

ALARM

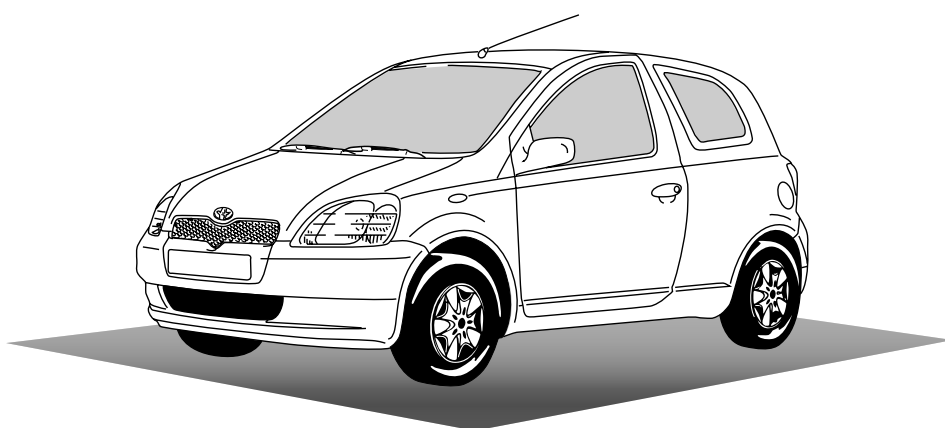


TOYOTA VEHICLE SECURITY SYSTEM

TVSS IV-D

INSTALLATION INSTRUCTIONS

for



Yaris (RHD)

PART NUMBER

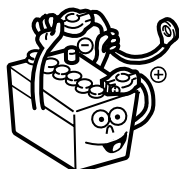
MAIN KIT	08585-12950
FITTING KIT	08586-52810
SUB KIT (SIREN AND RADAR)	08586-1A890
FOR **P1*R	

PRECAUTIONS

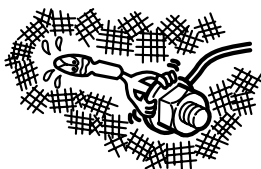


PLEASE READ THOROUGHLY THESE PRECAUTIONS BEFORE THE INSTALLATION

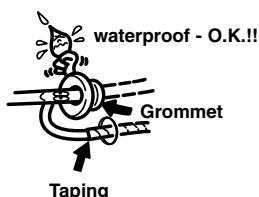
- BE sure to disconnect the negative (-) lead from the battery terminals.



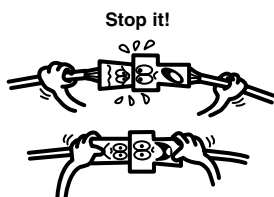
- Do not pinch the rear wiring or harness in the tightened part.



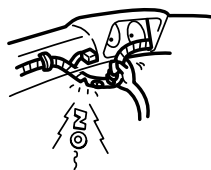
- When passing the wires through the bulkhead or other panels, use a grommet to ensure waterproofing.
- Protect the wiring with tape when it is passed through a hole.



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



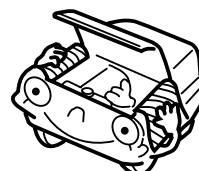
- Do not forcibly pull any car wiring harness. Rough tugging may result in opened connections, or a broken wire or harness.



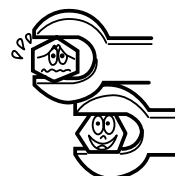
- Confirm that lamps, horn, wiper and other car accessories operate normally.



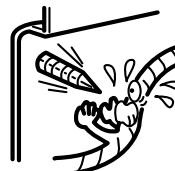
- Protect your car with wing covers, seat and so on.



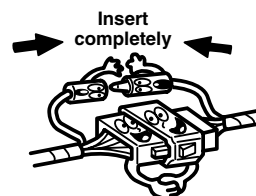
- Use the correct tool when tightening bolts or nuts.



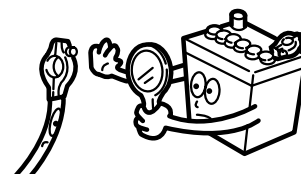
- Before drilling a hole, check that the rear of the mounting wall is clear.



- Be sure to firmly tighten connectors and terminals.



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



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

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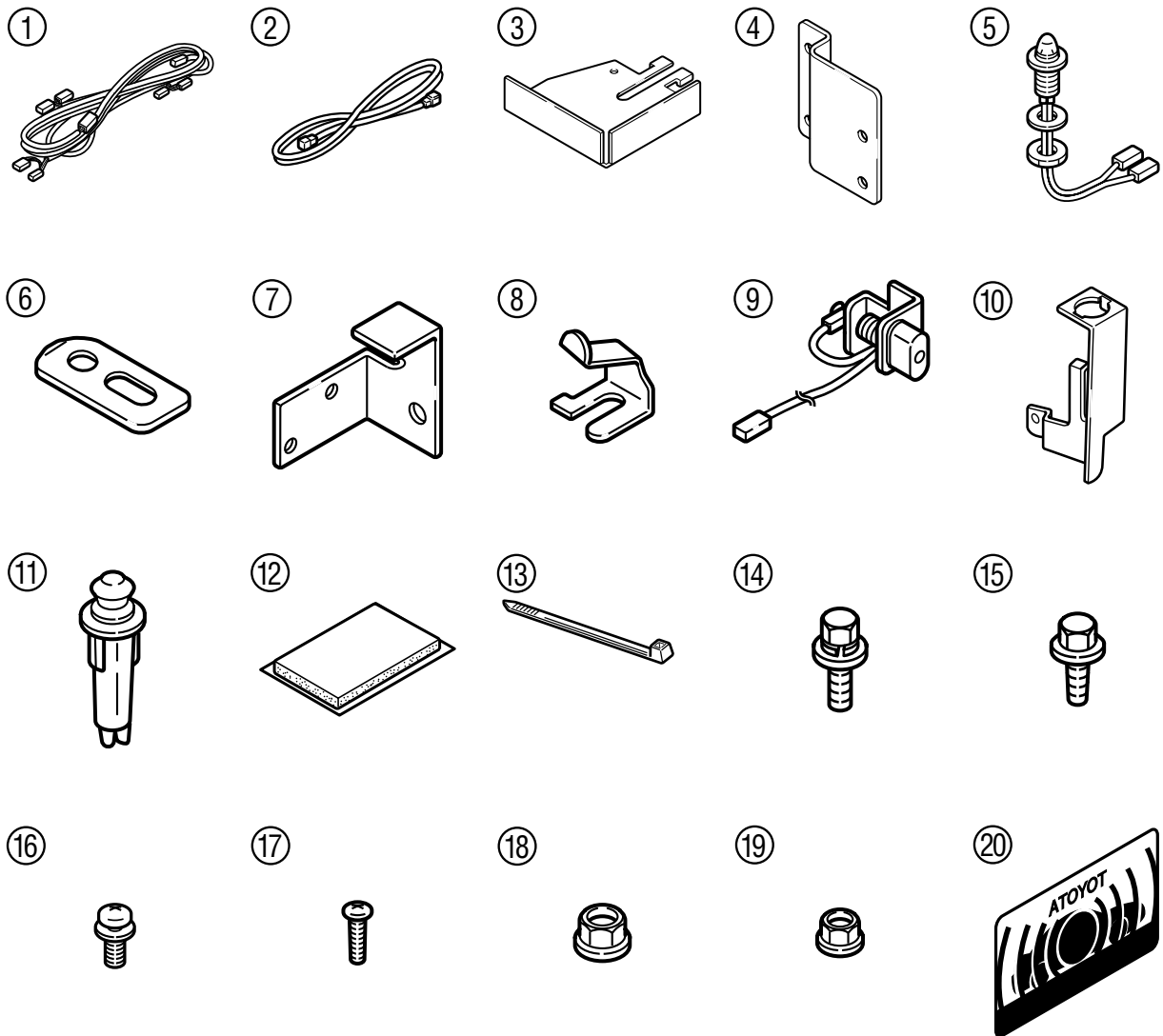
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FITTING KIT

08586-52810



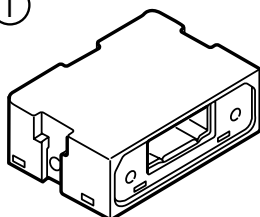
No.	Description	Qty
①	WIRE HARNESS (MAIN)	1
②	WIRE HARNESS (ENGINE)	1
③	PROTECTIVE BRACKET	1
④	SIREN BRACKET	1
⑤	LED	1
⑥	TVSS ECU BRACKET	1
⑦	BOOT SWITCH BRACKET	1
⑧	STRIKER PLATE	1
⑨	BOOT SWITCH	1
⑩	HOOD SWITCH BRACKET	1
⑪	HOOD SWITCH	1
⑫	BUTYL TAPE	3
⑬	WIRE TIE	45
⑭	BOLT (M6 X 18)	5
⑮	BOLT (FOR TVSS ECU)	1
⑯	BOLT (FOR BOOT SWITCH)	1
⑰	SCREW (FOR BOOT SWITCH)	2
⑱	NUT (M6) (FOR SIREN)	2
⑲	NUT (M5) (FOR BOOT SWITCH)	1
⑳	WINDOW STICKER	2



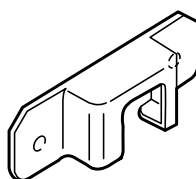
MAIN KIT**08585-12950**

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

Ⅰ



Ⅱ

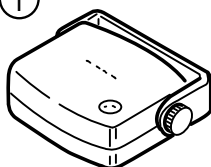


Ⅲ

**SUB KIT (RADAR AND SIREN)****08586-1A890**

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 WIRE HARNESS	1

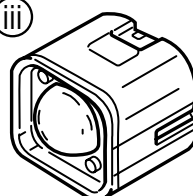
i



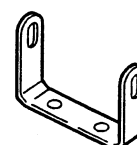
ii



iii



iv



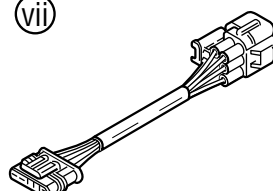
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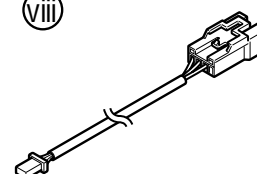
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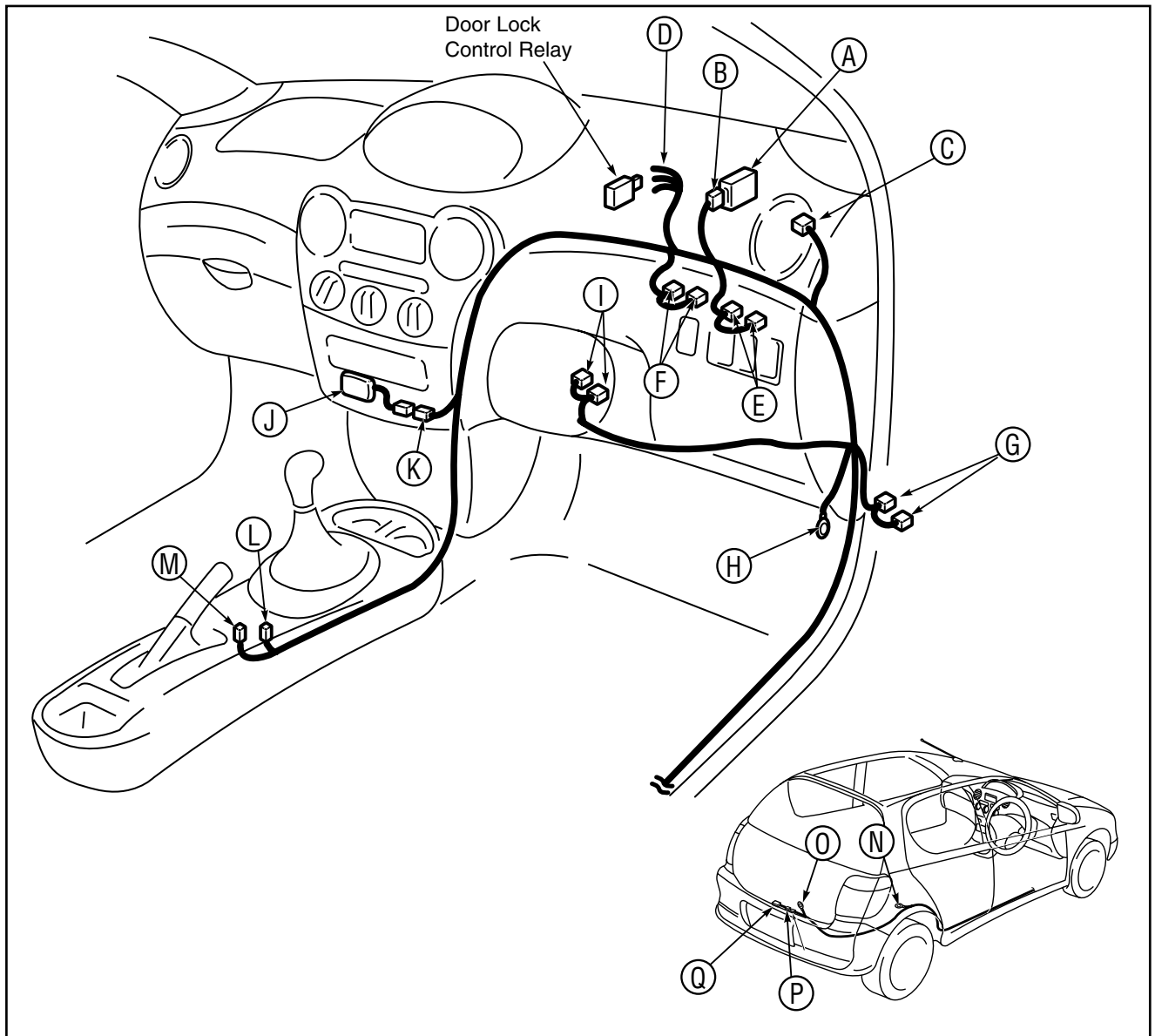
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viii

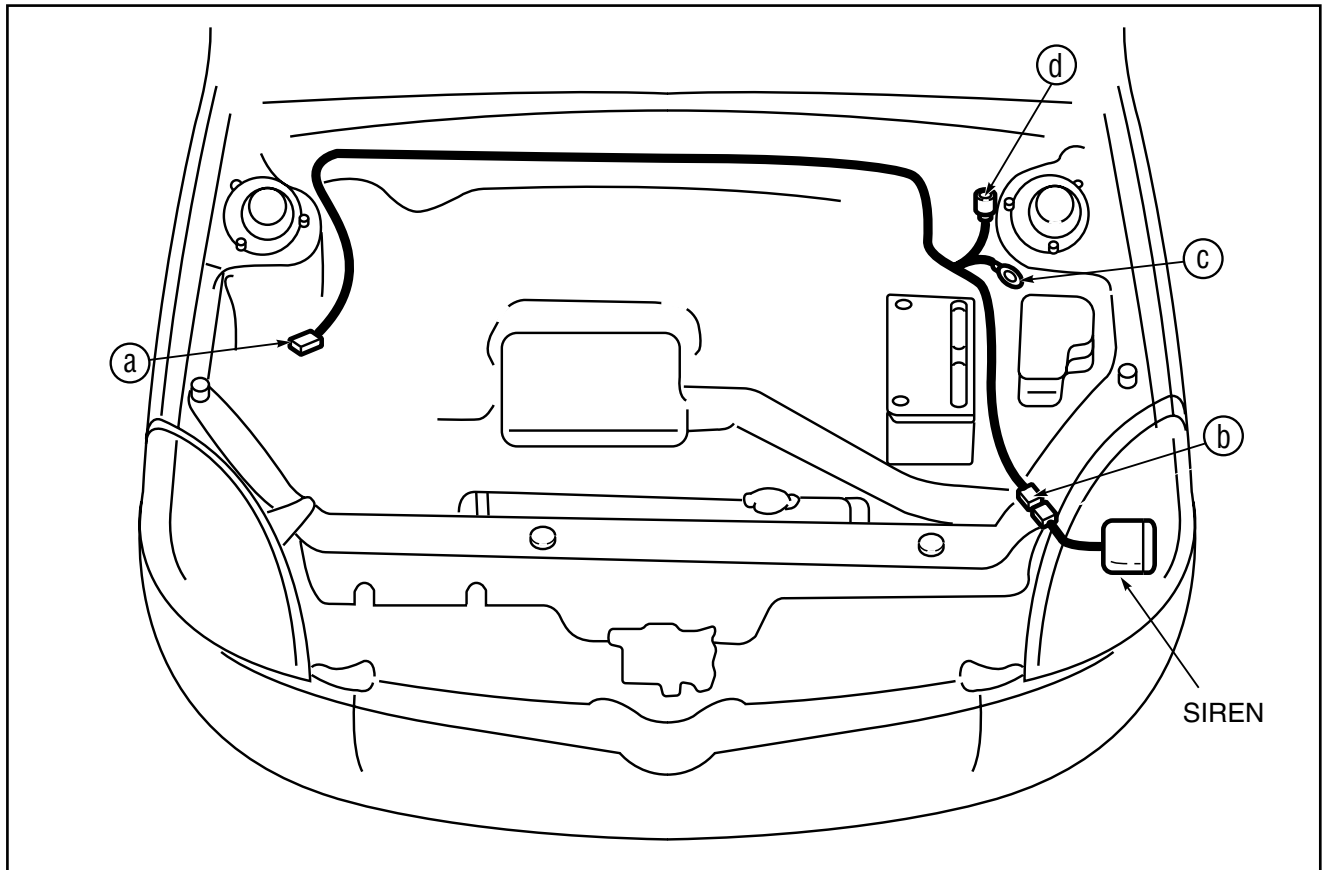


SYSTEM LAYOUT AND WIRE HARNESS OUTLINE (MAIN)



Ⓐ	TVSS IV-S ECU
Ⓑ	TVSS ECU Connector (26P female)
Ⓒ	Pre-wired connector (5P male white)
Ⓓ	Door lock ECU terminal wire (red/blue/yellow)
Ⓔ	Instrument panel connector (13P white)
Ⓕ	Roof connector (9P white)
Ⓖ	Door lock connector (14P white)
Ⓗ	Ground terminal
Ⓘ	Key unlock warning connector (2P white)
Ⓙ	Radar sensor control ECU
Ⓚ	Radar sensor connector (4P white)
Ⓛ	LED connector (1P brown-wired)
Ⓜ	LED connector (1P white/black-wired)
Ⓝ	Ground terminal (for option installation keyless entry)
Ⓞ	Ground terminal (for option installation keyless entry)
Ⓟ	Boot switch connector (1P male grey) (for option installation keyless entry)
Ⓠ	Boot switch (for option installation keyless entry)

SYSTEM LAYOUT AND WIRE HARNESS OUTLINE (ENGINE)

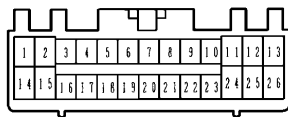


(a)	Pre-wired connector (6P male grey)
(b)	Siren connector (6P female grey)
(c)	Ground terminal
(d)	Hood switch connector (2P female white)

CONNECTOR ARRANGEMENT OF THE TVSS (PIN VIEW)

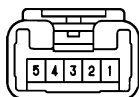


B



(female)

C



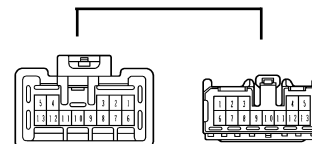
(male)

D



(female terminal)

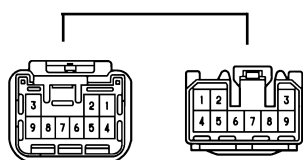
E



(male)

(female)

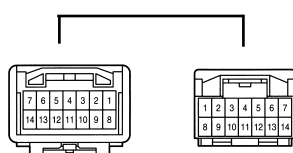
F



(male)

(female)

G



(male)

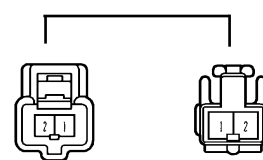
(female)

H



(ground terminal)

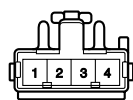
I



(male)

(female)

K



(female)

L



(male)

M



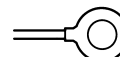
(male)

N



(ground terminal)

O



(ground terminal)

P



(male)

a



(male)

b



(female)

c



(ground terminal)

d



(female)

VEHICLE DISASSEMBLY (PASSENGER'S COMPARTMENT)

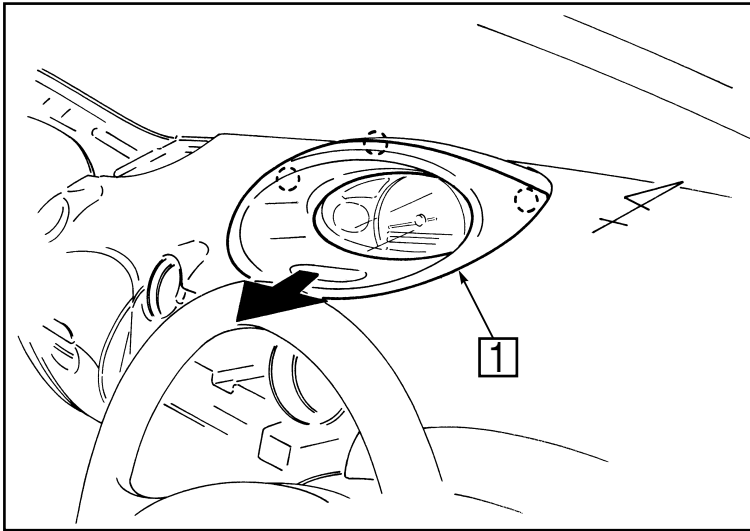


Figure 1

1.

