



TNS300

TOYOTA NAVIGATION SYSTEM



Avensis Verso (RHD)

INSTALLATION INSTRUCTIONS

FOR ****M2*R**

PART NUMBER

NAVIGATION KIT

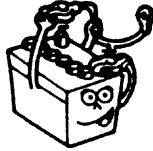
08545-52800

PRECAUTIONS

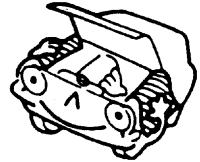


PLEASE READ THOROUGHLY THESE PRECAUTIONS BEFORE THE INSTALLATION

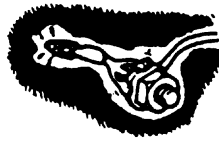
- Be sure to disconnect the negative (-) lead from the battery terminals.



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



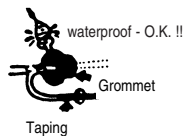
- Do not pinch the rear wiring or harness in the tightened part.



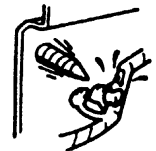
- Use the correct tool when tightening bolts or nuts.



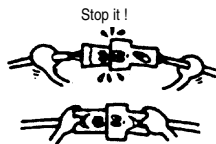
- When passing the wires through the dashboard or other panels, use a grommet to ensure waterproofing.
- Protect the wiring with tape when it is passed through a hole.



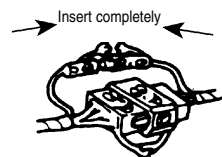
- Before drilling a hole, check that the rear of the mounting wall is clear.



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



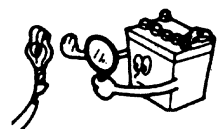
- Be sure to firmly tighten connectors and terminals.



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



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



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



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

TABLE OF CONTENTS



Precautions	2
Application Chart	4
Component Parts	6
Required Parts	7
Wiring Connection	8
Installation Overview	9
Vehicle Disassembly	10
Installation of the Computer Bracket	15
Installation of the GPS Antenna	18
Wire Harness Installation	20
Installation of the Computer	24
Installation of Navigation Disc	25
Post-Installation Inspection	26
Reassembling	26

(LHD+RHD)**Avensis Verso **M2*L+R****AUDIO APPLICATION CHART**TMME-CS Group - December 4rd 2003

TOYOTA ACCESSORIES		ADD-ON UNIT(S)	
		In Dash 0.6 CD-Changer (green) (08601-00913) Hide Away CD-Changer TM0461 (08601-00911) 0.6 CD-Deck (green) (08601-00908) Navigation System TNS300 (08545-00805)	
COMBINATION	HEAD UNIT	REQUIRED ADDITIONAL PARTS	
1.4 DIN Head-Unit			
1 Radio/Cassette (only)	08600-00963 (green)		Cover plate (55522-42010)
2 Radio/Cassette + CD-Deck	08600-00963 (green)	●	-
3 Radio/Cassette + CD-Changer	08600-00963 (green) 08600-00963 (green)	● ● (2)	- Cover plate (55522-42010) + F/K PZ425-50220-60
4 CD-Tuner (only)	08600-00965 (green)		Cover plate (55522-42010)
5 CD-Tuner + CD-Changer	08600-00965 (green) 08600-00965 (green)	● ● (2)	- Cover plate (55522-42010) + F/K PZ425-50220-60
Full Map Navigation	MOP	● (2)	Conversion harness 08695-00370 + F/K PZ425-50220-60

MOP = Factory Installed Option • 08695-00803 = Hanging Seat Mounting Kit

(1) Some vehicle grades require the 18P conversion wire PZ457-00210-60 • (2) : In luggage area using bracket PZ425-50220-60 • (3) : Under front left hand seat

(LHD+RHD)

Avensis Verso **M2*L+R

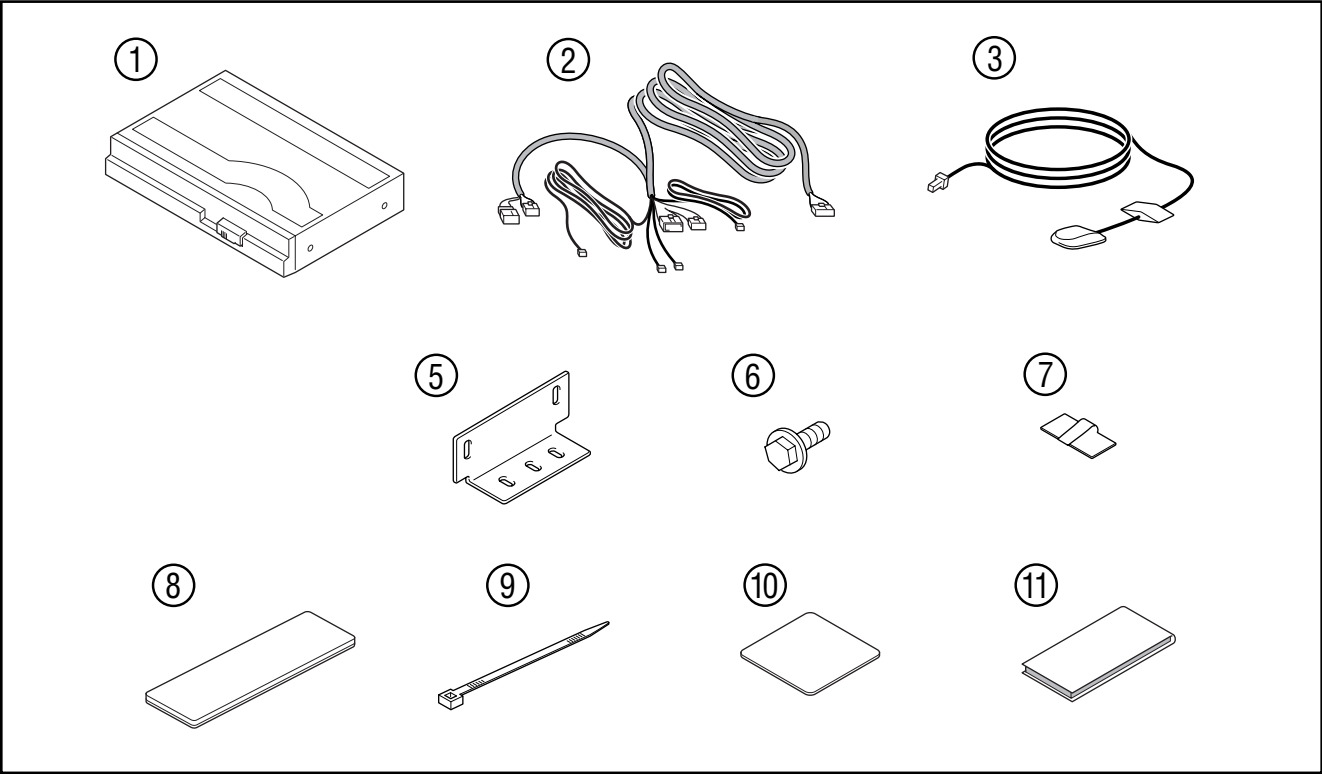
AUDIO APPLICATION CHART
TMME-CS Group - December 4rd 2003

		ADD-ON UNIT(S)			
		COMBINATION	HEAD UNIT	In Dash 0.6 CD-Changer (green) (08601-00913) 0.6 CD-Deck (green) (08601-00908)	
				Hide Away CD-Changer TM0461 (08601-00911) Navigation System TNS300 (08545-00805)	
Wide-2DIN					REQUIRED ADDITIONAL PARTS
7	Radio/Cassette (only)		MOP-Unit 08600-00948 (green) (1)		-
8	Radio/Cassette + CD-Changer		MOP-Unit 08600-00948 (green) (1)	● (2) ● (2)	F/K PZ425-50220-60 (1) PZ457-00210-60 + F/K PZ425-50220-60
9	Radio/Cassette + Navigation (TBT)		MOP-Unit 08600-00948 (green) (1)	● (3) ● (3)	- (1) PZ457-00210-60
10	Radio/Cassette + CD-Changer + Navigation (TBT)		MOP-Unit 08600-00948 (green) (1)	● (2) ● (2)	F/K PZ425-50220-60 (1) PZ457-00210-60 + F/K PZ425-50220-60
11	CD-Tuner (only)		MOP-Unit 08600-00958-A (green) (1)		- (1) PZ457-00210-60
12	CD-Tuner + CD-Changer		MOP-Unit 08600-00958-A (green) (1)	● (2) ● (2)	F/K PZ425-50220-60 (1) PZ457-00210-60 + F/K PZ425-50220-60
13	CD-Tuner + Navigation (TBT)		MOP-Unit 08600-00958-A (green) (1)	● (3) ● (3)	- (1) PZ457-00210-60
14	CD-Tuner + CD-Changer + Navigation (TBT)		MOP-Unit 08600-00958-A (green) (1)	● (2) ● (2)	F/K PZ425-50220-60 (1) PZ457-00210-60 + F/K PZ425-50220-60

MOP = Factory Installed Option • 08695-00803 = Hanging Seat Mounting Kit
(1) Some vehicle grades require the 18P conversion wire PZ457-00210-60 • (2) : In luggage area using bracket PZ425-50220-60 • (3) : Under front left hand seat

COMPONENT PARTS

08545-52800



No.	Part name	Quantity
①	COMPUTER	1
②	WIRE HARNESS	1
③	GPS ANTENNA	1
⑤	COMPUTER BRACKET	2
⑥	BOLT (M5x8)	4
⑦	CORD CLAMP	2
⑧	FOAM TAPE	2
⑨	WIRE TIE	5
⑩	EARTH PLATE	1
⑪	BUTYL TAPE	4

REQUIRED PARTS**DVD-ROM**

To be ordered separately.

