

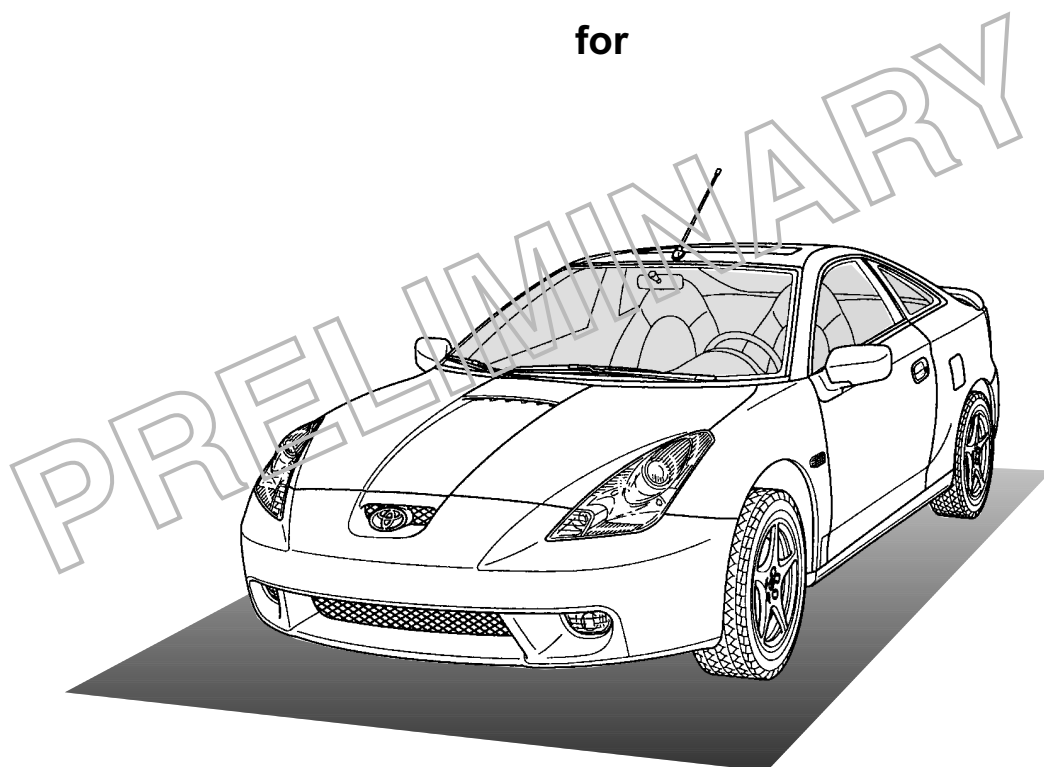
ALARM

TOYOTA VEHICLE SECURITY SYSTEM

TVSS IV-D

INSTALLATION INSTRUCTIONS

for



CELICA (RHD)

PART NUMBER

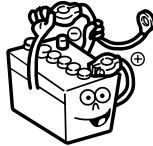
| | |
|---|-------------|
| MAIN KIT | 08585-12950 |
| FITTING KIT | 08586-2D832 |
| SUB KIT (SIREN AND RADAR) | 08586-1A891 |
| STATUS MONITOR (LED KIT) Application: When switch base is used. | 08192-1A990 |
| FOR **T23*R | |

PRECAUTIONS

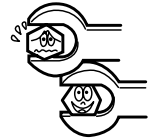


PLEASE READ THOROUGHLY THESE PRECAUTIONS BEFORE THE TVSS INSTALLATION

- Be sure to disconnect the negative (-) lead from the battery terminals.



- Use the correct tool when tightening bolts or nuts.



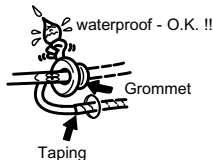
- Do not pinch the rear wiring or harness in the tightened part.



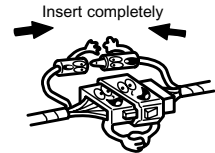
- Before drilling a hole, check that the rear of the mounting wall is clear.



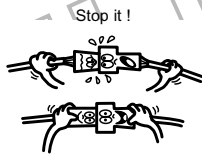
- When passing the wires through the bulkhead or other panels, use a grommet to ensure waterproofing.
- Protect the wiring with tape when it is passed through a hole.



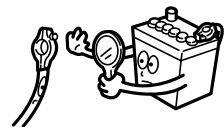
- Be sure to firmly tighten connectors and terminals.



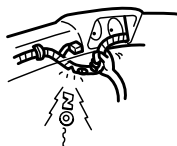
- When disconnecting the connectors, be sure to grip the connector body. Do not tug on the wiring.



- Before connecting the power wiring to the battery, check the wiring connections, harness, etc. to see that they are properly secured.



- Do not forcibly pull any car wiring harness. Rough tugging may result in opened connections, or a broken wire or harness.



- Check body and trim near area of installation to be certain no dirt or scratches resulted from the installation.

- Confirm that lamps, horn, wiper and other car accessories operate normally.



- Protect your car with wing covers, seat and so on.

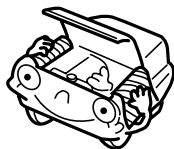


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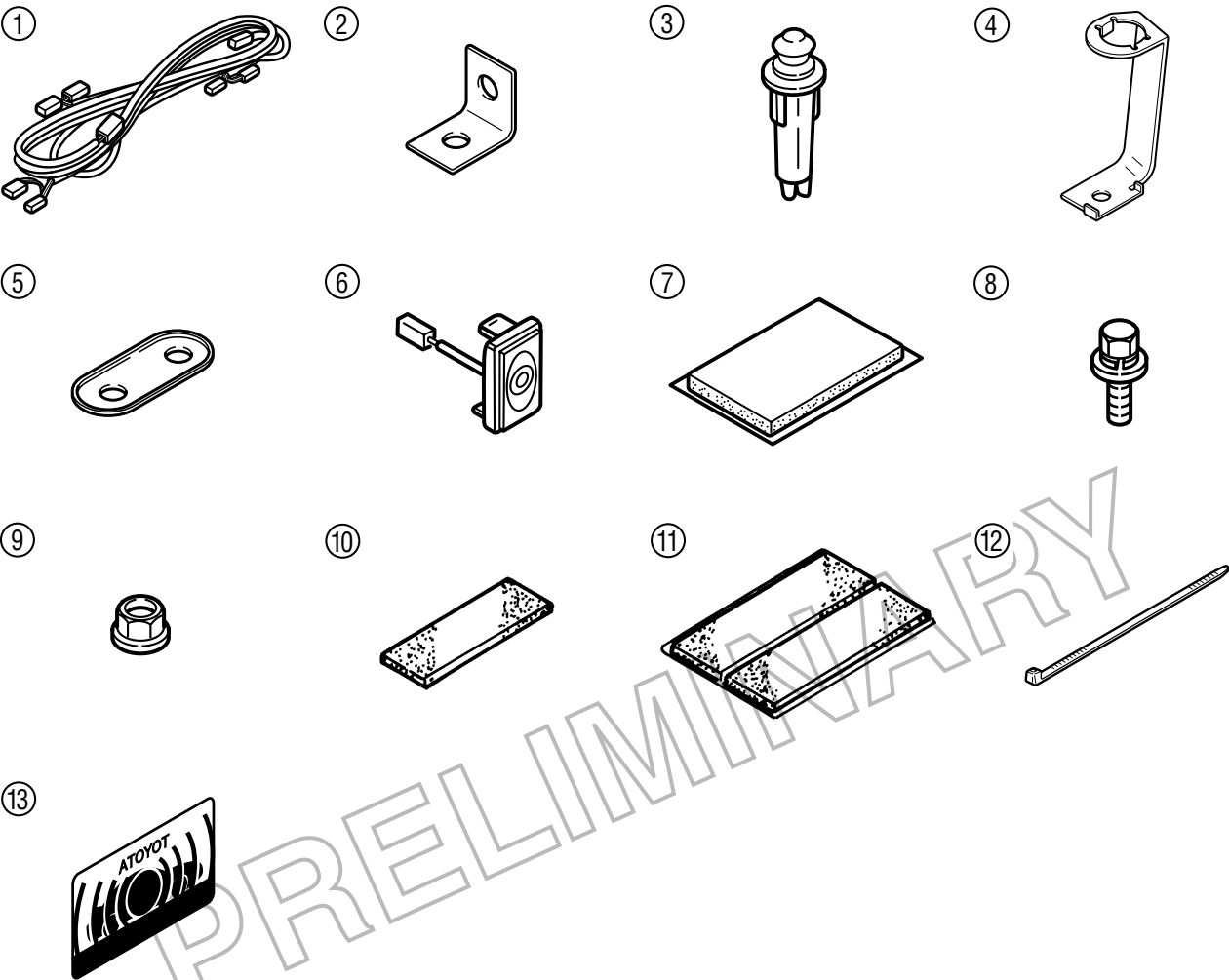


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FITTING KIT**08586-2D832**

| Pos. No. | Description | Qty |
|----------|-------------------------------|-----|
| ① | WIRE HARNESS | 1 |
| ② | TVSS ECU BRACKET | 1 |
| ③ | HOOD SWITCH | 1 |
| ④ | HOOD SWITCH BRACKET | 1 |
| ⑤ | SIREN MOUNTING BRACKET | 1 |
| ⑥ | STATUS MONITOR | 1 |
| ⑦ | BUTYL TAPE | 2 |
| ⑧ | BOLT (M6 X 18) | 2 |
| ⑨ | NUT (M6) | 3 |
| ⑩ | FOAM (1 DIVISION ON 1 SHEET) | 5 |
| ⑪ | FOAM (2 DIVISIONS ON 1 SHEET) | 2 |
| ⑫ | WIRE TIE | 25 |
| ⑬ | WINDOW STICKERS | 2 |

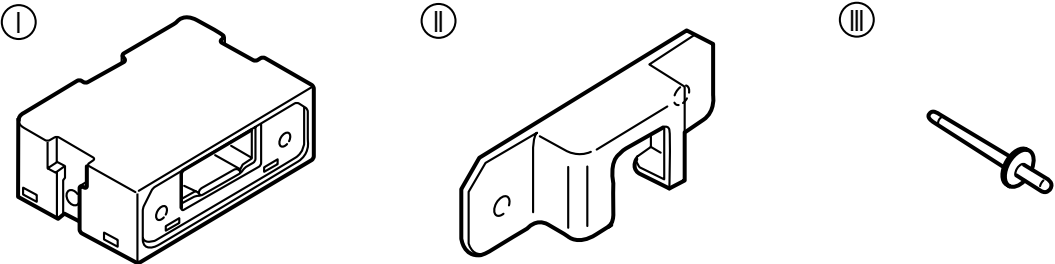
PRELIMINARY



MAIN KIT

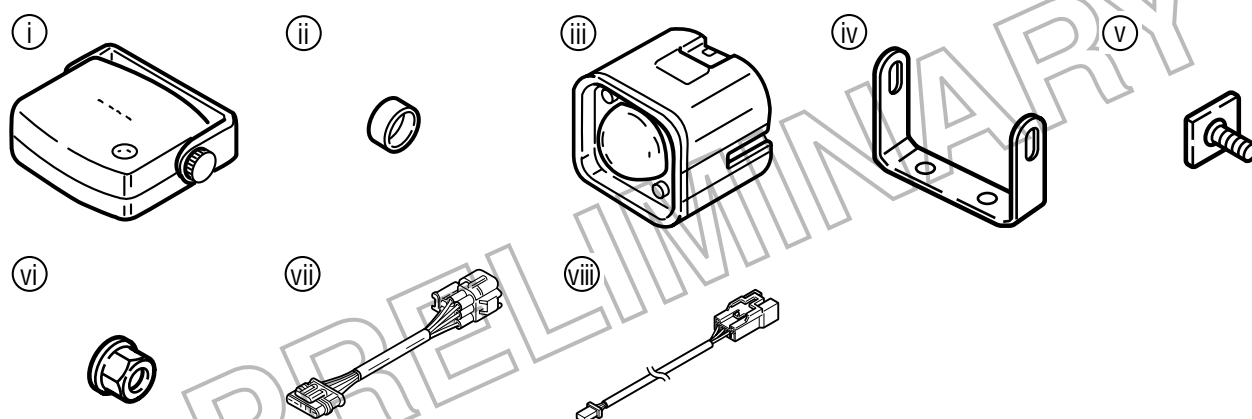
08585-12950

| Pos. No. | Description | Qty |
|----------|------------------------|-----|
| Ⅰ | TVSS ECU | 1 |
| Ⅱ | ECU PROTECTIVE BRACKET | 1 |
| Ⅲ | BLIND RIVET | 2 |

