



# Kraftfahrt-Bundesamt

DE-24932 Flensburg

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## 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

**Heckschürze**

issued by:

**Kraftfahrt-Bundesamt (KBA)**

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

**rear skirt**

Genehmigungsnummer: **31674**  
Approval number:

Erweiterung: **01**  
Extension:

1. Genehmigungsinhaber:  
Holder of the approval:  
**Mazda Motor Europe GmbH**  
**DE-51371 Leverkusen**
2. Gegebenenfalls Name und Anschrift des Bevollmächtigten:  
If applicable, name and address of representative:  
**Entfällt**  
**Not applicable**
3. Typbezeichnung:  
Type:  
**BCKR-V4-930**



# Kraftfahrt-Bundesamt

DE-24932 Flensburg

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Genehmigungsnummer: **31674**

Approval number:

Erweiterung: **01**

Extension:

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 1.3. des Prüfberichtes**  
**See point 1.3. of the test report**
6. Zuständiger Technischer Dienst:  
Responsible Technical Service:  
**Typprüfstelle Fahrzeuge/Fahrzeugteile der TÜV Rheinland Kraftfahrt GmbH**  
**DE-51105 Köln**
7. Datum des Prüfberichts des Technischen Dienstes:  
Date of test report issued by the Technical Service:  
**09.01.2020**
8. Nummer des Prüfberichts des Technischen Dienstes:  
Number of test report issued by that Technical Service:  
**196KA0003-01**
9. Verwendungsbereich:  
Range of application:  
**Das Genehmigungsobjekt „Heckschürze“ darf nur zur Verwendung gemäß:**  
***The use of the approval object „rear skirt“ 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.***



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Genehmigungsnummer: **31674**

Approval number:

Erweiterung: **01**

Extension:

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:

**Nicht notwendig**

**Not required**

12. Die Genehmigung wird **erweitert**

Approval is **extended**

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

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

**Aktualisierung des Verwendungsbereichs**

**Update of the range of application**

**Redaktionelle Änderungen**

**Editorial changes**

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

Place:

15. Datum: **29.01.2020**

Date:

16. Unterschrift: **Im Auftrag**

Signature:

Nino Pommerencke





# Kraftfahrt-Bundesamt

DE-24932 Flensburg

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Genehmigungsnummer: **31674**

Approval number:

Erweiterung: **01**

Extension:

Anlagen:

Enclosures:

**Gemäß Inhaltsverzeichnis**

**According to index**



# Kraftfahrt-Bundesamt

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## Inhaltsverzeichnis zu den Beschreibungsunterlagen Index to the information package

Nummer der Genehmigung: **31674**  
Approval No.

Erweiterung Nr.: **01**  
Extension No.:

Ausgabedatum: **02.09.2019**  
Date of issue:

letztes Änderungsdatum: **29.01.2020**  
last date of amendment:

Nebenbestimmungen und Rechtsbehelfsbelehrung  
Collateral clauses and instruction on right to appeal

Prüfbericht(e) Nr.:  
Test report(s) No.:  
**196KA0003-00**  
**196KA0003-01**

Datum:  
Date  
**31.07.2019**  
**09.01.2020**

Beschreibungsbogen Nr.:  
Information document No.:  
**BCKR-V4-930**  
**BCKR-V4-930 Ext. 01**

Datum:  
Date  
**31.07.2019**  
**09.01.2020**

Liste der Änderungen:  
List of modifications:  
**Siehe Anlage 4 des Prüfberichtes**  
**See annex 4 of the test report**

Datum:  
Date



# Kraftfahrt-Bundesamt

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Nummer der Genehmigung: **31674, Erweiterung 01**

- 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 31674**

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

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Approval No.: **31674, Erweiterung 01**

- 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.**

**Fahrzeugteil** : Heckschürze  
**Typ** : BCKR-V4-930  
**Hersteller** : Mazda Motor Europe

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## 1. Allgemeine Angaben

1.1. Hersteller : Mazda Motor Europe GmbH  
Hitdorfer Str. 73  
51371 Leverkusen

Fabrik/Handelsmarke : Mazda

1.2. Beschreibung : Heckschürze aus PP + TD17 Kunststoff  
zur Anbringung am Fahrzeugheck

### 1.3. Technische Beschreibung

| Typ         | Beschreibung | Geeignet für Fahrzeugversionen |
|-------------|--------------|--------------------------------|
| BCKR-V4-930 | Heckschürze  | Fließheck                      |

Außenabmessungen und Form : Siehe Beschreibungsbogen des Herstellers

Werkstoff : PP + TD17 Kunststoff

#### Kennzeichnung

Art/Ort:

Typ : BCKR-V4-930/ auf Aufkleber an der Innenseite  
und Eingeprägt

Typzeichen : KBA 31674 / auf Aufkleber an der Innenseite  
Sichtbar auch nach der Montage, nicht  
zerstörungsfrei ablösbar

### 1.4. Angaben zur Befestigung

Befestigungsart (Heckschürze) : Mit dem Fahrzeug verschraubt.



**Fahrzeugteil** : Heckschürze  
**Typ** : BCKR-V4-930  
**Hersteller** : Mazda Motor Europe

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## 2. Prüfungen und Prüfergebnisse

Prüfgrundlage ist das VdTÜV-Merkblatt Nr. 744 "Prüfung von äußeren Fahrzeugteilen an M1- und N1-Fahrzeugen" (07/2012), Regelung ECE-R26 (Außenkanten) und Regelung ECE-R48.

### **Prüfungen und deren Ergebnisse**

#### Äußere Gestaltung und Montage

Das Versuchsfahrzeug wurde einer Prüfung der Montagefähigkeit und der Außenkanten im Bereich des Heckschürze unterzogen. Die o.a. Prüfgrundlage ist erfüllt.

#### Befestigung am Fahrzeug

Die Bauteile sind am Fahrzeug sicher und dauerhaft befestigt, wenn nach Angaben der Montageanweisung verfahren wird. Eine Montageanweisung wird vom Hersteller für jedes Bauteil mitgeliefert.

#### Splittersicherheit

Die Bauteile sind aus splittersicherem Material gefertigt. Die Splittersicherheit nach VdTÜV-Merkblatt Nr. 744 wurde nachgewiesen:

#### Fahrzeugabmessungen

Die Fahrzeugabmessungen verändern sich durch den Anbau der unter II. beschriebenen Bauteile nicht.

#### Fahrzeuggewicht

Das Fahrzeuggewicht erhöht sich durch den Anbau wie unter II. beschrieben.

#### Beleuchtungseinrichtungen

Die hinteren Beleuchtungseinrichtungen (außer dem Rückstrahler) werden durch den Anbau der unter II. beschriebenen Bauteile nicht beeinflusst. Die Heckschürze enthält die gleichen Rückstrahler. Die Anbauposition und die geometrische Sichtbarkeit sind weiterhin erfüllt.

#### Abschleppvorrichtungen

Der Einschraubpunkt der serienmäßigen Abschleppöse ist weiterhin erreichbar.

#### Anbringung hinteres Kennzeichen

Die Position und Neigung des hinteren Kennzeichens werden durch den Heckspoiler nicht verändert.

**Fahrzeugteil** : Heckschürze  
**Typ** : BCKR-V4-930  
**Hersteller** : Mazda Motor Europe

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#### Fahrverhalten

Das Fahrverhalten und die Höchstgeschwindigkeit ändern sich durch den Anbau der der unter II. beschriebenen Bauteile nicht.

Ergebnis: Unter verkehrsüblichen Betriebsbedingungen wurden keine negativen Auswirkungen auf die Betriebs- und Verkehrssicherheit der Fahrzeuge festgestellt.

Repräsentativer Einbau:

Mazda 3  
JMZBP6HE601100245

### **3. Verwendungsbereich und Auflagen**

Die Heckschürze ist für die in Anlage 3 aufgeführten Fahrzeuge vorgesehen. Die Auflagen sind unter Anlage 2 aufgelistet.

### **4. Anlagen**

|                  |   |
|------------------|---|
| Anlage 1:        | Übersicht der Zeichnungen und Beschreibungen  |
| Anlage 2:        | Auflagen und Hinweise<br>(1 Blatt)            |
| Anlage 3:        | Verwendungsbereich<br>(1 Blatt)               |
| <b>Anlage 4:</b> | <b>Erläuterung zum Nachtrag<br/>(1 Blatt)</b> |

**Fahrzeugteil** : Heckschürze  
**Typ** : BCKR-V4-930  
**Hersteller** : Mazda Motor Europe

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## 5. Zusammenfassung

Die Heckschürze des Typs BCKR-V4-930 (Ausführungen siehe 1.3.) des

Herstellers : Mazda Motor Europe GmbH  
Hitdorfer Str. 73  
51371 Leverkusen

erfüllen die geltenden Bestimmungen der StVZO.

Wird die Allgemeine Betriebserlaubnis erteilt, so muß der Inhaber eine gleichmäßige, reihenweise Fertigung der Heckschürze gewährleisten.

Er hat darüber hinaus dafür zu sorgen, daß dieses Gutachten durch Nachtrag ergänzt wird, sofern sich die im Verwendungsbereich der Allgemeinen Betriebserlaubnis aufgeführten Fahrzeuge in Teilen ändern, welche die Verwendung der Heckschürze beeinträchtigen können.

Die Bezieher der Heckschürze müssen (z.B. durch eine mitzuliefernde Montageanleitung) auf spezielle Anbau-Auflagen, sowie auf die Befestigungsart und der Befestigungsteile hingewiesen werden.

Eine Abnahme nach § 22 Abs. 1 StVZO durch einen amtlich anerkannten Sachverständigen/Prüfer oder Prüfenieur wird unter Beachtung der unter Anlage 2 aufgeführten Auflagen nicht für erforderlich gehalten.

## 6. Schlussbescheinigung

Gegen die Erteilung einer Allgemeinen Betriebserlaubnis nach § 22 StVZO bestehen keine technischen Bedenken.

Dieses Gutachten umfaßt die Seiten 1 bis 8.

(ohne die firmenspezifischen Beschreibungen die in Anlage 1 aufgeführt sind)

Köln, den 09.01.2019



Dipl. Ing. Christian von Stosch  
Sachverständiger Technischer Dienst

**Fahrzeugteil** : Heckschürze  
**Typ** : BCKR-V4-930  
**Hersteller** : Mazda Motor Europe

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**Anlage 1**

## Übersicht der Zeichnungen und Beschreibungen

| Nr. | Bezeichnung        | Nummer              | Datum      | Änderungsdatum    |
|-----|--------------------|---------------------|------------|-------------------|
| 1   | Beschreibungsbogen | BCKR-V4-930 Ext. 01 | 31.07.2019 | <b>09.01.2020</b> |

**Fahrzeugteil** : Heckschürze  
**Typ** : BCKR-V4-930  
**Hersteller** : Mazda Motor Europe

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**Anlage 2, Blatt 1**

**Auflagen und Hinweise**

Auflagen

- A1) Nur für FließheckVariante/Version ?H? ?????
- A2) Es dürfen nur die vom Hersteller mitgelieferten Schrauben verwendet werden.
- A3) Nicht in Kombination mit Anhängerkupplung

Hinweise

Eine Montageanleitung liegt dem Bausatz bei.