Please refer to the list of available DVD-ROM for TNS300 Navigation System (Access to accessories).

OWNER'S MANUAL

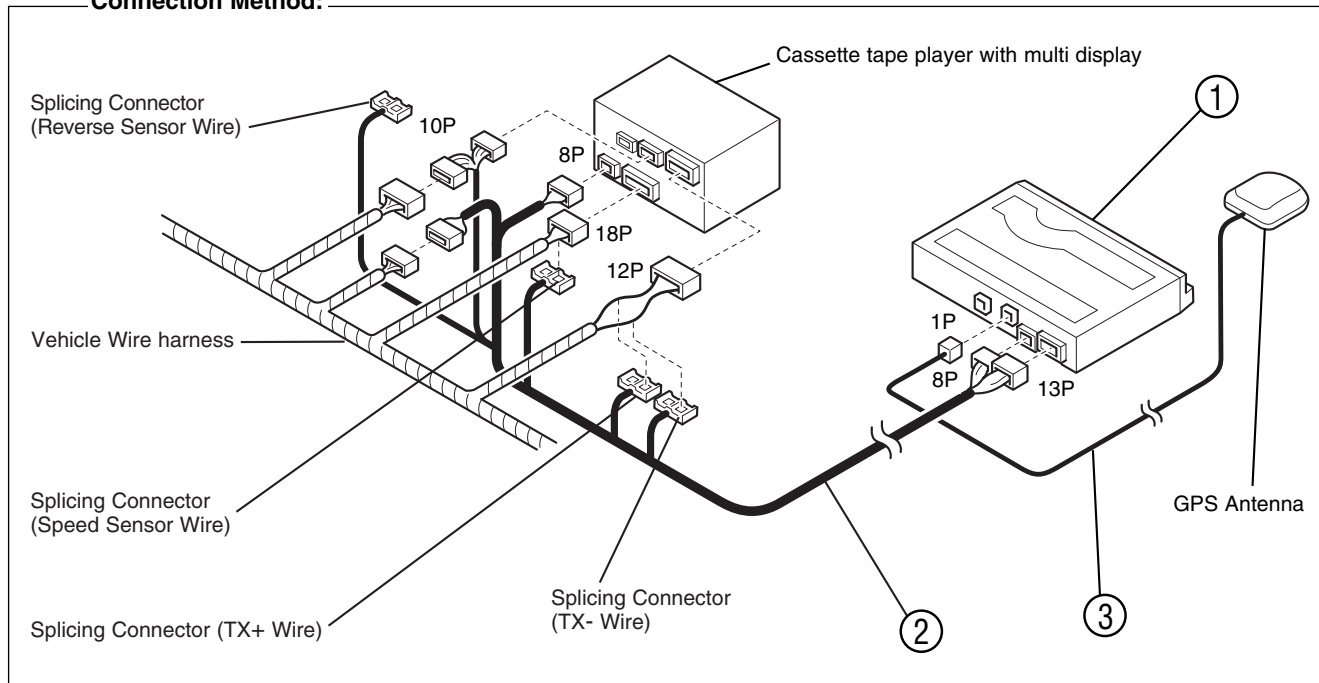
To be ordered separately.

WIRING CONNECTION



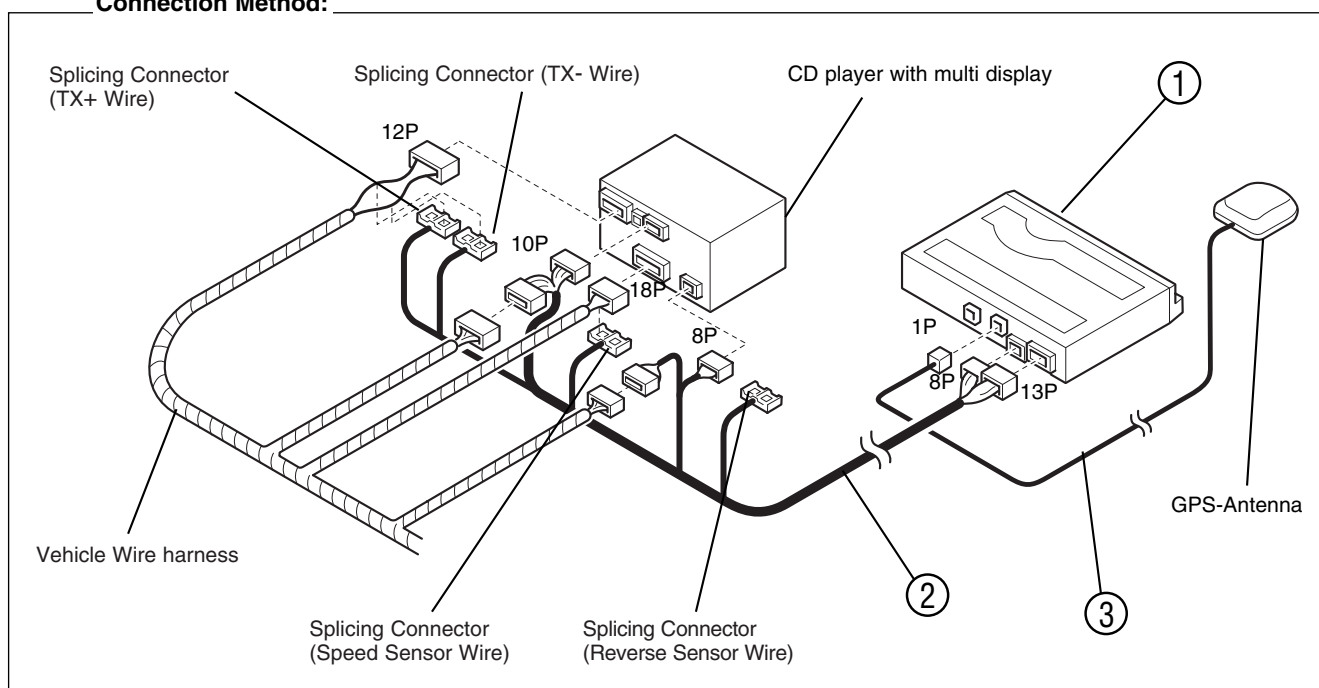
CASSETTE TAPE PLAYER WITH MULTI-DISPLAY

Connection Method:

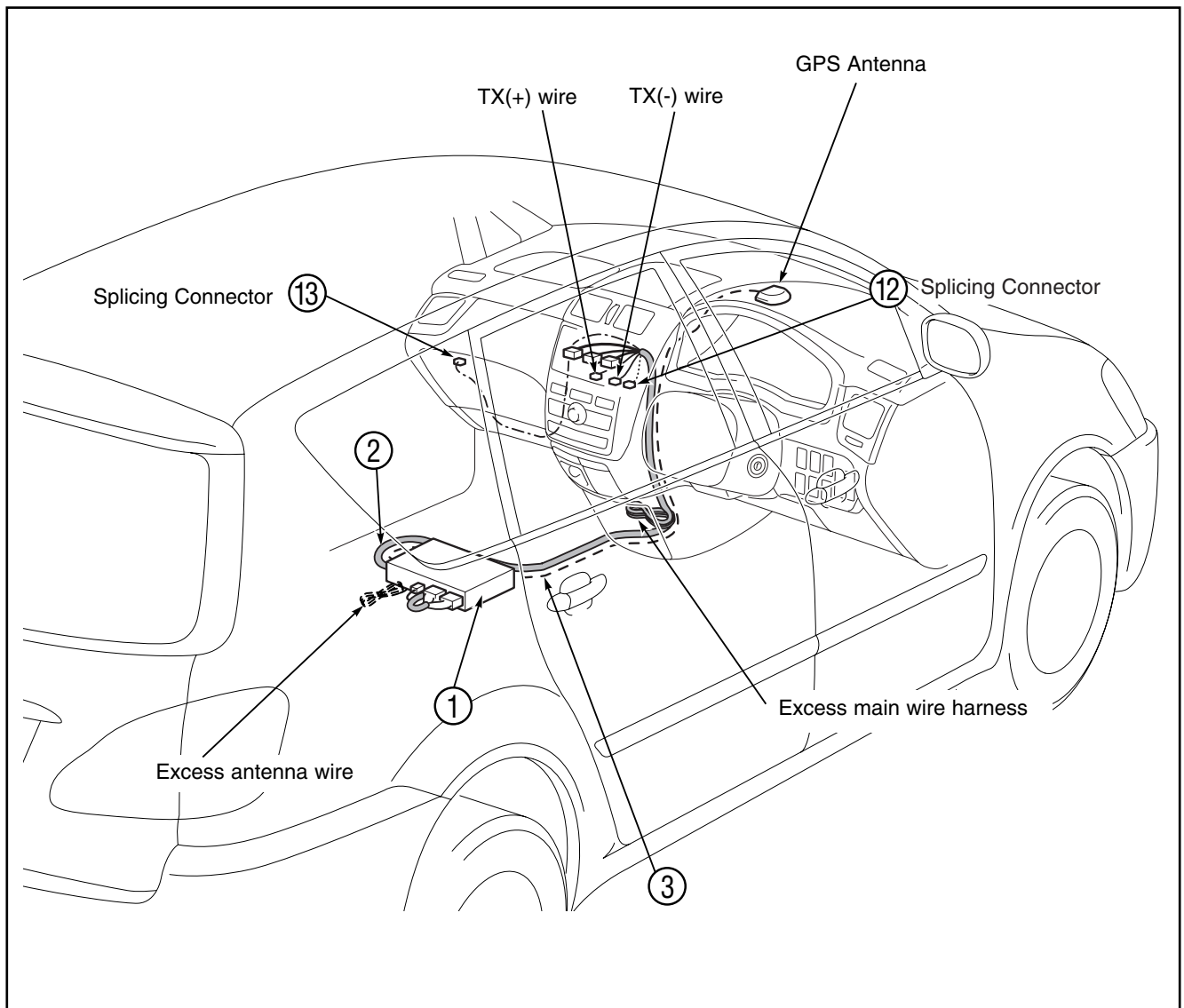


CD PLAYER WITH MULTI-DISPLAY

Connection Method:



INSTALLATION OVERVIEW



- ⑫ WIRE HARNESS - SPEED LINE (VIOLET/WHITE)
- ===== ② WIRE HARNESS
- ③ ANTENNA CORD
- - - - - ⑬ WIRE HARNESS REVERSE SENSOR WIRE (RED/BLUE)

VEHICLE DISASSEMBLY

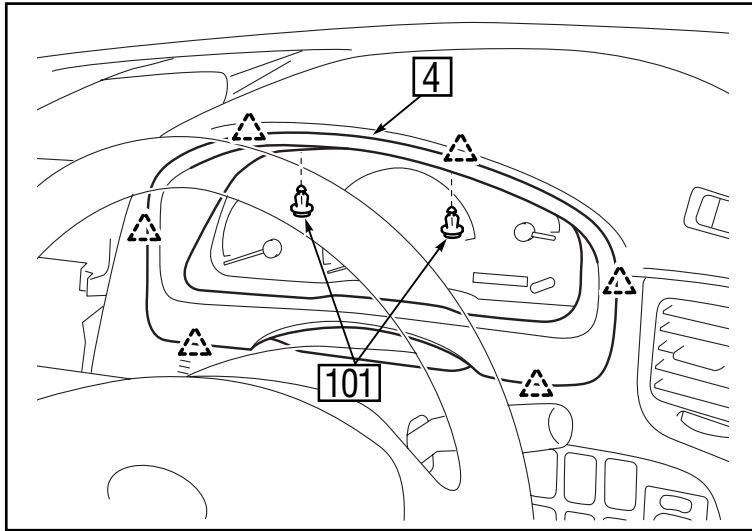


Fig. 1

1. Remove the meter cluster panel [4].

△ : Hook (6x)

[101] : Clip (2x)

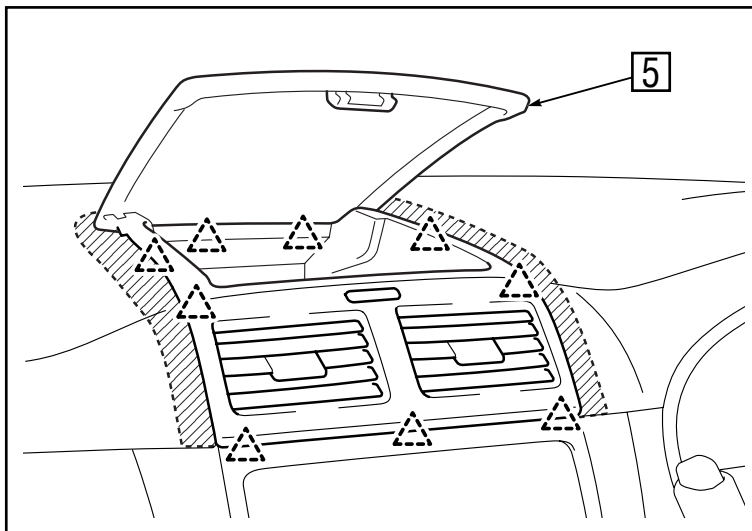


Fig. 2

2. Remove the centre cluster panel [5].

△ : Hook (9x)

CAUTION

Put the protective tapes on the shaded areas. Be sure to remove the parts carefully not to damage the section.

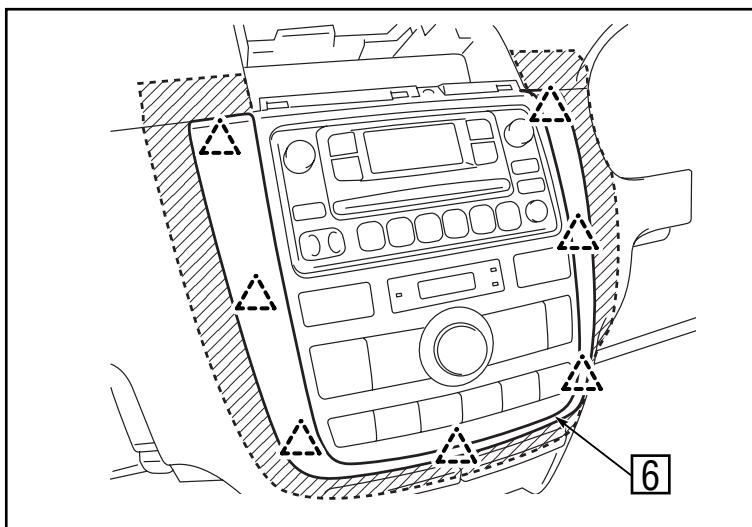


Fig. 3

3. Remove the centre cluster lower panel [6].

△ : Hook (7x)

CAUTION

Put the protective tapes on the shaded areas. Be sure to remove the parts carefully not to damage the section.