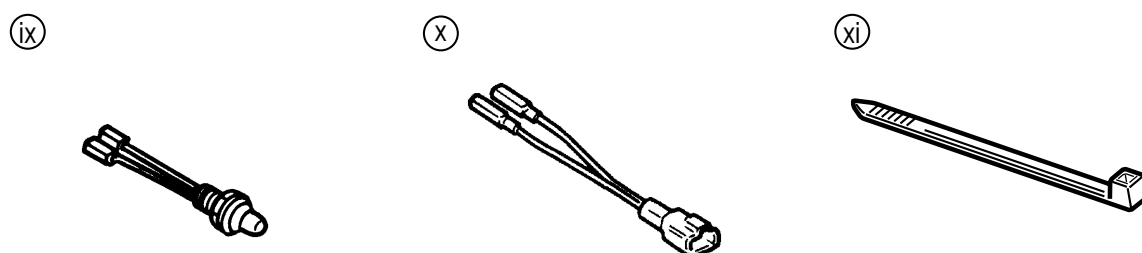


SUB KIT (RADAR AND SIREN)**08586-1A891**

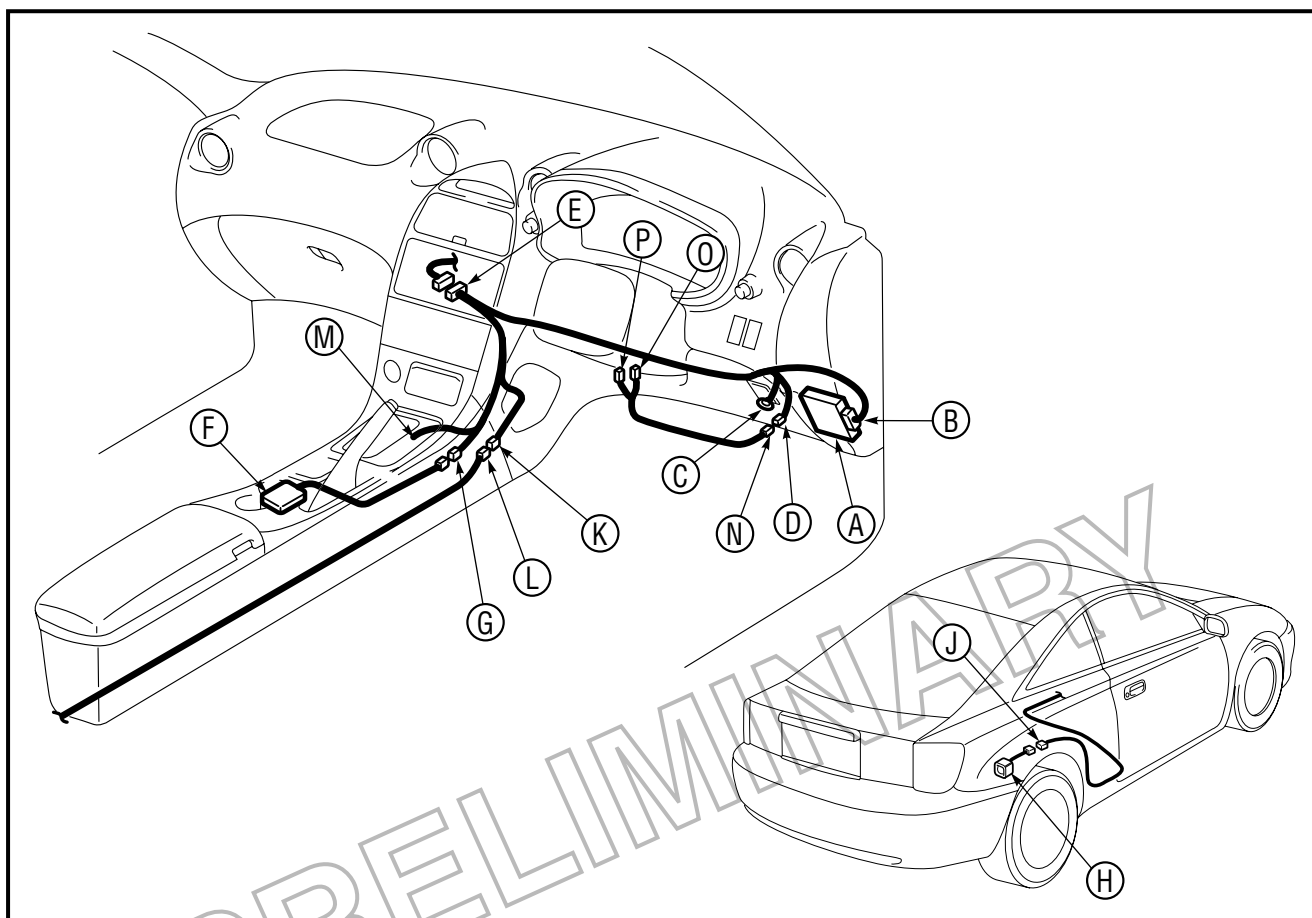
| Pos. No. | Description | Qty |
|----------|----------------------|-----|
| (i) | RADAR SENSOR | 1 |
| (ii) | CAP | 2 |
| (iii) | SIREN | 1 |
| (iv) | SIREN BRACKET | 1 |
| (v) | BOLT | 2 |
| (vi) | NUT | 2 |
| (vii) | SIREN WIRE HARNESS | 1 |
| (viii) | RADAR SENSOR HARNESS | 1 |

**STATUS MONITOR (LED KIT) WHEN SWITCH BASE IS USED****08192-1A990**

| Pos. No. | Description | Qty |
|----------|--------------------------|-----|
| (ix) | LED | 1 |
| (x) | LED ADAPTOR WIRE HARNESS | 1 |
| (xi) | WIRE TIE | 2 |

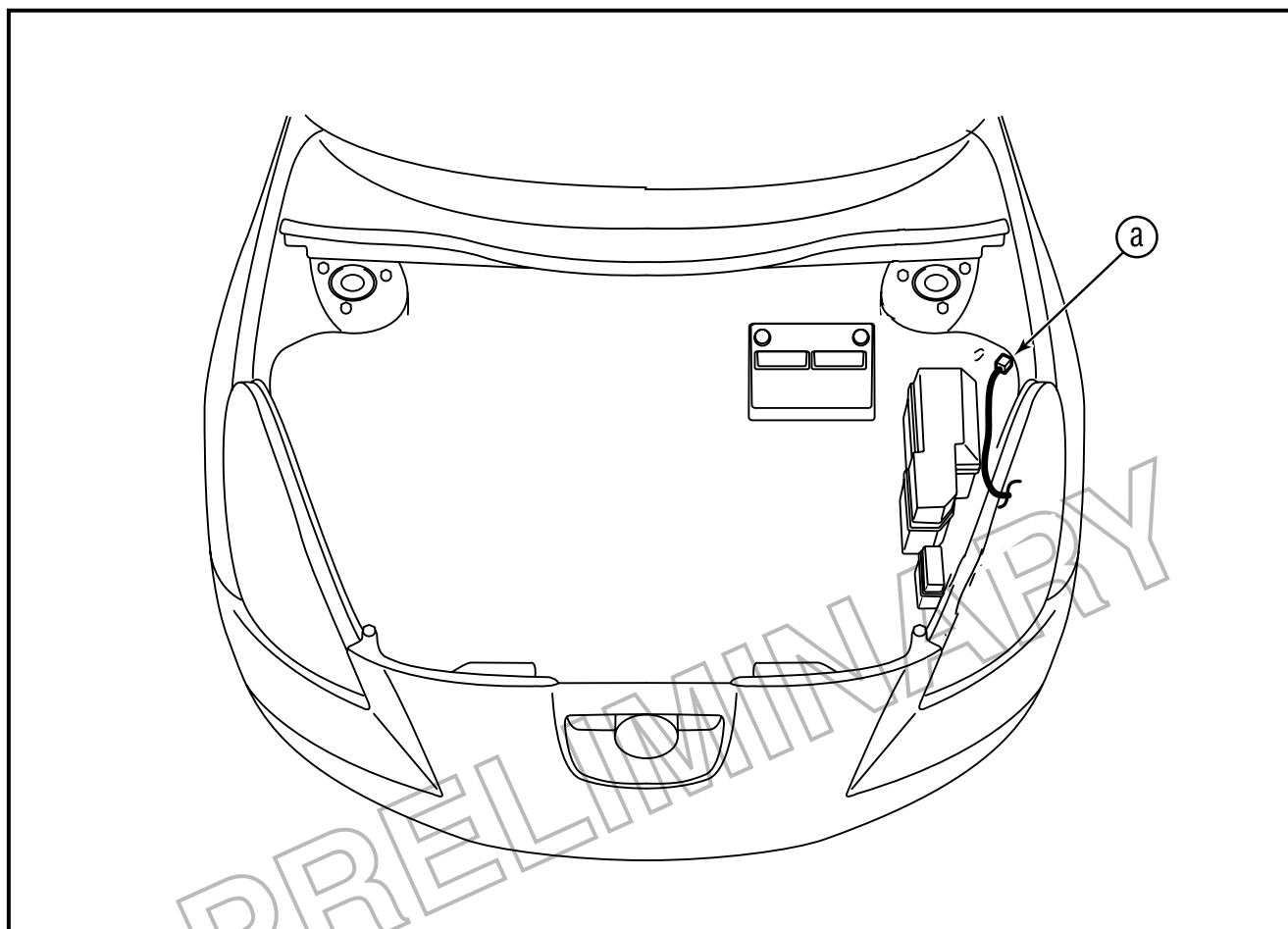


SYSTEM LAYOUT AND WIRE HARNESS OUTLINE (MAIN)



| | |
|-----|--------------------------------------|
| (A) | TVSS ECU |
| (B) | tvss ecu connector (26P female grey) |
| (C) | ground terminal |
| (D) | status monitor (2P female clear) |
| (E) | Pre-wired connector (18P male) |
| (F) | radar sensor |
| (G) | radar sensor connector (4P female) |
| (H) | Siren |
| (J) | Siren connector (6P female) |
| (K) | Joint connector (5P male) |
| (L) | Joint connector (5P female) |
| (M) | Sensitivity Terminal wire (yellow) |
| (N) | LED connector (2P male clear) |
| (O) | LED connector (1P male brown-wired) |

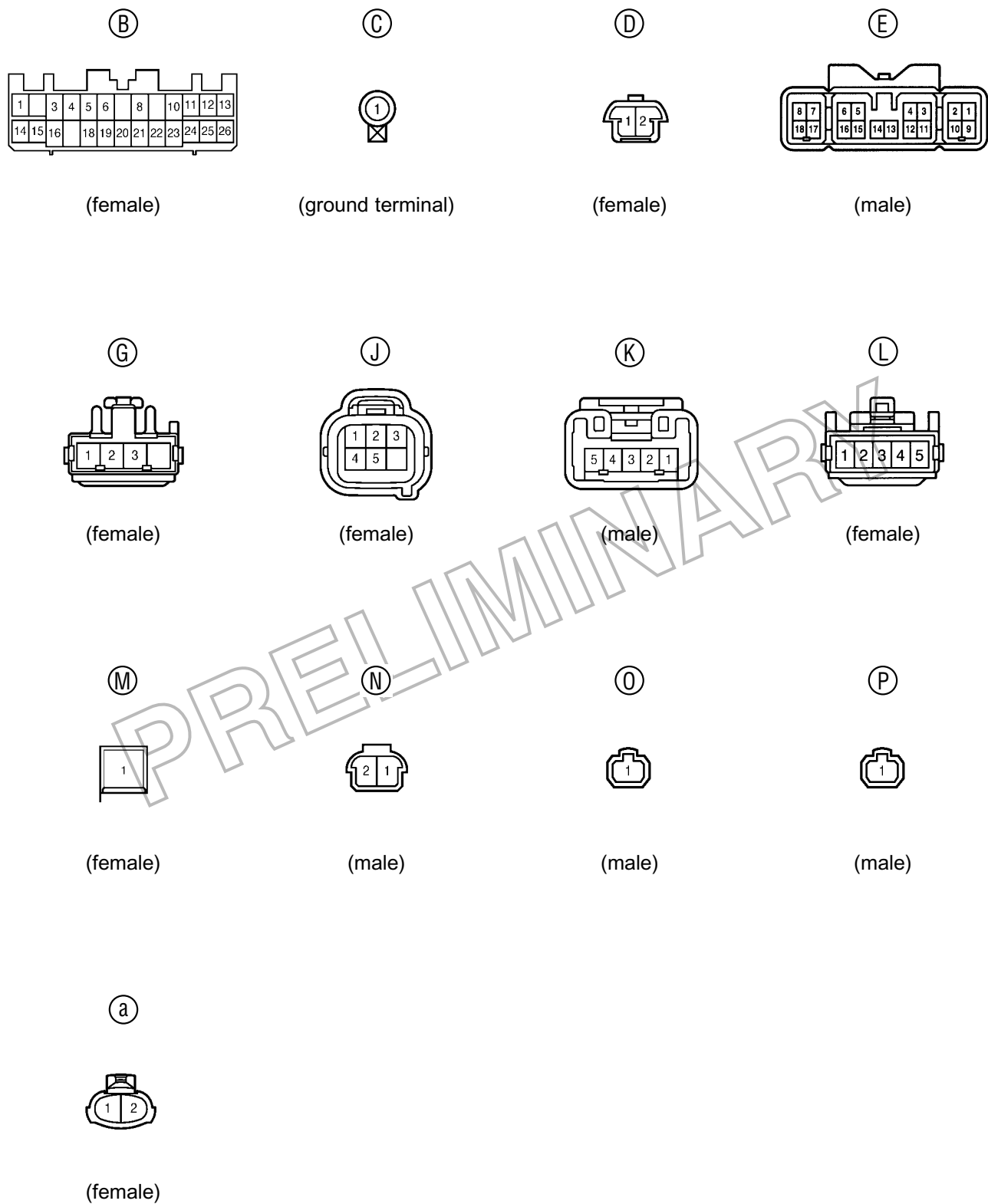
SYSTEM LAYOUT AND WIRE HARNESS OUTLINE (ENGINE)



a

Pre-wired connector (2P female white)

CONNECTOR ARRANGEMENT OF THE TVSS (PIN VIEW)



VEHICLE DISASSEMBLY

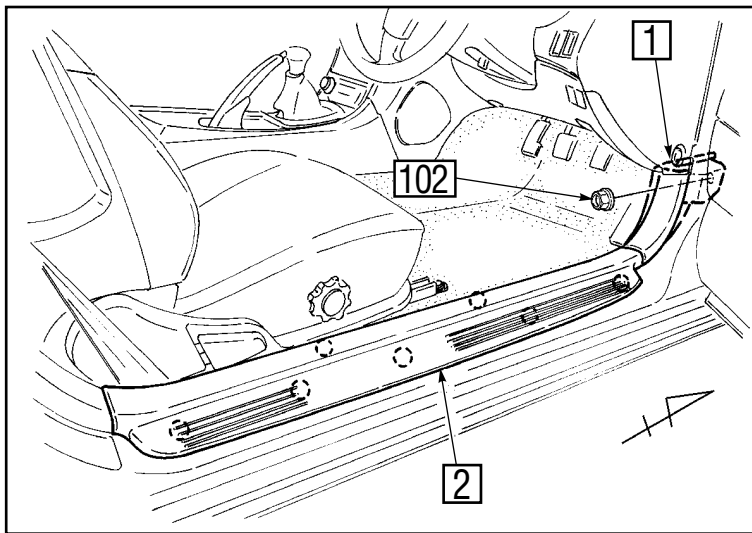


Figure 1

1.

Using the moulding remover (SST), remove the driver's side cowl cover [1] and step cover [2].

[102] : Clip (1x)

○ : Clip (7x)

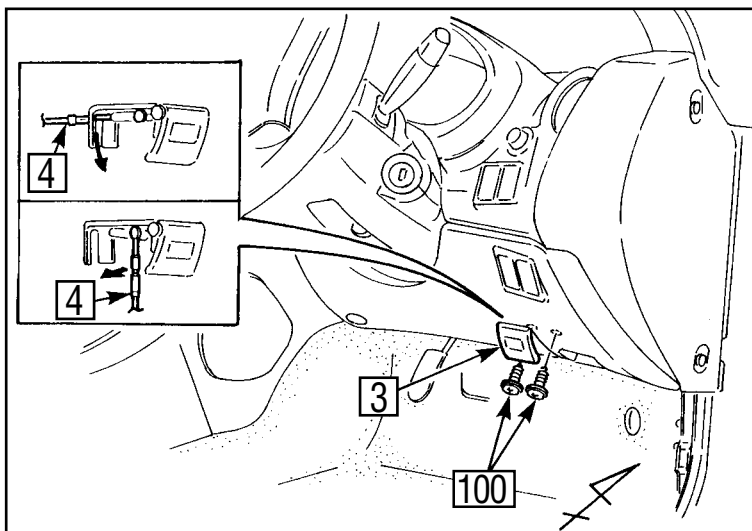


Figure 2

2.

a) Remove the screw [100] (2x) securing the hood opener lever [3].

b) Remove the hood opener cable [4] from the lever [3] as follows : pull down the cable [4] and remove it from the slot of the lever [3].

Rotate the cable [4] down and remove it from the hole of lever [3].

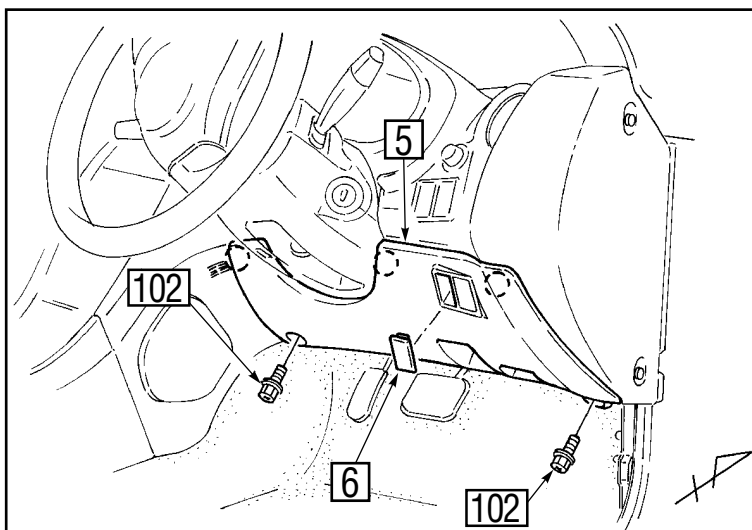


Figure 3

3.

a) Using the moulding remover (SST), remove the under dash cover [5].