**Fahrzeugteil** : Heckschürze  
**Typ** : BCKR-V4-930  
**Hersteller** : Mazda Motor Europe

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**Anlage 3, Blatt 1**

**Verwendungsbereich**

Fahrzeughersteller

: MAZDA (J)  
MAZDA (B)

Schlüssel-Nr. 7118  
Schlüssel-Nr. 5003

| <b>Fahrzeugtyp</b> | <b>Verkaufs-<br/>bezeichnung</b> | <b>Fahrzeug<br/>Typ Gen. Nr.</b> | <b>Auflagen<br/>Hinweise</b>           |
|--------------------|----------------------------------|----------------------------------|--|
| BP                 | MAZDA3                           | e13*2007/46*1972*..              | A1)<br>A2)<br>A3)                      |
| <b>BPE</b>         | <b>MAZDA3</b>                    | <b>e13*2007/46*2249*..</b>       | <b>A1)</b><br><b>A2)</b><br><b>A3)</b> |

**Fahrzeugteil** : Heckschürze  
**Typ** : BCKR-V4-930  
**Hersteller** : Mazda Motor Europe

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**Anlage 4, Blatt 1**

**Erläuterung zum Nachtrag**

Es wird berichtigt : --

Es wird geändert : Redaktionelle Änderungen

Es wird hinzugefügt : Neuer Fahrzeugtyp hinzugefügt

Es entfällt : --

§ 22 31674, Erweiterung 01



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**Beschreibungsbogen als Anlage zur ABE Genehmigung  
information document as enclosure to an ABE approval**

**0. Allgemeine Informationen  
General information**

- 0.1. Handelsmarke : Mazda  
make
- 0.2. Typ : BCKR-V4-930  
Type
- 0.3. Gegenstand : Heckschürze  
Object Rear under spoiler
- 0.4. Genehmigungszeichen : 31674  
Approval mark
- 0.5. Kennzeichnungsort /-art : Aufkleber an der Innenseite des Spoilers  
Location of approval mark and Lable attached to the inner edge of the spoiler  
way
- 0.6. Anschrift Genehmigungsinhaber : Mazda Motor Europe GmbH  
Address of approval holder Hitdorfer Str. 73  
51371 Leverkusen
- 0.7. Anschrift des Fertigers : Mazda Motor Corporation  
Adress of manufacturer Hiroshima, Japan  
**Mazda Hofu Plant  
Yamaguchi, Japan**

**1. Verwendungsbereich  
Range of use**

- 1.1. Fahrzeughersteller : Mazda Motor Corporation  
Vehicle manufacturer **Mazda Motor Logistics Europe N.V.**
- Typ : BP  
Type **BPE**
- Genehmigungsnummer : e13\*2007/46\*1972\*...  
Approval no. **e13\*2007/46\*2249\*...**





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Handelsnahme  
Commercial name : MAZDA3

1.2. Hinweise  
Remarks : Keine  
none

1.3. Einschränkungen  
Restriction : - Nur für Fließheck  
Variante/Version ?H? ?????  
- Nicht in Kombination mit einer  
Anhängerkupplung  
- Only for hatchback  
Variant /version ?H? ?????  
- Not in combination with towing hitch

1.4. Fahrzeugklasse  
Vehicle class : M1

**2. Massen und Abmessungen  
Masses and dimensions**

2.1. Masse  
Mass : 3.34 kg

2.2. Abmessungen  
Dimensions : Siehe Zeichnung  
See drawing

**3. Technische Beschreibung  
Technical description**

Heckschürze, Material: PP + TD17 Kunststoff, zur Anbringung an der Unterkante des  
Fahrzeughecks  
Rear under spoiler, Material: PP + TD17 plastic, to install on the lower rear end

**4. Zeichnungen und Anlagen  
Drawings and attachments**

Zeichnung  
Drawing

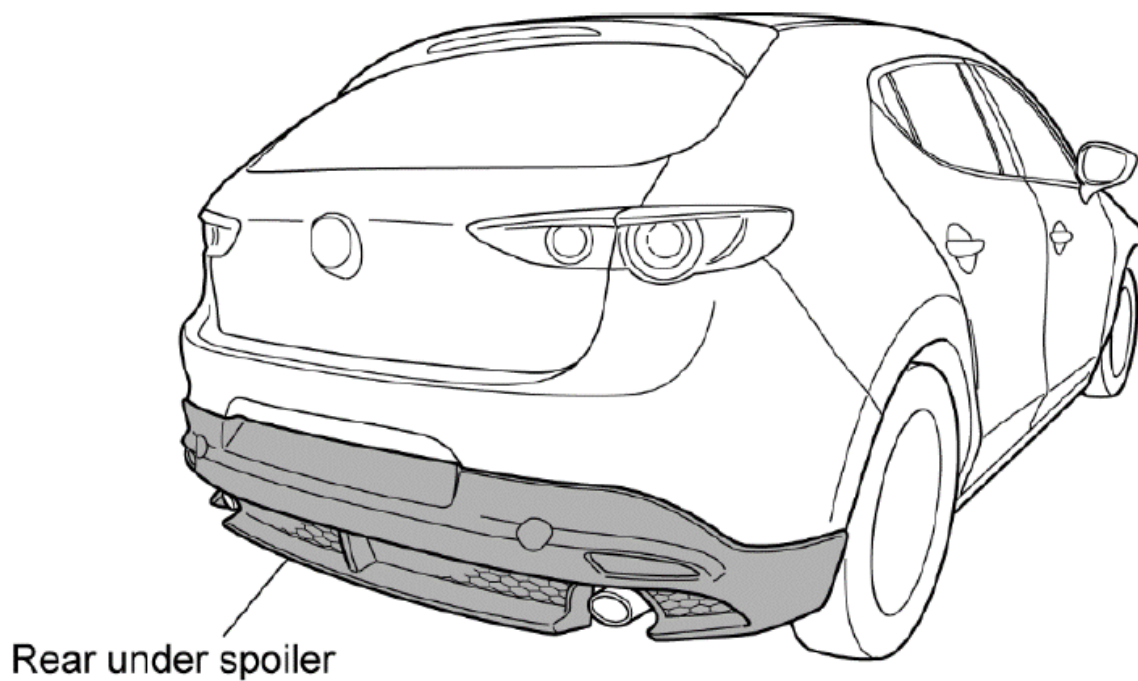
Montageanleitung  
Installation instruction



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**Zeichnung / Drawing**



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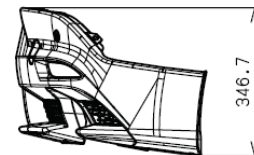
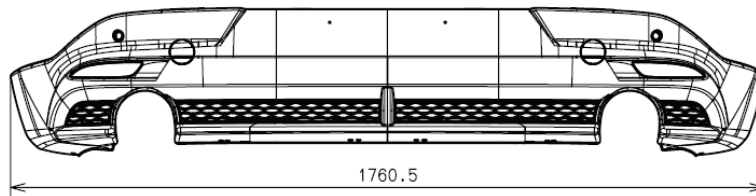
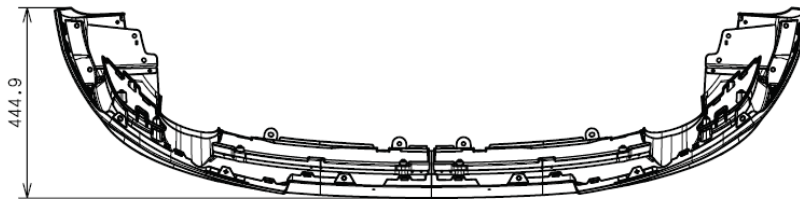
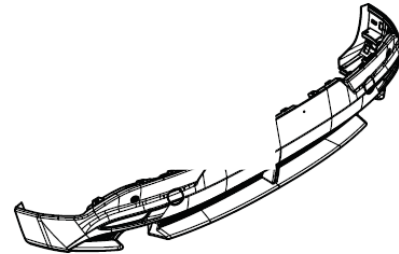