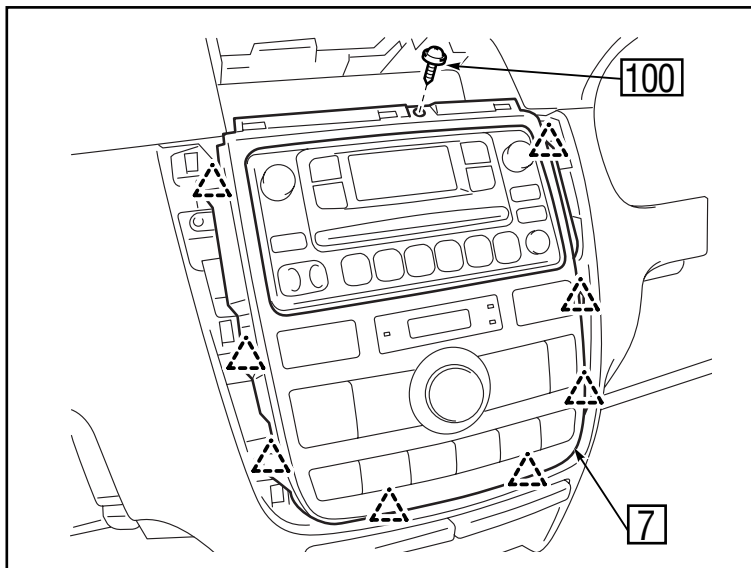


Fig. 4

4. Remove the heater control panel [7].
 △ : Hook (8x)
 [100] : Screw (1x)

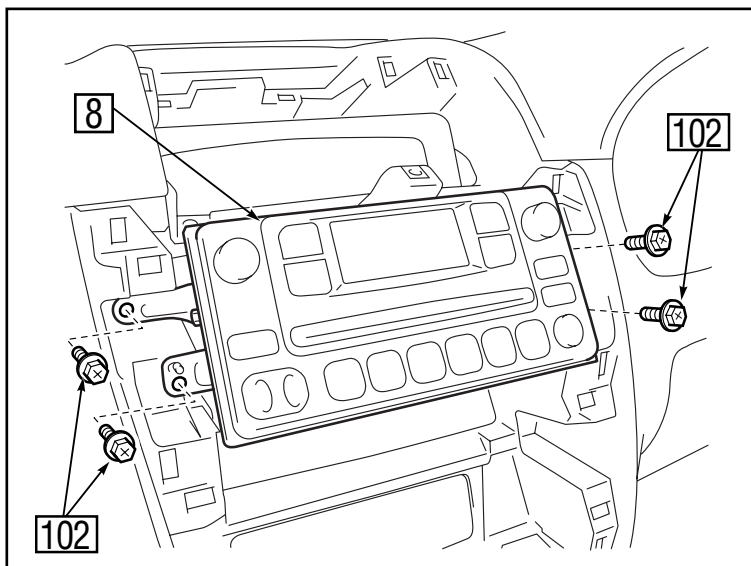


Fig. 5

5. Remove the CD (Cassette) tuner with multi display [8].
 [102] : Bolt (4x)

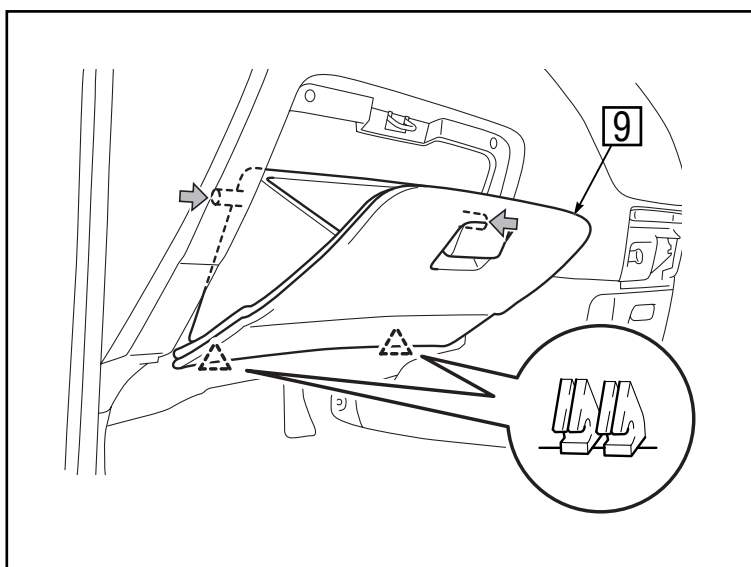


Fig. 6

6. Remove the glove compartment [9].
 △ : Hook (2x)

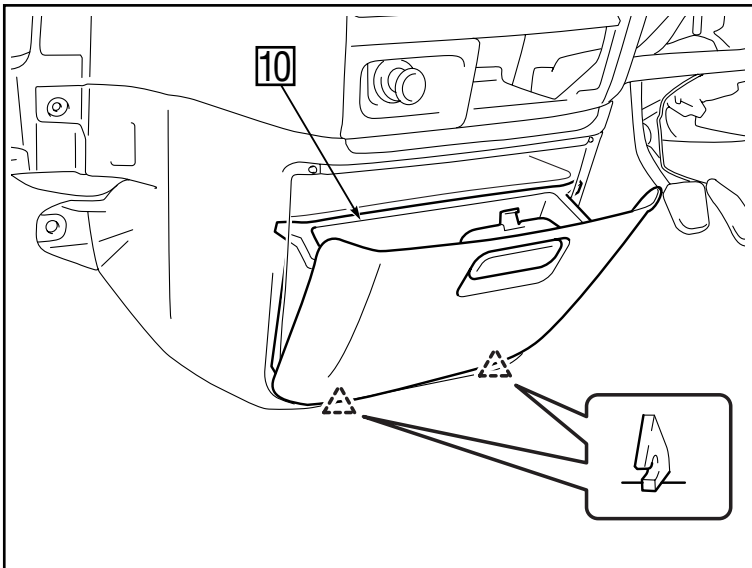


Fig. 7

7. Remove the console box **10**.
 △: Hook (2x)

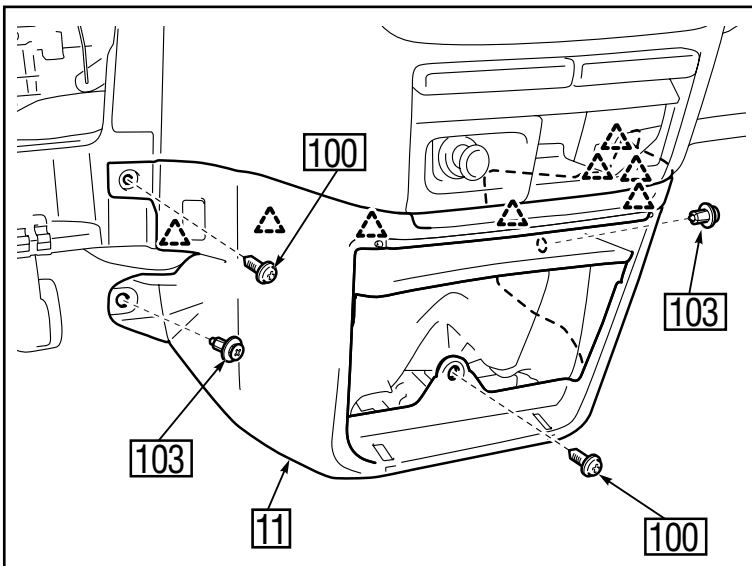


Fig. 8

8. Remove the centre console **11**.
 △: Hook (8x)
100: Screw (2x)
103: Clip (2x)

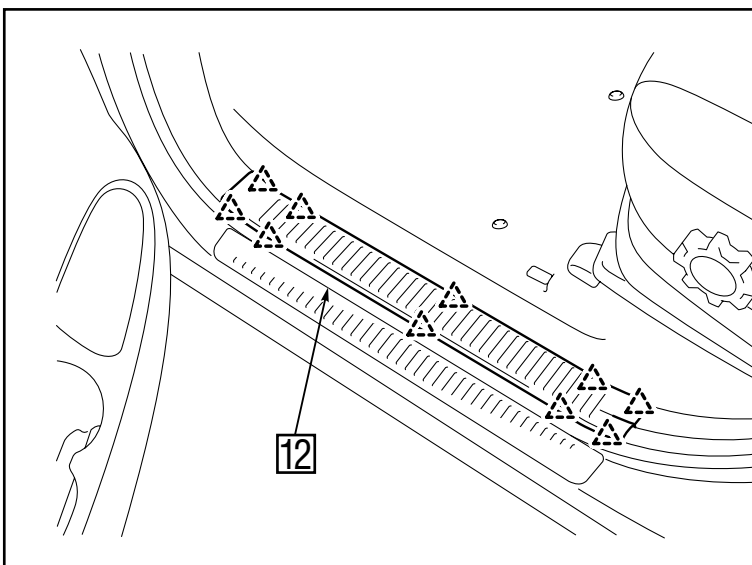


Fig. 9

9. Remove the front door scuff plate **12** (L).
 △: Hook (10x)

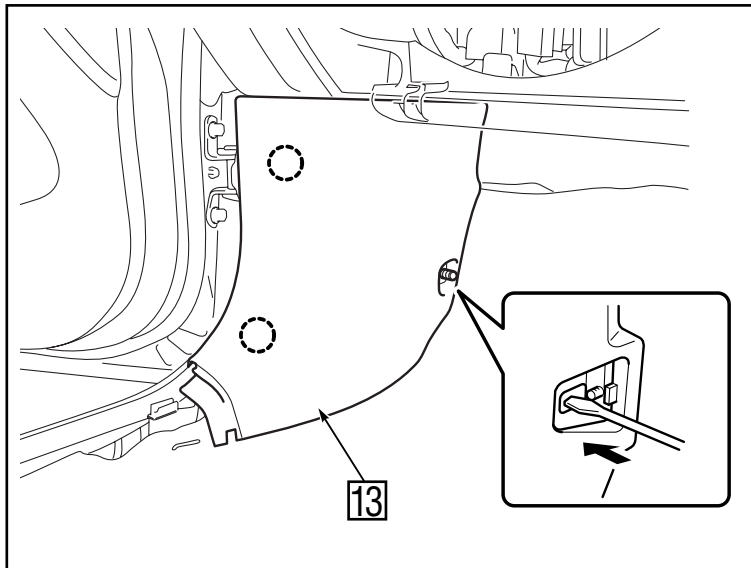


Fig. 10

10. Remove the kick panel **13** (L).
 ○ : Clip (2x)

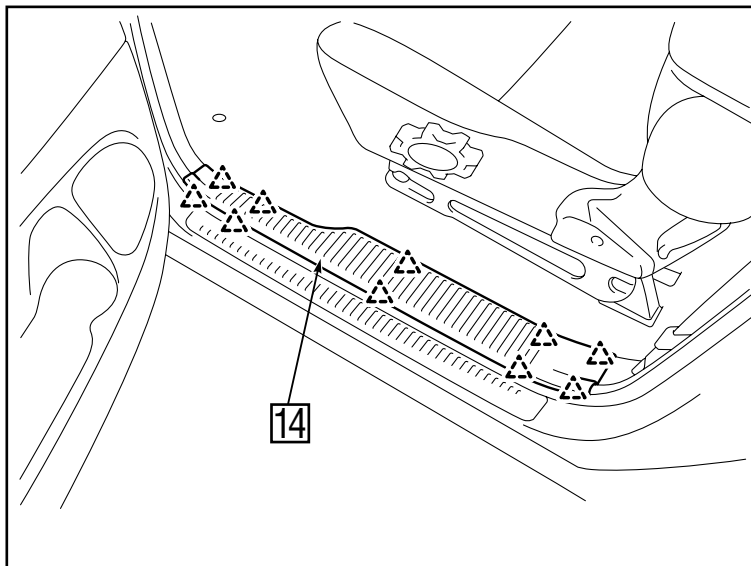


Fig. 11

11. Remove the rear door scuff plate **14** (L).
 △ : Hook (10x)

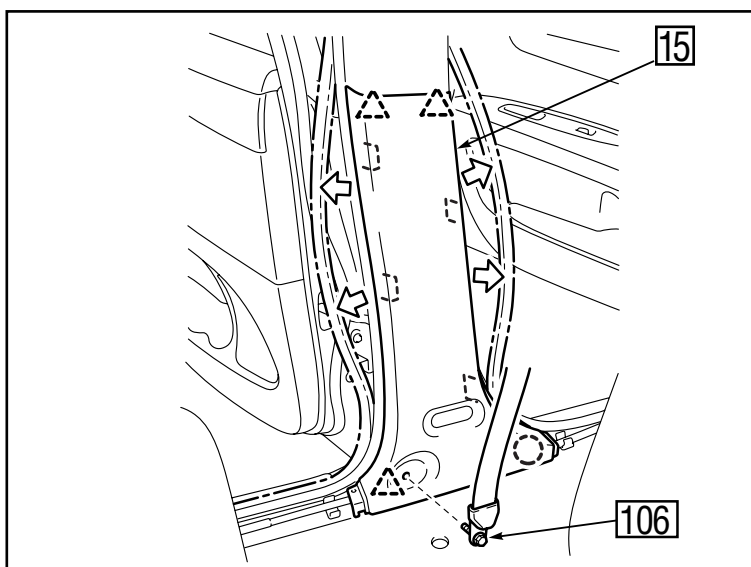


Fig. 12

12. Remove the centre pillar lower garnish **15** (L).
 △ : Hook (3x)
 ○ : Clip (1x)
106 : Front seat belt anchor bolt (L)