[102] : Bolt (2x)

○ : Clip (3x)

b) Remove and discard the switch hole cover [6] from the under dash cover [5] if equipped.

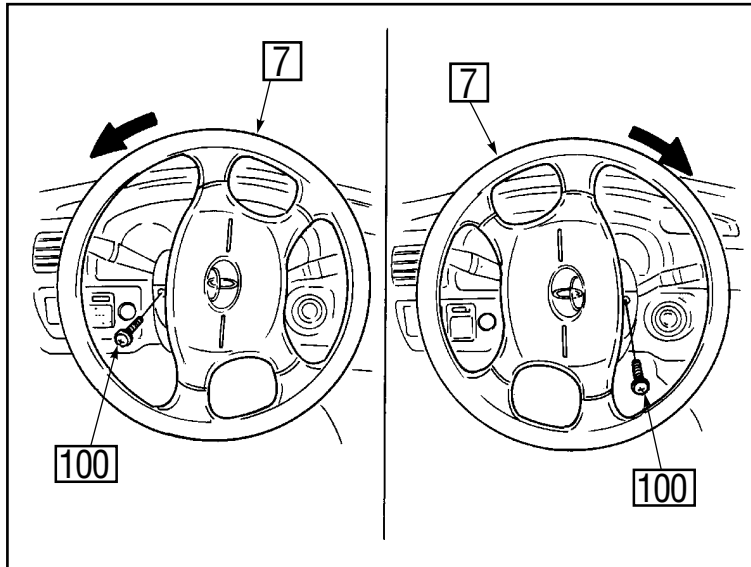


Figure 4

WHEN SWITCH BASE IS USED

4.
 - a) Turn the steering wheel 7 to the left , then remove the screw 100 .
 - b) Turn the steering wheel 7 to the right , then remove the screw 100 .

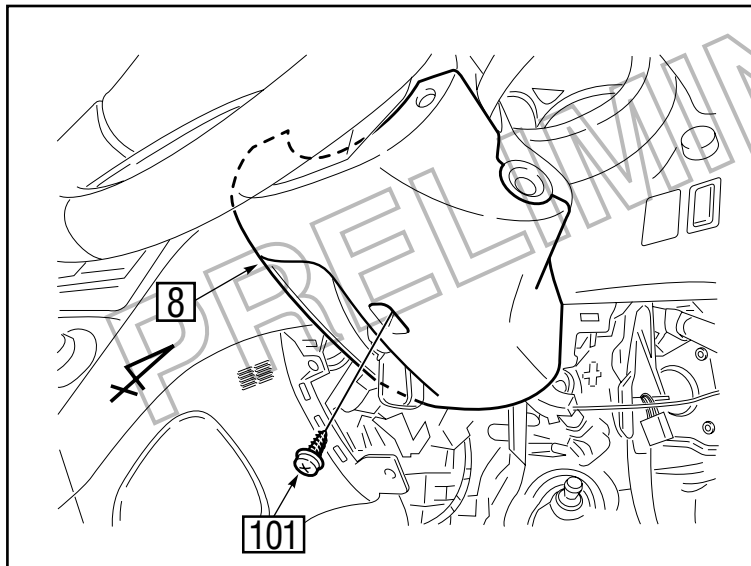


Figure 5

WHEN SWITCH BASE IS USED

5. Remove the steering column lower cover 8 .
- 101 : Screw (1x)

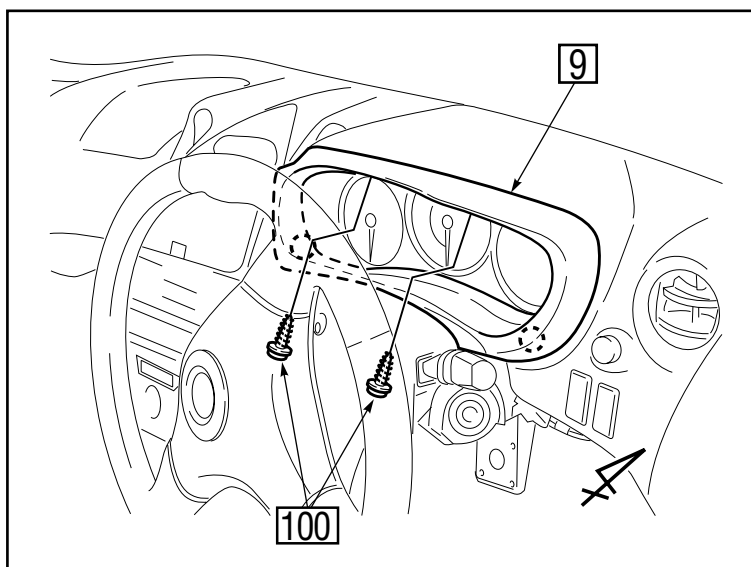


Figure 6

WHEN SWITCH BASE IS USED

6. Using the moulding remover (SST), remove the meter panel cover 9 .
- : Clip (2x)
- 100 : Screw (2x)

CAUTION

Do not scratch the meter panel.

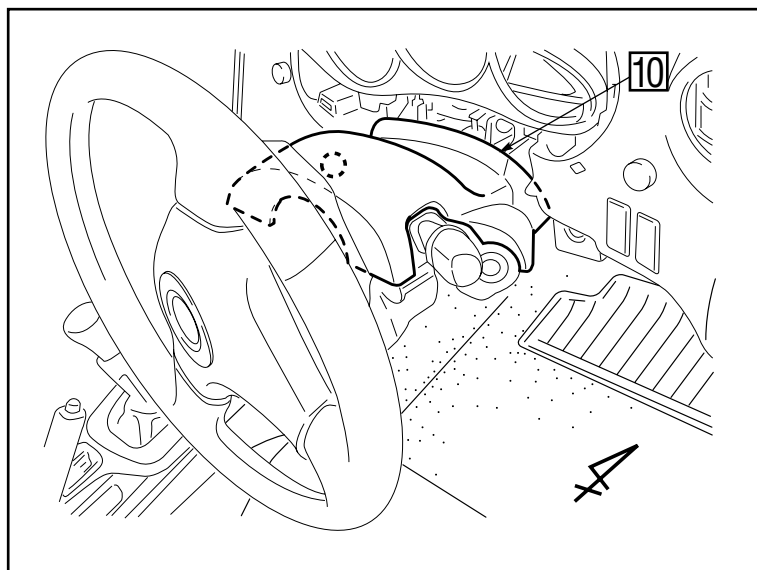


Figure 7

WHEN SWITCH BASE IS USED

7.

Remove the steering column upper cover 10.

○ : Clip (1x)

CAUTION

Do not scratch the meter panel.

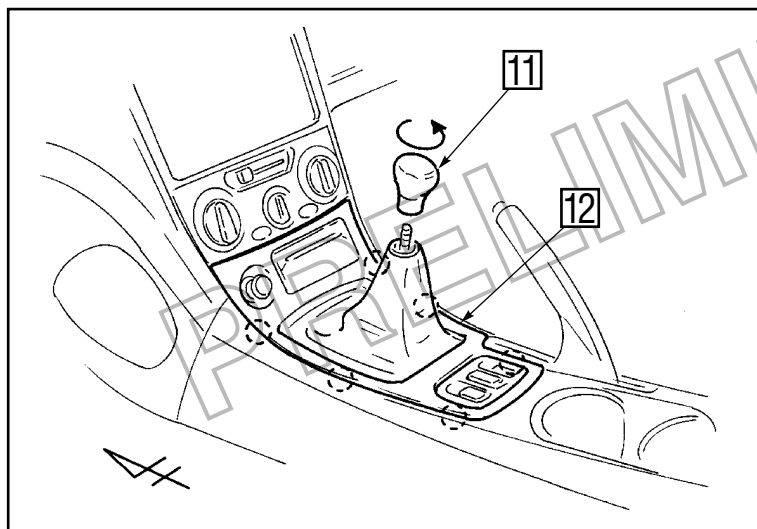


Figure 8

FOR MANUAL TRANSMISSION

8.

- a) Remove the shift knob 11.
- b) Using the moulding remover (SST), remove the shift cover 12.

○ : Clip (6x)

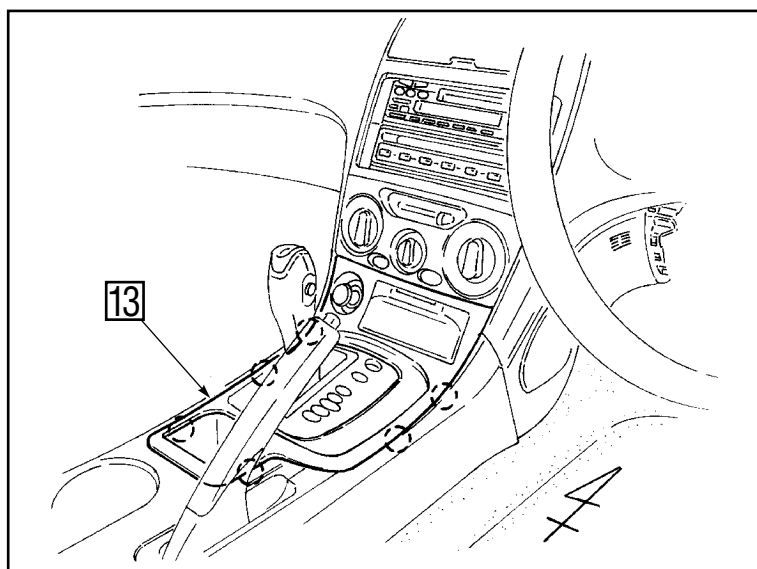


Figure 9

FOR AUTOMATIC TRANSMISSION

9.

Using the moulding remover (SST), remove the shift cover 13.

○ : Clip (6x)

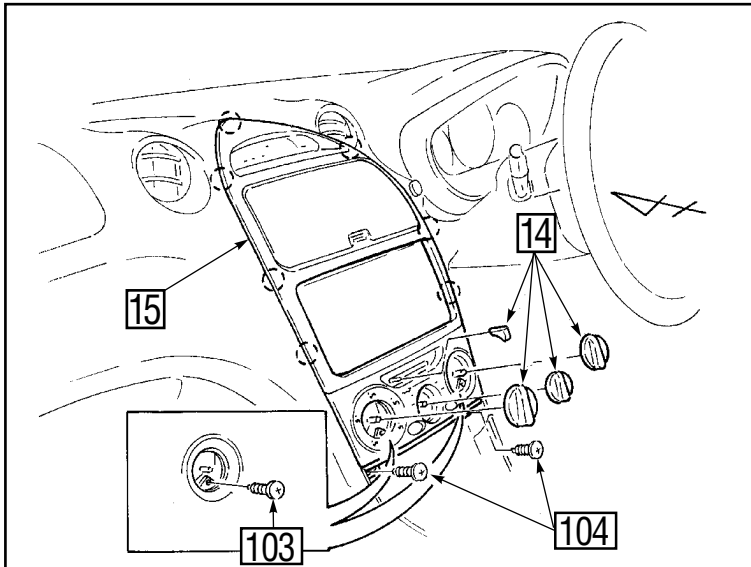


Figure 10

WITH MANUAL AIR CONDITIONER

10.

- a) Pull and remove the air conditioner control knobs 14 (4x).
- b) Using the moulding remover (SST), remove the cluster panel 15.

103 : Screw (2x)

104 : Screw (2x)

○ : Clip (7x)

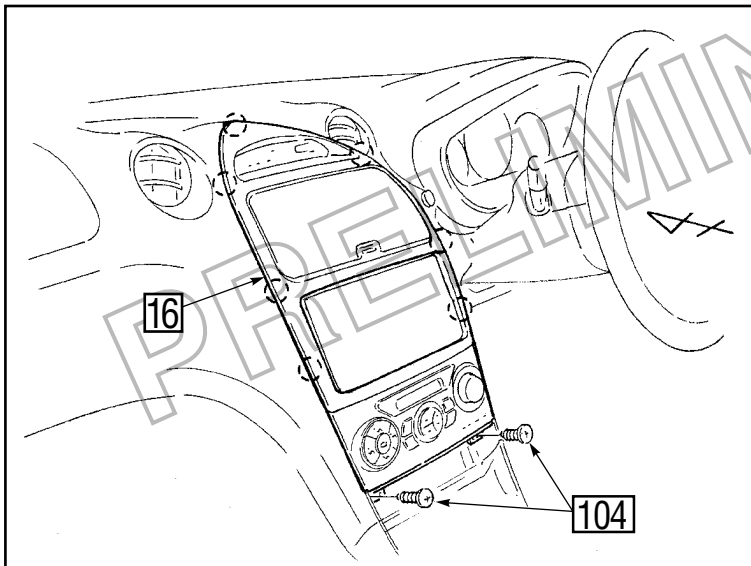


Figure 11

WITH AUTO AIR CONDITIONER

11.

Using the moulding remover (SST), remove the cluster panel 16.

104 : Screw (2x)

○ : Clip (7x)

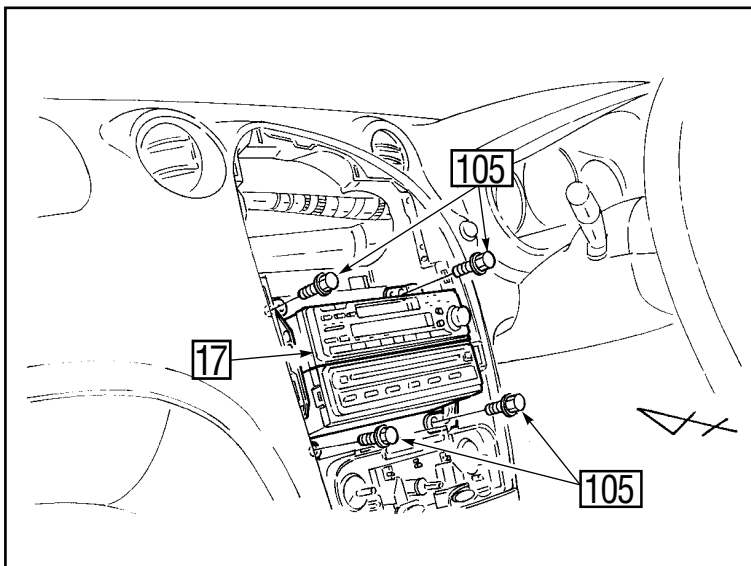


Figure 12

FOR ALL MODELS

12.

Remove the audio unit 17.

105 : Bolt (4x)

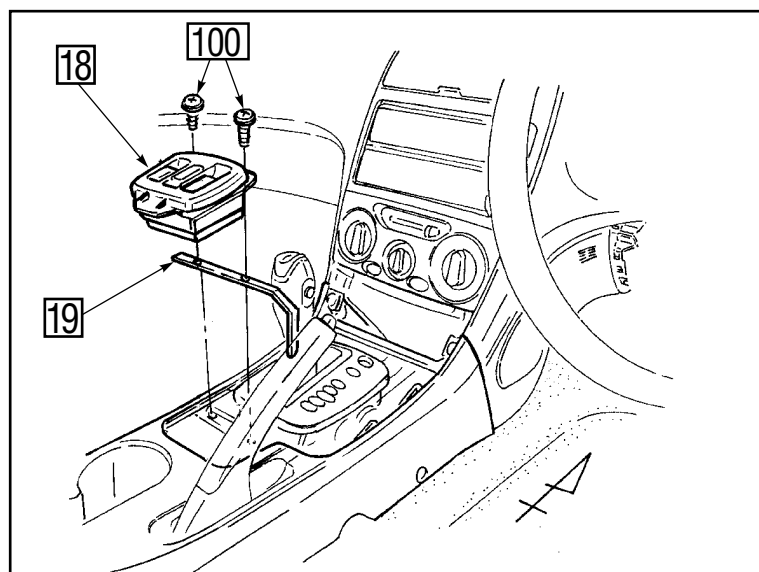


Figure 13

13.