Remove the instrument cluster finish panel **1**.

○: Clip (3x)

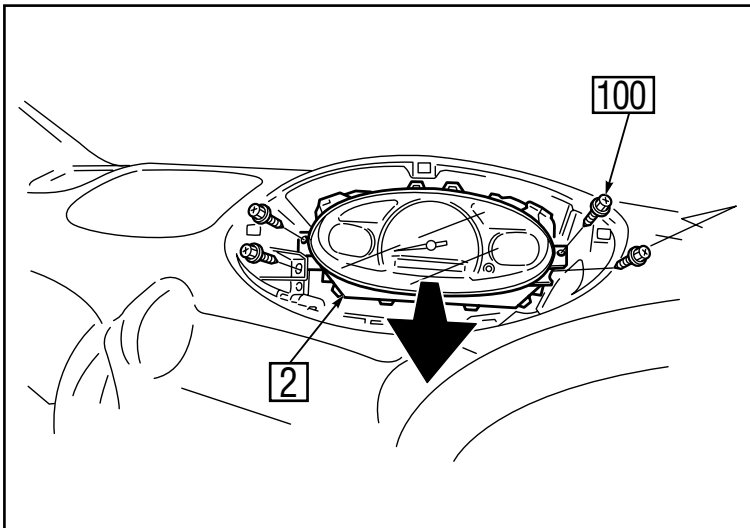


Figure 2

FOR ANALOG METER MODELS

2.

Remove the combination meter panel assembly **2**.

100 : Screw (4x)

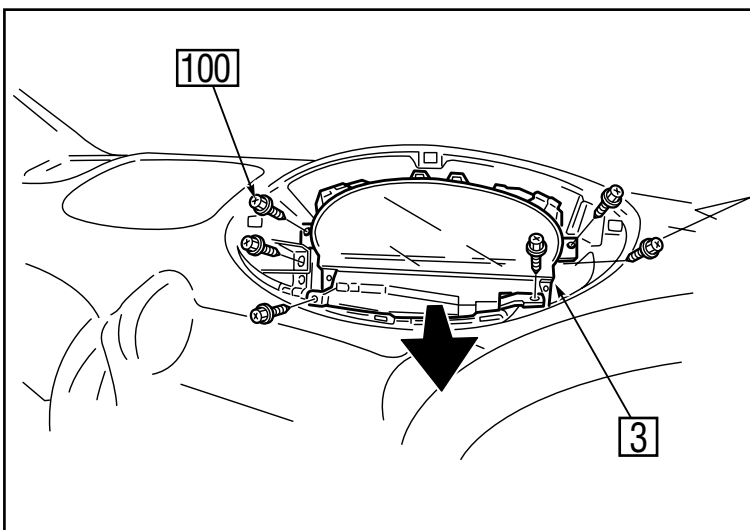


Figure 3

FOR DIGITAL METER MODELS

3.

Remove the combination meter panel assembly **3**.

100 : Screw (6x)

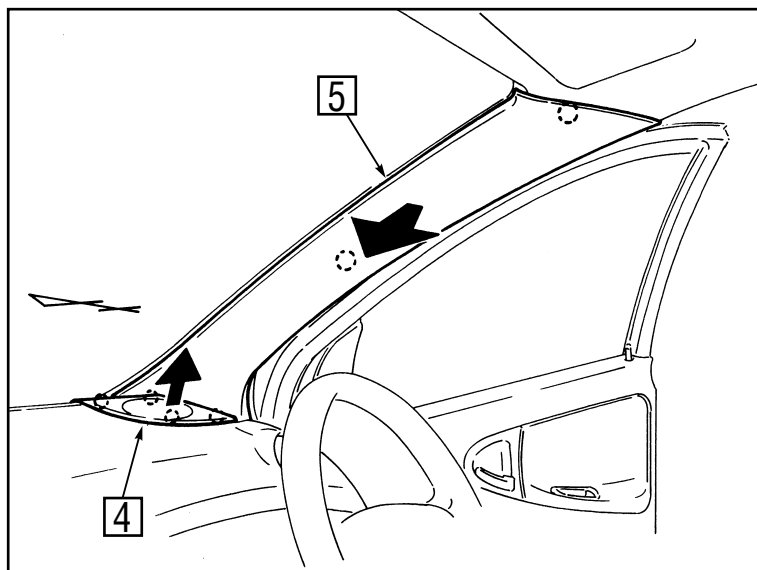


Figure 4

4.

- a) Remove the instrument speaker panel [4].

○: Clip (3x)

- b) Remove the front pillar trim [5].

○: Clip (2x)

NOTE:

Remove both the left and right speaker panels and front pillar trims.

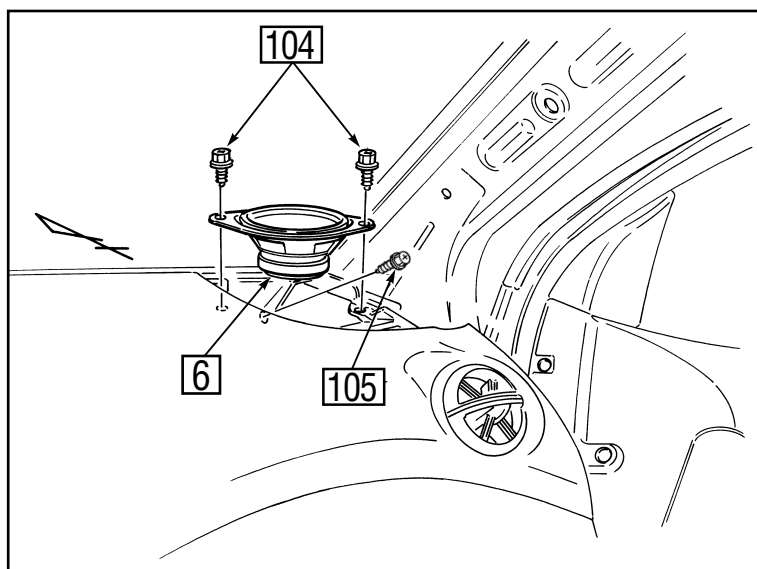


Figure 5

5.

- Remove the speaker [6].

[104]: Screw (2x)

[105]: Screw (1x)

NOTE:

Remove both the left and right speakers.

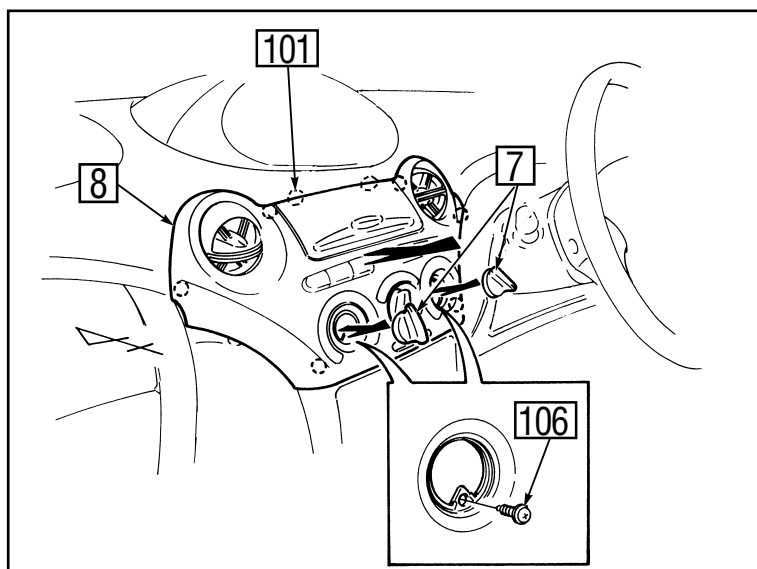


Figure 6

6.

- Remove the knob [7] (2x) and instrument cluster panel [8].

[106]: Screw (2x)

[101]: Hook (2x)

○: Clip (6x)

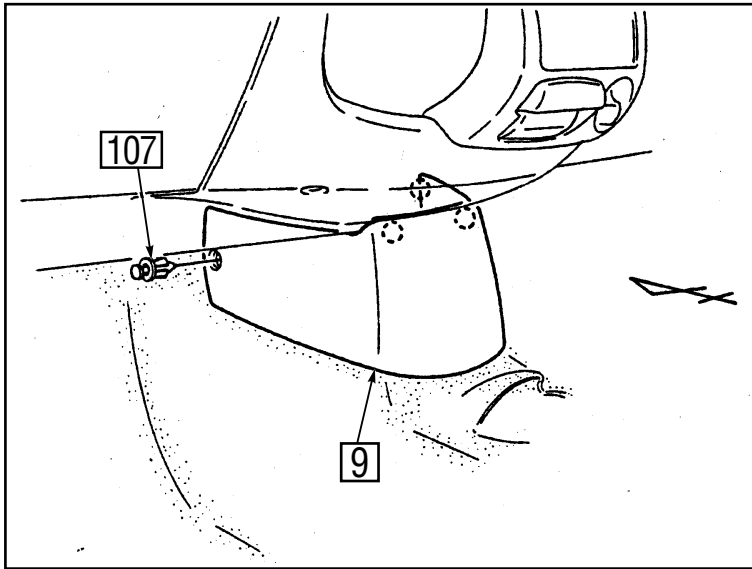


Figure 7

7.

Remove the instrument finish lower cluster panel **9**.

○ : Clip (3x)

107: Clip (1x)

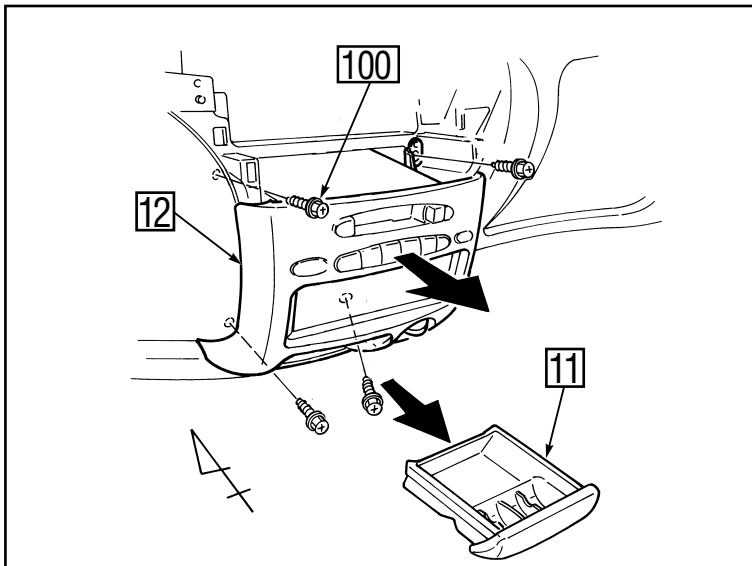


Figure 8

8.

a) Remove the ashtray **11**.

b) Remove the sub-assembly instrument cluster panel **12**.

100: Screw (4x)

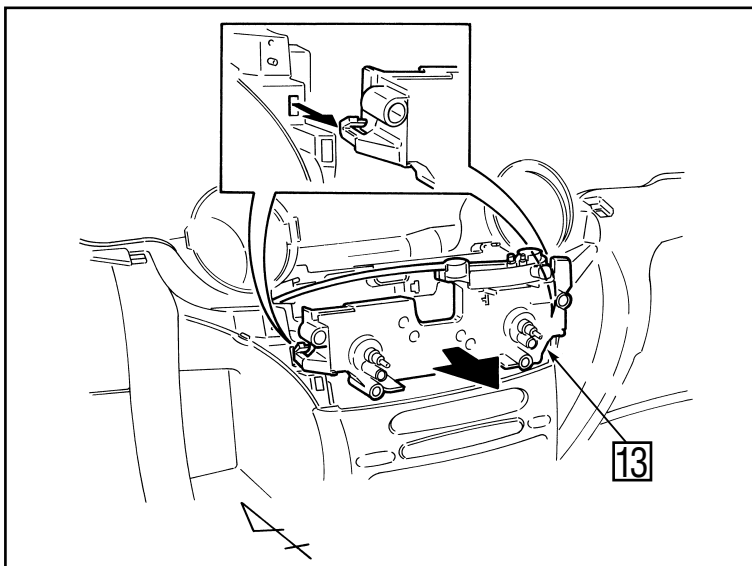


Figure 9

9.

Loosen the heater control assembly **13**.

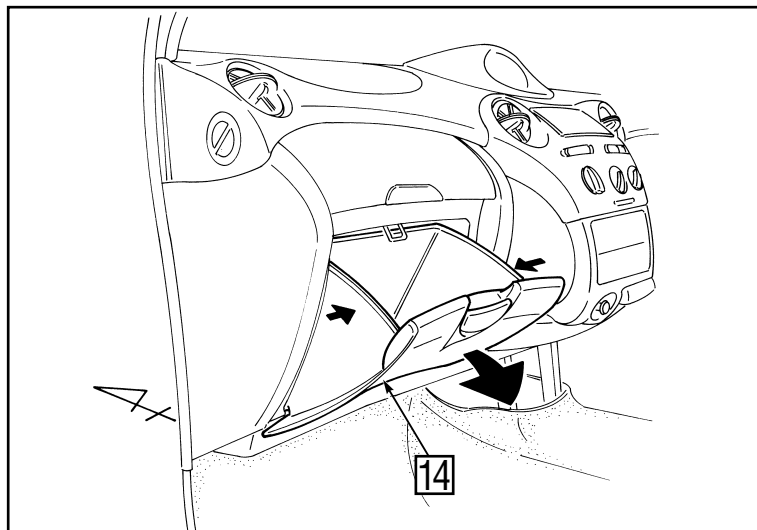


Figure 10

10.

Remove the glove box 14.

CAUTION:

Make sure to wait 90 seconds after IGNITION OFF before disconnecting the passenger's airbag.

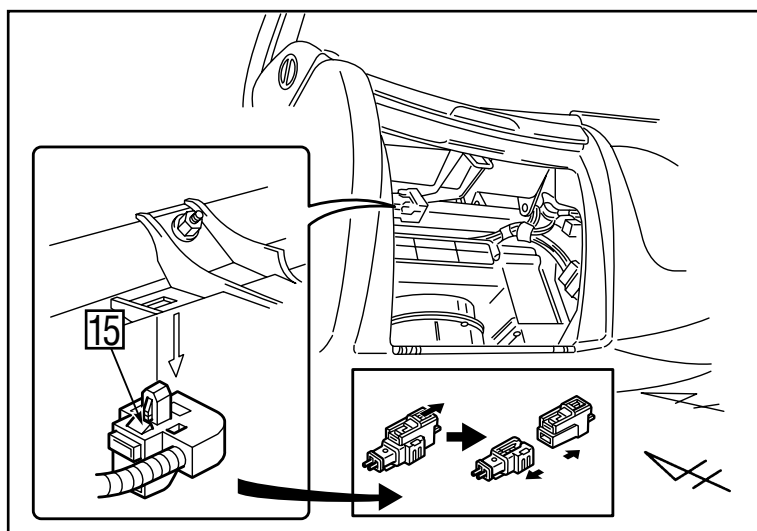


Figure 11

**ONLY FOR VEHICLES WITH
PASSENGER'S AIRBAG**

11.

- Loosen the airbag connector holder 15.
- Disconnect the passenger's airbag connector.

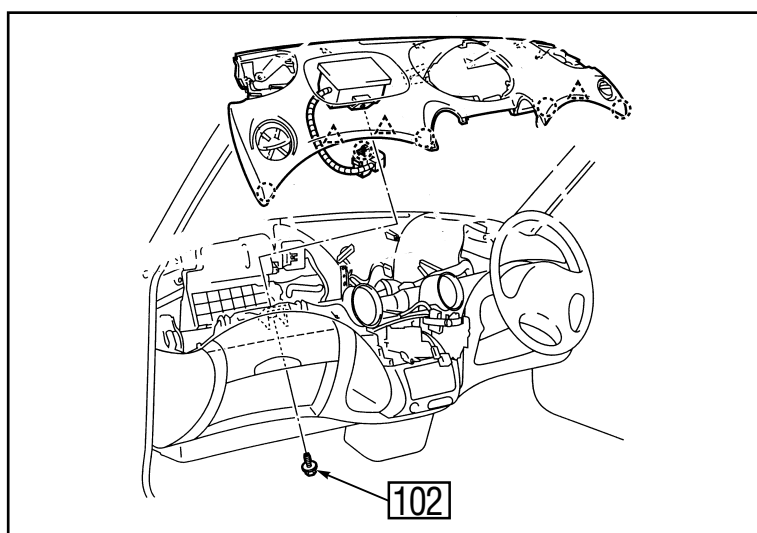


Figure 12

12.