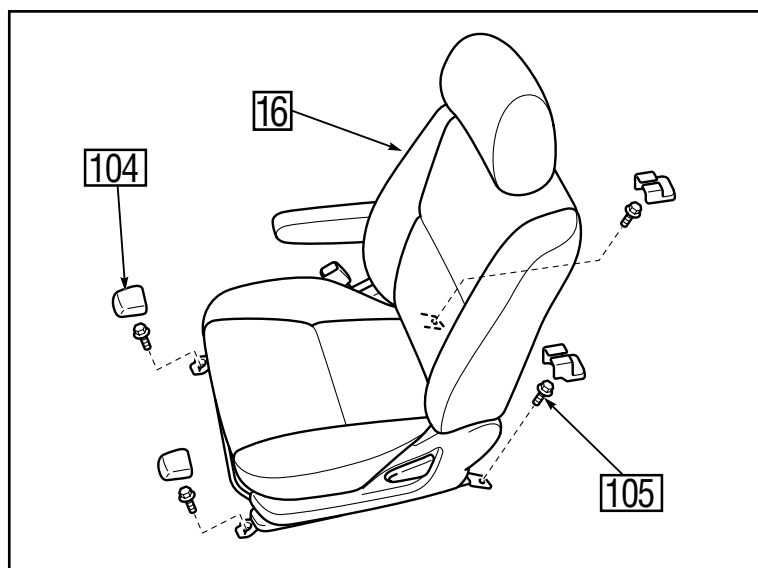


Fig. 13

13. Remove the passenger seat 16.

104: Cover (4x)

105: Bolt (4x)

INSTALLATION OF THE COMPUTER BRACKET

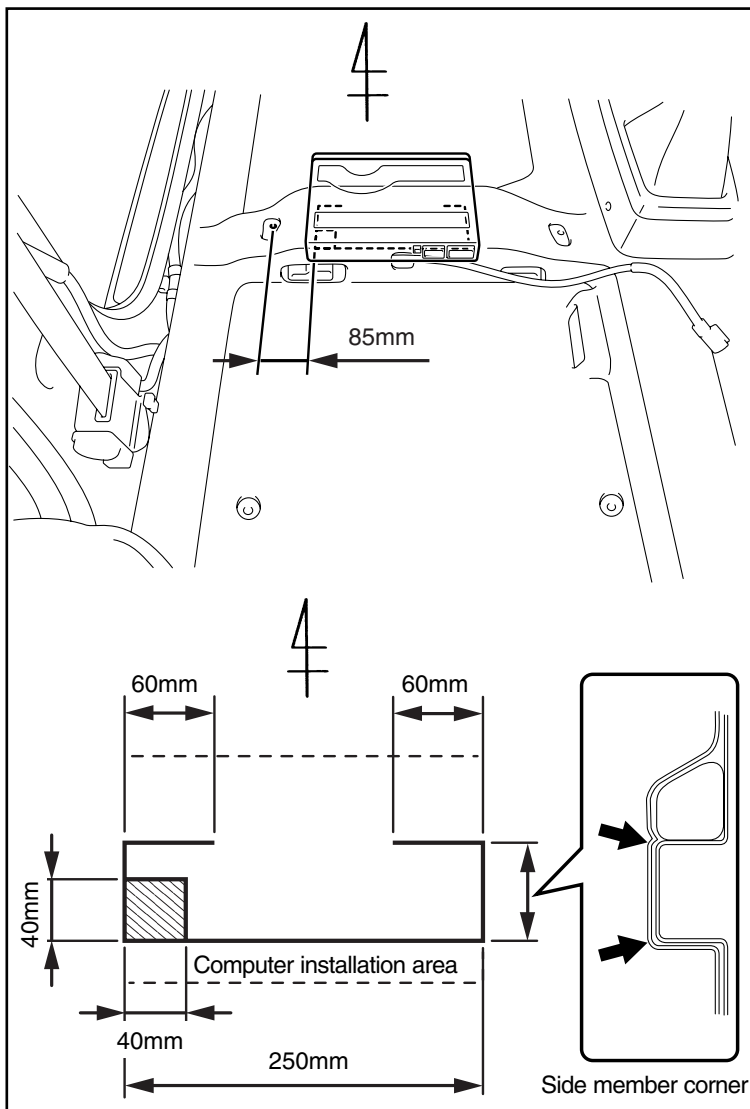


Fig. 14

1.
 - a) Slit the floor carpet in the computer installation area as shown in the illustration.
 - b) Cut the floor carpet as shown in the illustration.
(Dispose shaded portion)