- a) Remove the screw 100 securing the switch assembly 18.
- b) Remove the vehicle's bracket 19.

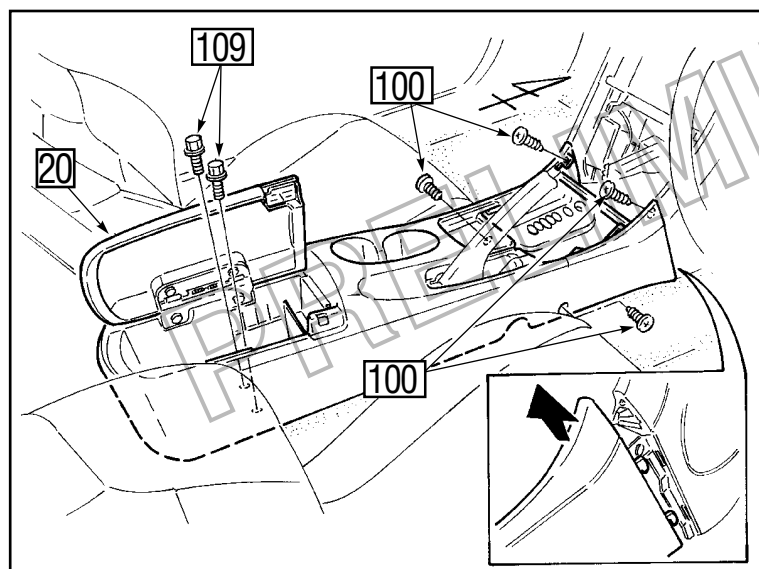


Figure 14

14.

Disconnect and remove the console compartment 20.

100 : Screw (4x)

109 : Bolt (2x)

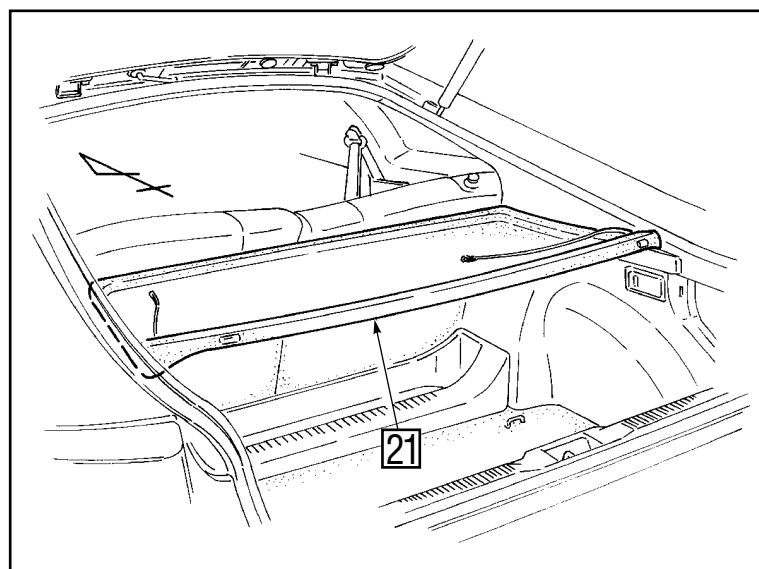


Figure 15

15.

Pull and remove the rear shelf cover 21.

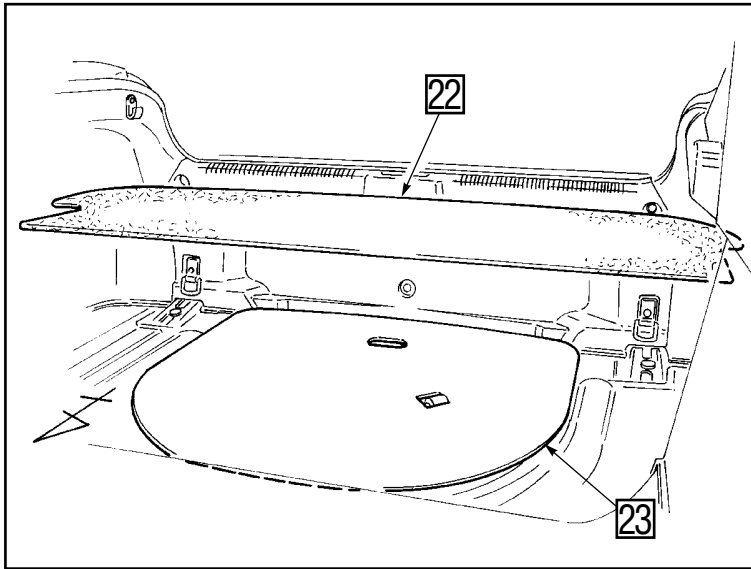


Figure 16

16.

- a) Remove the luggage compartment carpet 22.
- b) Remove the tire cover 23.

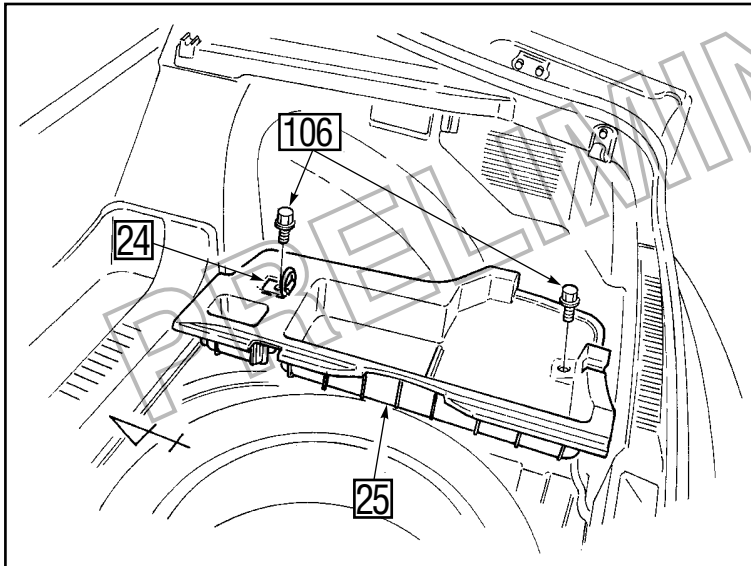


Figure 17

FOR VEHICLES WITH DECK FLOOR BOX

17.

- a) Remove the hook 24.
- b) Remove the driver's side deck floor box 25.

106 : Bolt (2x)

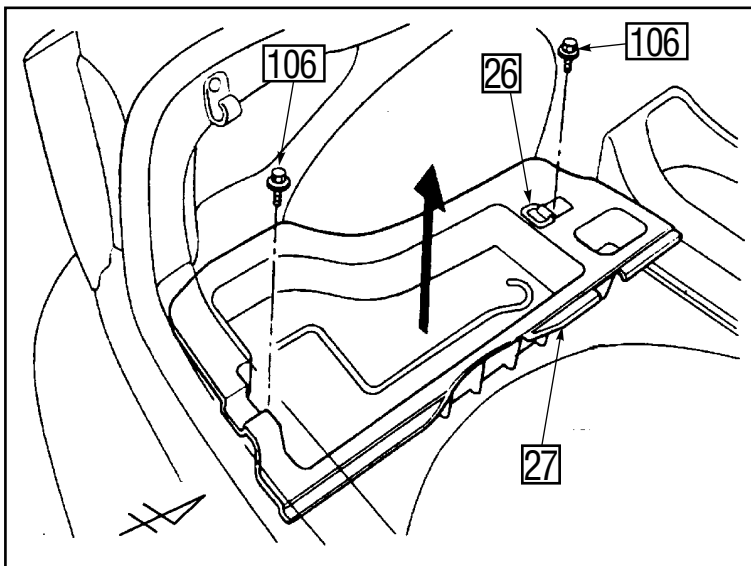


Figure 18

FOR VEHICLES WITH DECK FLOOR BOX

18.

- a) Remove the hook 26.
- b) Remove the passenger's side deck floor box 27.

106 : Bolt (2x)

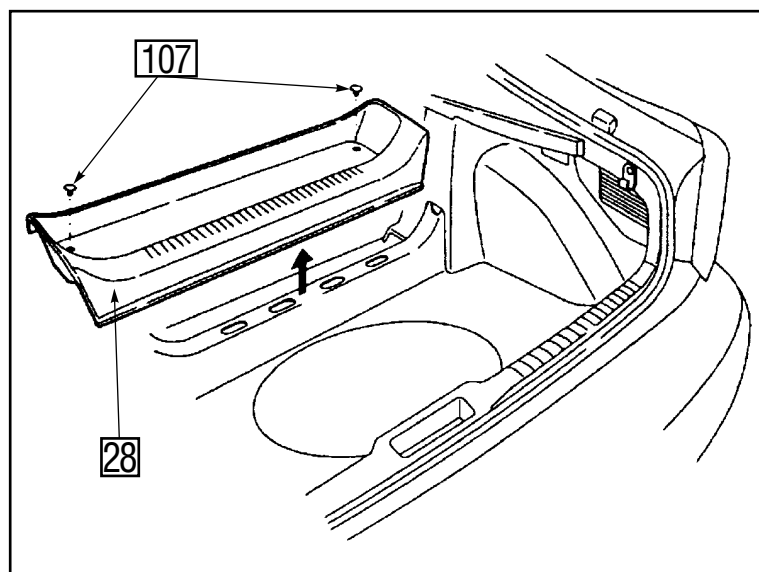


Figure 19

19.

Using the moulding remover (SST), remove the luggage front box 28.

107 : Clip (2x)

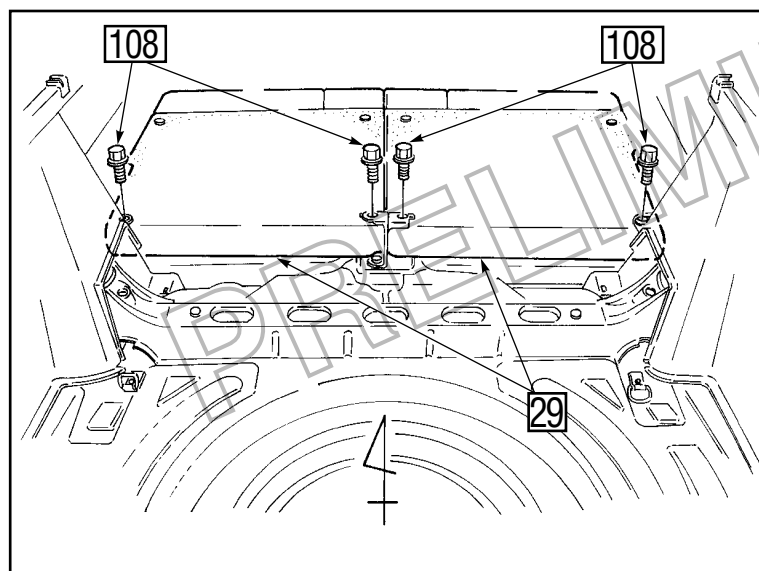


Figure 20

20.

Remove the rear seat back 29.

108 : Bolt (4x)

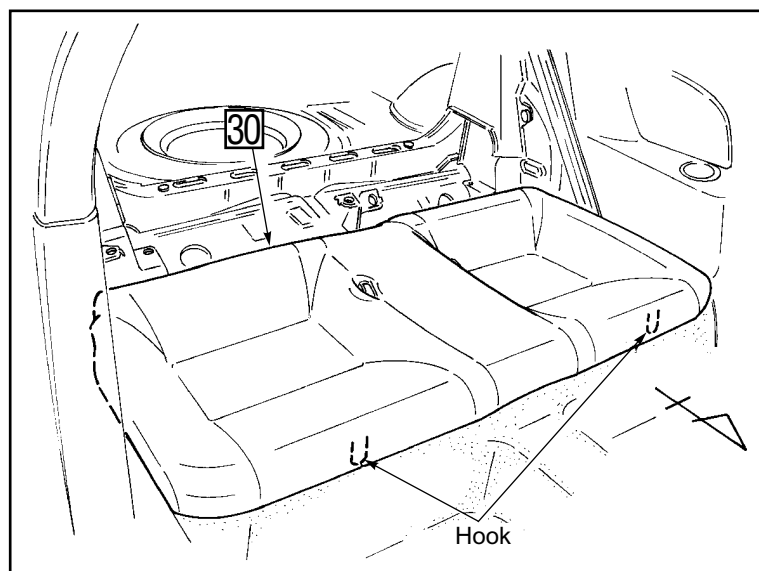


Figure 21

21.

Pull up and remove the rear seat cushion 30.

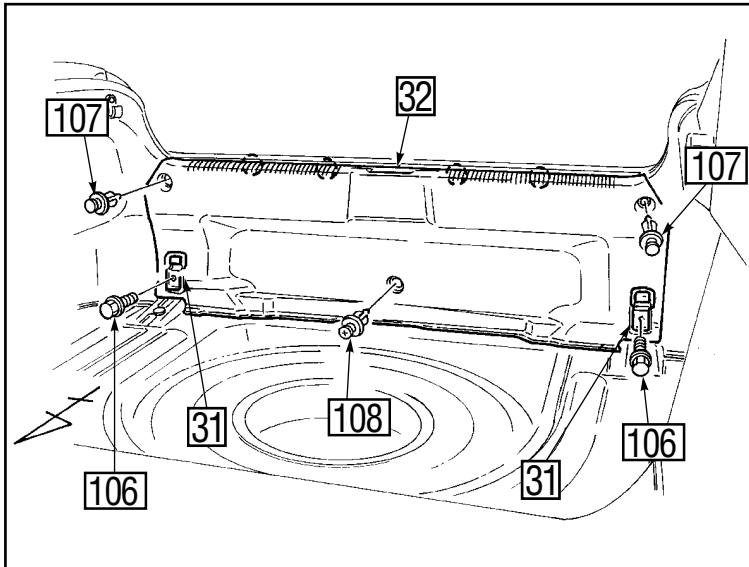


Figure 22

22.

- a) Remove the hooks 31.
- 106 : Bolt (2x)
- b) Using the moulding remover (SST), remove the deck back trim 32.
- 107 : Clip (2x)
- 108 : Clip (1x)
- : Clip (4x)

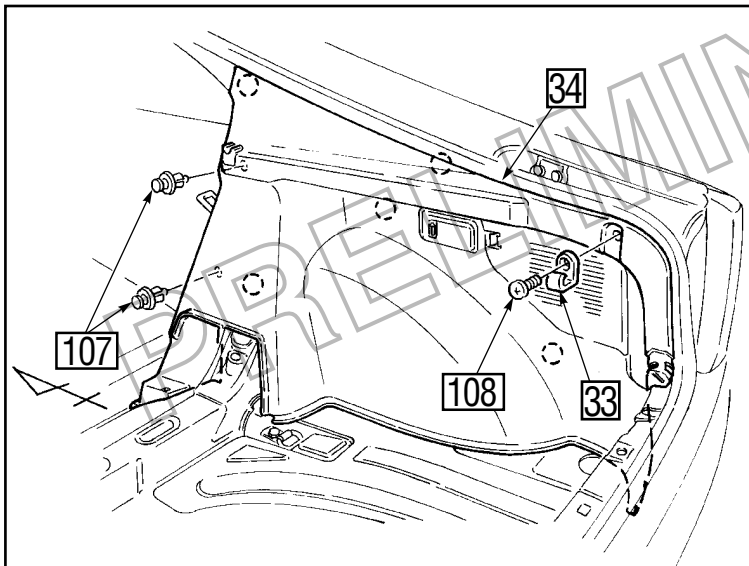


Figure 23

23.