Remove the instrument sub-assembly panel 16.

102: Bolt (1x)

○: Clip (4x)

△: Hook (3x)

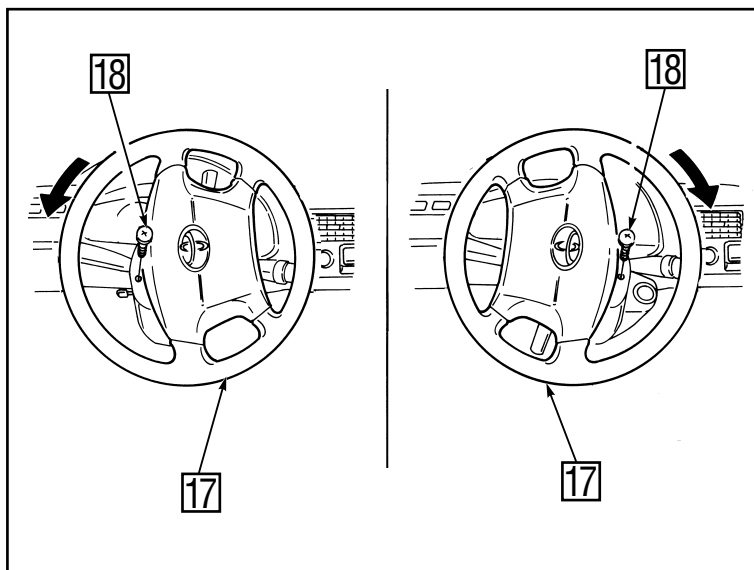


Figure 13

13.

- a) Turn the steering wheel 17 to the left, then remove the screw 18.
- b) Turn the steering wheel 17 to the right, then remove the screw 18.

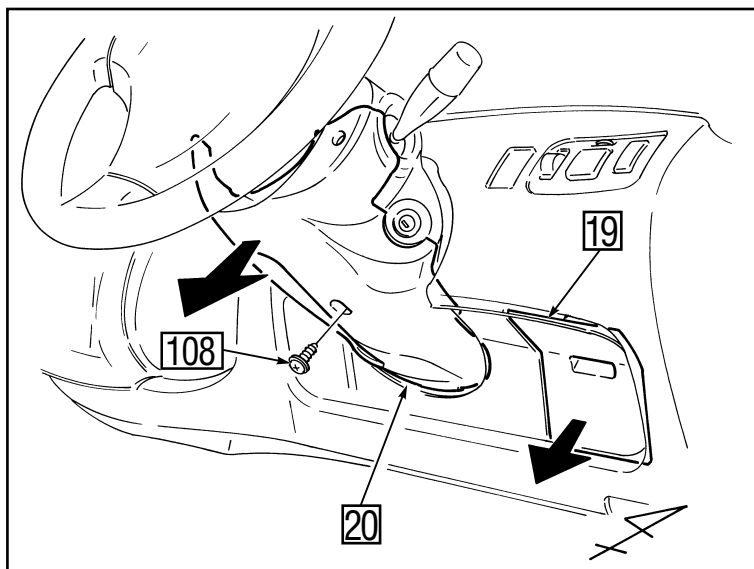


Figure 14

14.

- a) Remove the fuse box cover 19.
- b) Remove the lower steering column cover 20.

108: Screw (1x)

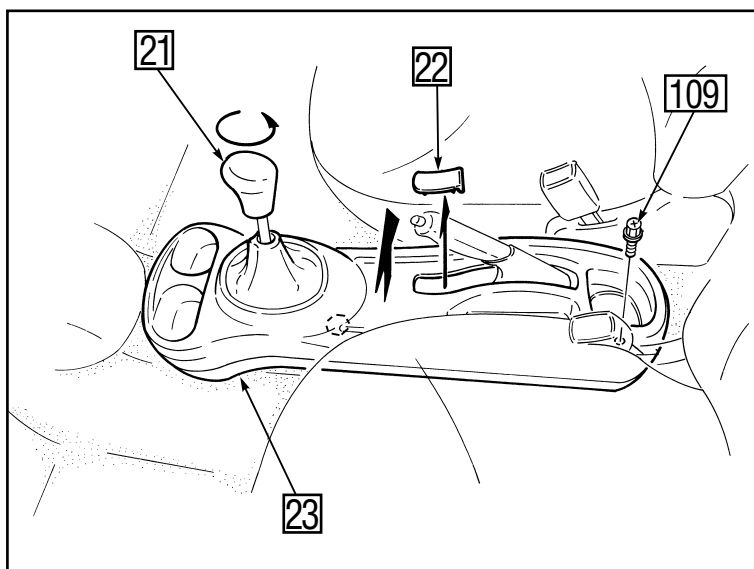


Figure 15

15.

- a) Remove the gear shift knob 21.
- b) Remove the console box cover 22.
- c) Remove the console compartment 23.

Clip (1x)

109: Screw (1x)

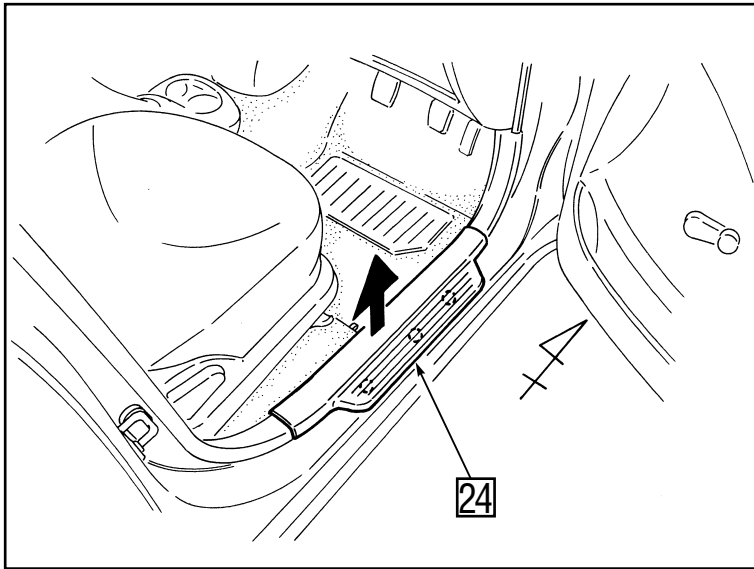


Figure 16

16.

Remove the driver's side front sill cover 24.

○: Clip (3x)

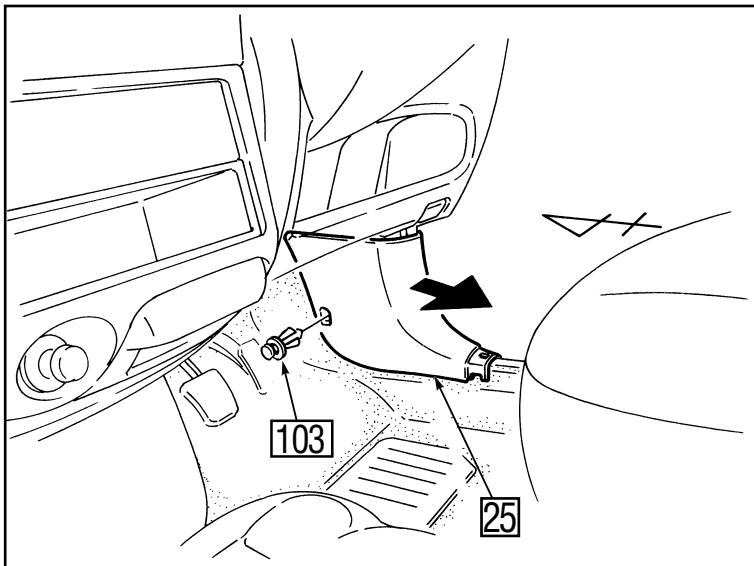


Figure 17

17.

Remove the driver's side kick panel 25.

103: Clip (1x)

MOUNTING THE TVSS ECU

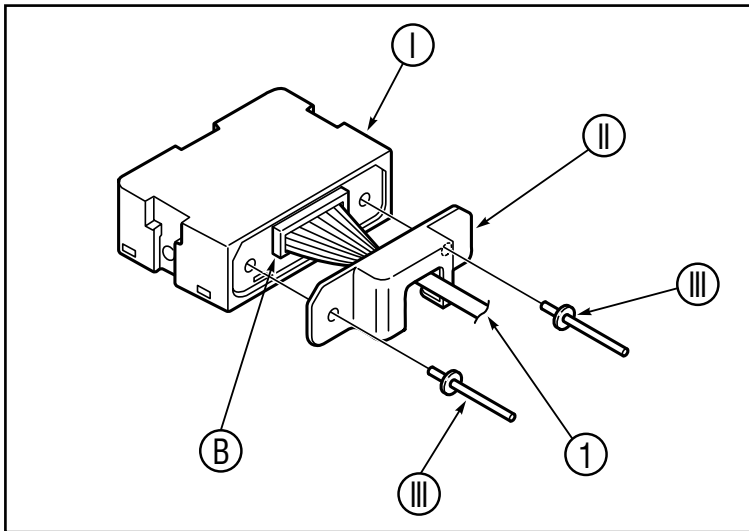


Figure 18

1.

- a) Connect the TVSS ECU connector (B) of the TVSS wire harness (1) 26P (white) to TVSS ECU (1).
- b) Fit the protective bracket (II) to TVSS ECU (1) using the blind rivets (III) (2x).

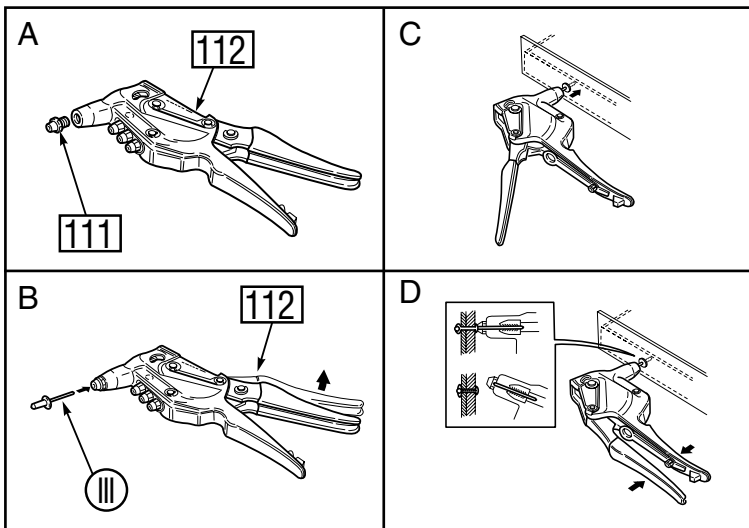


Figure 19

2.

- a) Fit the nose adapter fitting (111) to the nose of the riveting tool (112).
- b) Open the riveting tool (112) 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 riveting tool (112) arms repeatedly until the blind rivet (III) comes away.

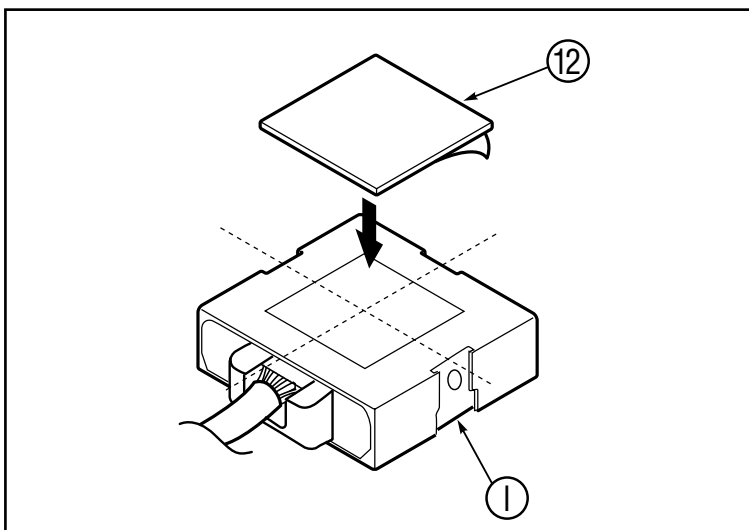


Figure 20

3.

- Attach the butyl tape (12) to the bottom of the TVSS ECU (1).

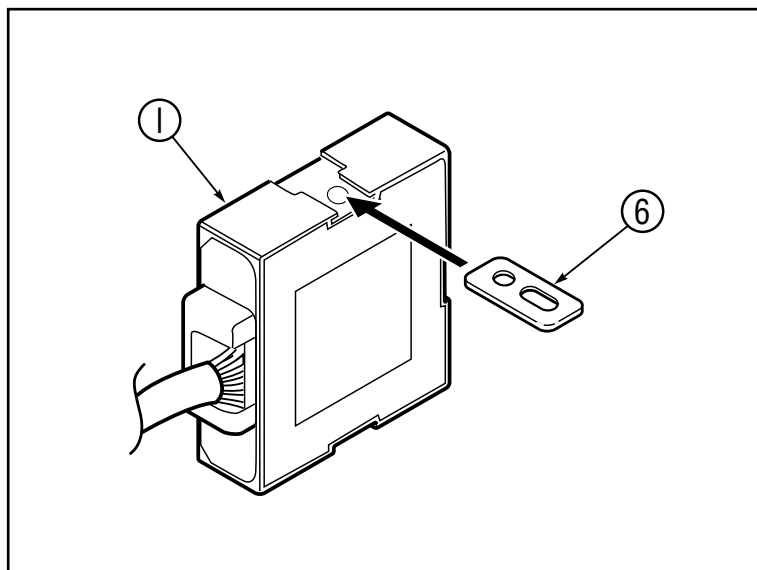


Figure 21

4.

Fit the TVSS ECU bracket ⑥ to the TVSS ECU ①.

WIRE HARNESS INSTALLATION (MAIN)