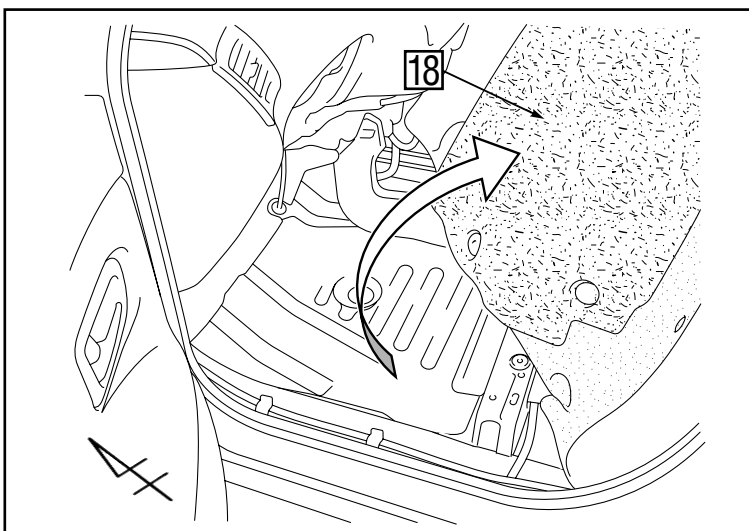


Fig. 15

2. Remove the floor carpet **18**.

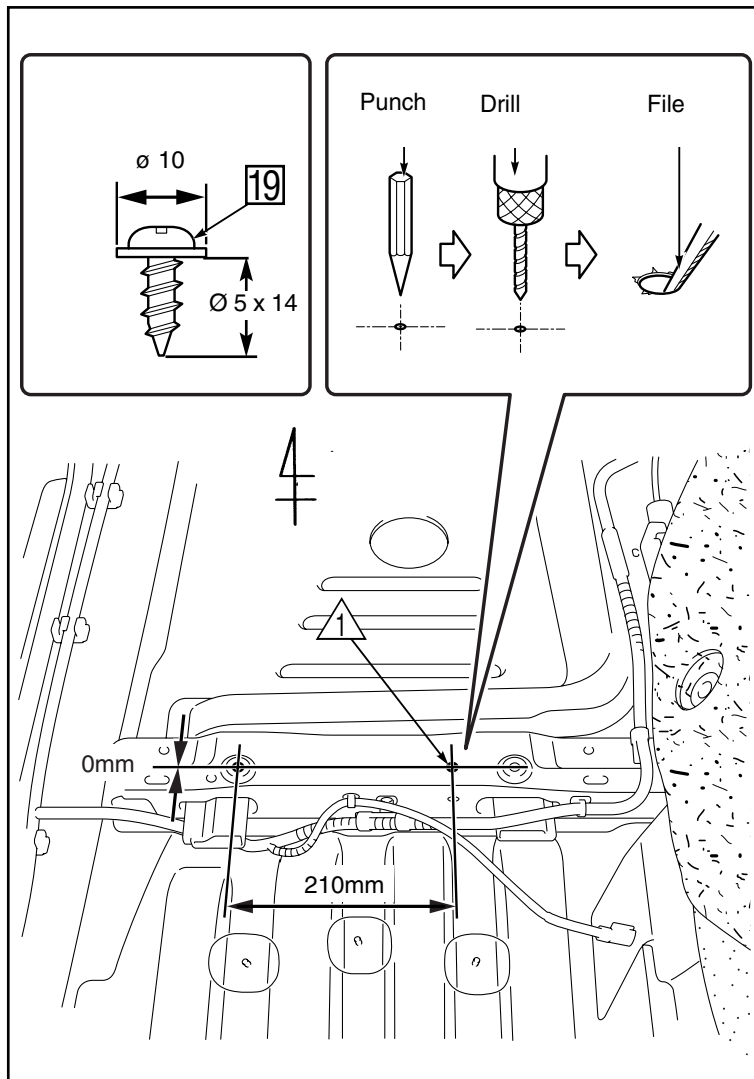


Fig. 16

3. Remove the carpet and drill a pre-hole $\triangle 1$ ($\varnothing 4\text{mm}$) for screw 19, at the position shown.

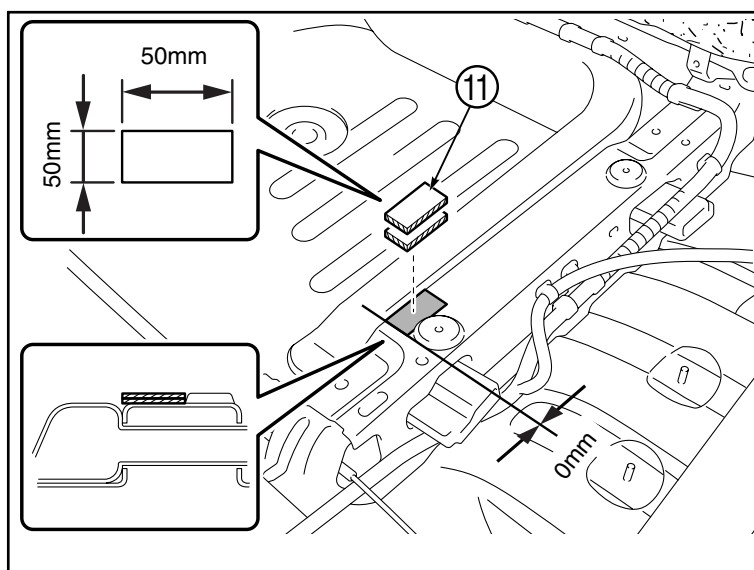


Fig. 17

4. Cut the adhesive tape 11 and attach it to the body at the position as shown in the illustration.

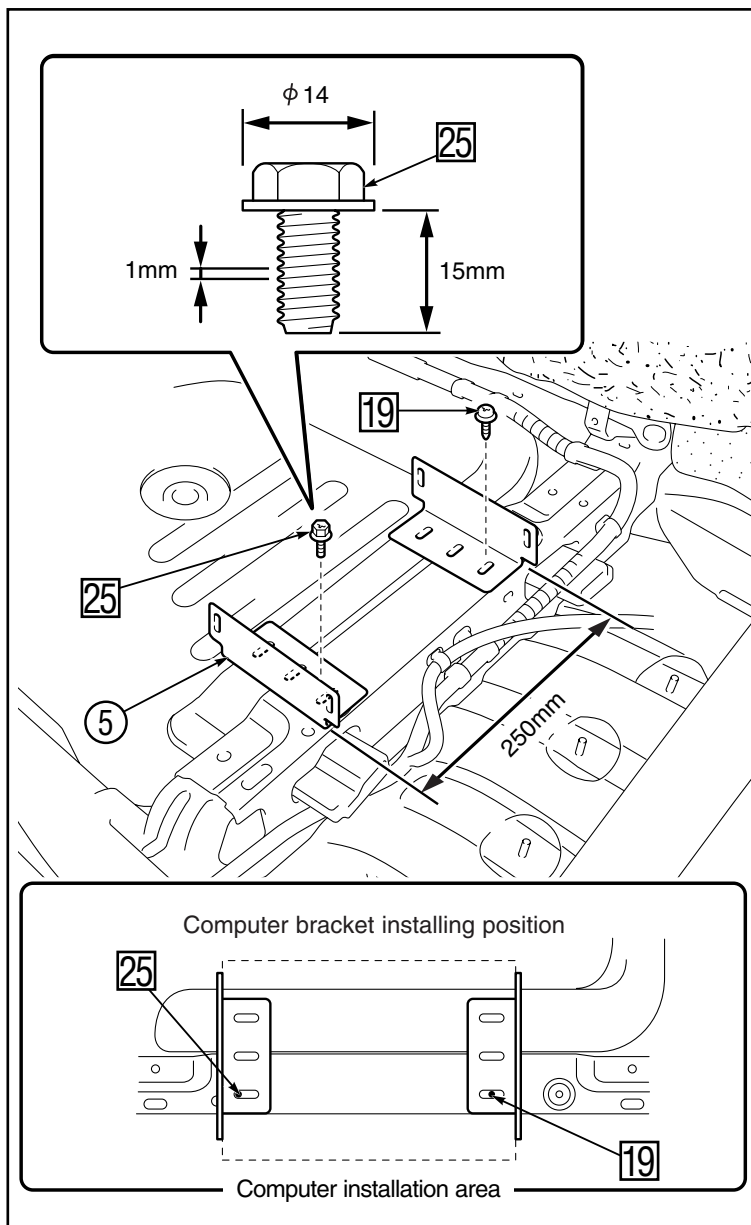


Fig. 18

5. Install the computer brackets (5) (2x) using a screw (19) and a bolt (25).
 (19): Screw (1x)
 (25): Bolt (1x)

CAUTION

Be sure that the computer bracket (5) is in position and does not rotate when fixing the screw. Use screw (19) only that match the pre-hole size. Use bolt (25) only that match the screw-hole size.

INSTALLATION OF THE GPS ANTENNA

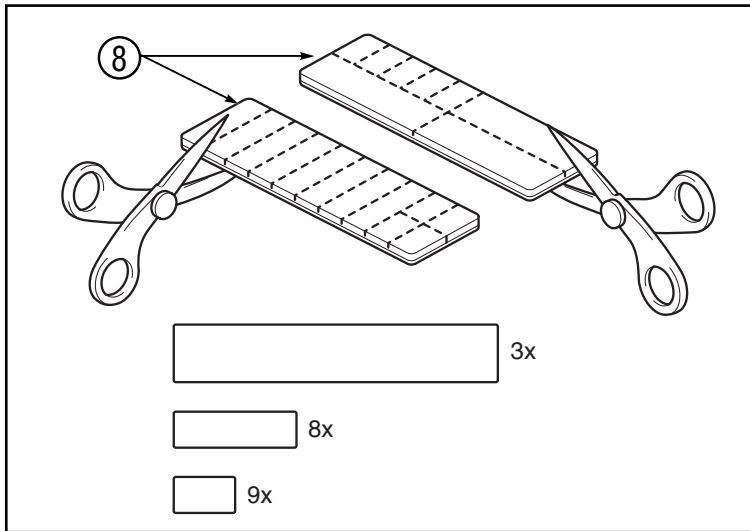


Fig. 19

1. Cut the foam tape ⑧ into 3 large pieces, 8 middle pieces and 9 small pieces as shown in the illustration.

Large piece:

- For extra length of wire harness & antenna cord
- For computer corner cover

Middle piece

- For wire harness & antenna cord routing
- For extra length of reverse & speed sensor wire

Small piece

- For antenna cord routing
- For reverse sensor wire routing

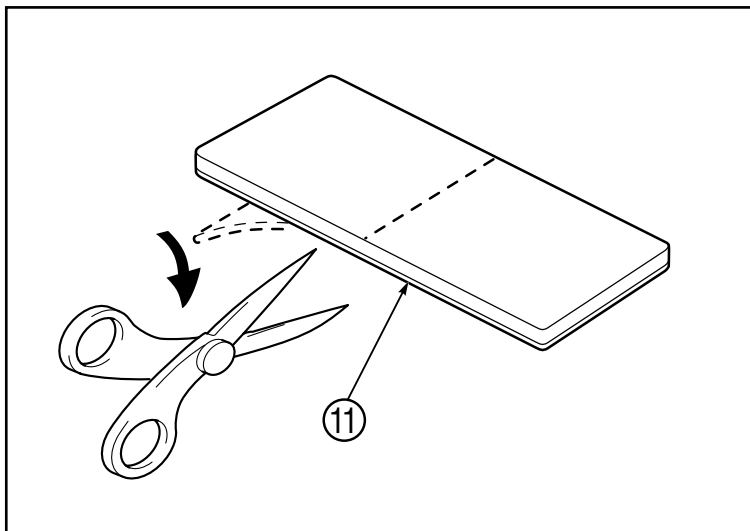


Fig. 20

2. Cut one butyl tape ⑪ into 2 equal sized pieces.

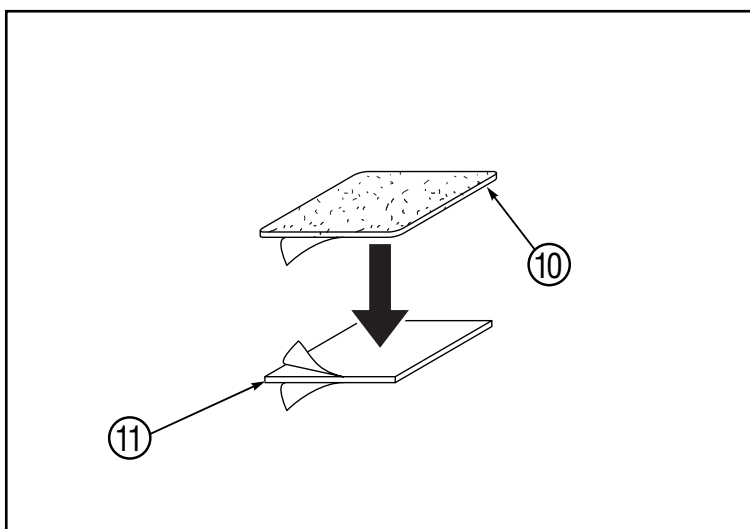


Fig. 21

3.
 - a) Remove the release paper of the earth plate ⑩ and attach the tape ⑪ as shown.
 - b) Apply the tapes ⑪ to the adhesive side of the earth plate ⑩.

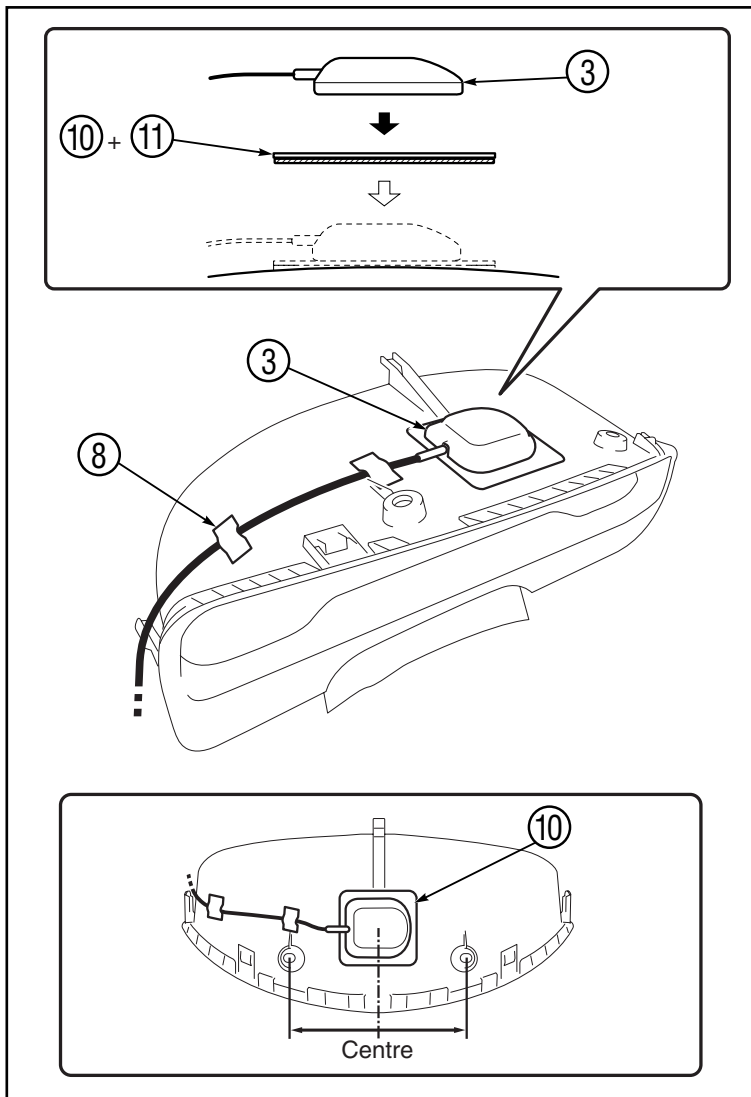


Fig. 22

4.
 - a) Attach the earth plate ⑩ to the meter cluster panel as shown and mount the GPS antenna ③ to the earth plate ⑩.