- a) Remove the rear shelf cover hook 33.
- 108 : Screw (1x)
- b) Using the moulding remover (SST), remove the deck trim side panel 34.
- 107 : Clip (2x)
- : Clip (5x)

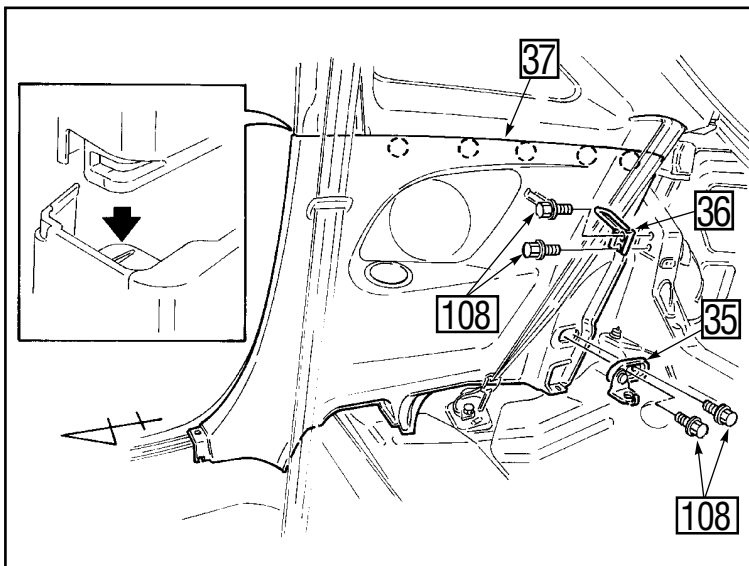


Figure 24

24.

- a) Remove the rear seatback hinge 35 and rear seatback hook 36.
- 108 : Bolt (4x)
- b) Using the moulding remover (SST), remove the driver's side quarter inside trim board cover 37.
- : Clip (5x)

WIRE HARNESS INSTALLATION PART-1

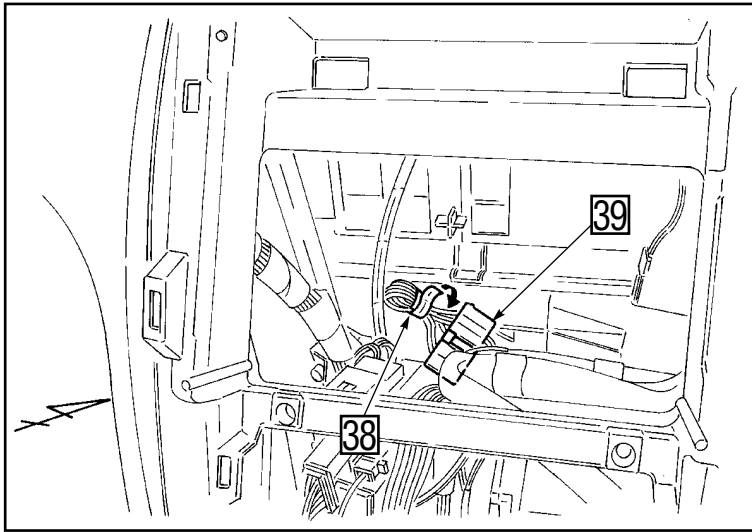


Figure 25

1.

Remove the tape 38 securing the pre-wired 18P (grey) connector 39.

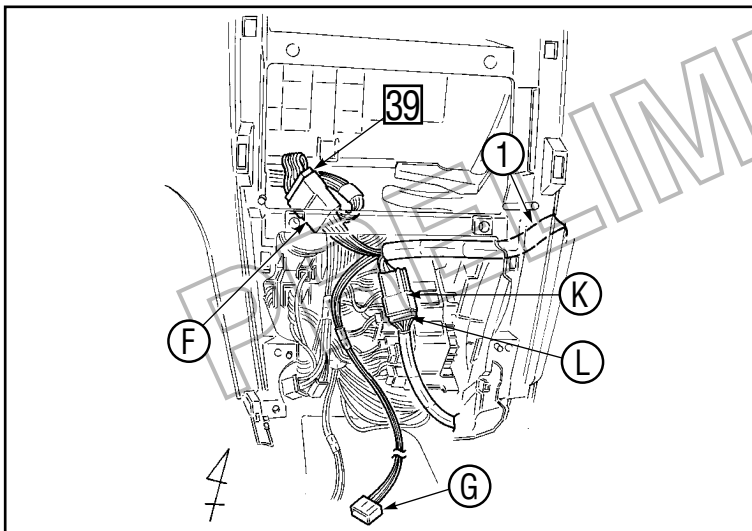


Figure 26

2.

a) Reconnect the 5P connectors (K), (L) of TVSS wire harness 1.

NOTE

Route the TVSS wire harness 1 to this position after installing the siren after reconnect.

b) Connect the 18P connector (white) (F) of the TVSS wire harness 1 to the pre-wired 18P connector 39.

3.

Route and attach the TVSS wire harness 1 to the vehicle harness using the wire ties 12 (2x).

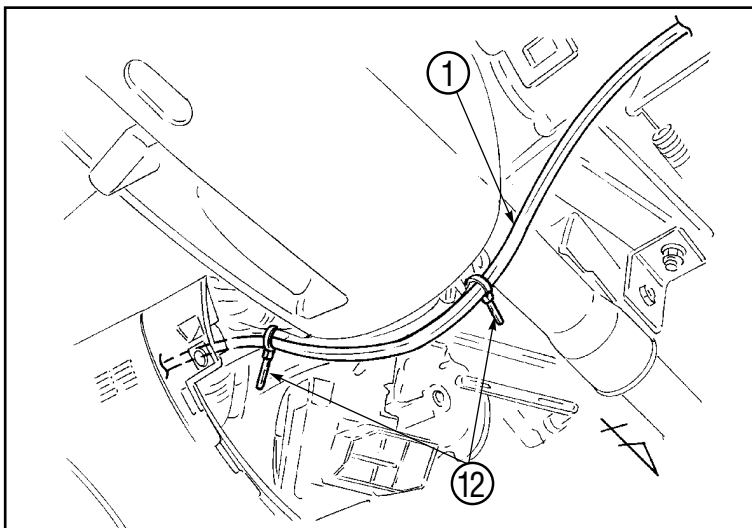


Figure 27

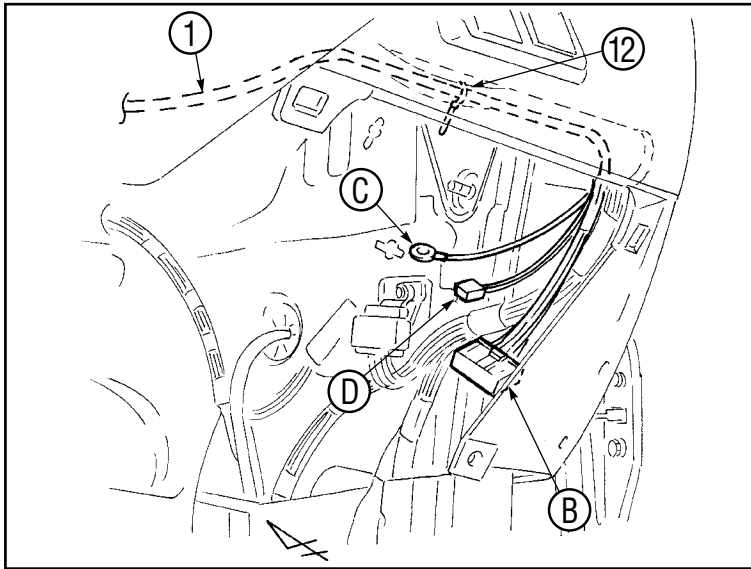


Figure 28

4.

Route and attach the TVSS wire harness ① to the vehicle harness using the wire ties ⑫ (1x).

PRELIMINARY

MOUNTING THE TVSS ECU

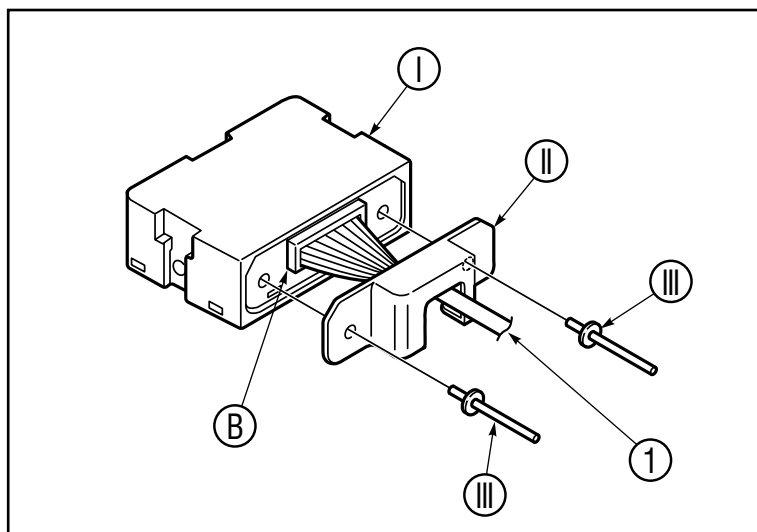


Figure 29

1.
 - a) Test the system as explained in the SETTING GUIDE.
 - b) Connect the TVSS ECU connector (B) of the TVSS wire harness (1) 26P (grey) to the TVSS ECU (1).
 - c) Fit the protective bracket (II) to TVSS ECU (1) with the blind rivets (III) (2x).

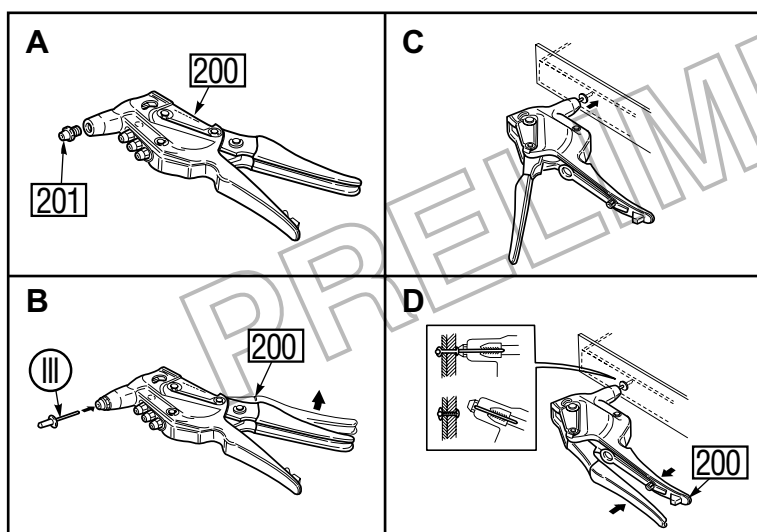


Figure 30

2.
 - a) Fit the nose adaptor fitting (201) to the nose of the rivetting tool (200).
 - b) Open the rivetting tool (200) and put the blind rivet (III) on the nose.
 - c) Insert the tip of the blind rivet (III) through the hole in TVSS ECU (1) as far as it will go.
 - d) Close the rivetting tool (200) arms repeatedly until the blind rivet (III) comes away.

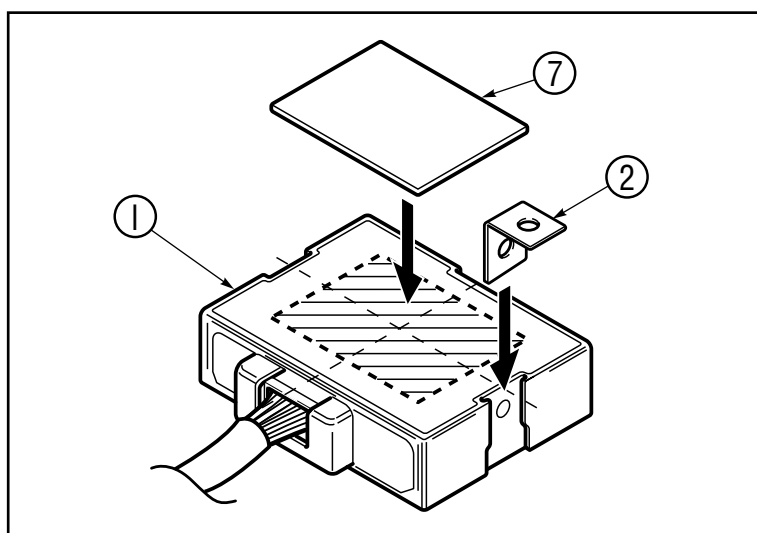


Figure 31

3.
 - a) Fit the TVSS ECU bracket (2) to the TVSS ECU (1).
 - b) Attach the second butyl tape (7) to the bottom of the TVSS ECU (1).

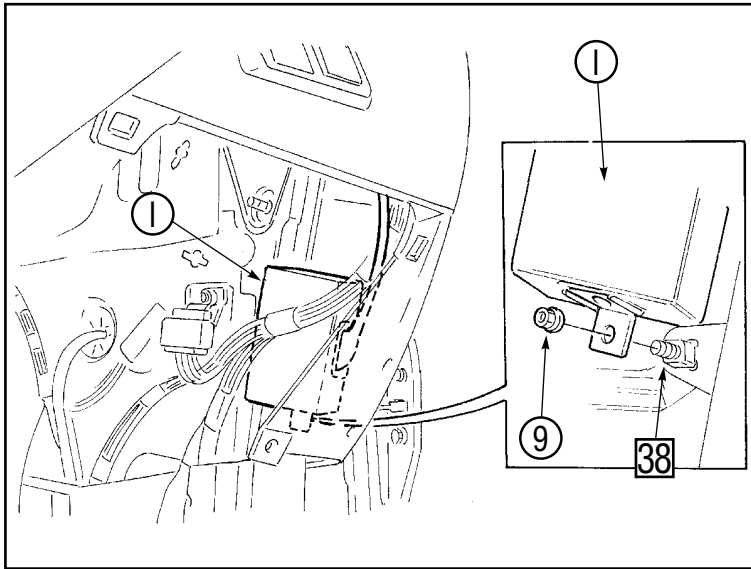


Figure 32

4.

Fit the TVSS ECU ① to the driver's side cowl area stud bolt ③⑧ using the nut ⑨ (1x).

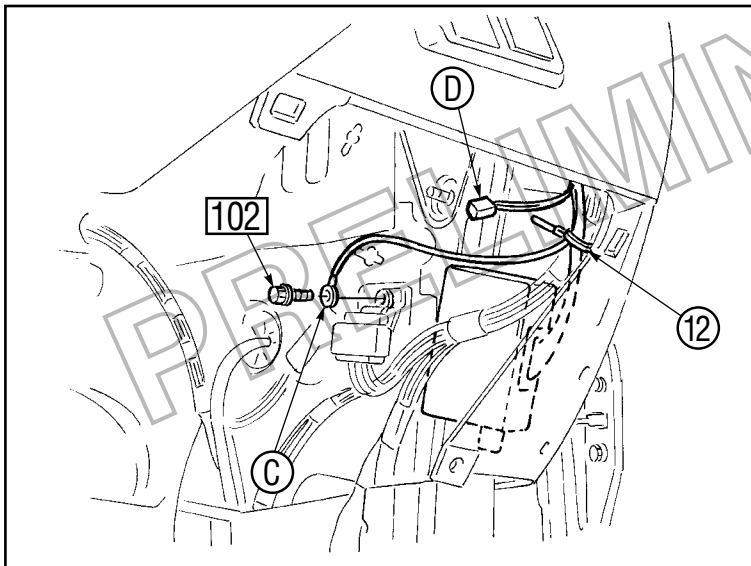


Figure 33

5.