1. Locate the connectors in the vehicle before fitting the TVSS wire harness.

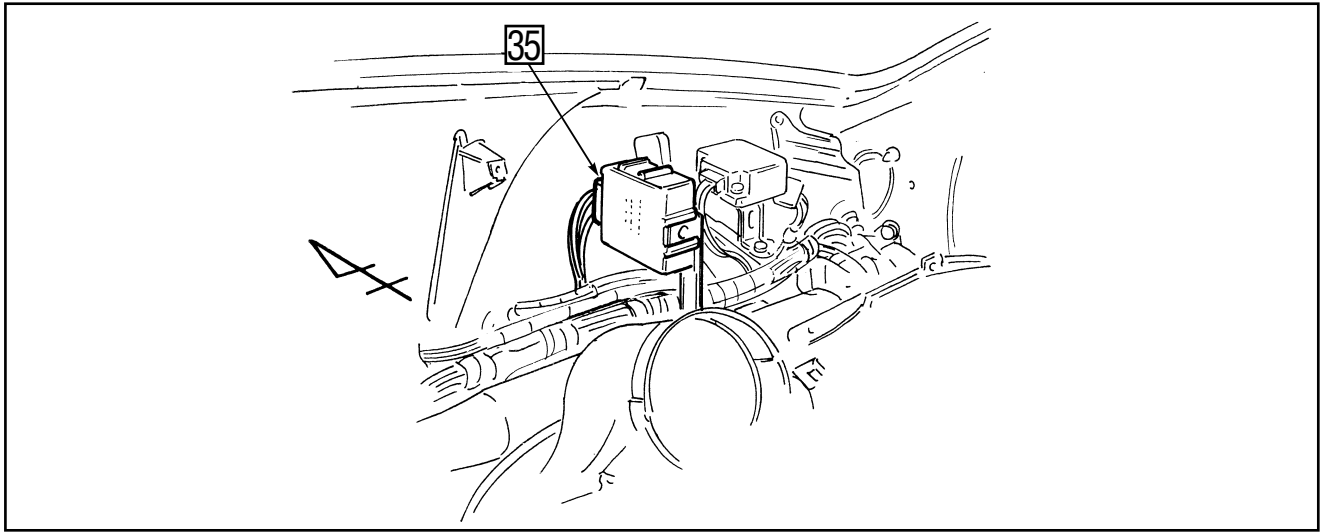


Figure 22

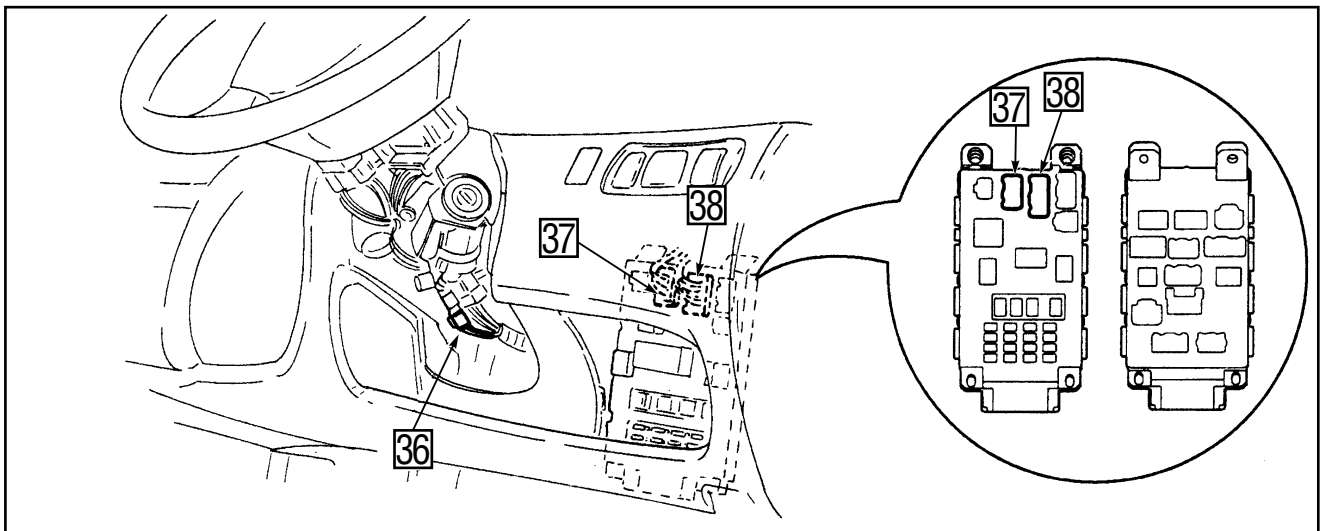


Figure 23

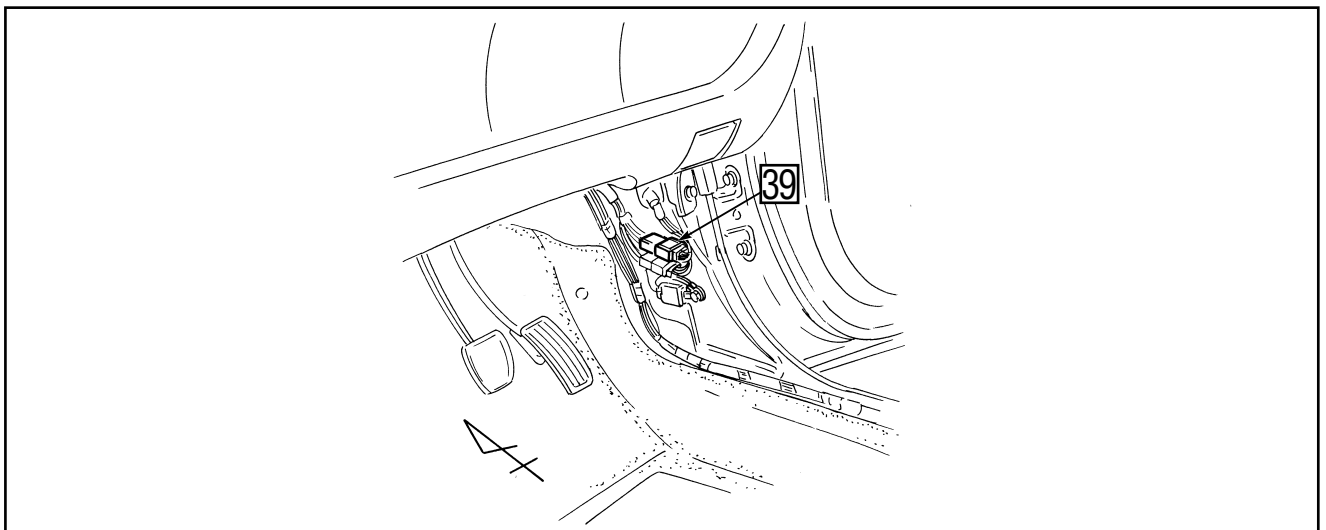


Figure 24

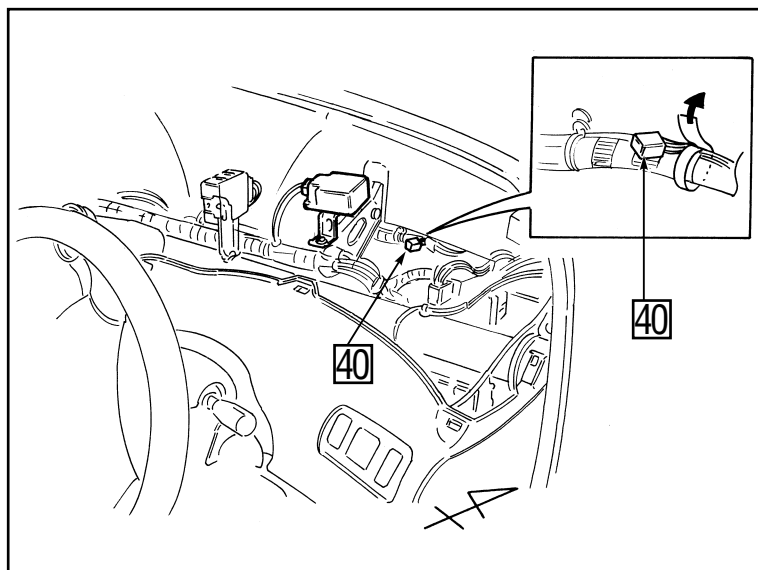


Figure 25

2.

Remove the tape securing the pre-wired harness connector 40.

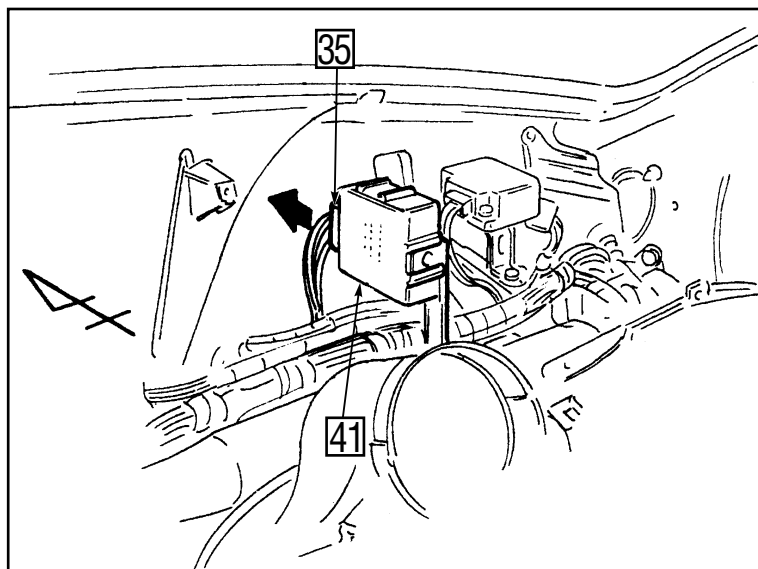


Figure 26

3.

Disconnect 25P connector 35 (white) from the door lock control relay 41.

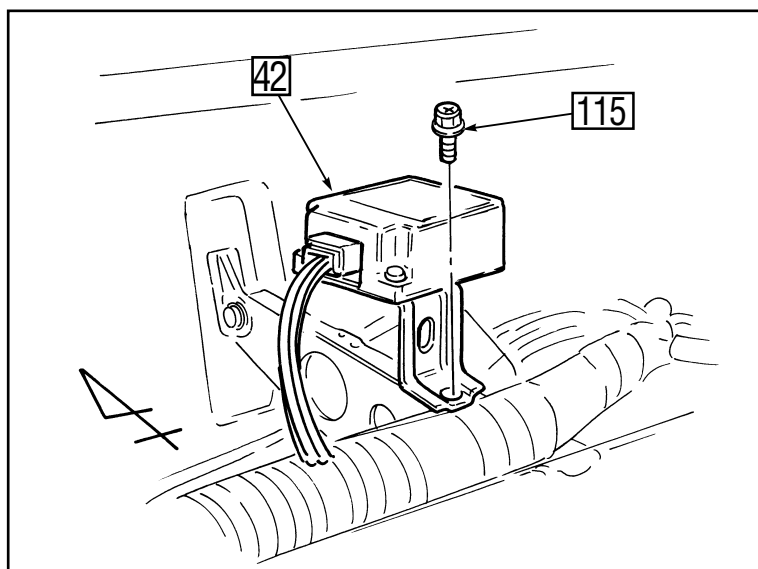


Figure 27

4.

Remove the door lock control receiver 42.

115: Bolt (1x)

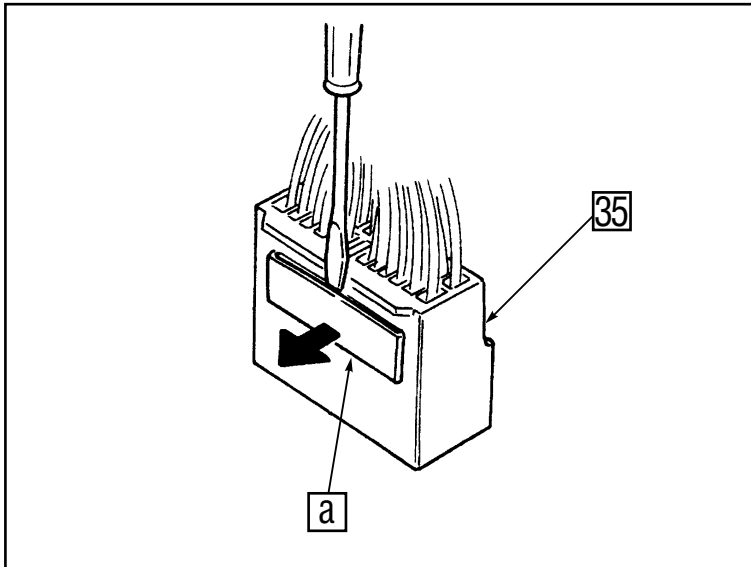


Figure 28

5.

Use a small flat-tip screwdriver to unlock the lock of the door lock control connector 35.

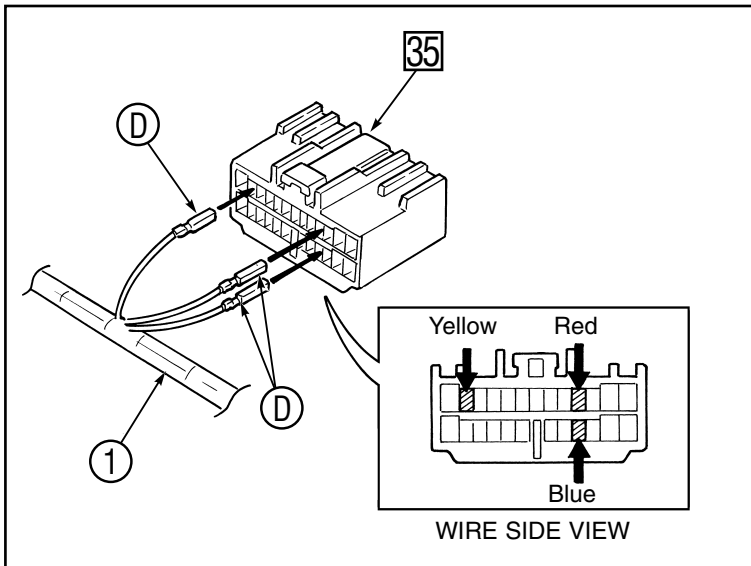


Figure 29

6.

- a) Insert the three wires ① (red/blue/yellow) of the TVSS wire harness ① into the designated positions of the connector 35.
- b) Reconnect the connector 35.

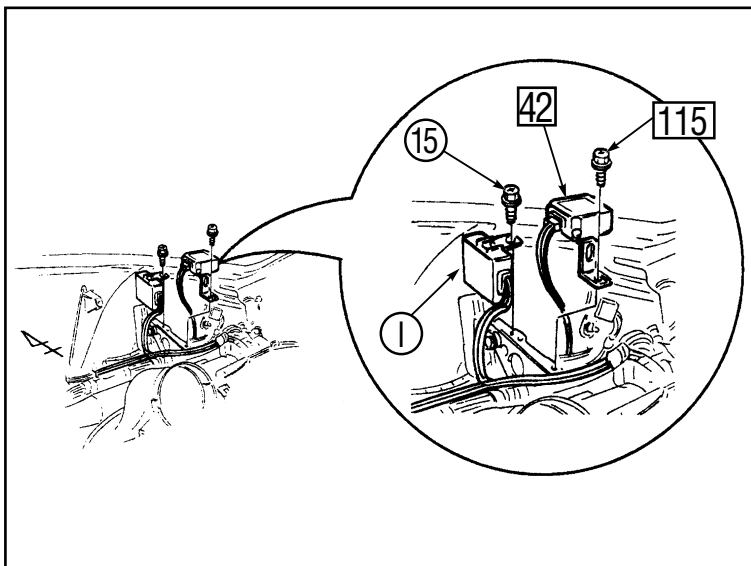


Figure 30

7.

Fit the TVSS ECU ① and wireless door lock control receiver 42 in the following sequence.

- a) Fit the TVSS ECU ① first using screw 15 (1x).
- b) Then, fit the door lock control receiver 42 using bolt 115 (1x).

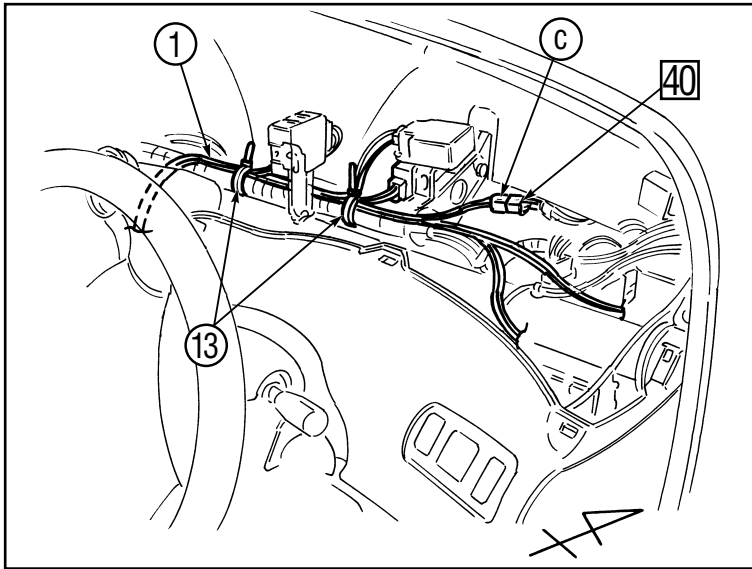


Figure 31

8.
 - a) Insert the 5P connector (white) (C) of the TVSS wire harness (main) (1) to the pre-wired 5P connector (40).
 - b) Route the TVSS wire harness (1) as shown and attach it to the vehicle harness using the wire tie (13).

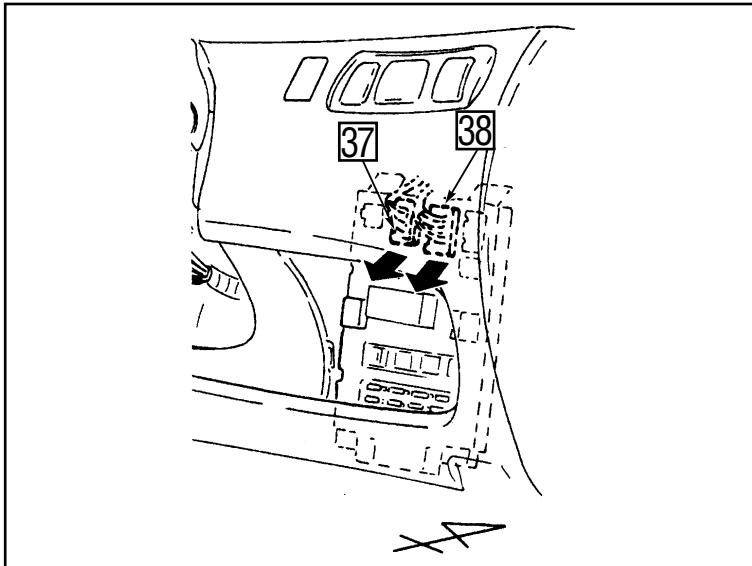


Figure 32

9.

Locate and disconnect both 9P connector (37) (white) and 13P connector (38) (white) in the instrument panel J/B.

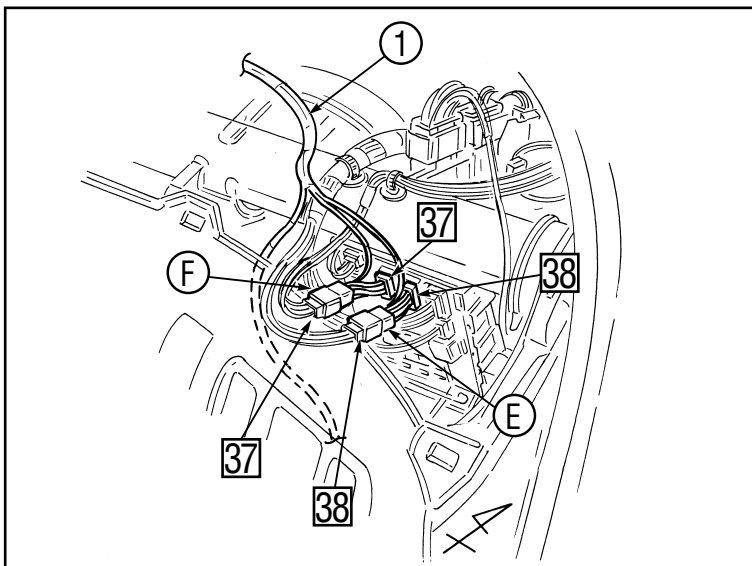


Figure 33

10.
 - a) Insert the 9P connectors (F) of the TVSS wire harness (1) between connector (37) (male) and (37) (female).
 - b) Insert the 13P connector (E) of the TVSS wire harness (1) between connector (38) (male) and (38) (female).

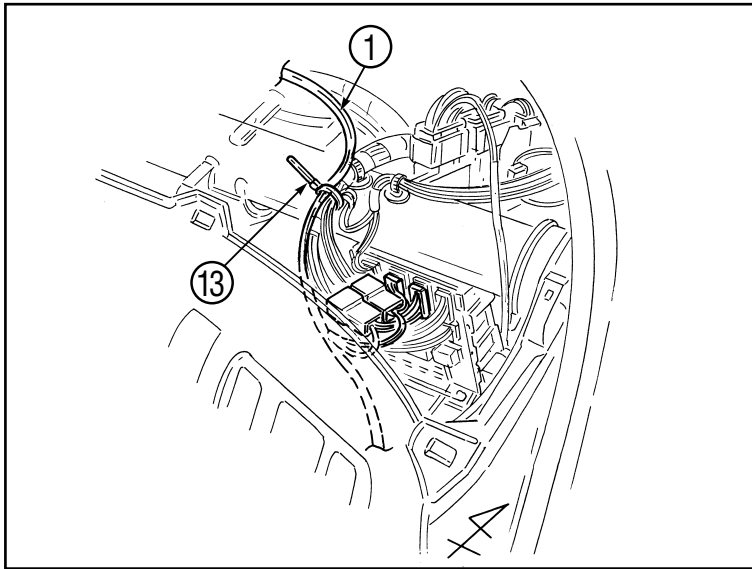


Figure 34

11.

Attach the TVSS wire harness ① to the vehicle harness using the wire tie ⑬ (1x).

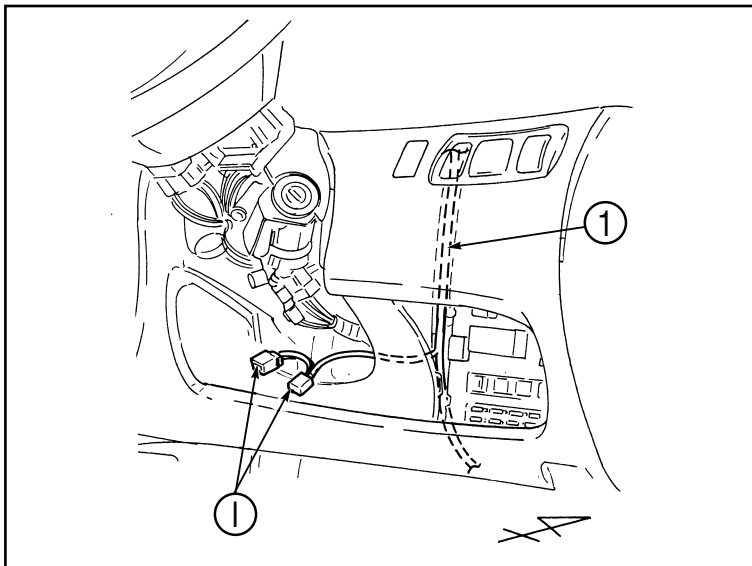


Figure 35

12.

Route the TVSS wire harness ① as shown.