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Zeichnung / Drawing

MAZDA3  
リアアンダースポイラー  
SPOILER-REAR UNDER

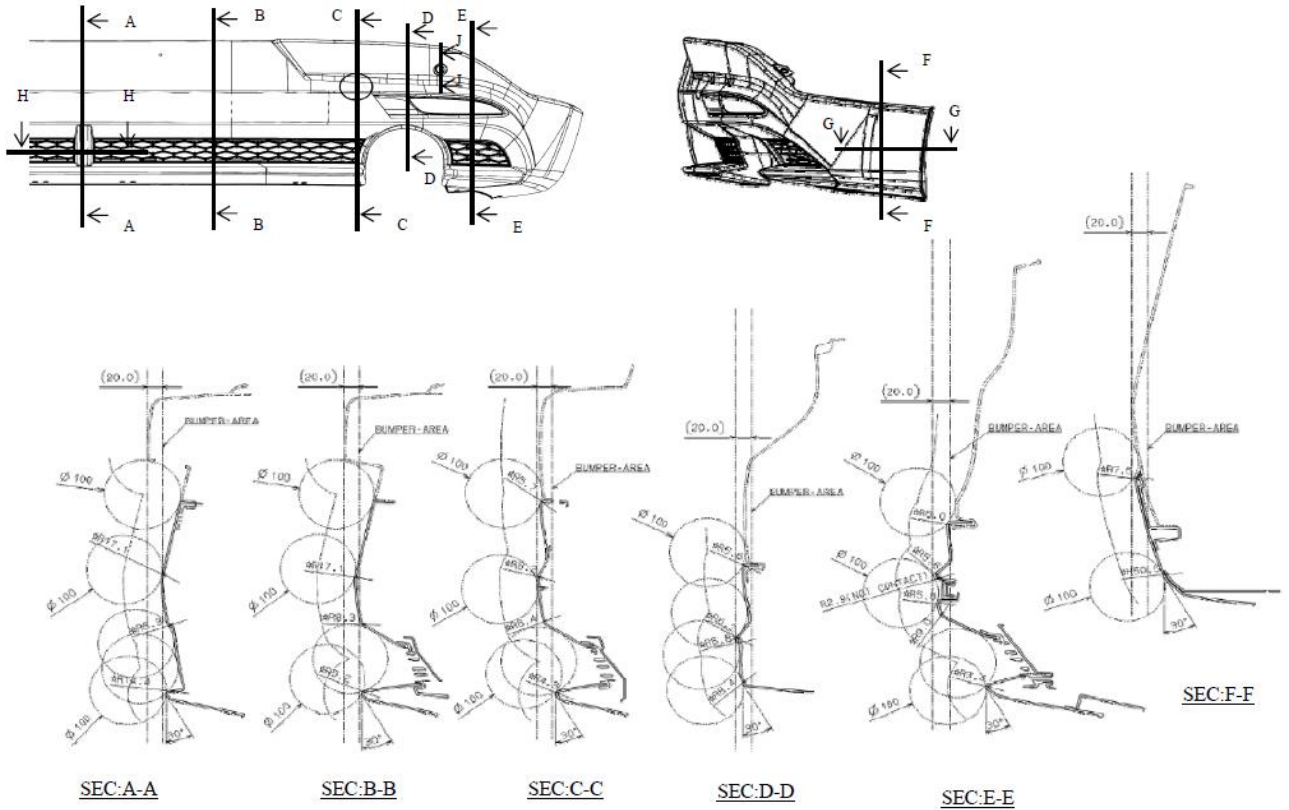


S 22 31674, Erweiterung 01



Zeichnung / Drawing

Rear under spoiler



S 22 31674, Erweiterung 01

# GENUINE REAR UNDER SPOILER

## INSTALLATION AND USER'S INSTRUCTIONS



Thank you for purchasing a genuine Mazda accessory.


Before removal and installation, be sure to thoroughly read these instructions.


Please read the contents of this booklet in order to properly install and use the rear under spoiler.

Your safety depends on it. Keep these instructions with your vehicle records for future reference.

### **WARNING**

- There are several  **WARNING** and  **CAUTION** sections in this booklet concerning safety when installing or removing the rear under spoiler. Always read and follow them in order to prevent injuries, accidents, and possible damage to the vehicle.

 **WARNING** : Indicates a situation in which serious injury or death could result if the warning is ignored.

 **CAUTION** : Indicates a situation in which bodily injury or damage to the vehicle could result if the caution is ignored.

- For areas indicating the tightening torque in this instruction manual, tighten to the specified torque using a torque wrench. For areas in which the tightening torque is indicated inside parentheses ( ), the tightening torque is indicated as a reference value, however tightening using a torque wrench is not necessary.
- Do not modify the rear under spoiler.
- Do not install the rear under spoiler in any way other than described in the following instructions.
- If in any doubt, please ask your Mazda dealer to install the accessory in order to prevent errors in installation.
- If you have any questions about the use of the accessory, ask your Mazda dealer for proper advice before using it.
- Mazda and its suppliers are not responsible for injuries, accidents, and damage to persons and property that arise from the failure of the dealer or installer to follow these instructions.
- To ensure safety and reliability of the work, installation, removal and disposal work must be carried out by an Authorized Mazda Dealership.
- Be careful not to lose removed parts and be sure that they are kept free from scratches, grease or other dirt.

**PART NAME: REAR UNDER SPOILER**

**PART NUMBER: BCKN V4 930 (VEHICLES WITHOUT PARKING SENSORS)  
BCKR V4 930 (VEHICLES WITH PARKING SENSORS)**

**VEHICLE: MAZDA3**

#### **NOTE**

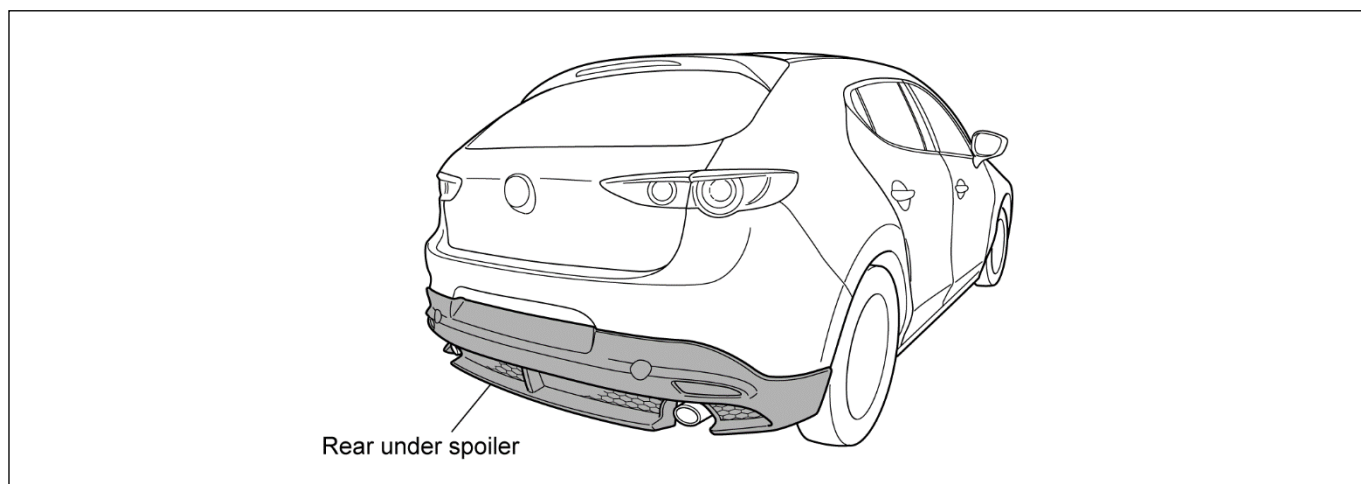
##### **To the dealer**

- Please turn over these instructions to the customer after installation.

##### **To the customer**

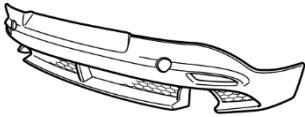

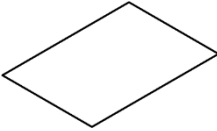
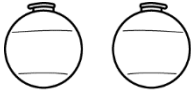
- Keep these instructions after installation. The instructions may be necessary for installing other optional parts or removal of this accessory.
- Should the vehicle or this accessory be resold, always leave these instructions with it for the next owner.

# 1. INSTALLATION VIEW

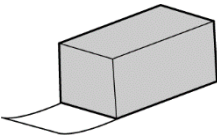
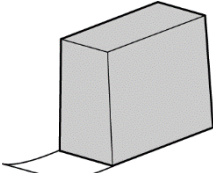


# 2. PARTS

- Before installation, verify that the kit includes all the following parts and that they are free of dirt, scratches, or damage.

| Part  | Part name          | Qty | Part   | Part name                 | Qty    |
|---|--------------------|-----|--|---------------------------|--------|
|  | Rear under spoiler | 1   |  | Tapping screw (M5x12)     | 2      |
|  | Template           | 1   |  | Towing hook cover (LH/RH) | Each 1 |

## Separate Purchase [Rear under spoiler accessories (B0P3 V4 93E)]

| Part  | Part name       | Qty | Part   | Part name       | Qty |
|---|-----------------|-----|--|-----------------|-----|
|  | Spacer ① (t=15) | 1   |  | Spacer ② (t=30) | 2   |

## 3. BEFORE INSTALLATION

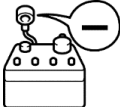

### ■ REQUIRED TOOLS (Make sure they are at hand before starting work)

- ☆Fastener remover
- ☆Punch
- ☆Scissor
- ☆Phillips screwdriver
- ☆Drill ( $\phi 3$ ,  $\phi 6$ ,  $\phi 8$ )
- ☆Round file
- ☆Flathead screwdriver
- ☆Scales

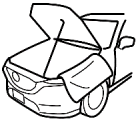
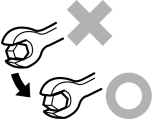
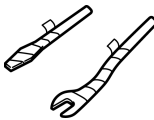
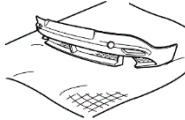
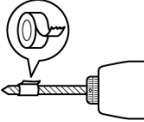
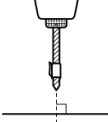


### Other items to prepare

- ☆Masking tape (20 mm width)
- ☆Protective sheet
- ☆IPA (isopropyl alcohol) or white gasoline


### ⚠ WARNING

|  |  |
|--|--|
| <p>Disconnect the negative battery cable and be extremely careful not to allow anything to contact the terminal. Otherwise, part damage, electrocution, or injury could result from an electrical short circuit while performing the work.</p> | <p>Before performing any work, park the vehicle on level ground, apply the parking brake securely, and then block the wheels. If the vehicle moves while performing work, it may cause injury.</p> |
|   |   |

### ⚠ CAUTION

|   |   |  |  |
|---|---|--|--|
| <p>Be sure to cover the vehicle body with protectors or mats when removing/installing parts. Otherwise, the vehicle may be scratched or become dirty.</p> | <p>Using improper tools may cause damage and or broken parts. Use the correct tool for the installation.</p>  | <p>Wrap protective tape around screwdrivers and fastener remover tools to prevent scratching the vehicle.</p>  | <p>Place the removed parts and kit accessories on a protective sheet to prevent scratches.</p>   |
|    |    |                            |   |
| <p>[Drilling]</p> <p>When drilling holes, be sure to wrap the drill bit with gum tape or similar to prevent drilling from going too deep.</p>             | <p>[Drilling]</p> <p>When drilling holes, hold the drill bit or hole saw so that it is perpendicular to the drilling surface so that the position of the hole being drilled does not shift.</p> | <p>[Drilling]</p> <p>After drilling holes, file away any rough edges and burrs until the edges are smooth.</p> | <p>If there is any dirt, grease or other contamination on the attachment surface, they may become attached to the double-sided tape, causing a drop in the adhesive strength of the double-sided tape. You should clean the attachment surface thoroughly before attaching the tape. Use IPA (isopropyl alcohol) or similar to clean interior and exterior surfaces.</p> |
|    |    |                            |   |

### Advice

|   |
|---|
| <p>Refer to the Workshop Manual for removal and installation of applicable vehicle parts.</p> |
|            |

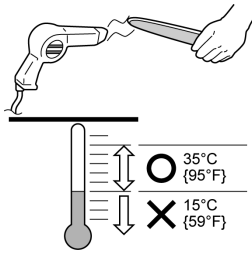
# 4. DOUBLE-SIDED TAPE ATTACHMENT

\* "Attachment surface" refers to the vehicle's rear bumper upper, and "part" refers to supplementary parts.

