROJECTION METHOD	SIZE	DWG No. : B04-0052		NOTI No. : T-D-2301-0008	
	1673x1722x533			ACC No. : SEE ASSEMBLY DWG.	
SCALE	WEIGHT	DESIGN BY :	DWG. BY :	CHK. BY :	APP. BY :
1 : 15	94 ± 1.5 Kg.		S.Surachai	<i>[Signature]</i>	<i>[Signature]</i>
HEAT & SURFACE TREATMENT		/ /	11/01/23	12/01/23	12/01/23
-		CUSTOMER : VANDAPAC		A3	SHEET 1/1

S22 31929*00

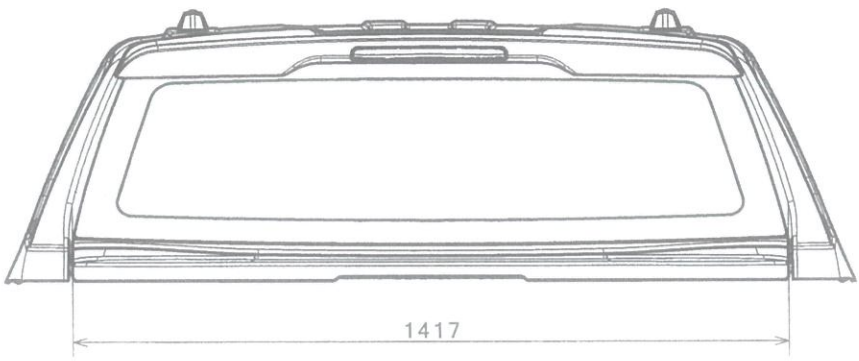
REV.	ZONE	MODIFICATION	DATE	MODIFIED BY
		ISSUE NEW DRAWING	11 / 01 / 23	S.Surachai



Front view




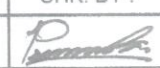

Right view



Bottom view

NOTE

- REMOVE ALL BURRS AND SHARP EDGES OF THE ABS SHELL.
 - TOLERANCE FOR ALL DIMENSION , EXCEPT OTHERWISE SPECIFIED AS TABLE.
- | DIMENSION | 0-50 | 51-100 | 101-500 | 501-1000 | 1001 UP |
|-----------|------|--------|---------|----------|---------|
| TOLERANCE | ±1.0 | ±2.0 | ±3.0 | ±4.0 | ±5.0 |
- REFERENCE TO DWG ASSEMBLY No. A04-0074

 VANDAPAC CO.,LTD. บริษัท แวนต้าแพค จำกัด					
MATERIAL		MODEL NAME : FORD RANGER DBC 2022			
		PART NAME : VENTURE CANOPY COMMERCIAL			
PROJECTION METHOD	SIZE	DWG No. : B04-0053		ACC No. : SEE ASSEMBLY DWG.	
	1673x1722x533	NOTI No. : T-D-2301-0009			
SCALE	WEIGHT	DESIGN BY :	DWG. BY :	CHK. BY :	APP. BY :
1 : 15	76.5 ± 1.5 Kg.		S.Surachai		
HEAT & SURFACE TREATMENT		/ /	11 / 01 / 23	12 / 01 / 23	12 / 01 / 23
		CUSTOMER : VANDAPAC		A3	SHEET 1/1

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