- a) Remove the ground bolt ①②.
- b) Locate the ground terminal ③ of the TVSS wire harness ①.
- c) Secure the ground terminal ③ together with the vehicle's ground terminal using bolt ①②.
- b) Attach the TVSS wire harness ① to the vehicle harness using the wire tie ①② (1x).

MOUNTING THE STATUS MONITOR (WHEN SWITCH BASE IS UNUSED)

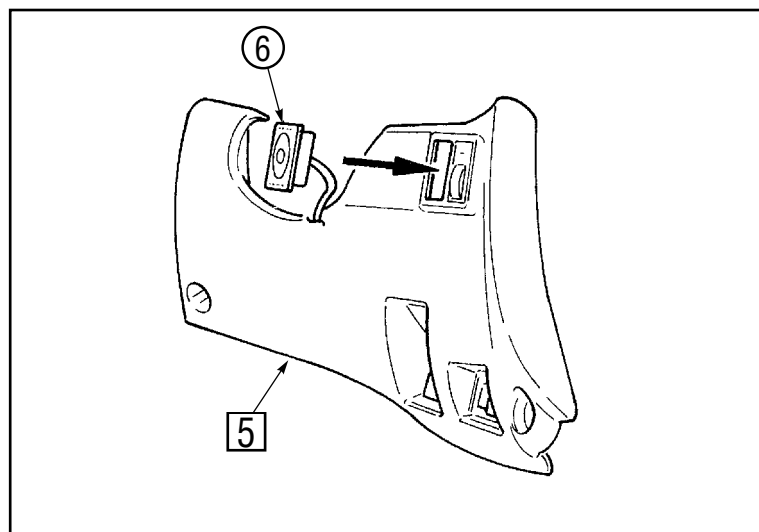


Figure 34

1.

Fit the status monitor ⑥ to the under dash cover ⑤.

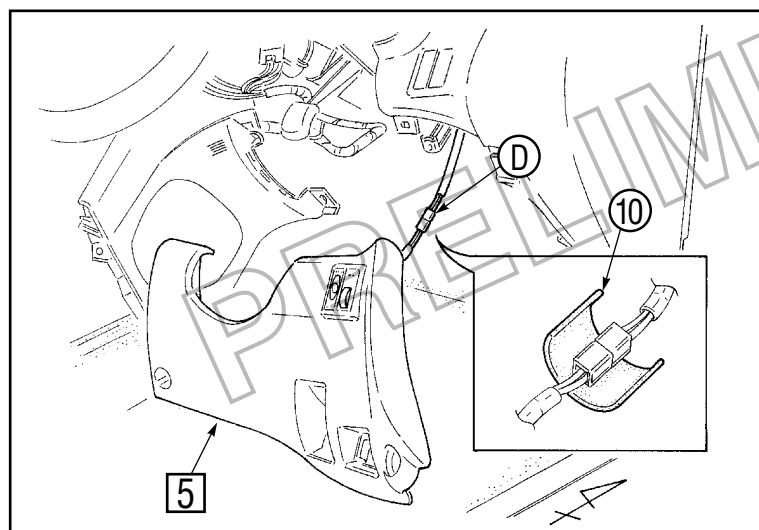


Figure 35

2.

- a) Connect the 2P connector ⑩ (clear) of TVSS wire harness ① to the 2P connector (clear) of status monitor ⑥.
- b) Wrap the 2P connectors into the foam ⑩ (1x).

THE STATUS MONITOR (WHEN SWITCH BASE IS USED)

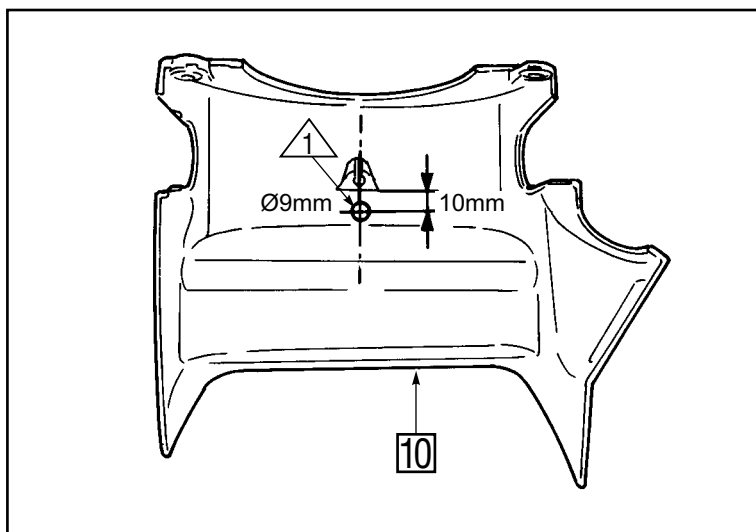


Figure 36

1.
 - a) Measure and mark the hole centre $\triangle 1$ on the column upper cover $\boxed{10}$.
 - b) Drill a hole $\triangle 1$ from the back side.

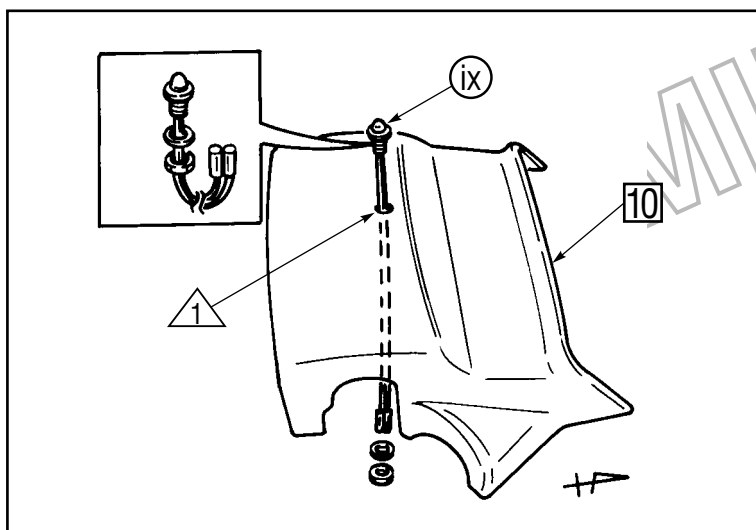


Figure 37

2.
 - a) Remove the nut and washer from the LED \textcircled{ix} .
 - b) Put the LED 1P connectors through the hole $\triangle 1$.
 - c) Fit the LED \textcircled{ix} into the hole $\triangle 1$ of the column upper cover $\boxed{10}$ with the nut and washer.

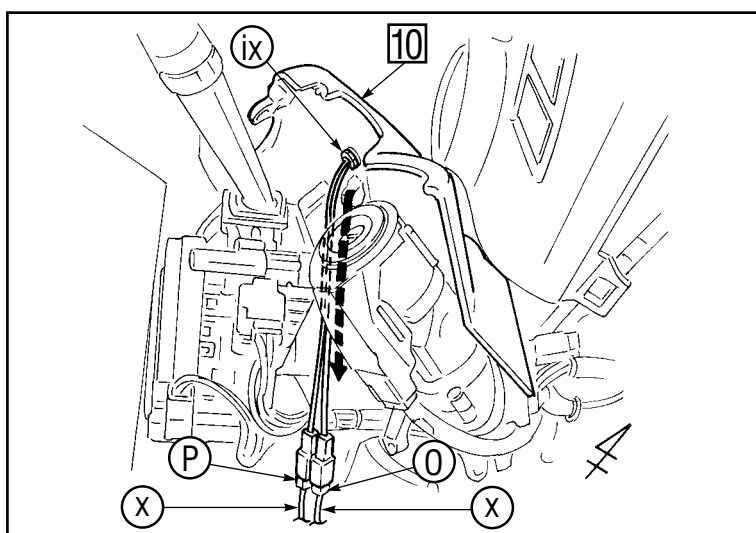


Figure 38

3.
 - a) Connect the brown-wired 1P connector \textcircled{O} of the LED wire harness \textcircled{x} to the brown-wired 1P connector of the LED \textcircled{ix} .
 - b) Connect the white/black-wired 1P connector \textcircled{P} of the LED wire harness \textcircled{x} to the white/black-wired 1P connector of the LED \textcircled{ix} .
 - c) Refit the column upper cover $\boxed{10}$.

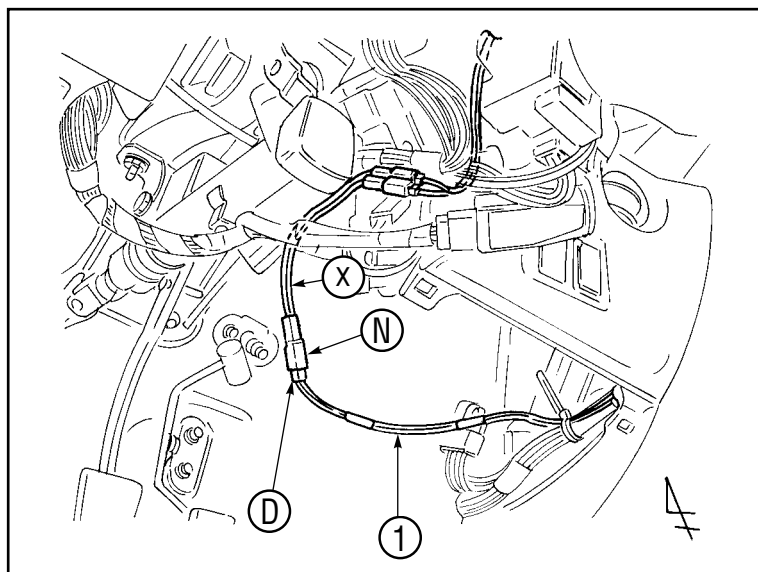


Figure 39

4.

Connect the 2P connector (D) of the TVSS wire harness (1) to the 2P connector (N) of the LED harness (X).

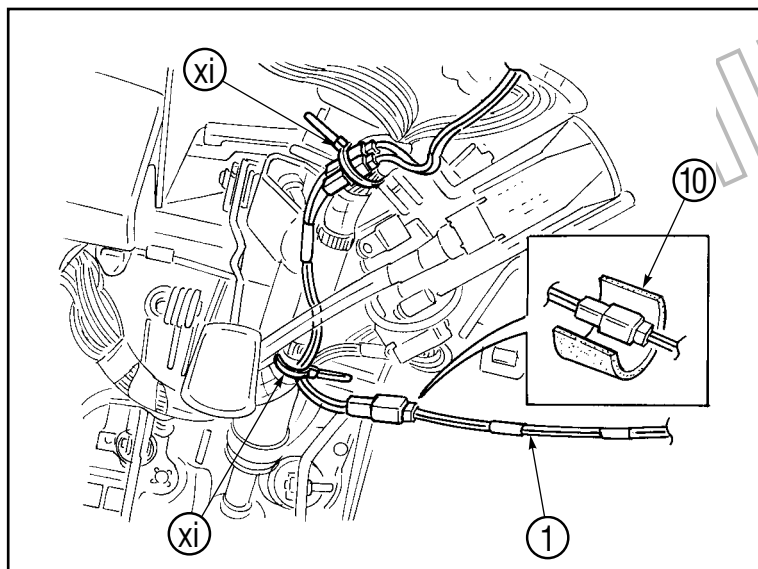


Figure 40

5.

- a) Secure the 1P connectors to the vehicle harness using the wire tie (xi) (1x).
- b) Secure the TVSS wire harness (1) to the vehicle harness using the wire tie (xi) (1x).
- c) Wrap the 2P connectors in the foam (10).

MOUNTING THE SIREN

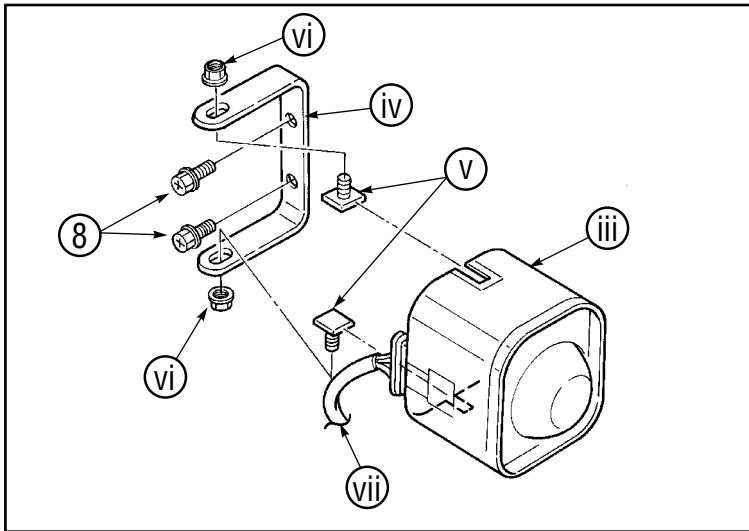


Figure 41

1.
 - a) Connect the siren wire harness (vii) to the siren (iii).
 - b) Put the bolts (8) (2x) into the siren bracket (iv).
 - c) Fit the siren (iii) to the siren bracket (iv) using the bolts (v) (2x) and nuts (vi) (2x).

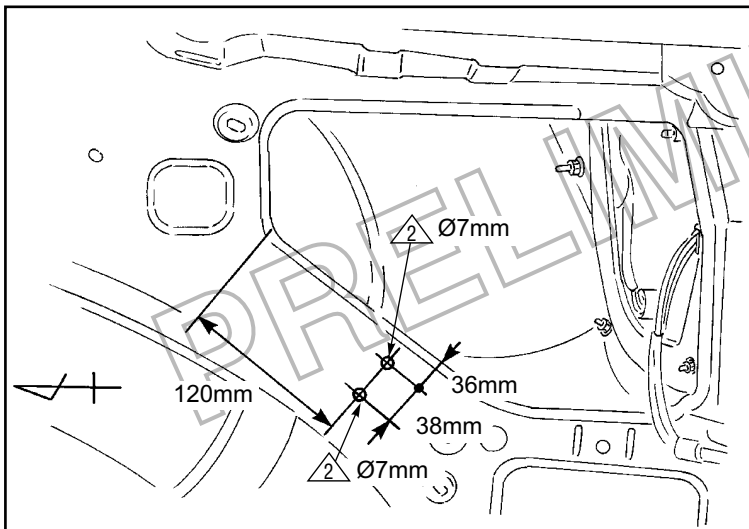


Figure 42

2.
 - a) Measure and mark the hole centre (2) (2x) on the driver's side luggage compartment panel.
 - b) Drill the holes (2) (2x).

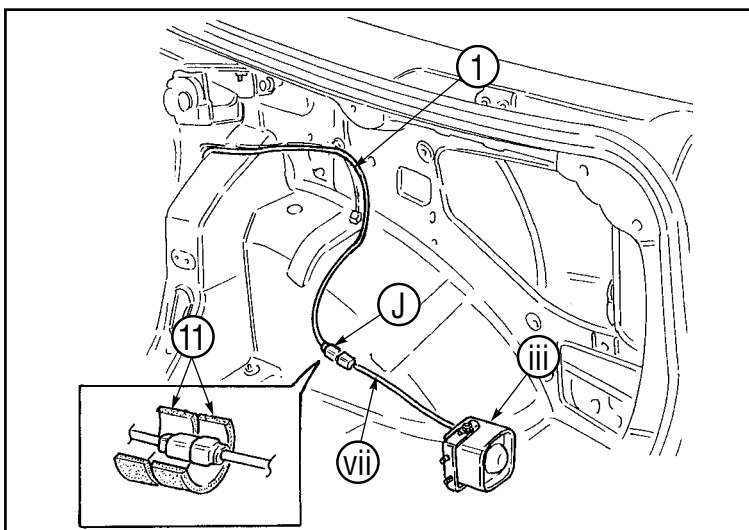


Figure 43

3.
 - a) Connect the 6P connector (J) (grey) of the TVSS wire harness (1) to the 6P connector (grey) of the siren harness (vii).
 - b) Wrap the 6P connectors into the foam (11) (2x).