CAUTION

Clean the installation position surface before attaching the earth plate ⑩.

- b) Attach the antenna cord ③ using foam tape ⑧(2x).

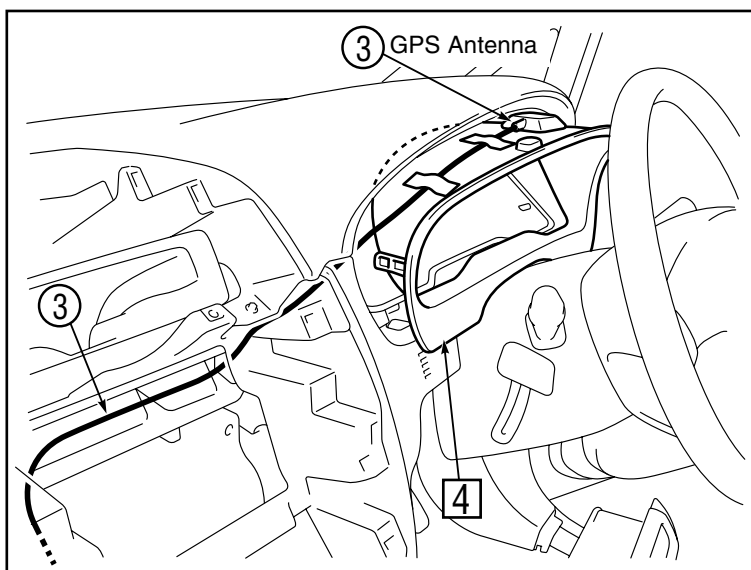


Fig. 23

5.
 - a) Route the antenna cord ③ as shown in the illustration.
 - b) According to the illustration, return the meter cluster ④ to its original position, without rubbing the GPS antenna ③ against the instrument panel.

CAUTION

Be careful not to slip away the GPS antenna ③ from the earth plate ⑩.

WIRE HARNESS INSTALLATION

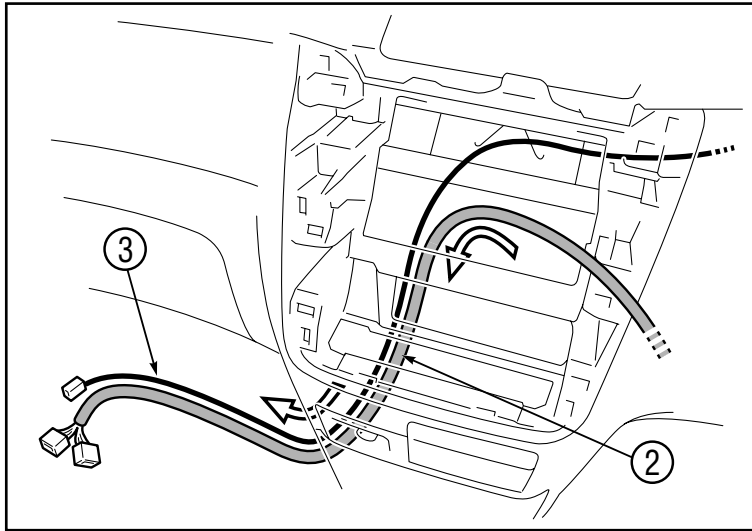


Fig. 24

1. Route the wire harness ② and GPS antenna ③ as shown the left figure.

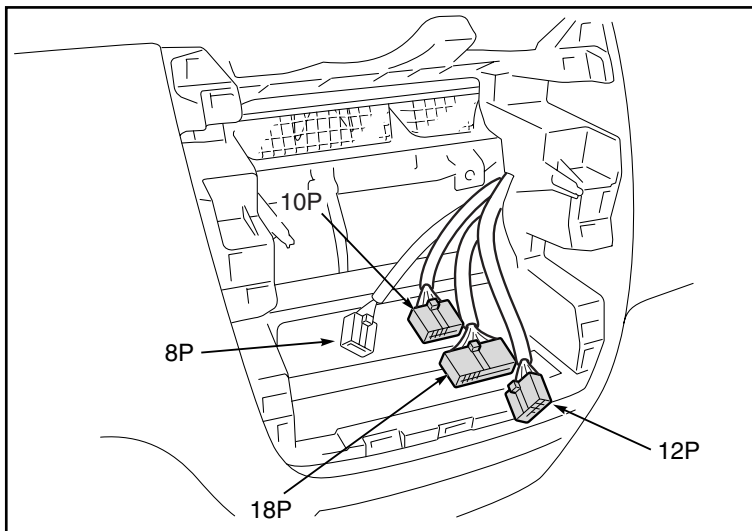


Fig. 25

2. The connectors shown in the illustration are the vehicle side connectors to be spliced.

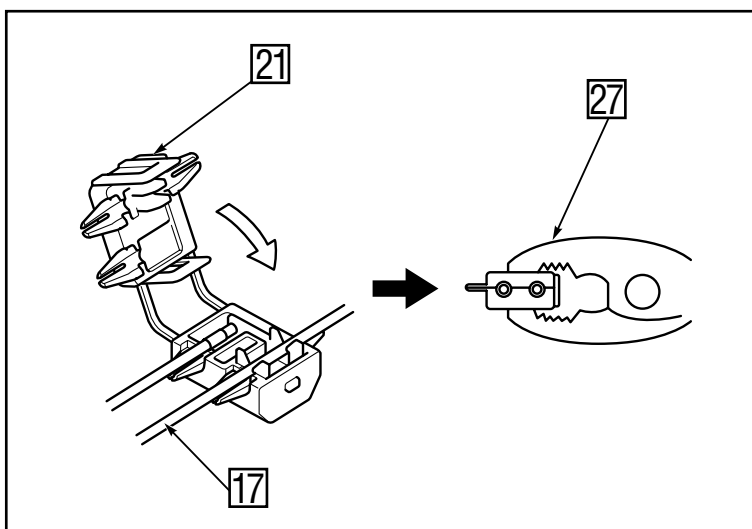


Fig. 26

● WIRE SPLICING CONNECTOR INSTRUCTIONS

3.
 - a) Remove appropriate amount of tape wrapping the vehicle side harness to be connected.
 - b) Insert the vehicle harness ①⑦ to be connected securely into the guide slit.
 - c) After inserting the vehicle side harness into the guide slit, fix the splicing connector ②①, and lock it securely using a plier ②⑦ until the connector clicks.

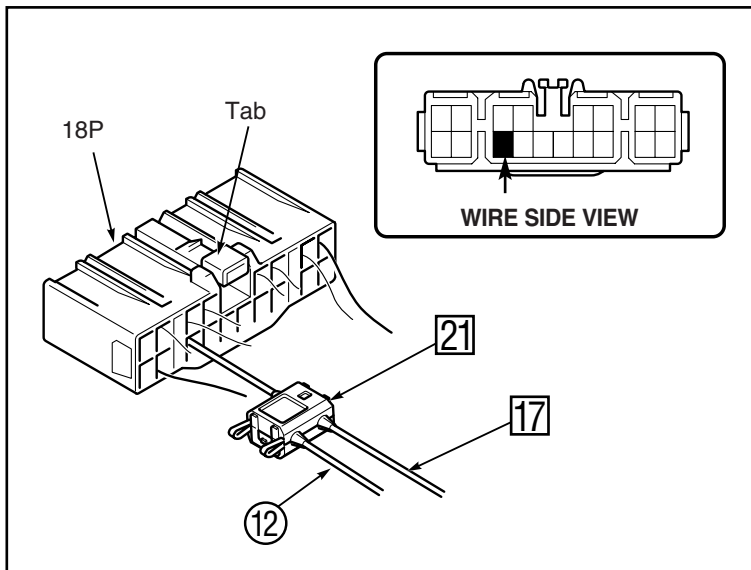


Fig. 27

● SPEED SENSOR CONNECTION

4.
 - a) Turn the connector so that the wires face you and the tab is on top.
 - b) Connect the speed sensor wire (violet/white) of the wire harness ② to the wire of the third position from the left side of the bottom row.