## 1. Avoid working in ambient temperatures of less than 15 °C.

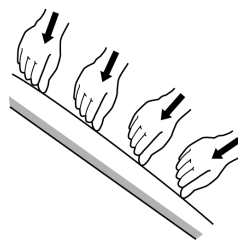
The stickiness of the adhesive depends on the softness of the resin, and so the adhesive loses its stickiness and the adhesive strength drops at low temperatures (15 °C or less). Accordingly, avoid carrying out work in places where the ambient temperature is less than 15 °C.

If working in places where the ambient temperature is less than 15 °C, you should heat the attachment surface and the part until they are warm enough.



## 2. Attach evenly.

In order to ensure that the adhesive surface of the double-sided tape attaches correctly, it is necessary to press the adhesive surface of the tape against the attachment surface with a uniform force (50N) overall. In particular, press down sufficiently on the double-sided tape when the ends of the tape and the attachment surface are curved.

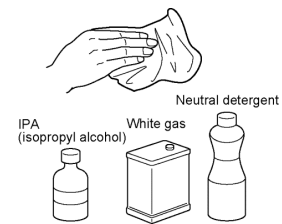


## 3. Clean the attachment surface.

If there is any dirt, grease or other contamination on the attachment surface, they may become attached to the double-sided tape, causing a drop in the adhesive strength of the double-sided tape.

You should clean the attachment surface before attaching the double-sided tape.

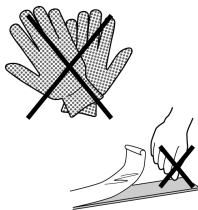
As a general rule, use mild detergent for interior surfaces, and use IPA (isopropyl alcohol) or white gas for exterior surfaces. After cleaning, let the area dry sufficiently.



## 4. Avoid getting the tape dirty.

If you touch the adhesive surface while working, oil from your hands can get onto the adhesive and cause a drop in the adhesive strength of the double-sided tape. In addition, when working while wearing gloves, fibers and dirt from the gloves may become attached to the adhesive.

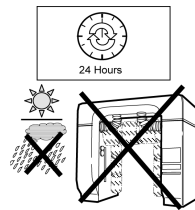
Take care to avoid contaminating the adhesive surface of the double-sided tape.



## 5. Handling after attaching the tape

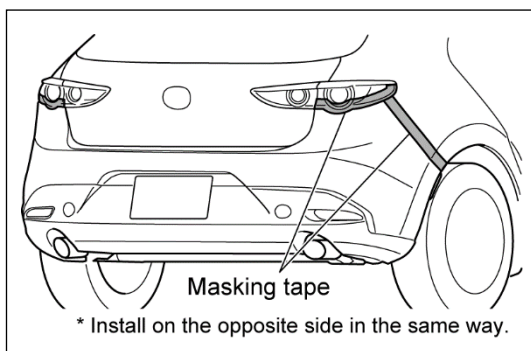
After the tape has been attached, the adhesive strength will not stabilize until 24 hours have passed, so do not drive or wash the vehicle or leave it exposed to rain for 24 hours.

In addition, never remove and reattach the double-sided tape once the product has been installed, as this will result in a dramatic drop in adhesive strength.



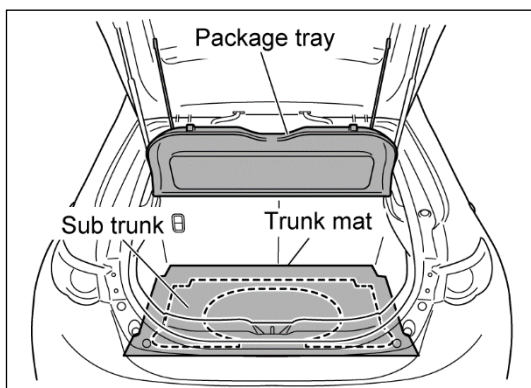


## 5. VEHICLE PART REMOVAL



### Vehicle protection

1. To prevent damage to the vehicle, attach masking tape around the side frame outer and the rear combination lamp as shown in the illustration at left.

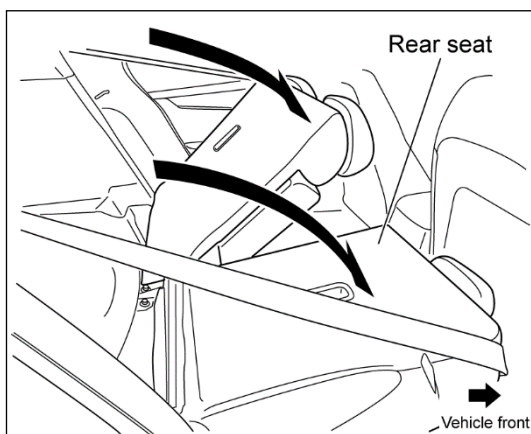
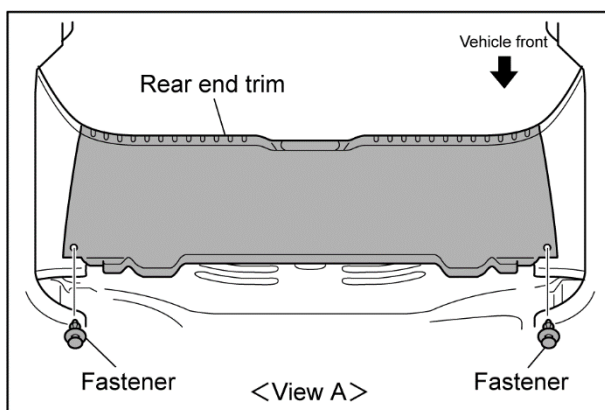
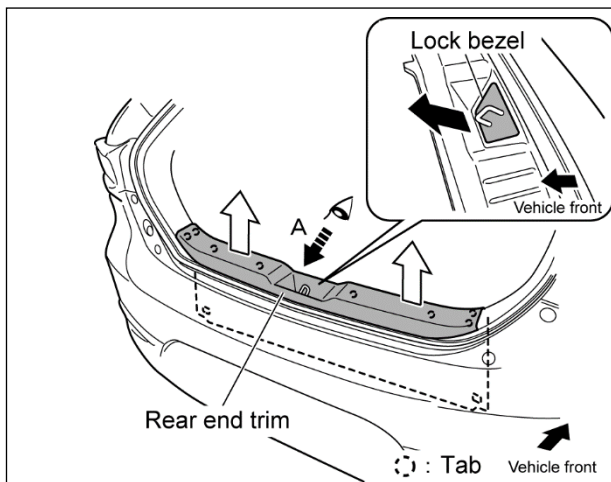


### Package tray, trunk mat and sub trunk removal

1. Open the rear gate.
2. Disconnect the negative battery cable while referring to "Disconnecting/connecting negative battery cable" in the vehicle workshop manual.
3. Remove the package tray, trunk mat and sub trunk from the vehicle in that order.

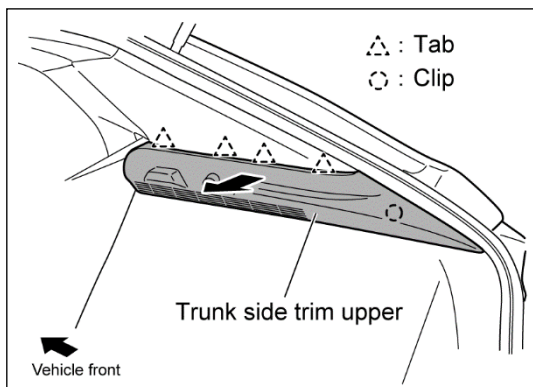
### Rear end trim removal

1. Remove the fasteners inside the passenger compartment (1 place each at left and right) which are securing the rear end trim.
2. Remove the lock bezel by pulling it in the direction of the arrow.
3. Disengage the tabs of the rear end trim, and pull the rear end trim in the direction of the arrows to remove it.

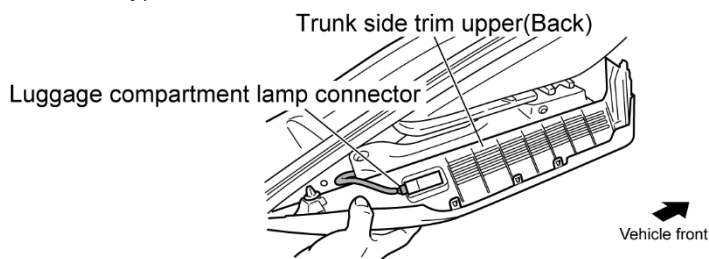


### Trunk side trim upper removal (RH/LH)

1. Tilt forward the left and right rear seats.

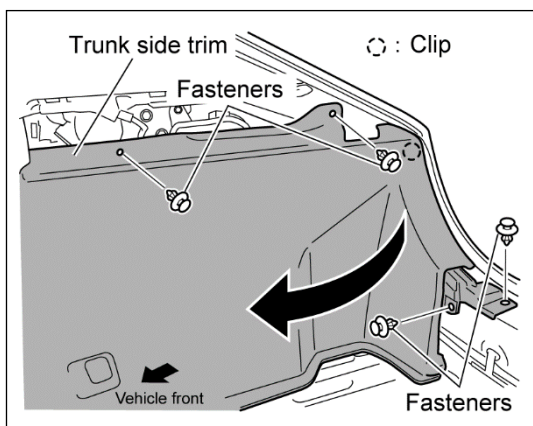


2. Disengage the tabs (4 places each at left and right) and the clips (1 place each at left and right), and then remove the trunk side trim upper by pulling it in the direction of the arrow.
3. Disconnect the luggage compartment lamp connector. (LH side only)

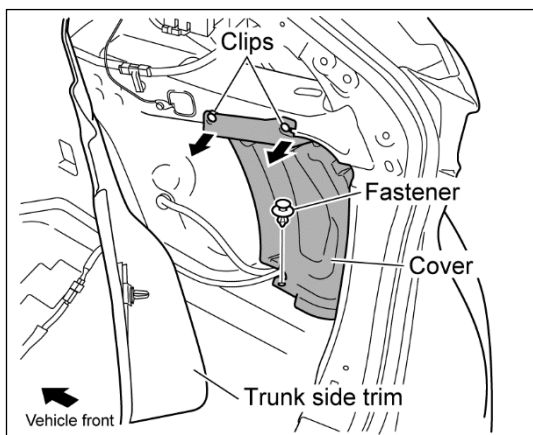


4. Remove from the opposite side in the same way.

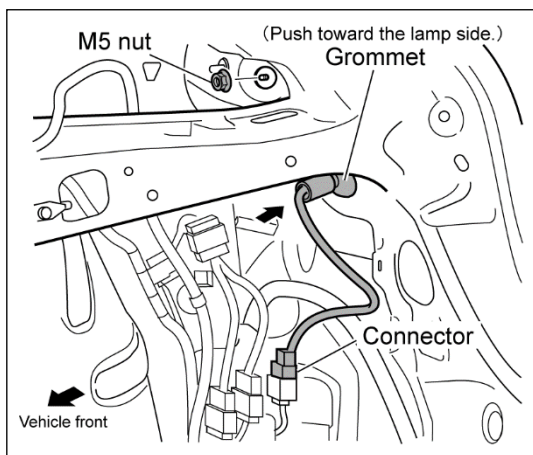
### Trunk side trim removal (RH/LH)



1. Remove the fasteners (4 places each at left and right).
2. Disengage the clips (1 place each at left and right), and then bend the trunk side trim from the back in the direction of the arrow.