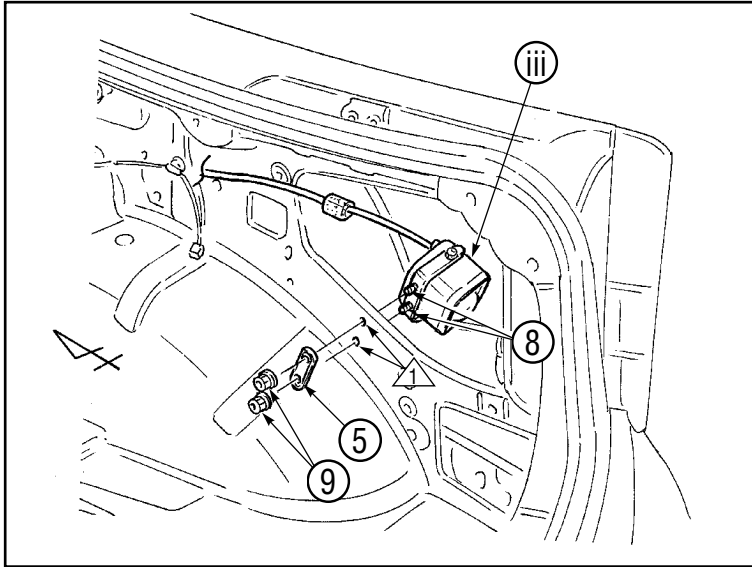


Figure 44

4.

Fit the siren ③ and the siren mounting bracket ⑤ with bolts ⑧ (2x) and nuts ⑨ (2x).

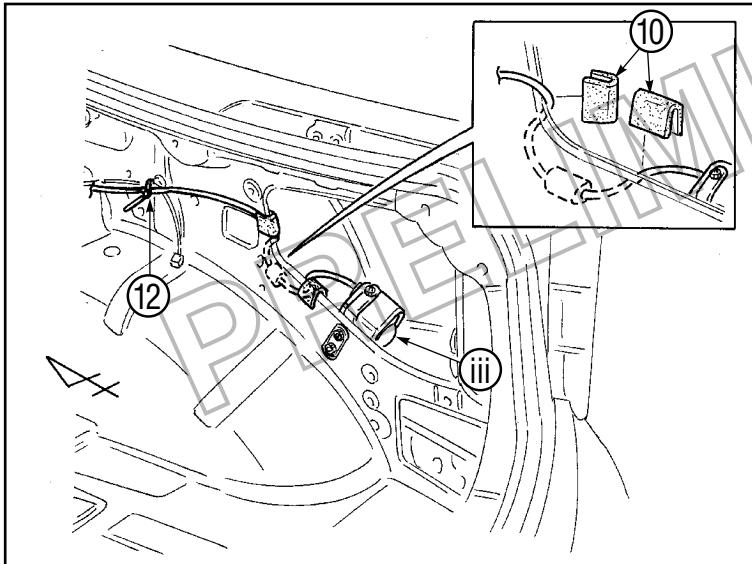


Figure 45

5.

a) Secure the TVSS wire harness ① and siren wire harness ⑦ using the foam ⑩ (2x).

b) Attach the TVSS wire harness ① to the vehicle harness using the wire tie ⑫ (1x).

WIRE HARNESS INSTALLATION PART-2

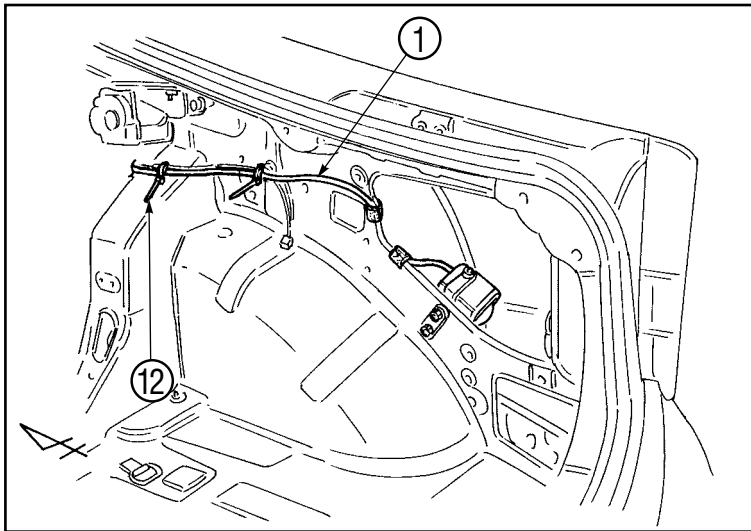


Figure 46

1.

Route and attach the TVSS wire harness ① to the vehicle harness using the wire tie ⑫ (1x).

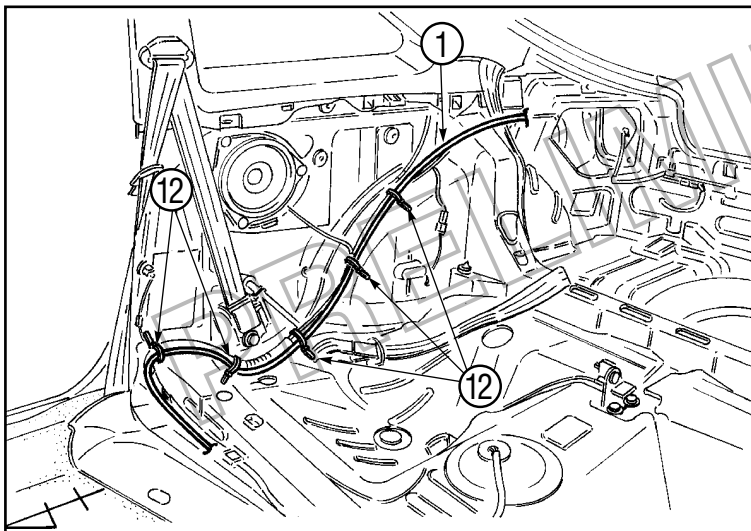


Figure 47

2.

Route and attach the TVSS wire harness ① to the vehicle harness using the wire ties ⑫ (5x).

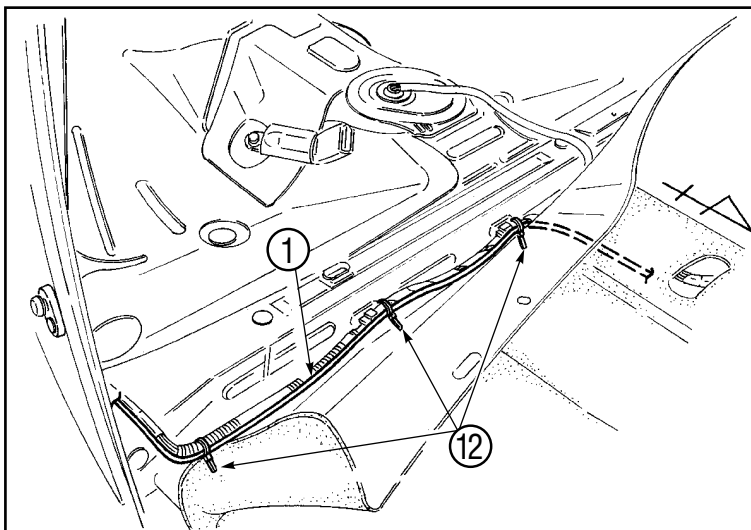


Figure 48

3.

Route and attach the TVSS wire harness ① to the vehicle harness using the wire ties ⑫ (3x).

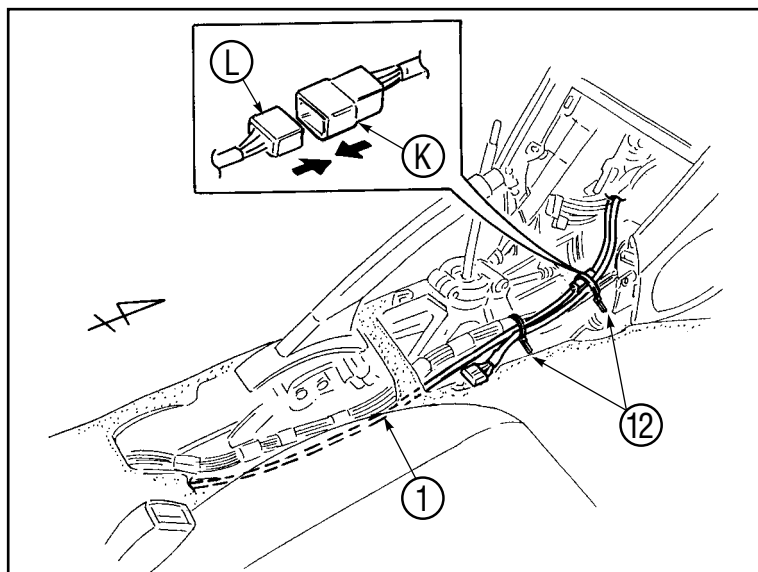


Figure 49

4.

- a) Connect the 5P connector (K) to the 5P connector (L).
- b) Route and attach the TVSS wire harness (1) and 5P connectors to the vehicle harness using the wire ties (12) (2x).

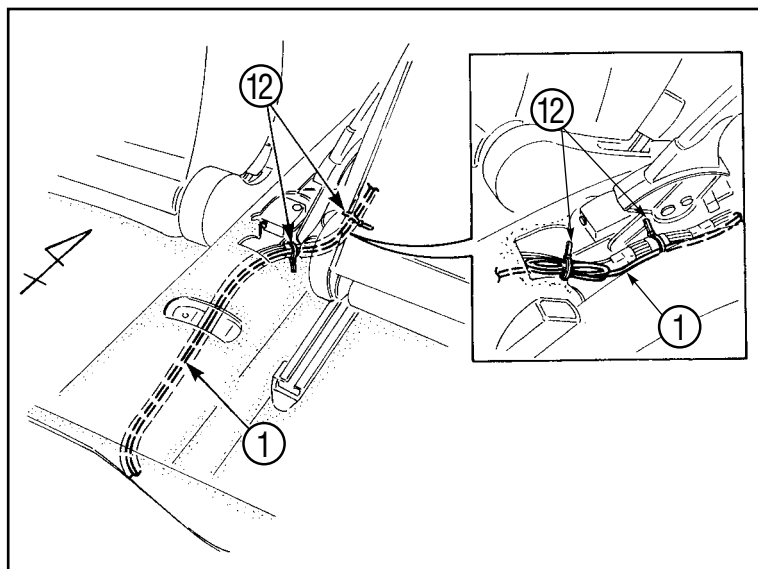


Figure 50

5.

- Route and attach the TVSS wire harness (1) to the vehicle harness using the wire ties (12) (2x).

MOUNTING THE RADAR SENSOR

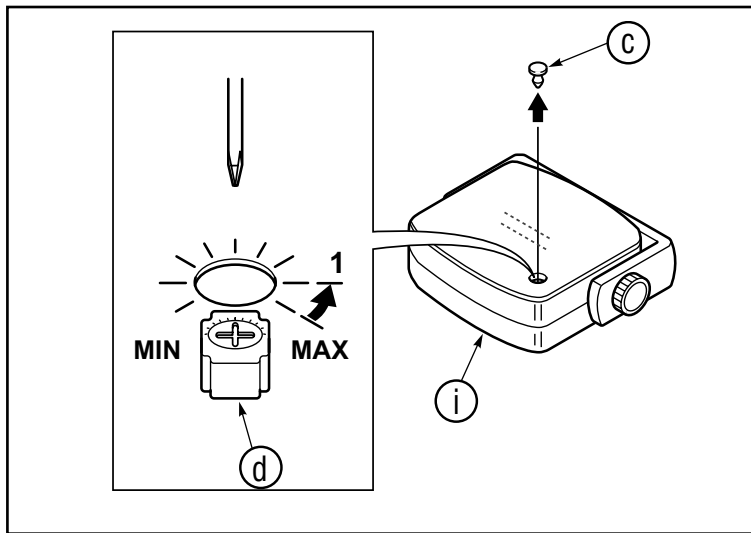


Figure 51

1.
 - a) Remove the cap (c) from the radar sensor (i).
 - b) Locate the trimmer (d) in the small hole.
 - c) Turn the trimmer (d) clockwise to the maximum position.
 - d) Turn the trimmer (d) counterclockwise to the first position from the maximum.
 - e) Test and adjust the radar sensor sensitivity in accordance with the SETTING GUIDE.
 - f) Refit the cap (c).

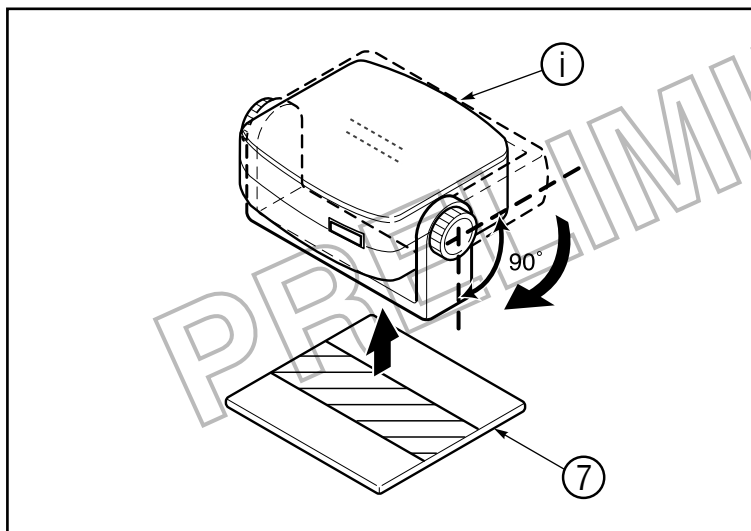


Figure 52

2.
 - a) Incline the radar sensor (i) bracket to 90° as shown.
 - b) Attach the butyl tape (7) to the radar sensor bracket.

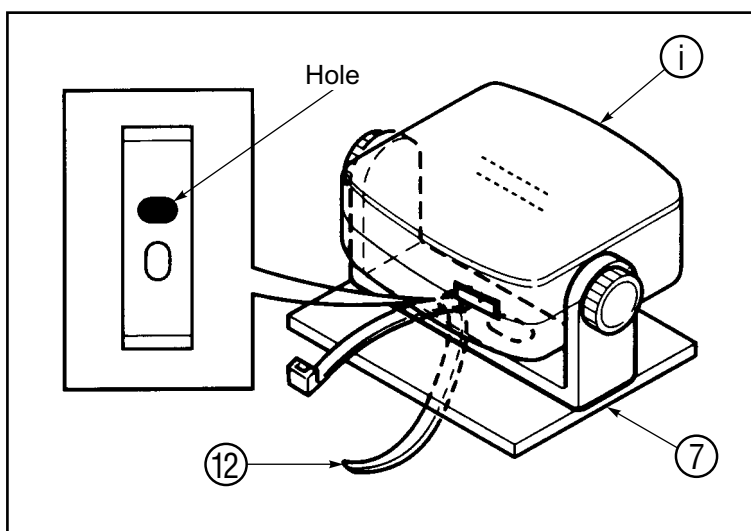


Figure 53

3.
 - a) Hole the butyl tape (7) as shown.
 - b) Insert the wire tie (12) through the hole.