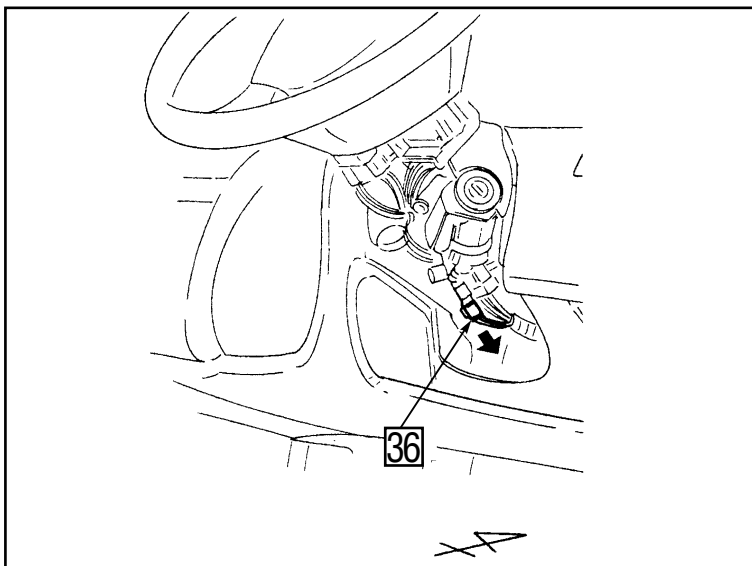


Figure 36

13.

Locate and disconnect the 2P connector ⑳ (white) below the steering column.

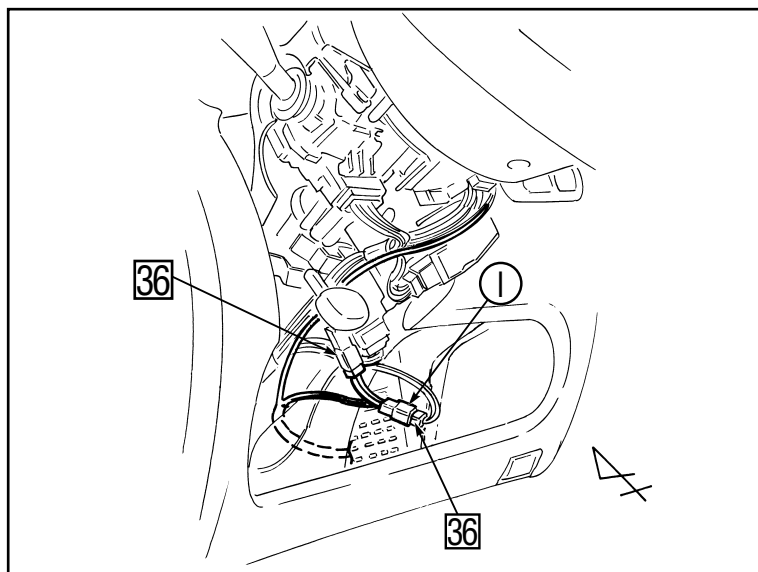


Figure 37

14.

Insert the 2P connector ① of the TVSS wire harness ① between connectors ③⑥ (male) and ③⑥ (female).

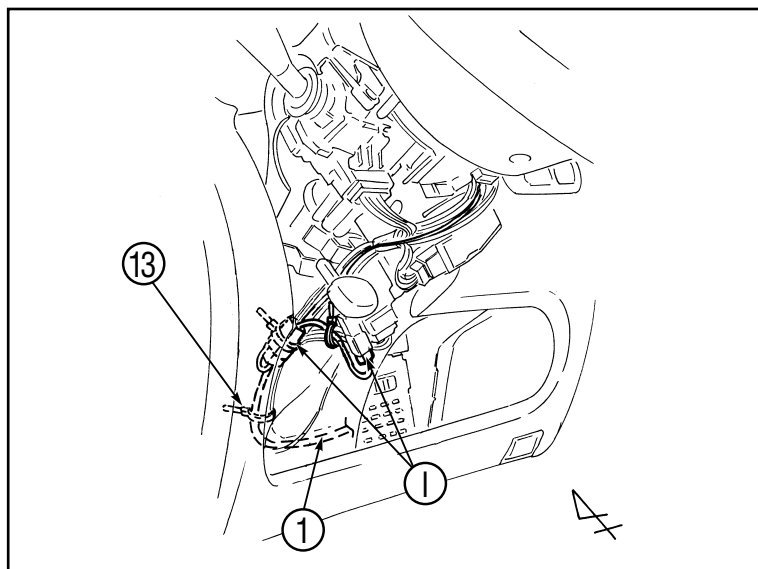


Figure 38

15.

Attach the TVSS wire harness ① to the vehicle harness using wire ties ⑬ (3x).

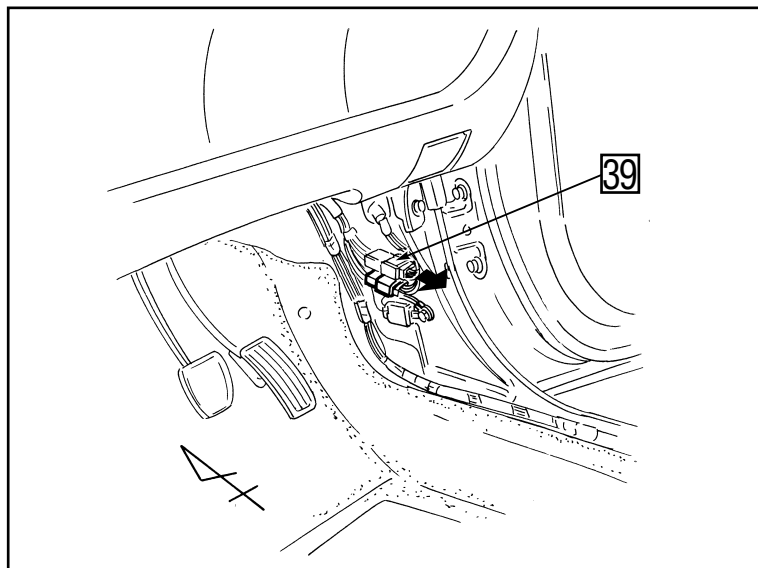


Figure 39

16.

Locate and disconnect the 14P connector ③⑨ (white) in the right kick panel area.

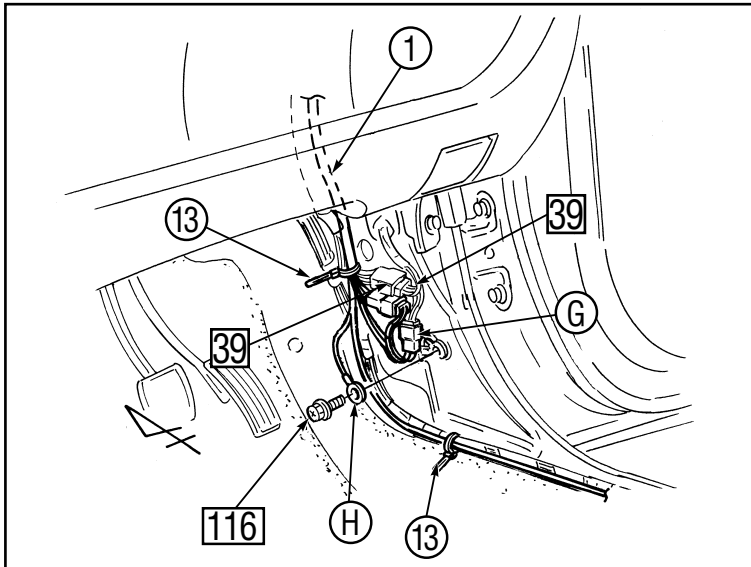


Figure 40

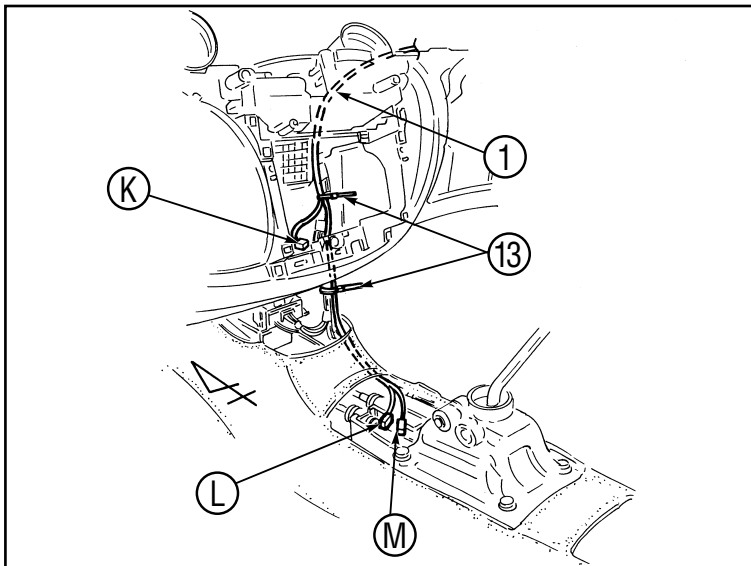


Figure 41

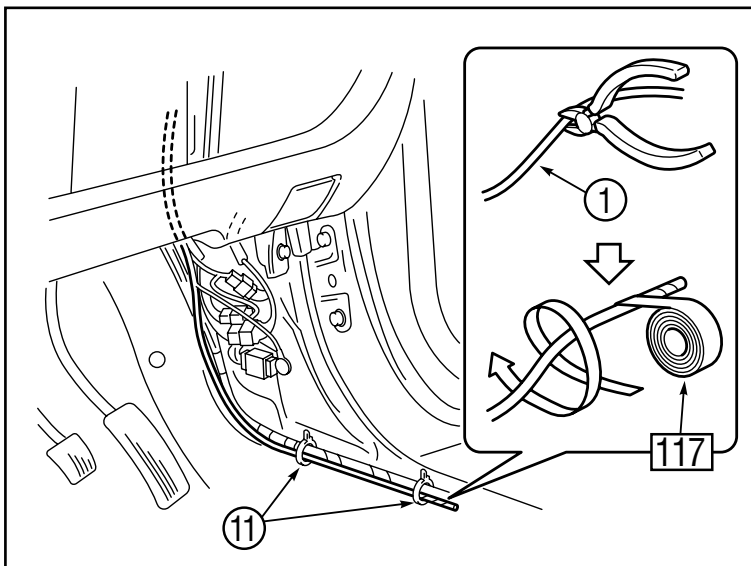


Figure 42

17.

- Remove the ground bolt (116).
- Insert the 14P connector (G) of the TVSS wire harness (1) between connector (39) (male) and (39) (female).
- Locate the ground wire terminal (H) of the TVSS wire harness (1).
- Secure the ground wire terminal (H) together with the vehicle's ground terminal using bolt (116).
- Attach the TVSS wire harness (1) to the vehicle harness using wire ties (13) (2x).

18.

Route the TVSS wire harness (1) as shown.

FOR FACTORY INSTALLED KEYLESS ENTRY

NOTE:

For vehicles with factory fitted keyless entry this black wire will be unused.

19.

- Cut off the black wire of the TVSS wire harness at the location shown.
- Using the insulating tape (117), wrap and attach the end of black wire to the TVSS wire harness (1).
- Attach the TVSS wire harness (1) to the vehicle harness using wire ties (11) (2x).

MOUNTING THE RADAR SENSOR

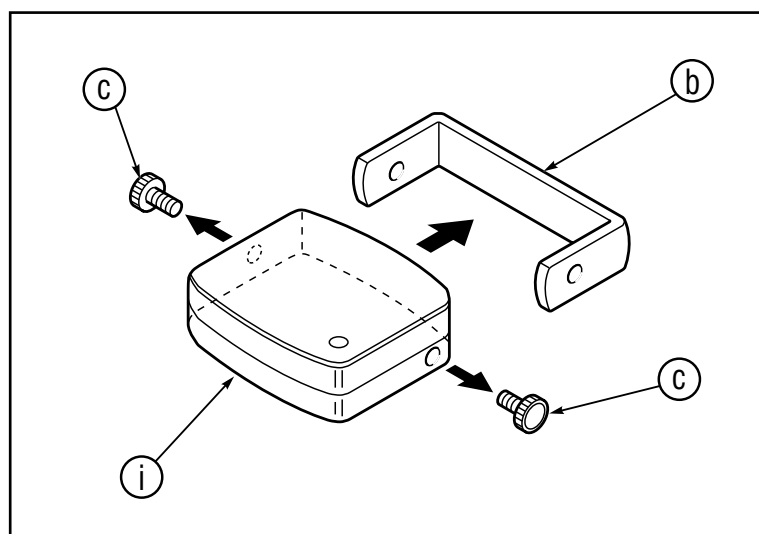


Figure 43

1.

Remove the bracket (b) and the screws (c) (2x) from the radar sensor (i).

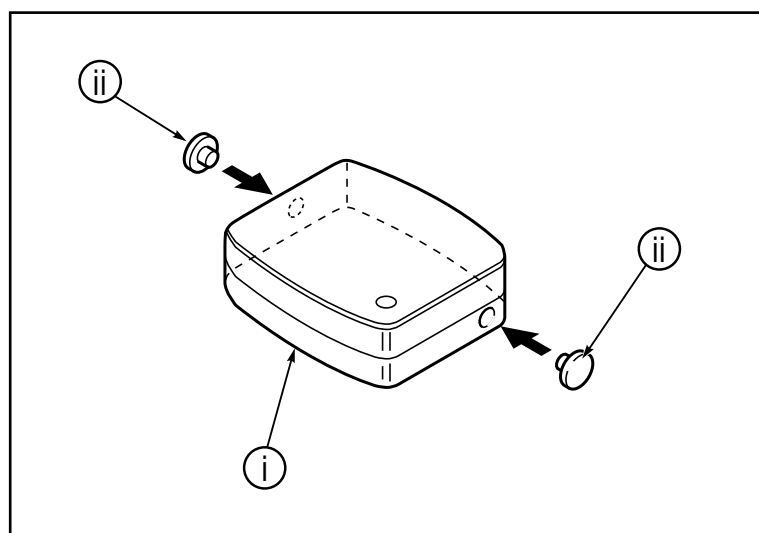


Figure 44

2.

Fit the caps (ii) (2x) to the radar sensor (i).

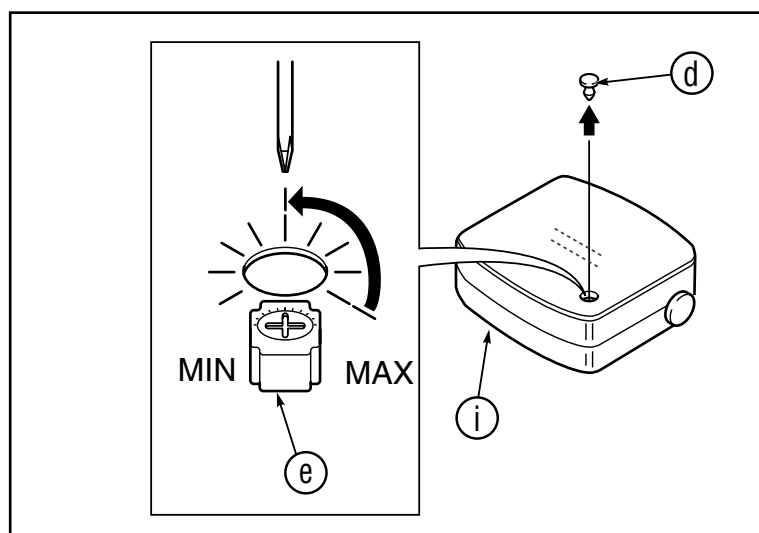


Figure 45

3.

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

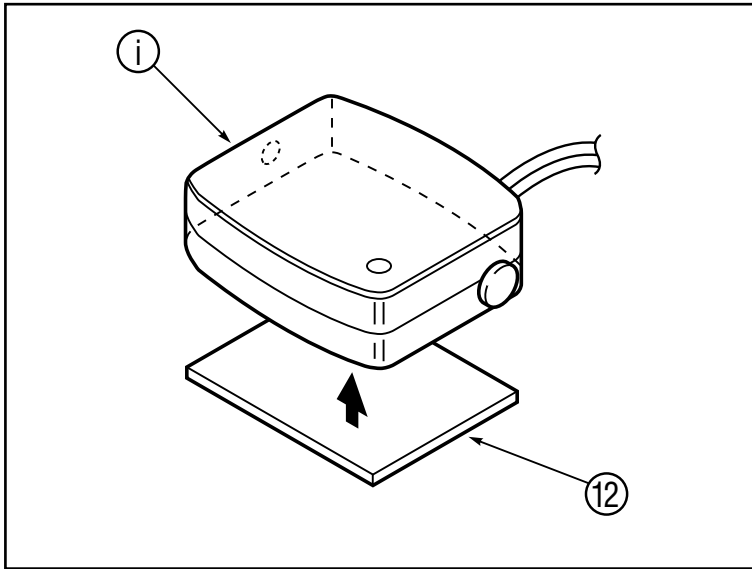


Figure 46

4.

Attach the butyl tape (12) to the bottom of the radar sensor (1).

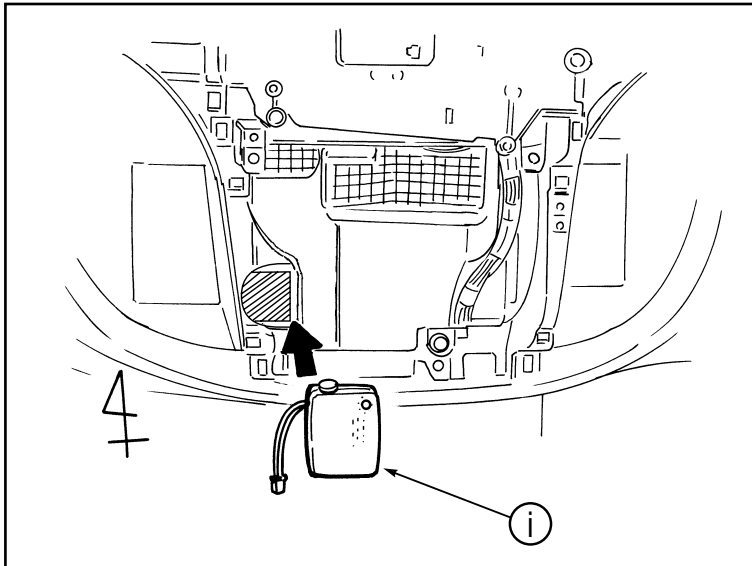


Figure 47

5.

Position and attach the radar sensor (1) to the heater box as shown.