3. Remove the fasteners (1 place each at left and right).
4. Disengage the clips (2 each at left and right), and then remove the cover.
5. Remove from the opposite side in the same way.

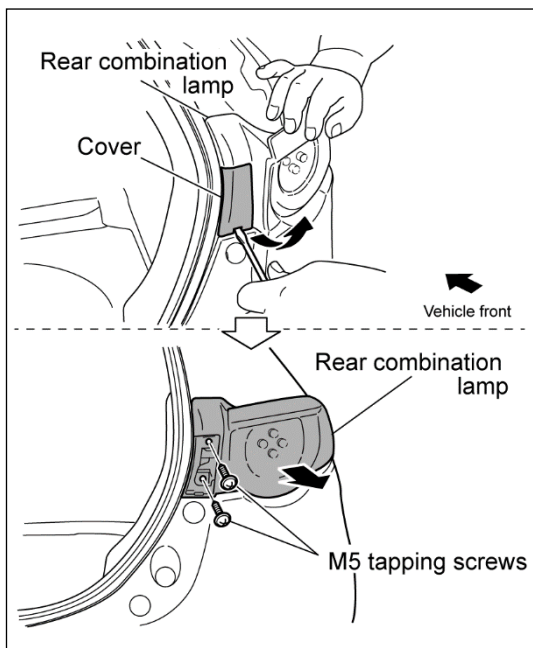


### Rear combination lamp removal (RH/LH)

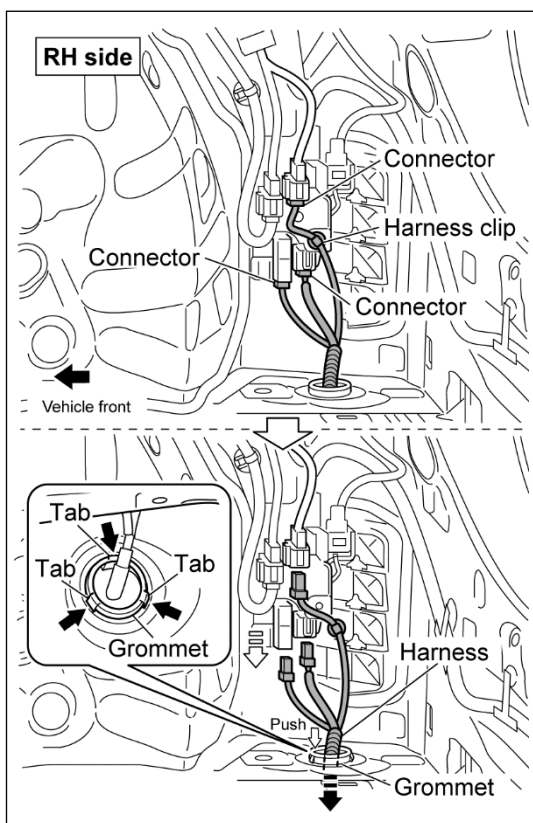
1. Bend back the trunk side trim.
2. Remove the M5 nuts on the underside of the rear combination lamps (1 each at left and right).

**M5 nut tightening torque: (4.1 – 6.1 N·m)**

3. Disconnect the rear combination lamp connector.
4. Push in the grommets of the rear combination lamp harnesses (1 place each at left and right) to disengage them.

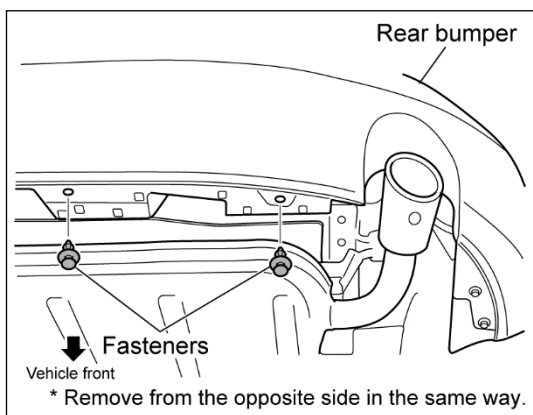


5. Remove the covers (1 place each at left and right).
6. Remove the M5 tapping screws (2 places each at left and right).  
**M5 tapping screw tightening torque: (1.2–1.8 N·m)**
7. Remove the rear combination lamp by pulling it in the direction of the arrow.
8. Remove from the opposite side in the same way.

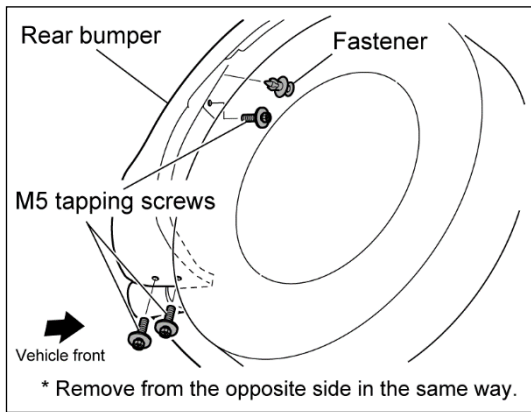


### Rear bumper removal

1. Bend back the trunk side trim (RH), and then disengage the harness clip (1 place).
2. Disconnect the connectors (maximum of 3 places).
3. Wrap the connectors with tape or similar to prevent them from being damaged.
4. Press the tabs of the grommets shown in the illustration (3 places) to disengage the grommets from the floor panel, and push the harness into the hole in the vehicle.
5. Push the harness through until all of the connectors are outside the passenger compartment.

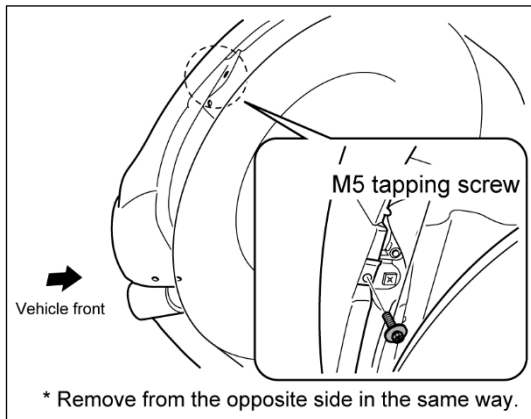


6. Remove the rear bumper lower fasteners (2 places each at left and right).



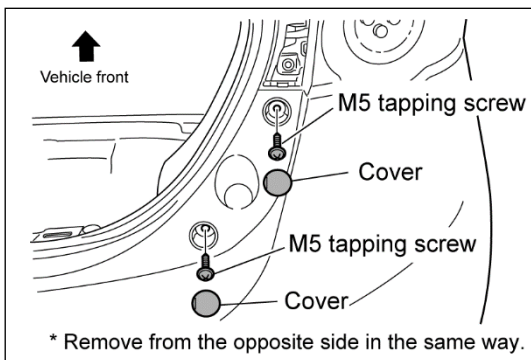
7. Remove the fasteners (1 place each at left and right).
8. Remove the tapping screws (3 places each at left and right).

**M5 tapping screw tightening torque: (1.5–2.4 N·m)**



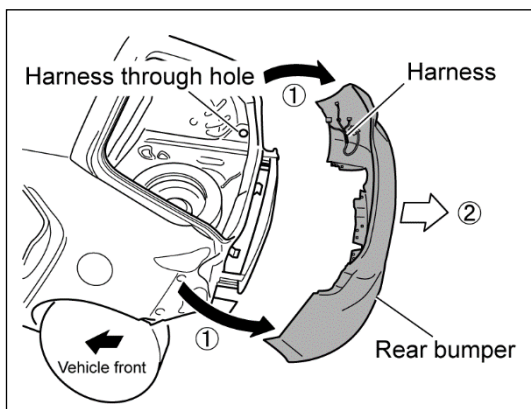
9. Bend back the splash shield, and then remove the M5 tapping screws (1 place each at left and right).

**M5 tapping screw tightening torque: (1.0–1.5 N·m)**



10. Remove the covers (2 places each at left and right).
11. Remove the M5 tapping screws (2 places each at left and right).

**M5 tapping screw tightening torque: (1.0–1.5 N·m)**



12. Pull the rear bumper in the direction of the arrow ① to disengage it from the rear bumper retainer.
13. Pull the rear bumper in the direction of the arrow ②.

- Be careful not to step on the rear bumper harness.