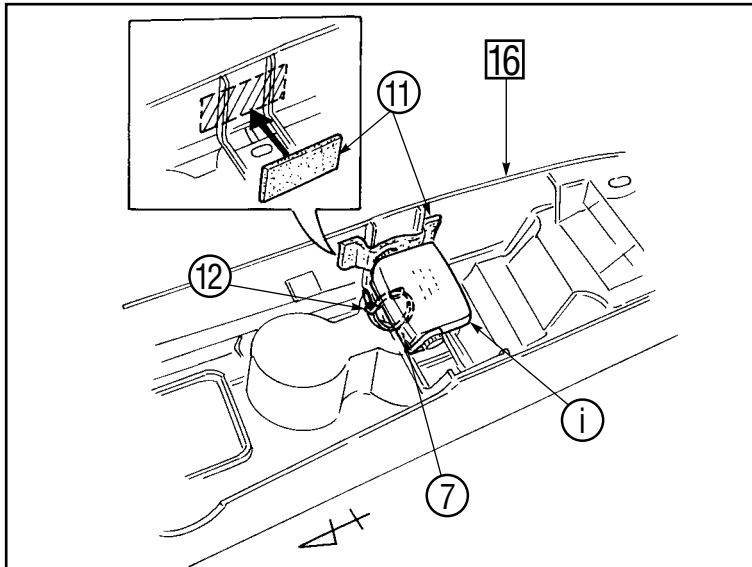


Figure 54

4.
 - a) Attach the foam (11) to the back side of console compartment (16).
 - b) Attach the radar sensor (1) to the console compartment using the wire tie (12) (1x) and butyl tape (7).

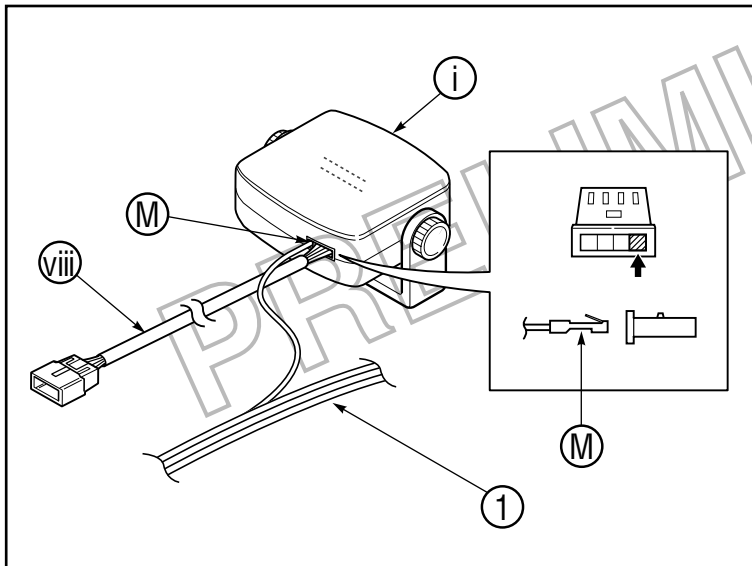


Figure 55

5.
 - a) Insert the yellow wire terminal (M) of TVSS wire harness (1) to the radar sensor harness (viii) connector into the position as shown in fig 55.
 - b) Connect the radar sensor harness (viii) connector to the radar sensor (1).

CAUTION

The terminal should not come out when pulled lightly from the back.

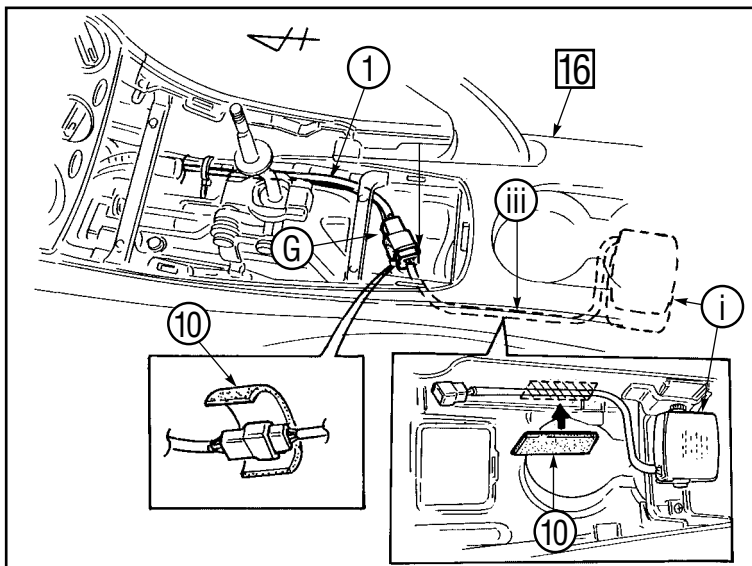


Figure 56

6.
 - a) Connect the radar sensor harness (viii) 4P connector (male) to the TVSS wire harness (1) 4P connector (female) (G).
 - b) Wrap the 4P connectors in the foam (10).
 - c) Secure the radar sensor harness (viii) and yellow wire of the TVSS wire harness (1) to the console compartment (16) using the foam (10).

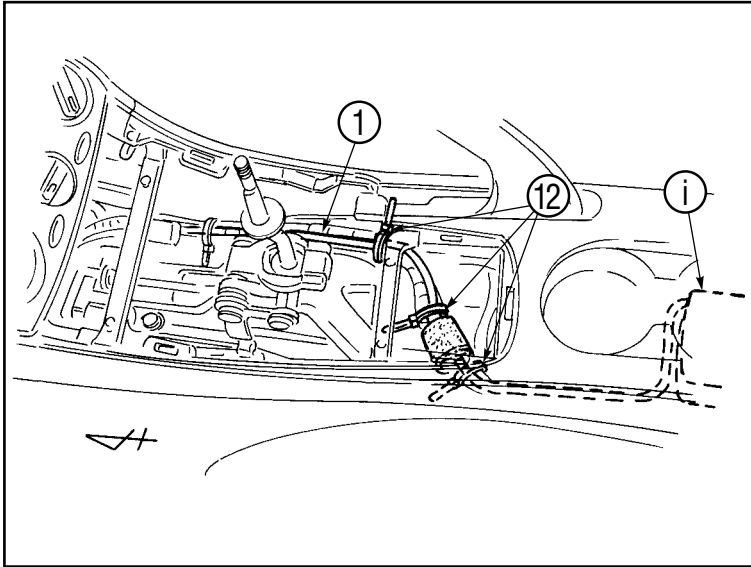


Figure 57

7.

Secure the radar sensor harness ⑧ and TVSS wire harness ① using the wire ties ⑫ (3x).

PRELIMINARY

MOUNTING THE HOOD SWITCH

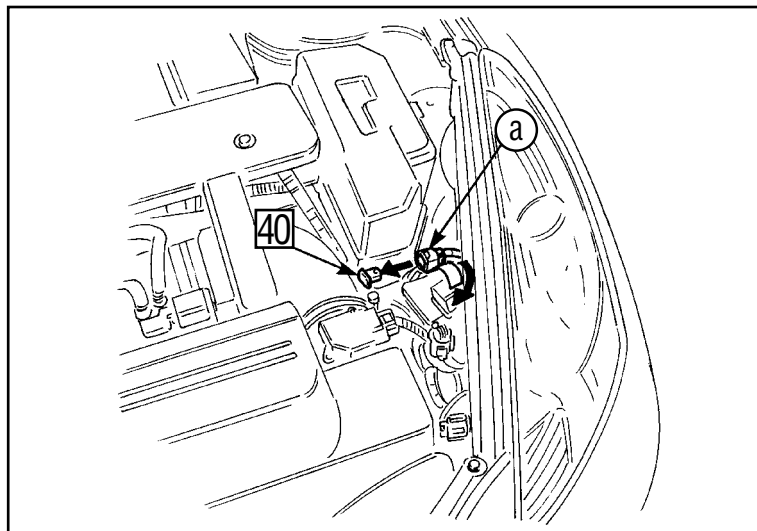


Figure 58

1.

Remove the tape and cap 40 from the 2P connector a (white).

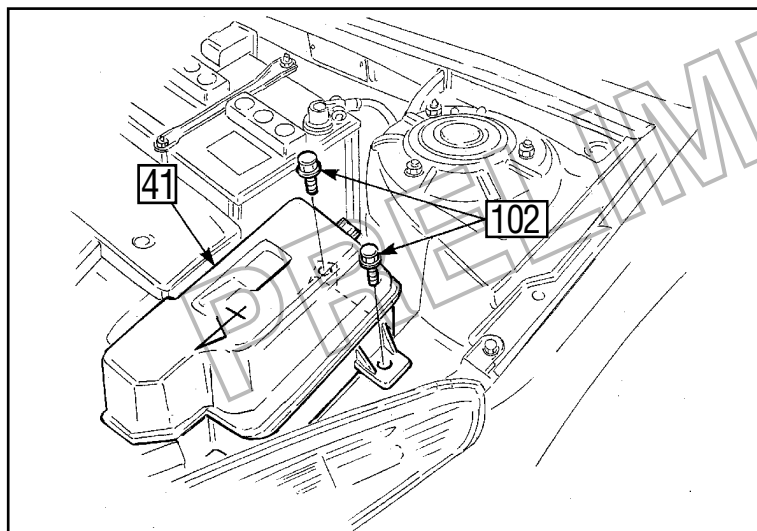


Figure 59

2.

Remove the bolts 102 (2x) securing the fuse box 41.

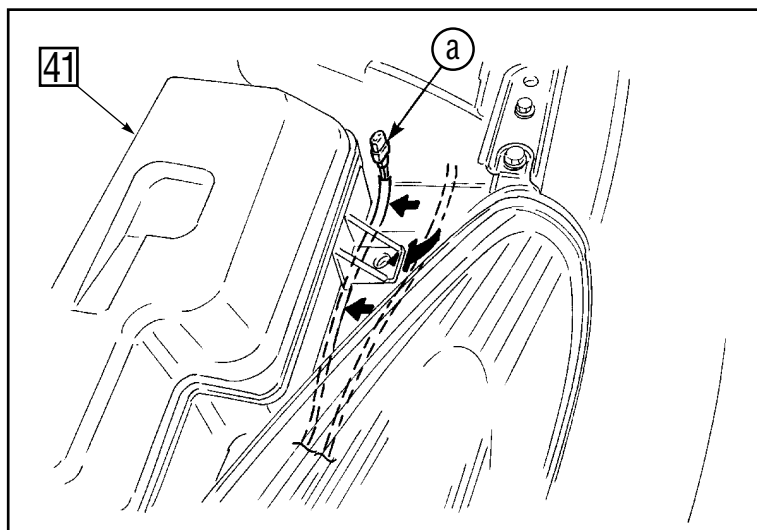


Figure 60

3.

Route the vehicle harness between the fuse box 41 and vehicle body.

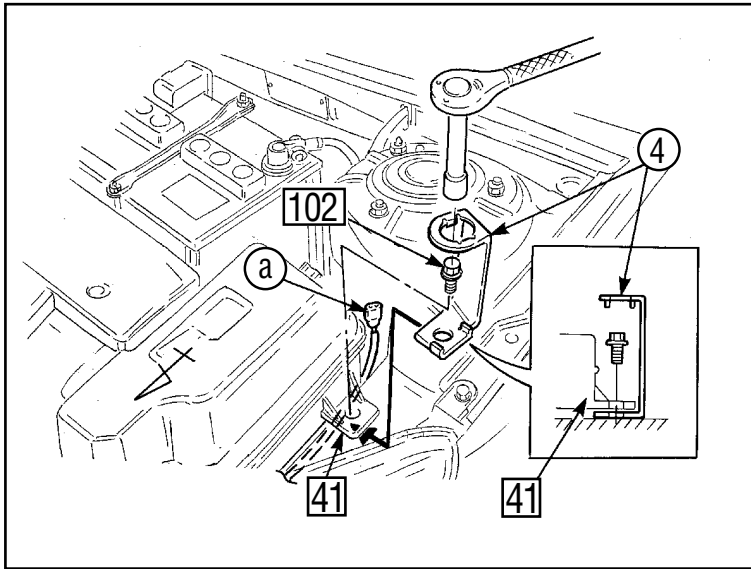


Figure 61

4.

Fit the hood switch bracket (4) using the bolt (101).

NOTE

Be sure to put the hood switch bracket (4) in between vehicle and the tab of the fuse box (41).

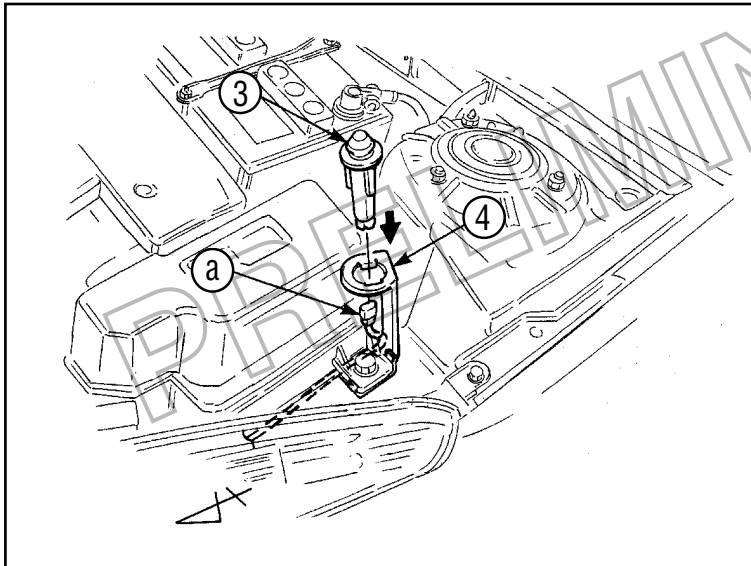
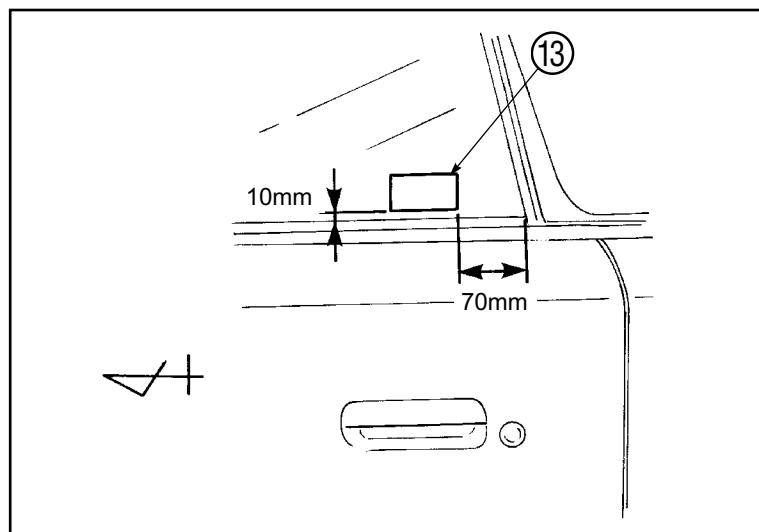


Figure 62

5.

a) Fit the hood switch (3) to the hood switch bracket (4).

b) Connect the 2P connector (a) (white) of the vehicle harness to the hood switch (3).

ATTACHING THE STICKERS*Figure 63*

1.

Attach the stickers ⑬ to both left and right front door windows.

REFIT THE TRIM AND REMOVED PARTS.

PRELIMINARY

TOYOTA
GENUINE PARTS