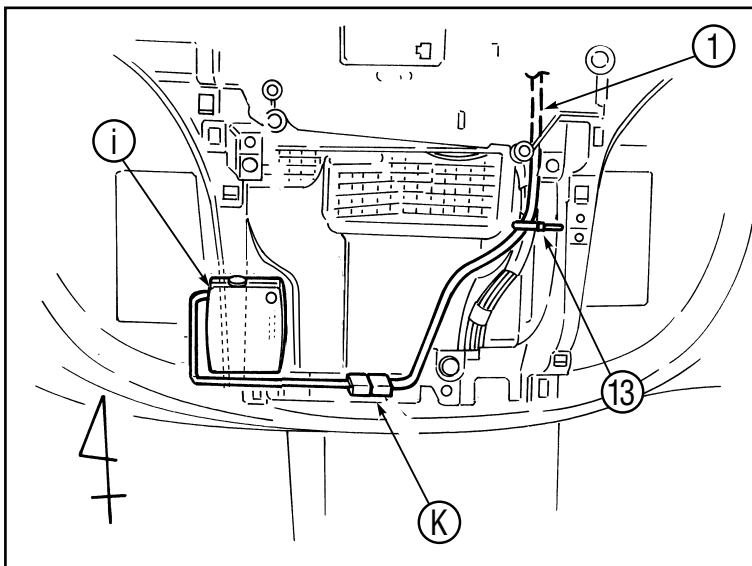


Figure 48

6.

- a) Connect the 4P connector of the radar sensor (1) to the 4P connector (white) of the TVSS wire harness (1).
- b) Attach the TVSS wire harness (1) as shown using the wire tie (13) (1x).

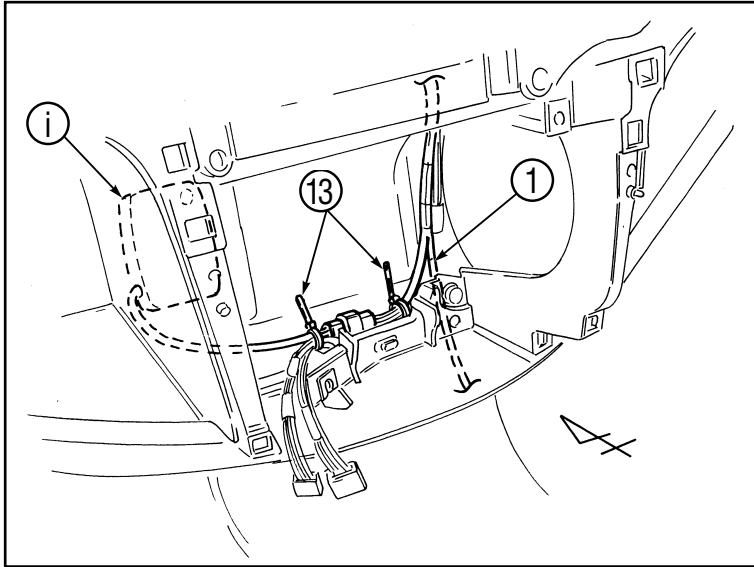


Figure 49

7.

Attach the TVSS wire harness ① to the vehicle harness using wire ties ⑬ (2x).

MOUNTING THE STATUS MONITOR

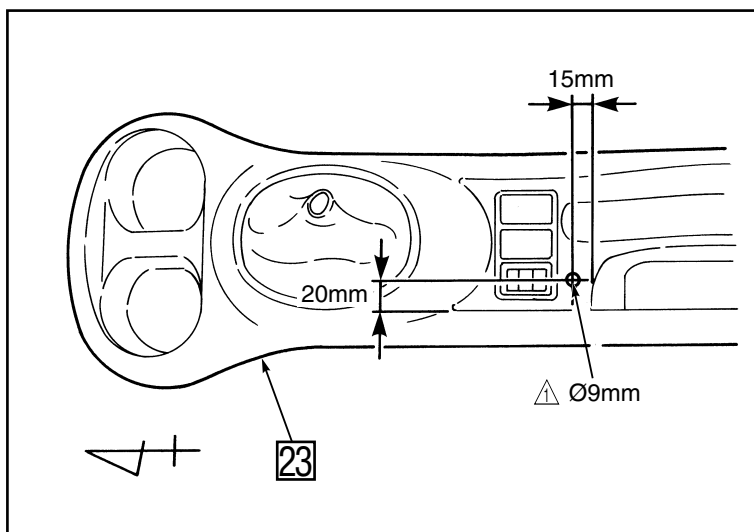


Figure 50

1.

- a) Measure and mark the hole centre \triangle on the console box 23.
- b) Drill the hole \triangle $\varnothing 9\text{mm}$.

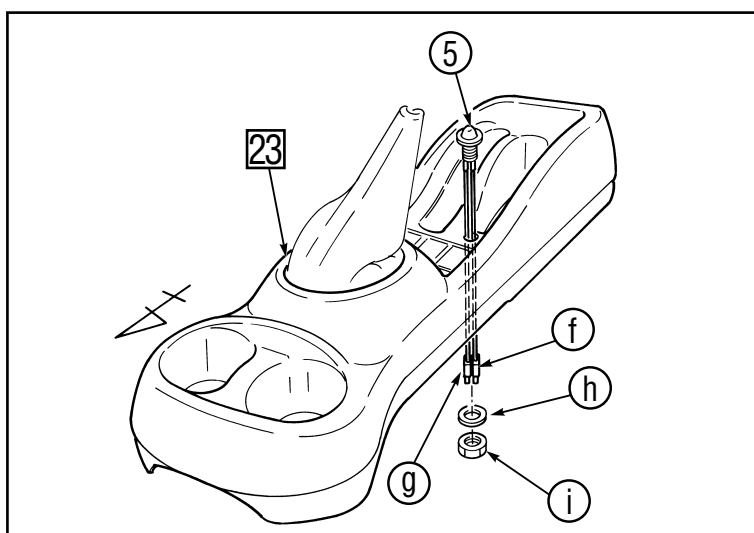


Figure 51

2.

- a) Remove the nut i and washer h from the LED 5.
- b) Put the 1P connectors f and g through the hole \triangle of the console box 23.
- c) Fit the LED 5 in the hole of the console box 23 using the nut i and washer h.

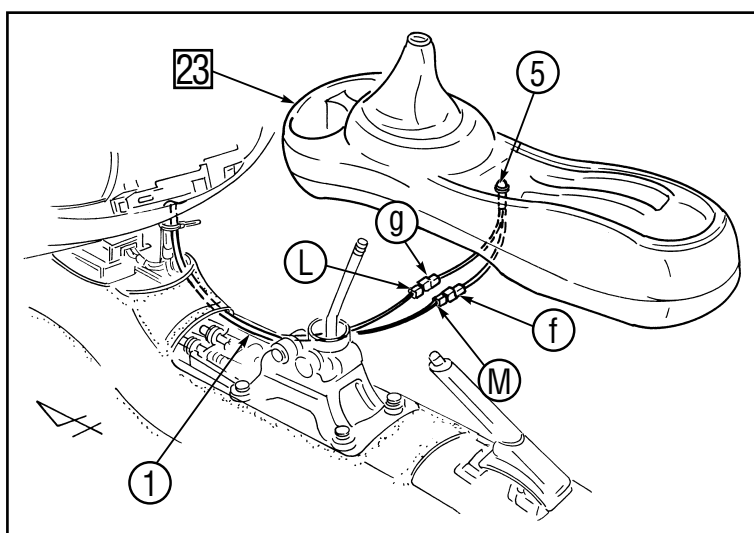


Figure 52

3.

Connect the 1P connector f and g of the LED 5 colour to colour to the 1P connectors L and M to the TVSS wire harness 1.

VEHICLE DISASSEMBLY (FOR VEHICLES WITHOUT BACK DOOR SWITCH)**NOTE:**

This instruction applies only in case there is NO back door switch.

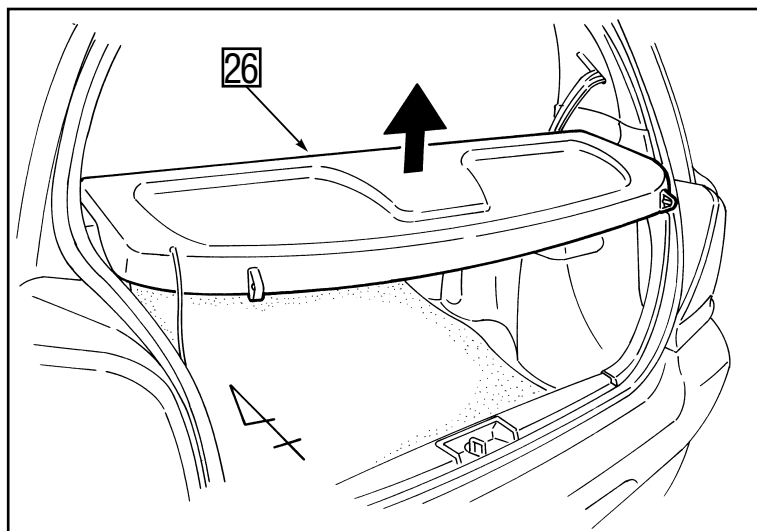


Figure 53

1.

Remove the parcel shelf 26.

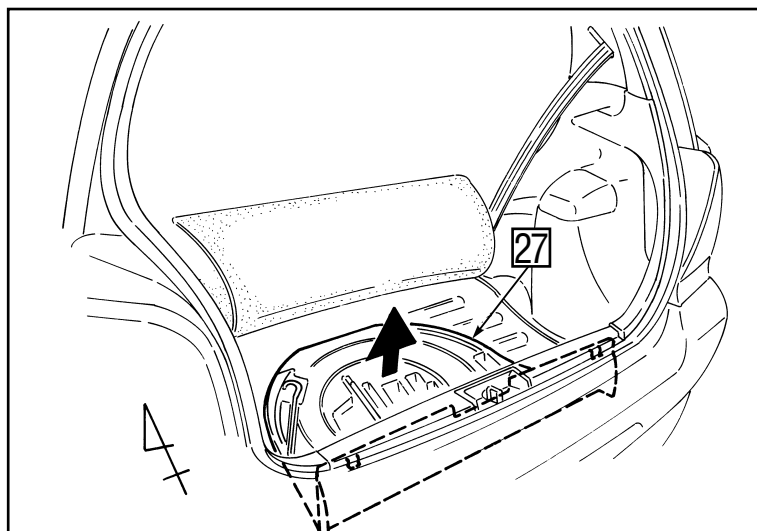


Figure 54

FOR 3DOOR MODELS

2.

Remove the spare wheel cover 27.

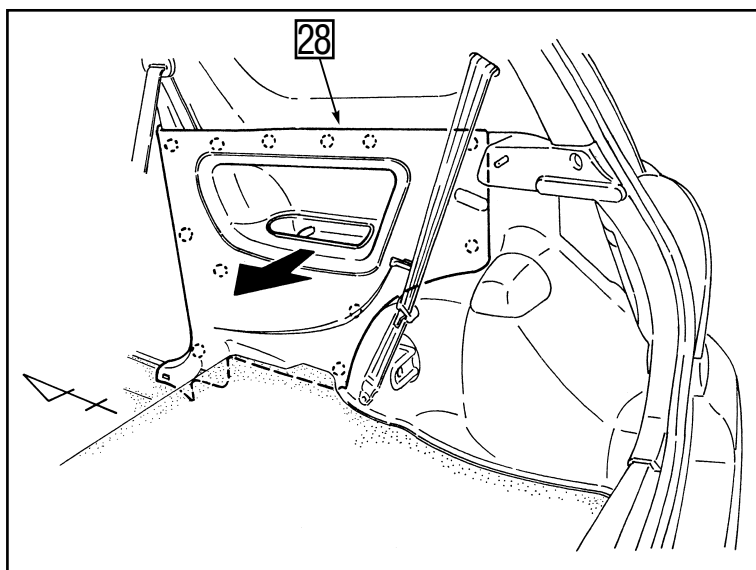


Figure 55

FOR 3DOOR MODELS

3.

Remove the rear driver's side panel RH 28.

○: Clip (12x)

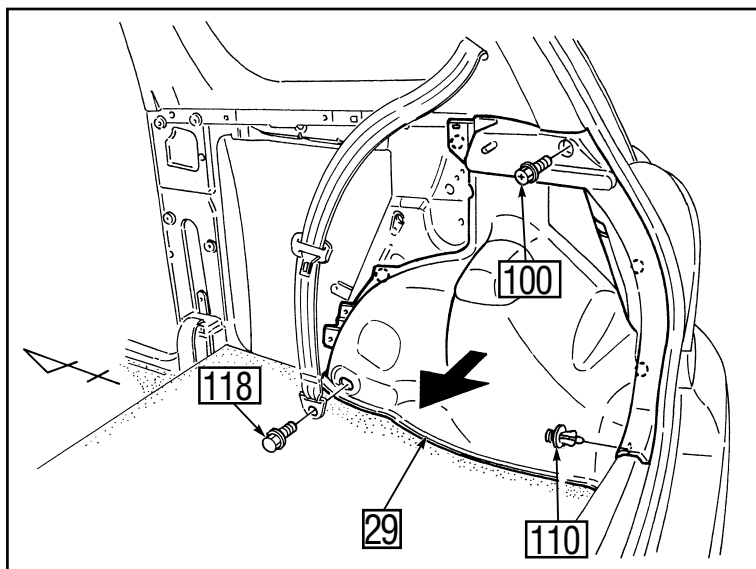


Figure 56

FOR 3DOOR MODELS

4.

Remove the boot side trim RH 29.

○: Clip (2x)

118: Bolt (1x)

110: Clip (1x)

100: Screw (1x)

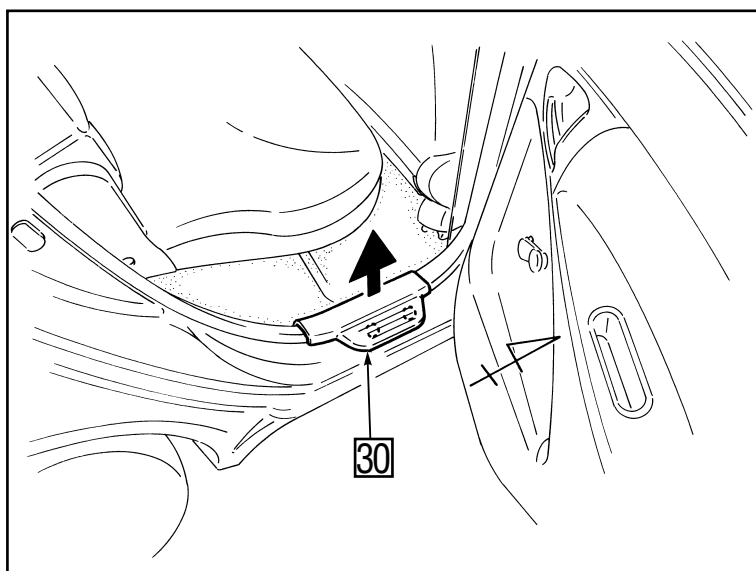


Figure 57

FOR 5DOOR MODELS

5.

Remove the rear door sill cover 30.

○: Clip (2x)

FOR 5DOOR MODELS

6.

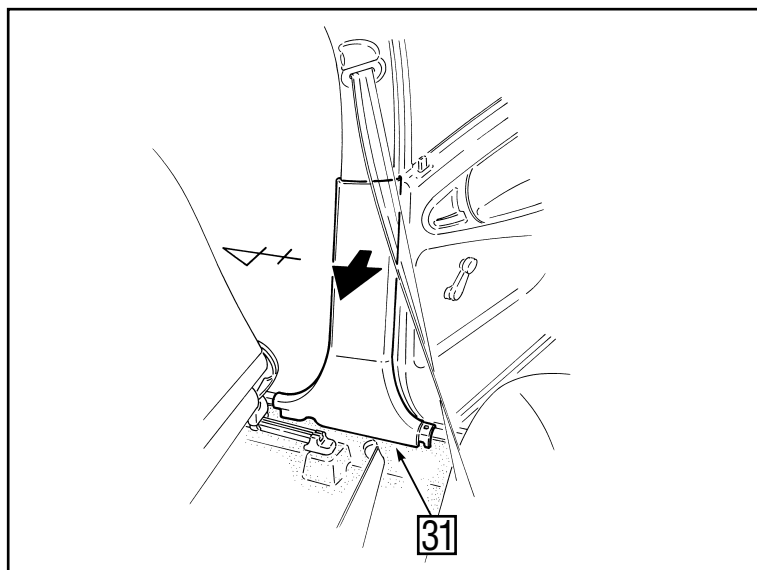
Remove the centre pillar trim **31**.

Figure 58

FOR 5DOOR MODELS

7.

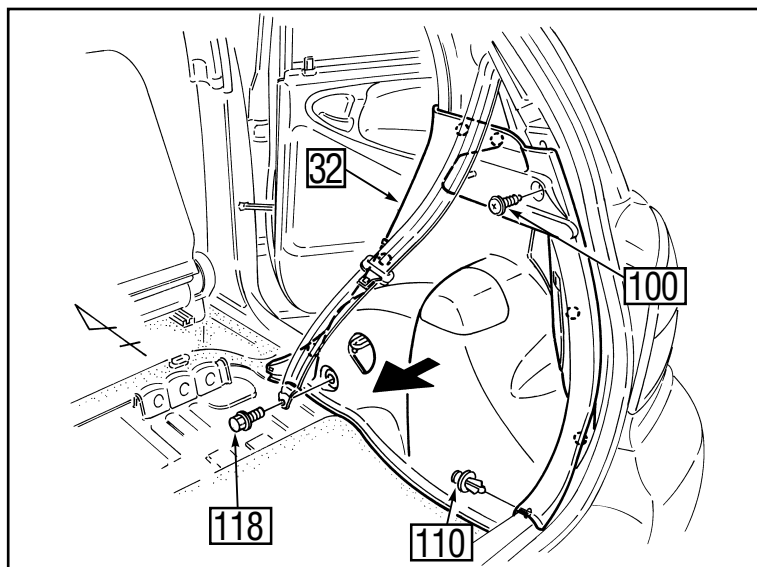
Remove the boot side trim RH **32**.

Figure 59

- : Clip (5x)
- 100**: Screw (1x)
- 118**: Bolt (1x)
- 110**: Clip (1x)

WIRE HARNESS INSTALLATION (FOR VEHICLES WITHOUT BACK DOOR SWITCH)

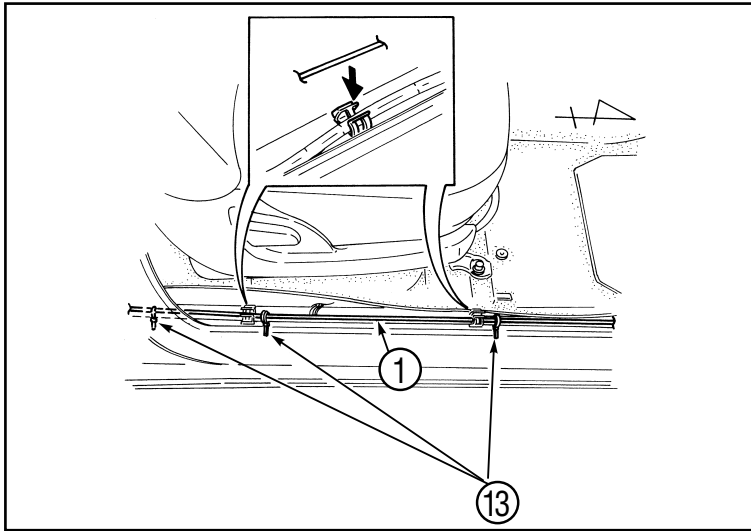


Figure 60

1.