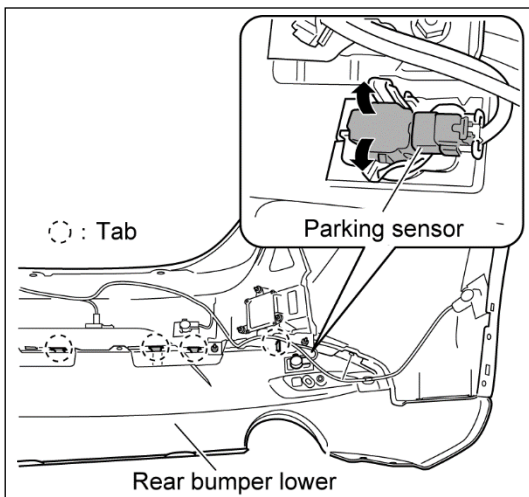
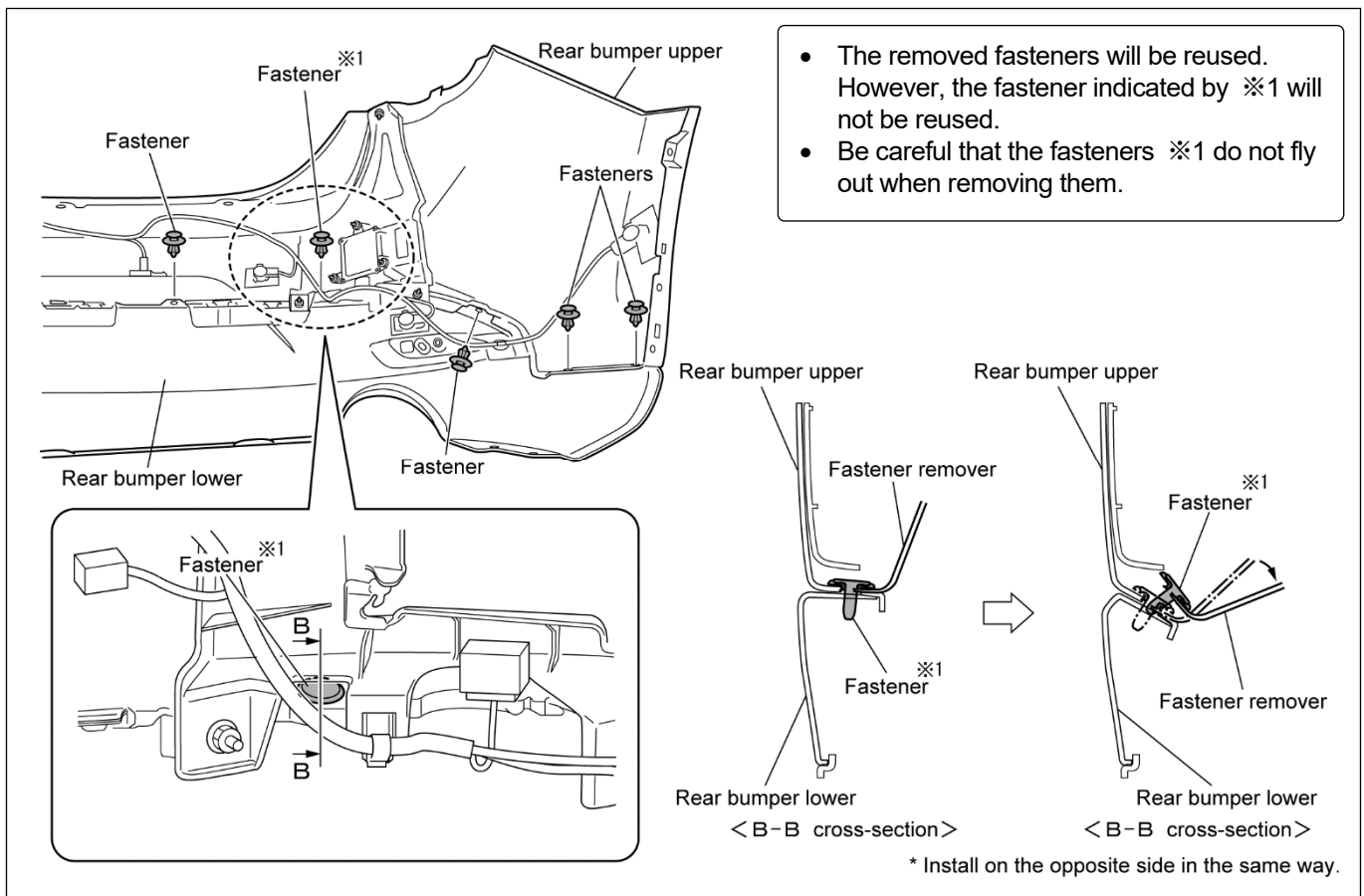
## 6. REAR UNDER SPOILER INSTALLATION

- The diagrams showing the work procedure are for the left side of the vehicle; the same steps should be carried out for the right side as well.

### Rear bumper lower removal

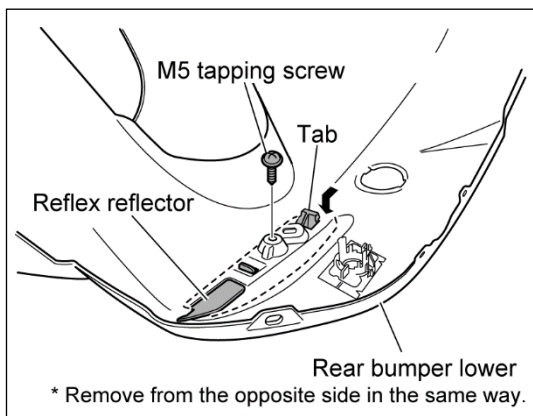
- Remove the fasteners which are connecting the rear bumper upper and lower in the positions shown in the illustration at left (5 places each at left and right).

However, for the fasteners indicated by ※1 (which are not reused), use the fastener remover to bend the bumper flanges which are connected by the fasteners as shown in the illustrations below to forcibly remove these fasteners.



- Disengage the tabs (4 places each at left and right).
- Disengage the tabs (2 places) which are securing the parking sensors, and then remove the parking sensors (1 place each at left and right).  
**(Vehicles with parking sensors only)**
- Remove the rear bumper lower from the rear bumper upper.

- The removed rear bumper lower will not be reused.



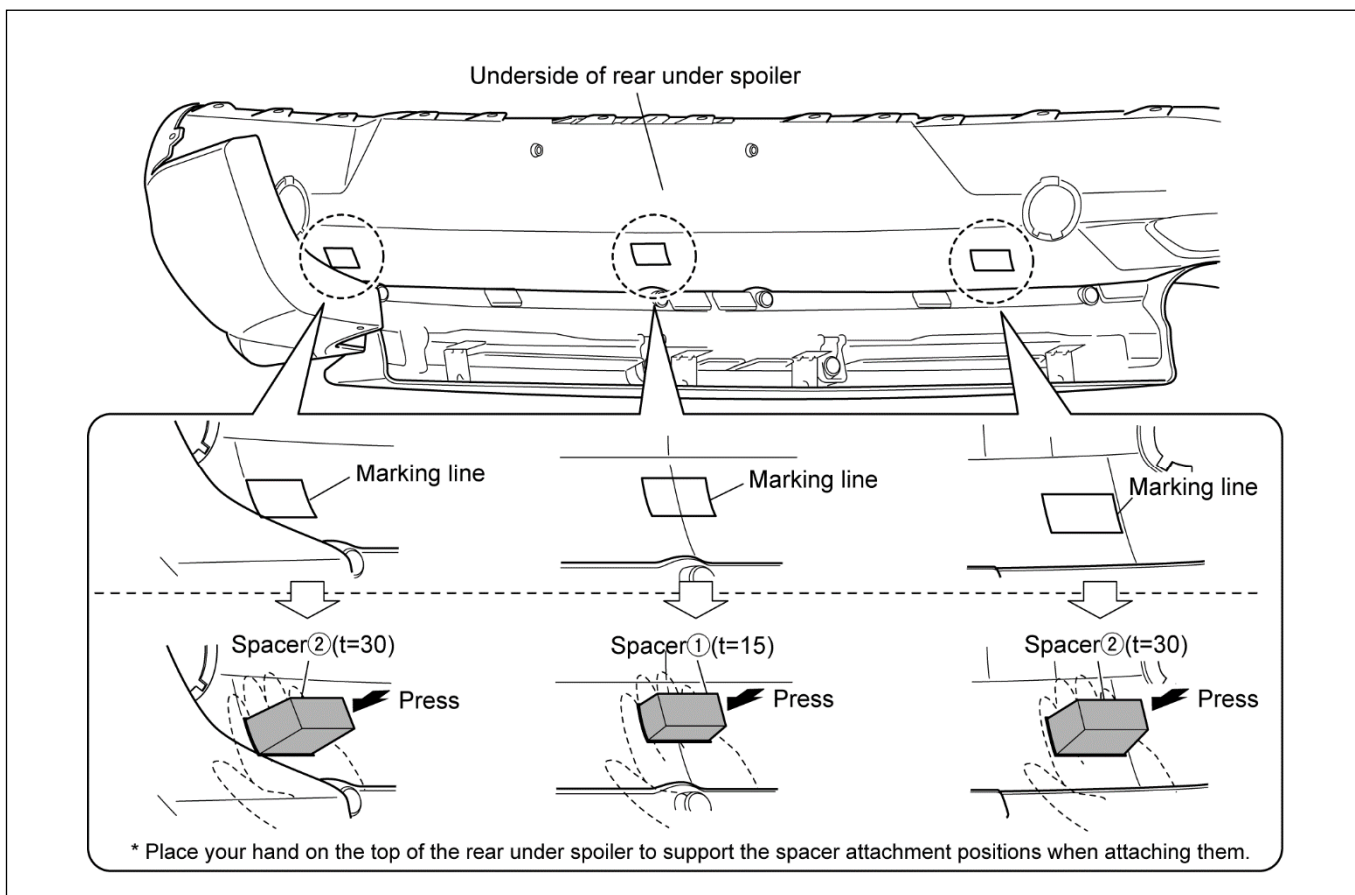
- Remove the tapping screw (1 place) and disengage the tab from the removed rear bumper lower, and then remove the reflex reflectors (1 place each at left and right).

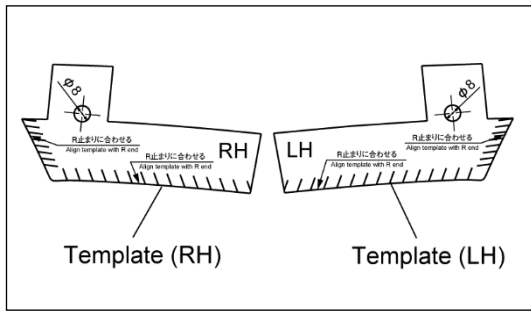
- The removed reflex reflectors will be reused.

- Install the removed reflect reflectors to the new rear under spoiler (this product) (1 place each at left and right) by carrying out the removal procedure in reverse.

**M5 tapping screw tightening torque: (0.3–1.5 N·m)**

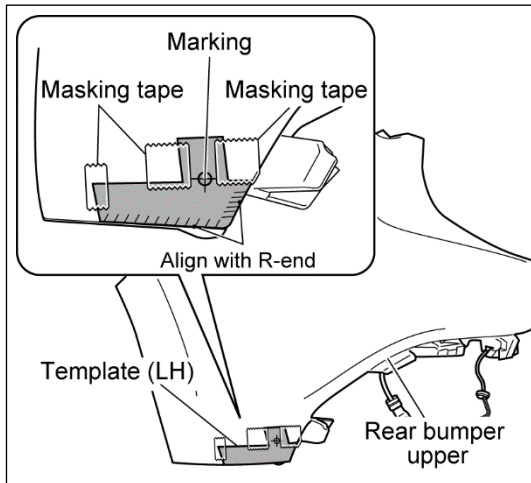
- Clean the areas inside the marking lines on the underside of the rear under spoiler.
- After the areas have dried completely, peel off all of the backing paper inside the marking lines, attach the spacer ① (1 place) and the spacers ② (2 places), and then push the top and bottom with both hands to attach the spacers.