Route and attach the TVSS wire harness ① as shown using the vehicle harness clamps and wire ties ⑬ (3x).

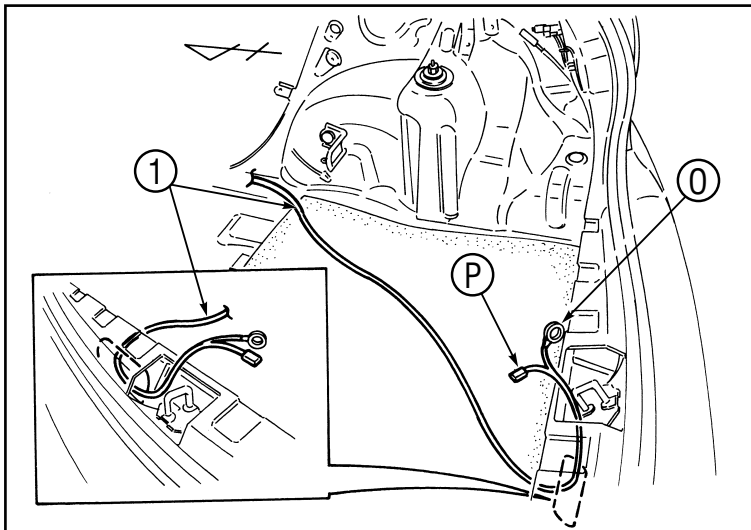


Figure 61

2.

Route the TVSS wire harness ① to the rectangular opening as shown. Pull the connector ① and the ground terminal ① through the opening.

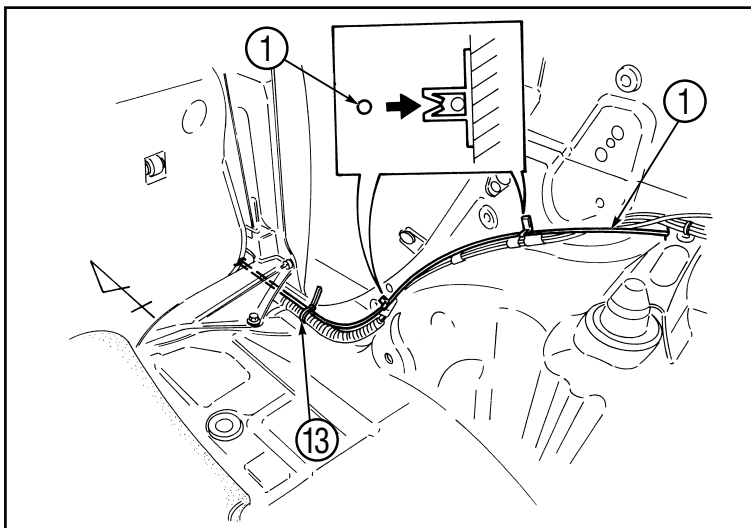


Figure 62

3.

Route and attach the TVSS wire harness ① as shown using the vehicle harness clamps and the wire tie ⑬ (1x).

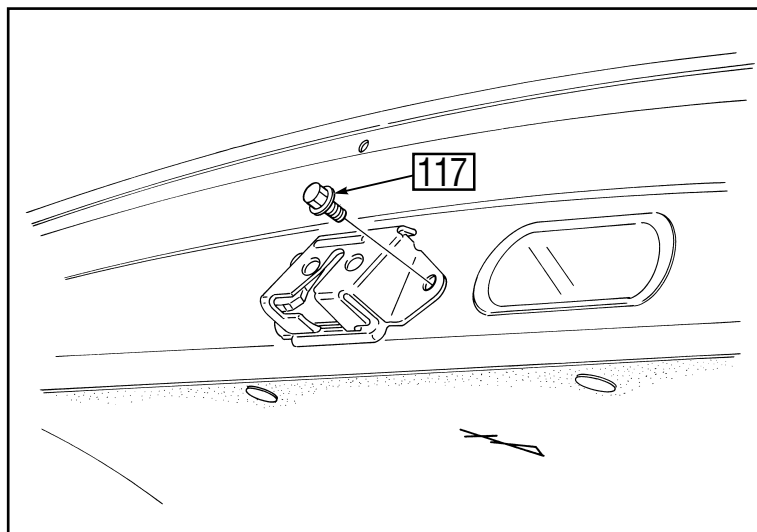
MOUNTING THE STRIKER PLATE (FOR VEHICLES WITHOUT BACK DOOR SWITCH)

Figure 63

1.

Remove the hatch door lock bolt.

117 : Bolt (1x)

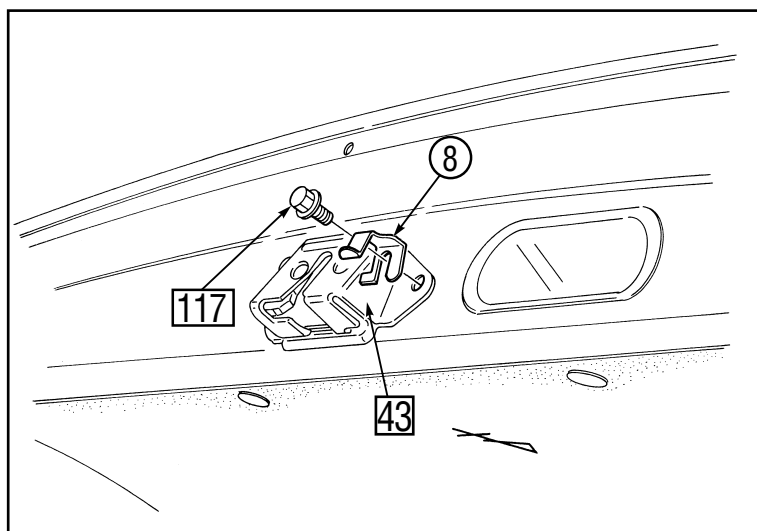


Figure 64

2.

Fit the striker plate ⑧ to the hatch door lock assembly 43 using the bolt 117.

MOUNTING THE BOOT SWITCH (FOR VEHICLES WITHOUT BACK DOOR SWITCH)

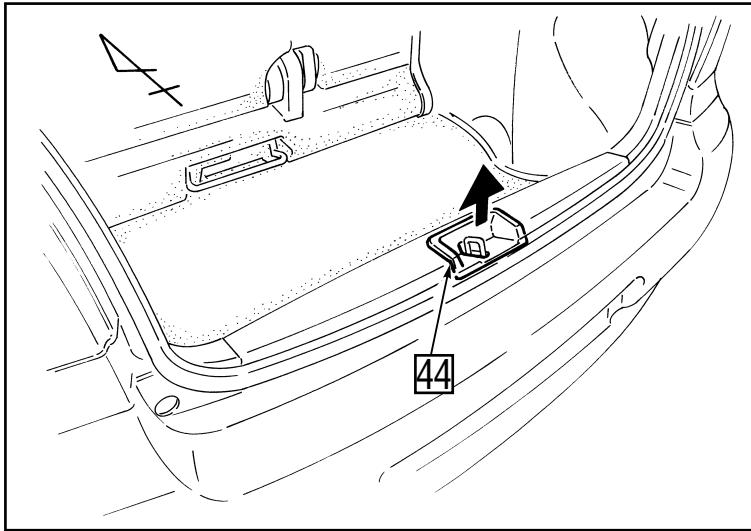


Figure 65

1.

Remove the hatch lock cover 44.

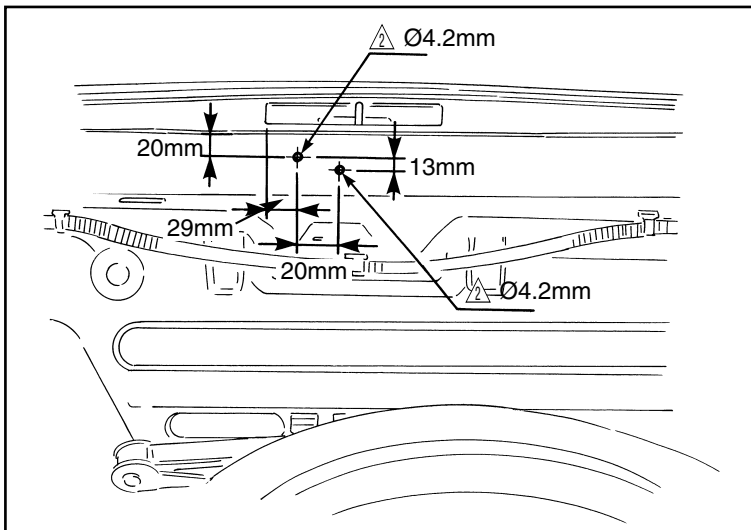


Figure 66

2.

- a) Measure and mark the hole centres 2 (2x) on the boot panel.
- b) Drill the holes 2 (2x).

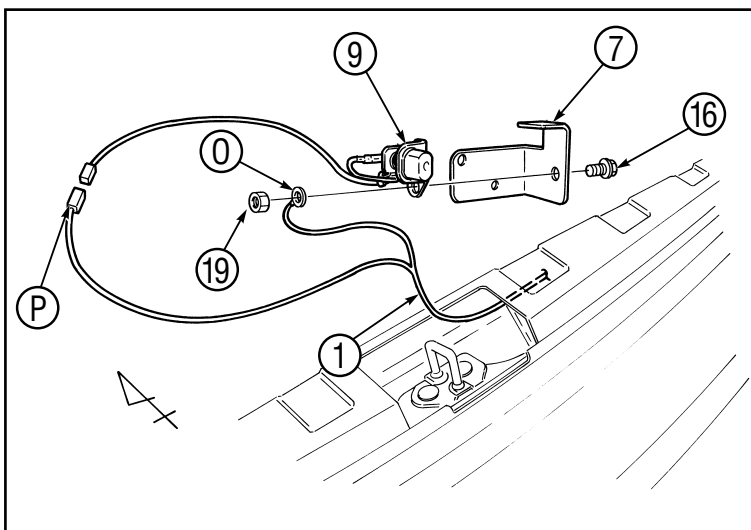


Figure 67

3.

- a) Fit the boot switch 9 to the bracket 7 using the bolt 16 (1x) and nut 19 (1x).

NOTE:

Be sure to attach the ground terminal 0 in between bolt 16 (1x) and nut 19 (1x).

- b) Connect the 1P connector P (grey) of the TVSS wire harness 1 to the 1P connector of the switch 9.

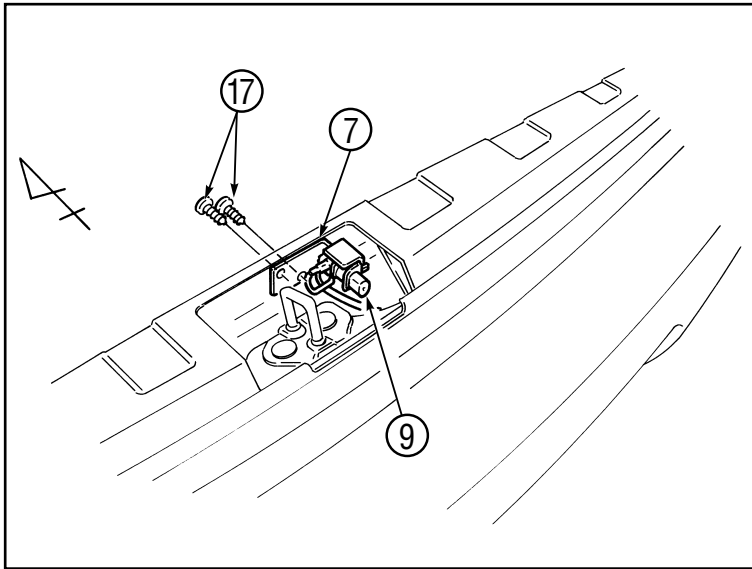


Figure 68

4.

Attach the switch bracket ⑦ using the screws ⑰ (2x).

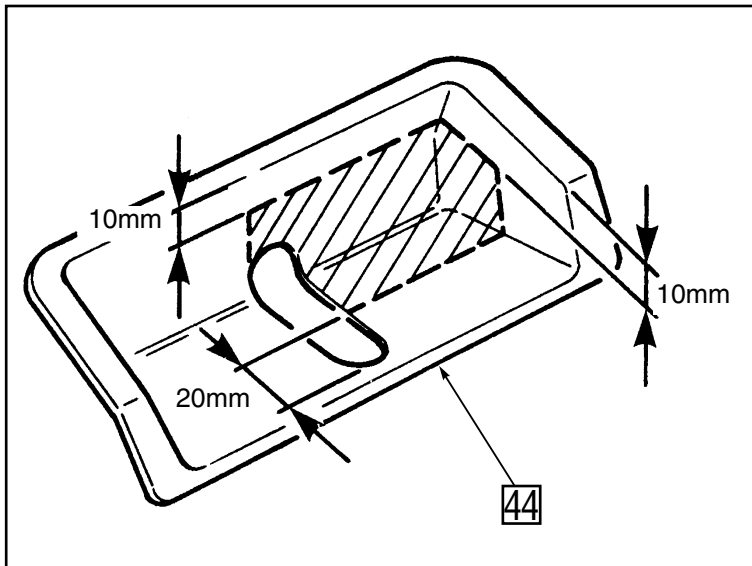


Figure 69

5.

- a) Measure and mark the area of the hatch lock cover ④④ as indicated in the illustration.
- b) Then, cut out the marked area.

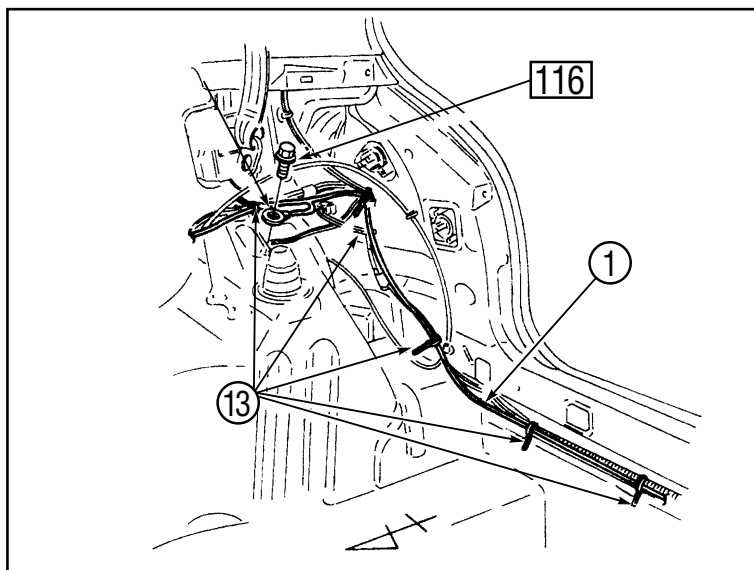


Figure 70

6.
 - a) Remove the bolt 116 (1x).
116: Bolt (1x)
 - b) Attach the ground terminal by using the bolt 116.
 - c) Attach the TVSS wire harness 1 to the vehicle harness using wire ties 13 (5x).

IMPORTANT NOTE:

In order to test the TVSS functions before the reassembly of the vehicle, the COMBINATION METER is to be re-connected. Otherwise the alarm system will not operate properly.

VEHICLE DISASSEMBLY (ENGINE COMPARTMENT)

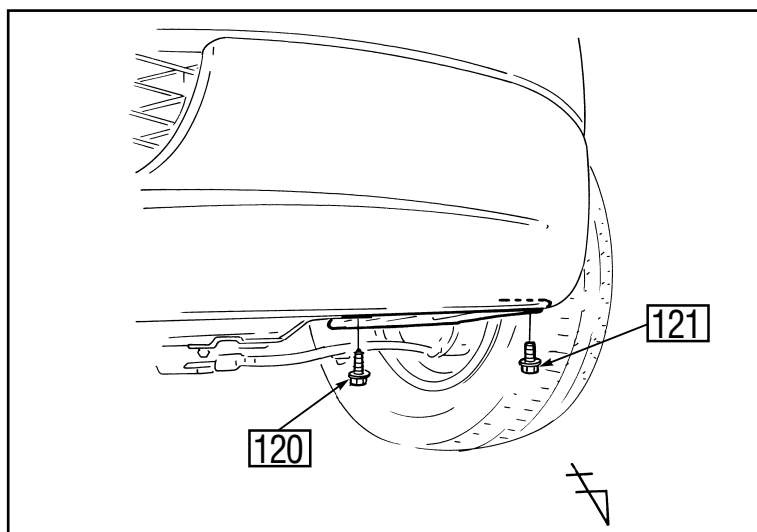


Figure 71

1.

Remove the screws 120 and 121.

120: Screw (1x)

121: Screw (1x)

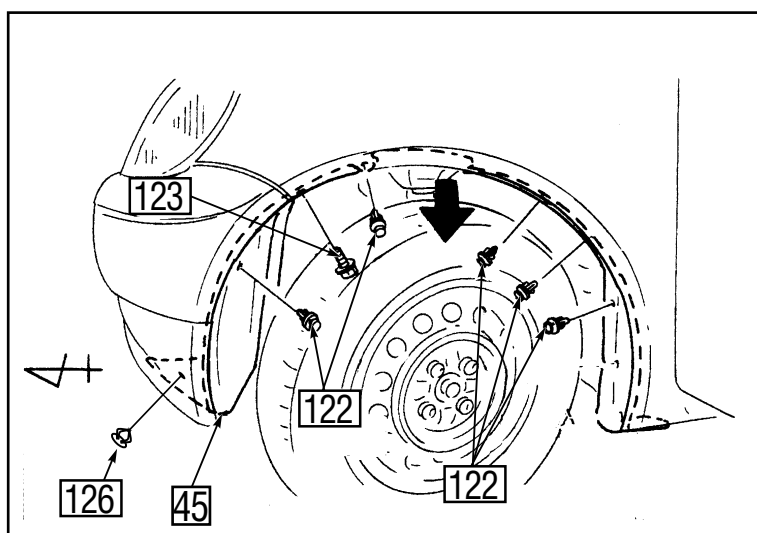


Figure 72

2.

Remove the passenger's side fender liner 45.