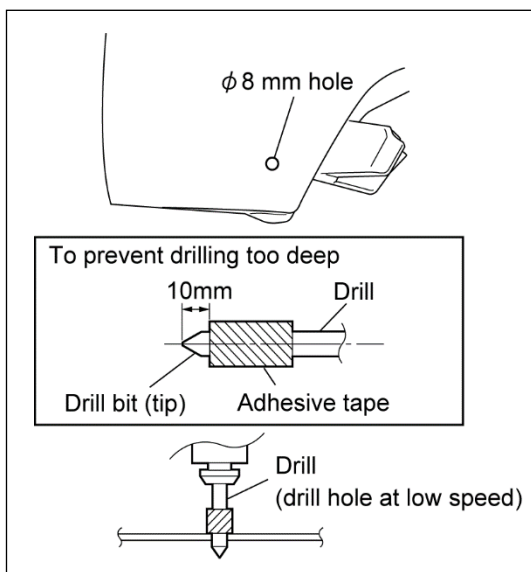


### Rear bumper upper hole drilling

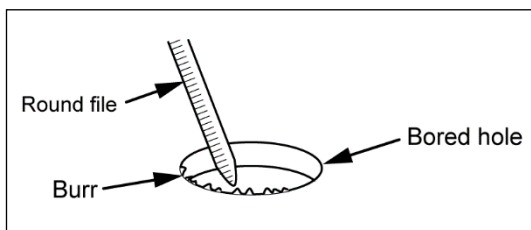
1. Cut the templates. (1 each for RH and LH)



2. Use masking tape to attach the template (LH) to the rear bumper upper in the position shown in the illustration at left.
3. Use a punch to make a mark (1 place) at the center of the  $\phi 8$  mm hole in the template.
4. Remove the template.



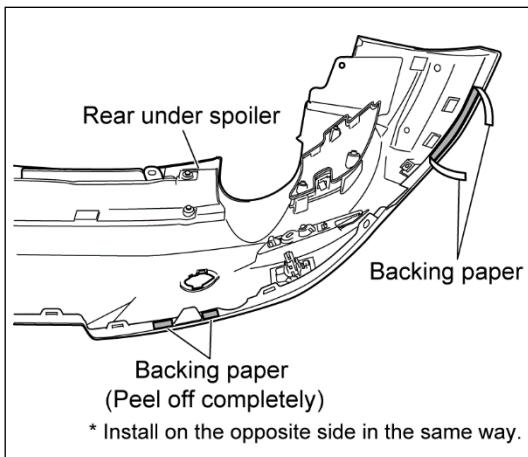
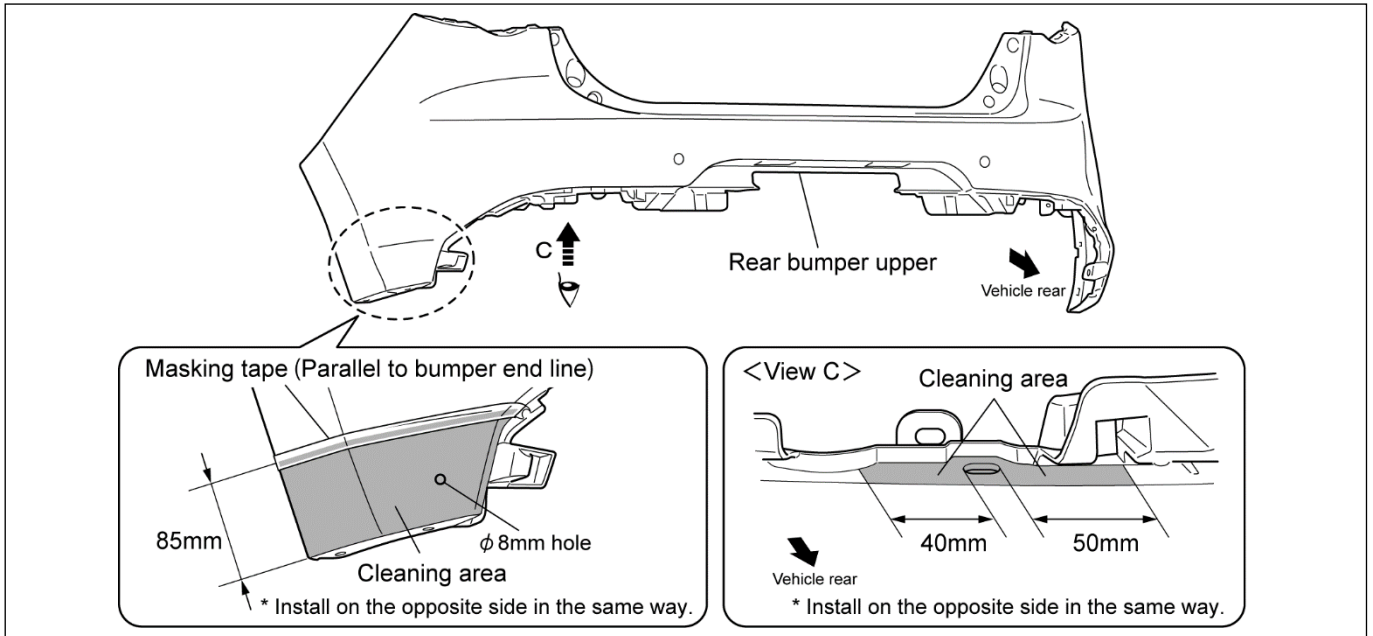
5. Use the drill to drill an  $\phi 8$  mm hole (in 1 place) in stages at the location of the mark.  
( $\phi 8$  mm hole:  $\phi 3$  mm  $\rightarrow$   $\phi 6$  mm  $\rightarrow$   $\phi 8$  mm)



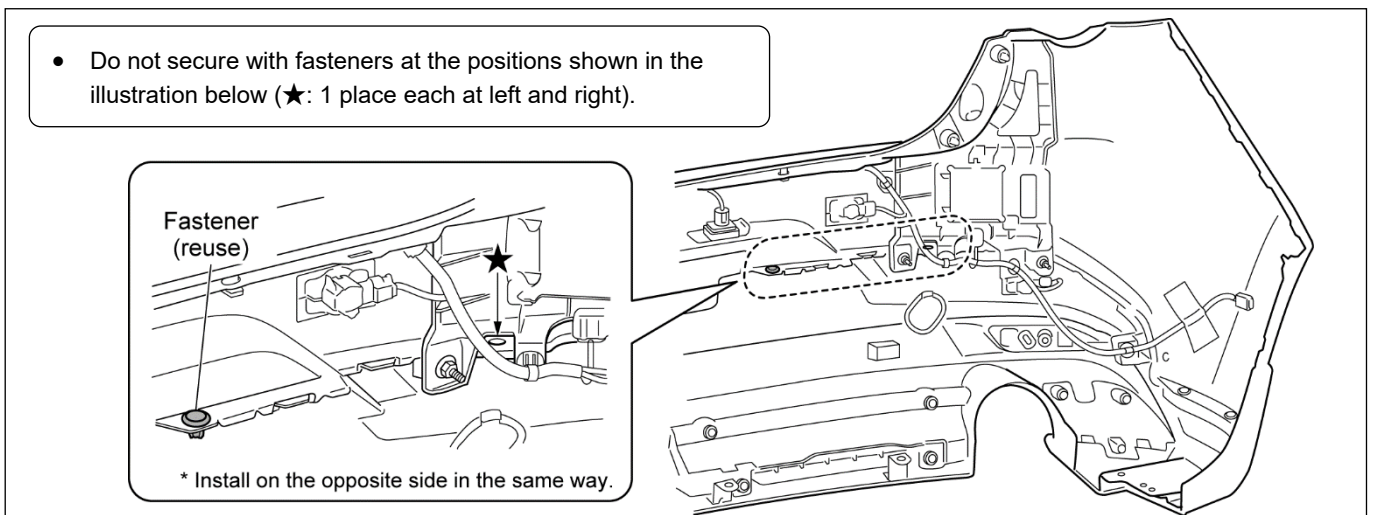
6. After drilling the hole, use a file to fully remove any burrs from the underside of the hole.

## Rear under spoiler installation

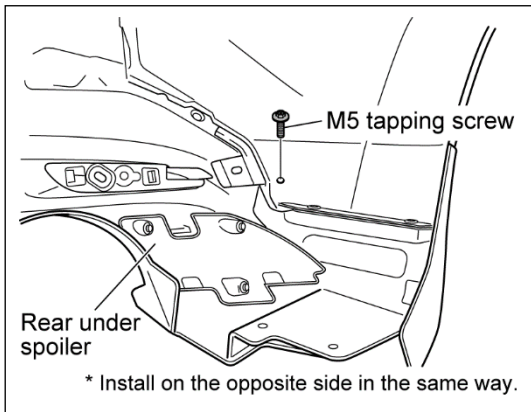
1. Attach masking tape in the places where the double-sided adhesive tape for the rear spoiler is to be attached to the rear bumper upper as shown in the illustration below, and then use IPA (isopropyl alcohol) or white gasoline to clean the area. Once the area has fully dried, peel off the masking tape.



2. Peel off part of the backing paper (3 places each at left and right) from each piece of double-sided adhesive tape on the rear under spoiler and fold them back, except for the two places shown in the illustration at left where all of the backing paper should be peeled off.
3. Install the new rear spoiler (this product) to the rear bumper upper by following the procedure in steps 1 to 4 in "Rear bumper lower removal" (page 9) in reverse, except for the positions shown in the illustration below where it is not secured by fasteners (1 place each at left and right).
4. Attach the double-sided adhesive tape on the rear under spoiler which has the backing paper fully removed through the vertical gap at the positions which are not secured by fasteners (1 place each at left and right).