123: Screw (1x)

122: Clip (5x)

126: Clip (5x)

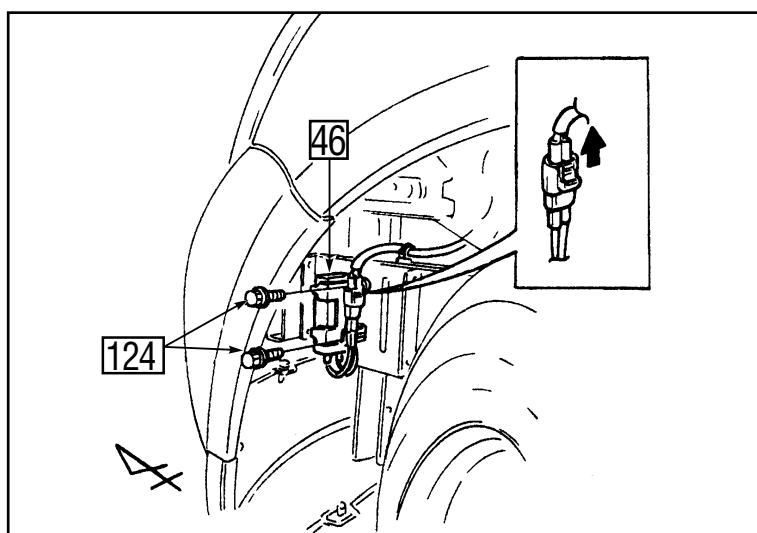


Figure 73

3.

Remove the resistor 46.

124: Bolt (2x)

NOTE:**Discard the removed bolts 124 (2x).**

MOUNTING THE SIREN

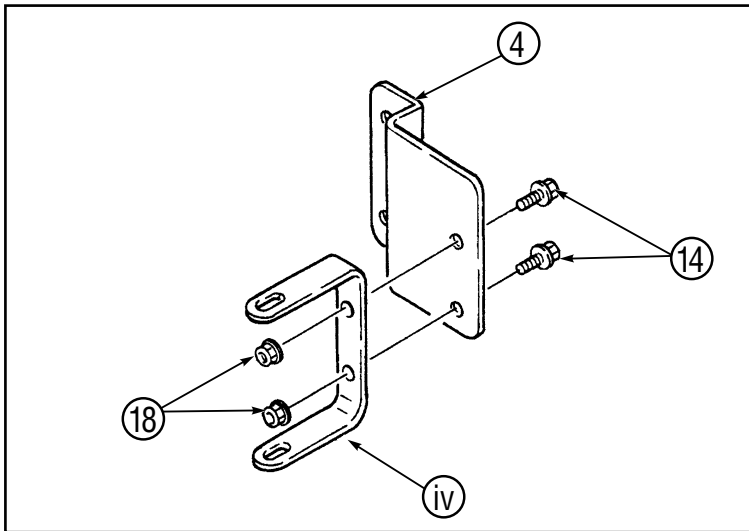


Figure 74

1.

Fit the siren bracket (iv) to the siren bracket (4) using the bolts (14) (2x) and nuts (18) (2x).

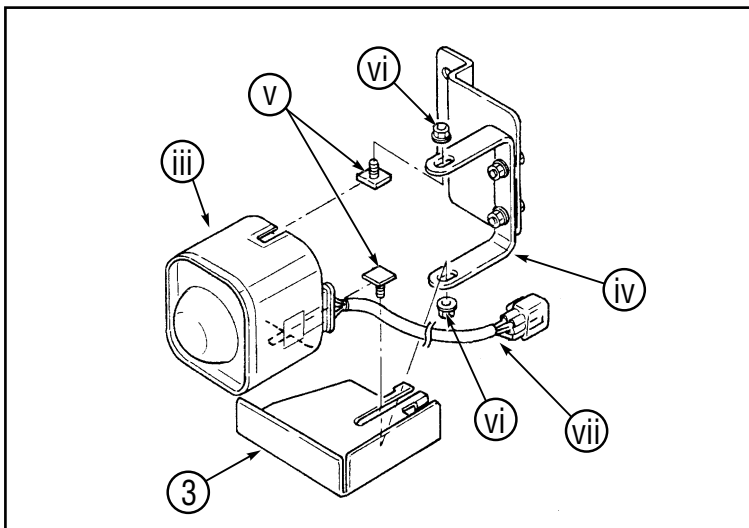


Figure 75

2.

- a) Connect the siren wire harness (vii) to the siren (iii).
- b) Fit the siren (iii) and the protective bracket (3) to the siren bracket (iv) using bolts (v) (2x) and nuts (vi) (2x).

NOTE:

Be sure to install the protective bracket (3) between bolt (v) (1x) and nut (vi) (1x).

3.

Fit the resistor (46) and the siren (iii) using the bolts (14) (2x).

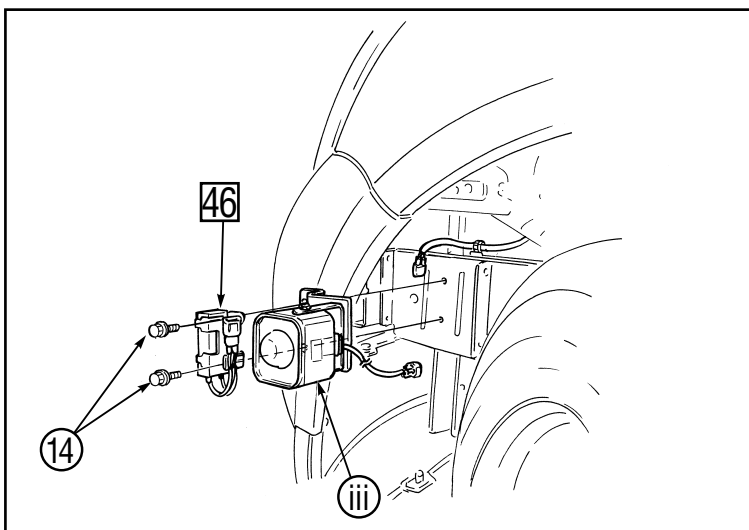


Figure 76

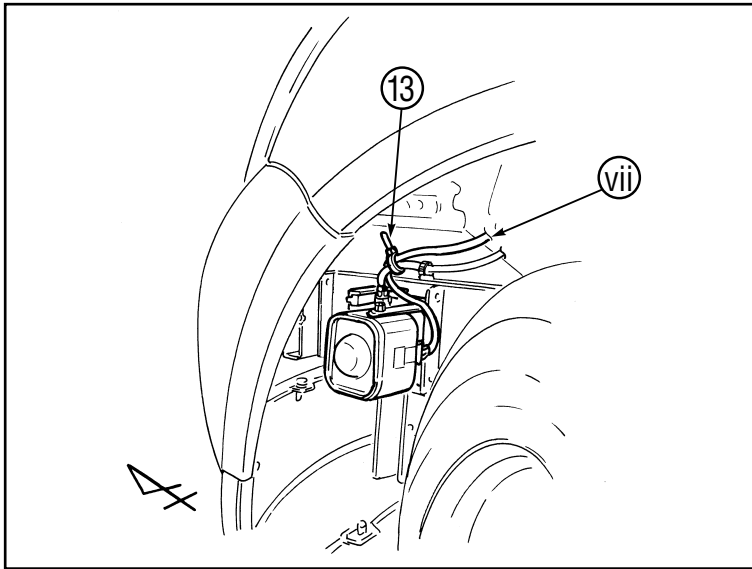


Figure 77

4.

Attach the siren wire harness (vii) to the vehicle harness using the wire tie (13) (1x).

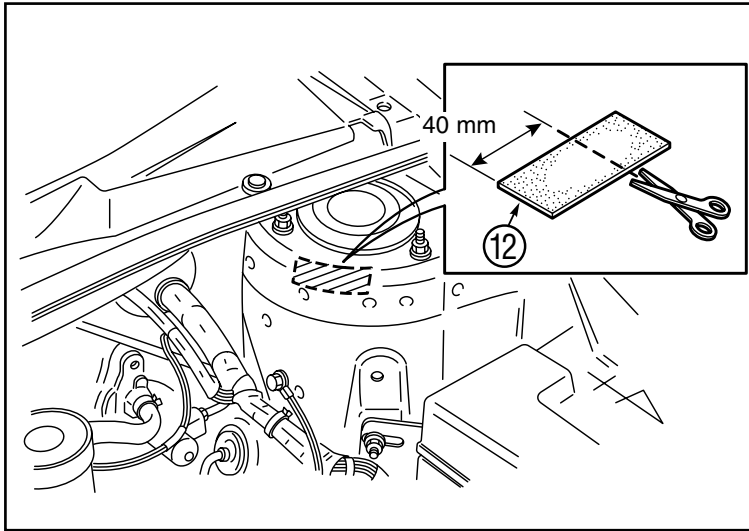
MOUNTING THE HOOD SWITCH

Figure 78

1.

Cut the butyl tape ⑫ as shown.

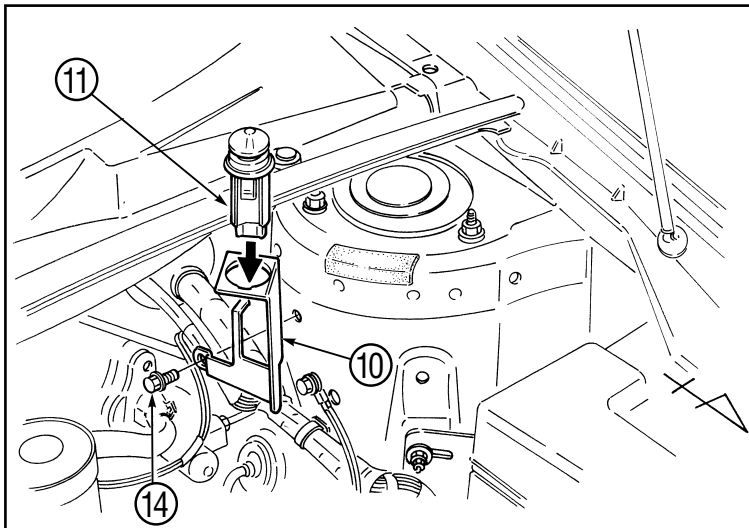


Figure 79

2.

- a) Fit the hood switch bracket ⑩ using the bolt ⑭ (1x).
- b) Fit the hood switch bracket ⑩ to the hood switch ⑪.

WIRE HARNESS INSTALLATION (ENGINE)

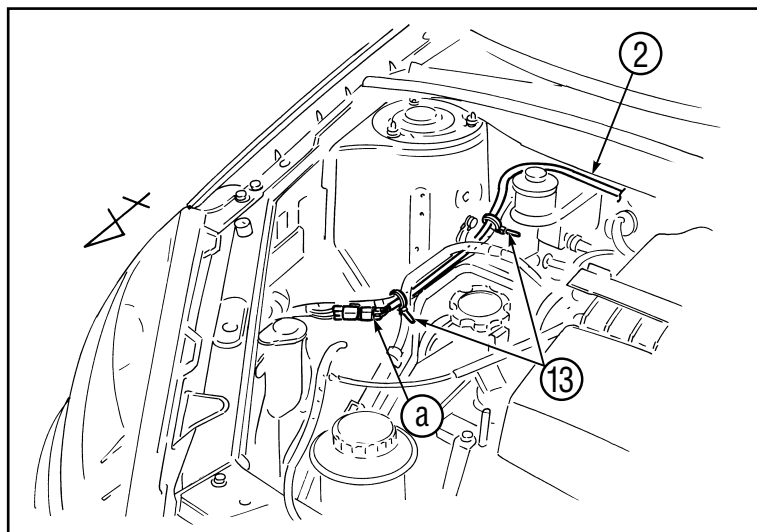


Figure 80

1.

- a) Connect the 6P connector (a) (grey) of the TVSS wire harness (2) to the pre-wired 6P connector (grey).
- b) Route and attach the TVSS wire harness (2) to the vehicle harness using wire ties (13) (2x).

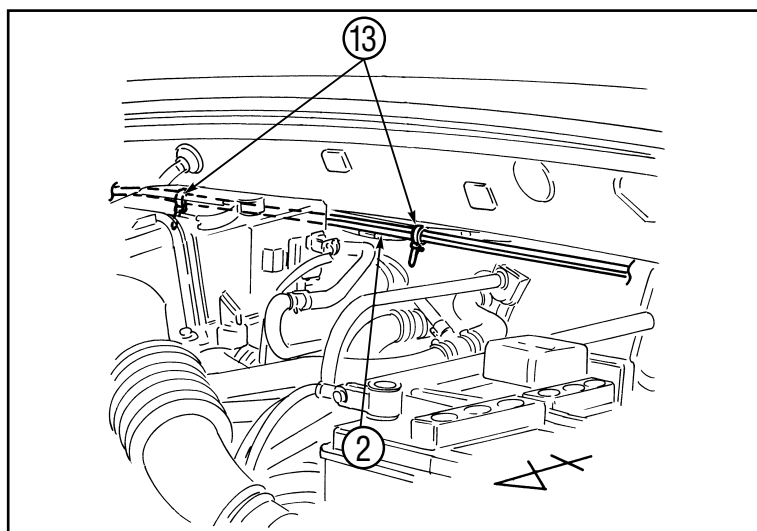


Figure 81

2.

Route and attach the wire harness (2) to the vehicle harness using wire ties (13) (2x).

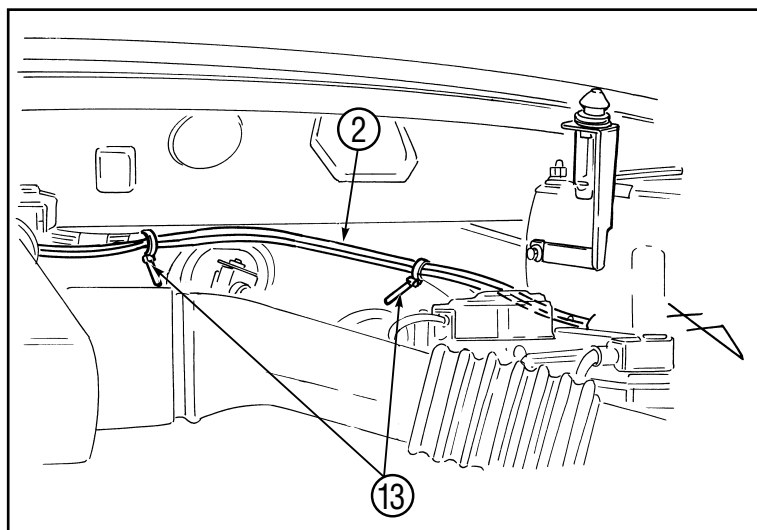


Figure 82

3.

Route and attach the TVSS wire harness (2) to the vehicle harness using wire ties (13) (2x).

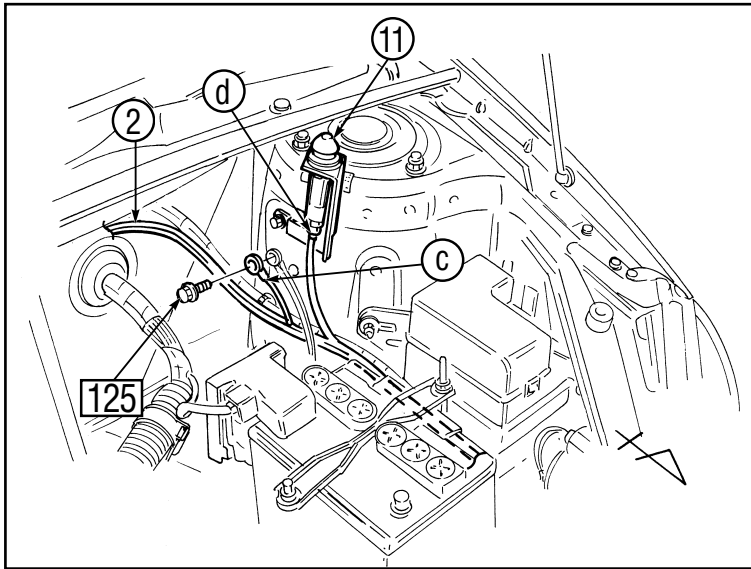


Figure 83

4.
 - a) Remove the bolt 125.
 - b) Attach the ground terminal (c) and the vehicle's ground terminal using the bolt 125.
 - c) Connect the 2P connector (d) of the TVSS wire harness (2) to the hood switch (11).

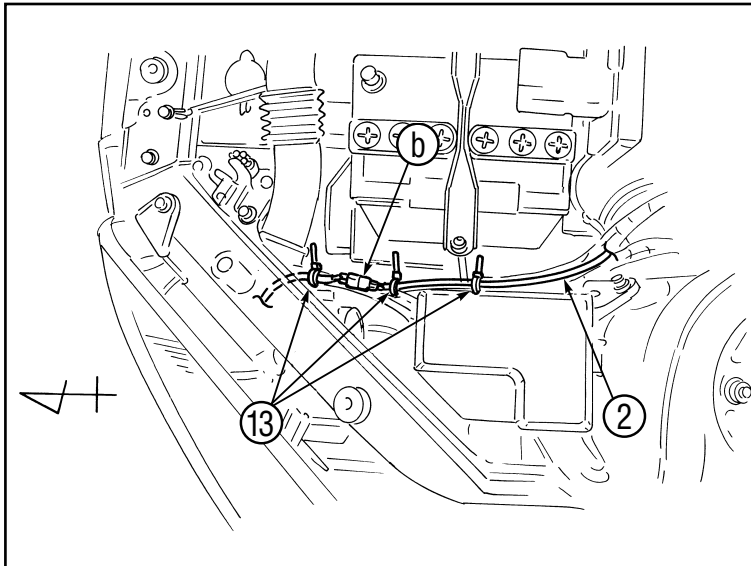
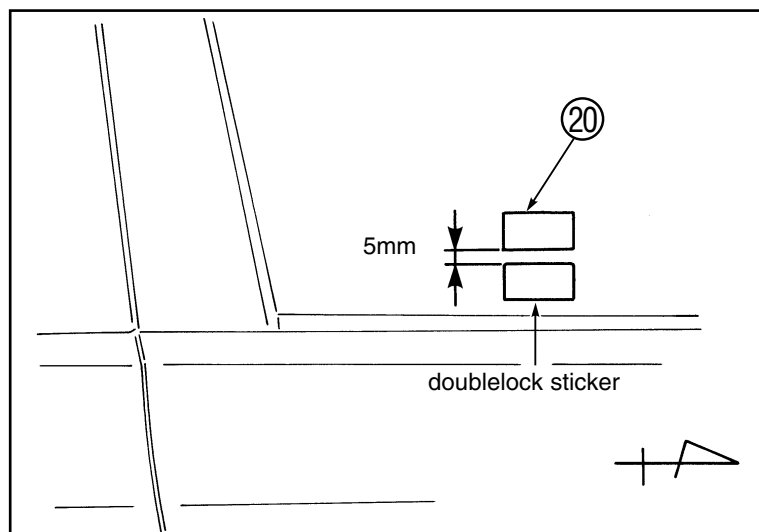


Figure 84

5.
 - a) Connect the 6P connector (b) (grey) of the TVSS wire harness (2) to the 6P siren connector (grey).
 - b) Attach the TVSS wire harness (2) to the vehicle harness using wire ties (13) (3x).

ATTACHING THE STICKERS*Figure 85*

1.

- a) Clean the inside surface of both front windows.
- b) Attach the stickers ②① to both front windows as shown.

REFIT THE TRIM AND REMOVED PARTS.

NOTES

[illegible]

NOTES

[illegible]

TOYOTA
GENUINE PARTS