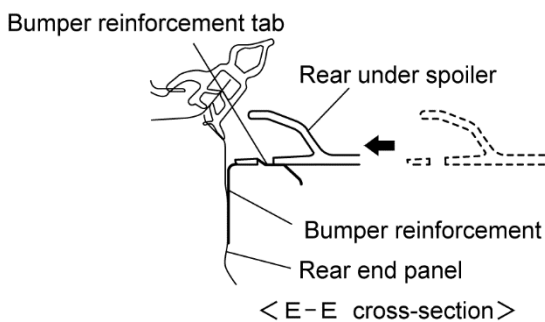
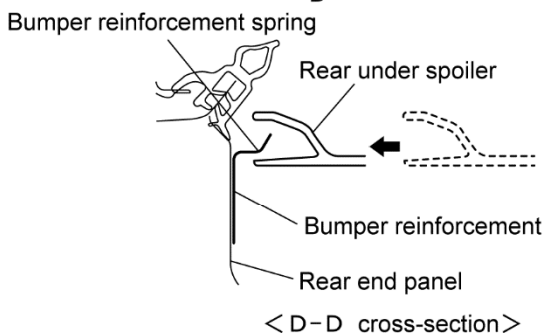
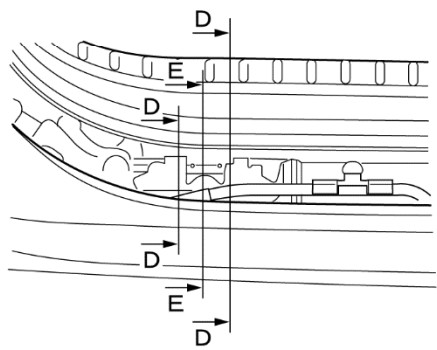
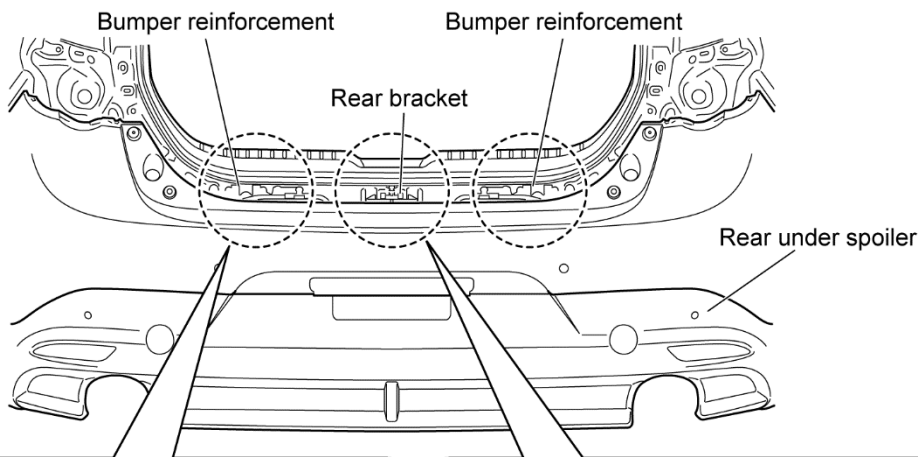


5. Install the M5 tapping screws (M5x12) (1 place each at left and right) to the  $\phi 8$ mm holes which were drilled before.

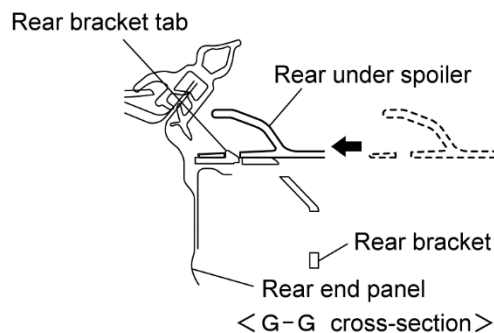
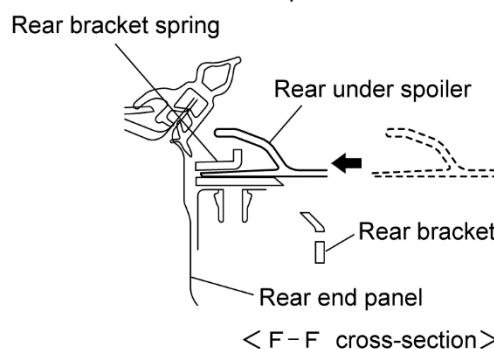
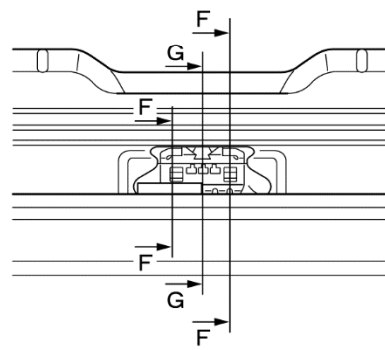
**M5 tapping screw tightening torque: (1.5–2.4 N·m)**

6. Return the vehicle's rear bumper (with the rear under spoiler installed in place of the rear bumper lower) to its original position by following the procedure in "5. VEHICLE PART REMOVAL" (pages 5 to 8) in reverse.

However, when replacing other parts which have been replaced as a result of changing to the rear under spoiler, follow the procedure from step 5 onward.

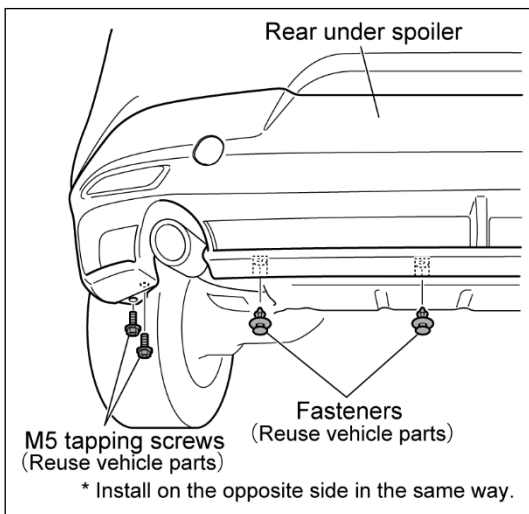
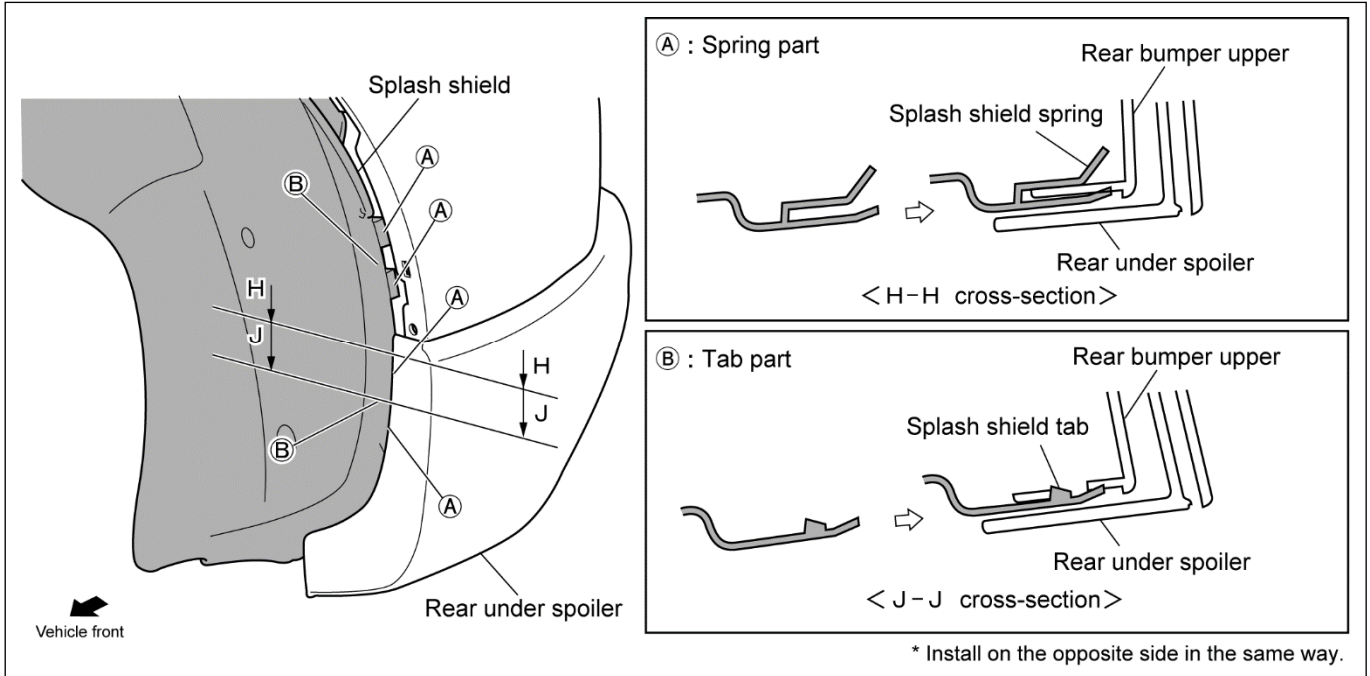


\* Install on the opposite side in the same way.



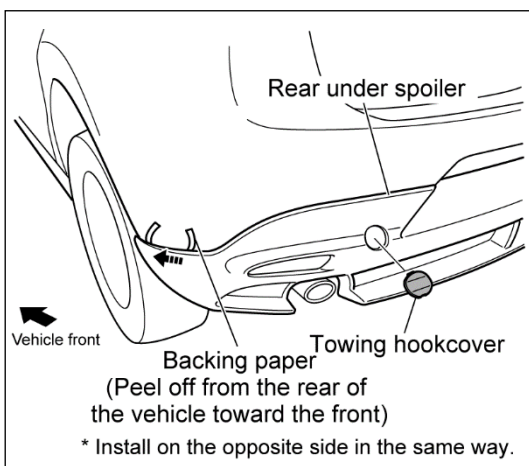
- Securely engage the springs (A) (4 places) and the tabs (B) (2 places) of the splash shield to the rear bumper upper as shown in the illustration below.

- Make sure that the splash shield and the rear under spoiler are facing the right way up.



- Install the fasteners (2 places each at left and right) and the M5 tapping screws (2 places each at left and right) to the rear under spoiler.

**M5 tapping screw tightening torque: (1.5–2.4 N·m)**



- After checking that the rear under spoiler is properly aligned with the vehicle, remove all of the double-sided adhesive tape backing paper, and attach the double-sided adhesive tape to the vehicle.

- Install the fasteners (1 place each at left and right) to the rear under spoiler.

## 7. REASSEMBLY AND INSPECTION

1. Reassemble all vehicle parts while referring to "Required servicing after disconnecting/connecting negative battery cable" in "Disconnecting/connecting negative battery cable" and "Rear side radar aiming" in the rear bumper removal and installation procedures in the vehicle workshop manual.
2. Carry out a reassembly and operation inspection for the vehicle parts and check that all items are installed.

## 8. TO THE CUSTOMER

Heed the following cautions when handling (maintenance) the rear under spoiler.

- If gasoline, oil, engine coolant, or battery fluid adheres to the hard plastic parts, it will cause discoloration, stains, or damage. Wipe off immediately with a soft cloth.
- Depending on the type of high pressure car washer used, the water for washing may be high temperature and/or under high pressure. Be careful when using pressurized water from a car washer nozzle. If the nozzle is too close or water pressure is applied for long periods, it may cause deformation or damage to the hard plastic parts.
- Do not use electric or air tools to apply wax or compound (polishing powder). Otherwise, friction heat will be generated causing deformation or damage to the hard plastic parts.
- If the vehicle height is lowered due to the vehicle being at the maximum passenger or cargo capacity described in the vehicle inspection certificate, decrease the vehicle speed when parking on a road shoulder or entering/leaving a road shoulder or bump. Otherwise, the rear under spoiler could be hit and damaged.