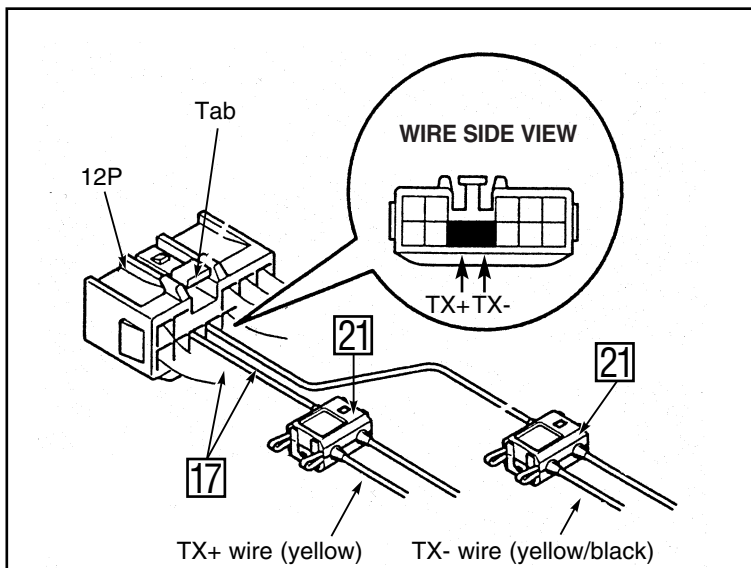


Fig. 28

● TX WIRE CONNECTION

5.
 - a) Turn the connector so that the wires face you and the tab is on top.
 - b) Connect the TX(+) (yellow) wire of the wire harness ② to the wire of the third position from the left side of the bottom row.
 - c) Connect the TX(-) wire (yellow/black) of the wire harness ② to the wire of the fourth position from the left side of the bottom row.

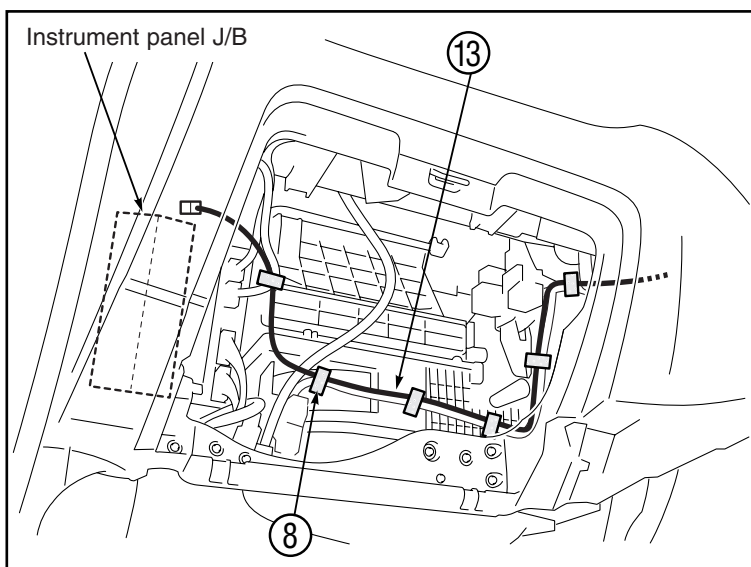


Fig. 29

● REVERSE SENSOR CONNECTION

6. Route the reverse sensor wire (red/blue) ⑬ as shown in the illustration, and attach the reverse sensor wire ⑬ using foam tape ⑧ (6x).

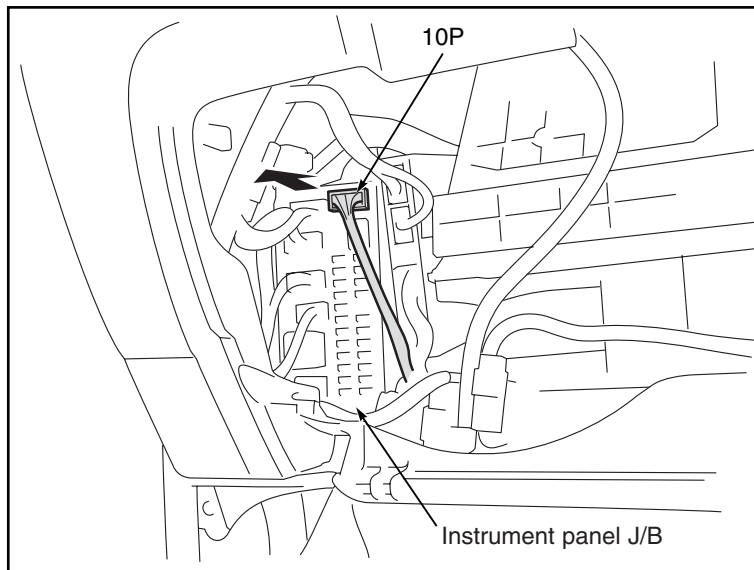


Fig. 30

7. Disconnect the 10P connector.

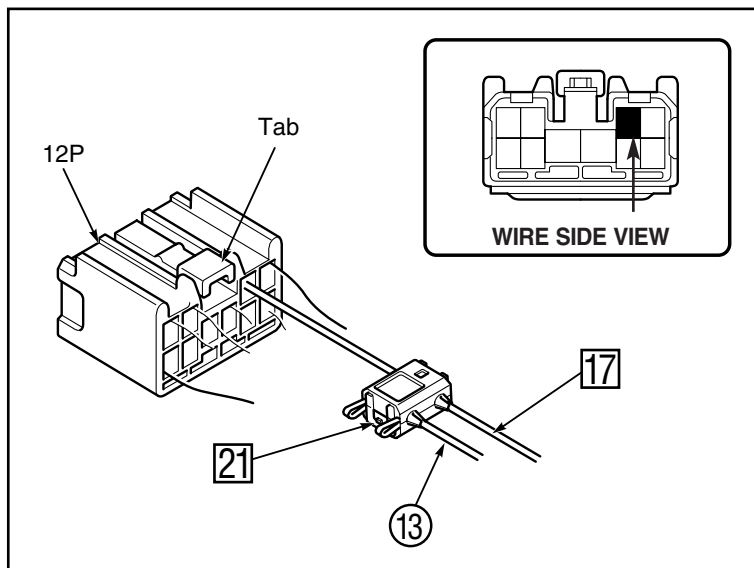


Fig. 31

8.
 - a) Turn the connector so that the wires face you and the tab is on top.
 - b) Connect the reverse sensor wire (red/blue) of the wire harness ② to the wire of the second position from the right side of the top row.
 - c) Reconnect the 10P connector to the instrument panel J/B.

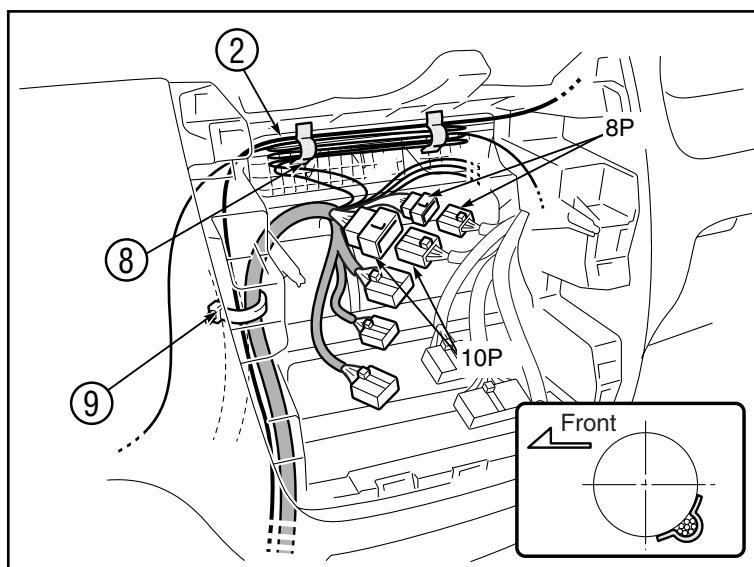


Fig. 32

WITH STEERING SWITCH

9. Connect the wire harness ② 8P connector (White) to the vehicle side 8P connector (White).

ALL MODELS

10.
 - a) Connect the wire harness ② 10P connector to the vehicle side 10P connector.
 - b) Attach the wire harness ② to the vehicle wire harness using the wire tie ⑨.
 - c) Attach the extra length of the wire harness ② (speed sensor wire and reverse sensor wire) as shown in the illustration using foam tape ⑧ (2x).

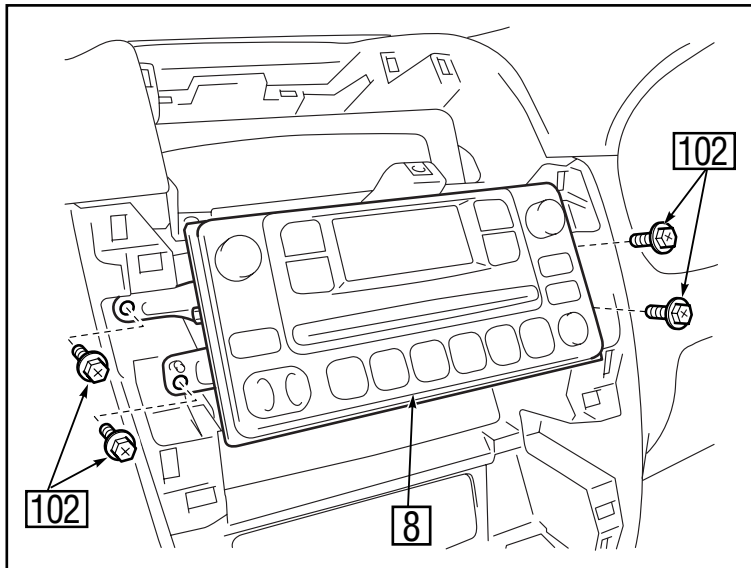


Fig. 33

11. Refit the CD (Cassette) tuner with multi display ⑧.

102: Bolt (4x)

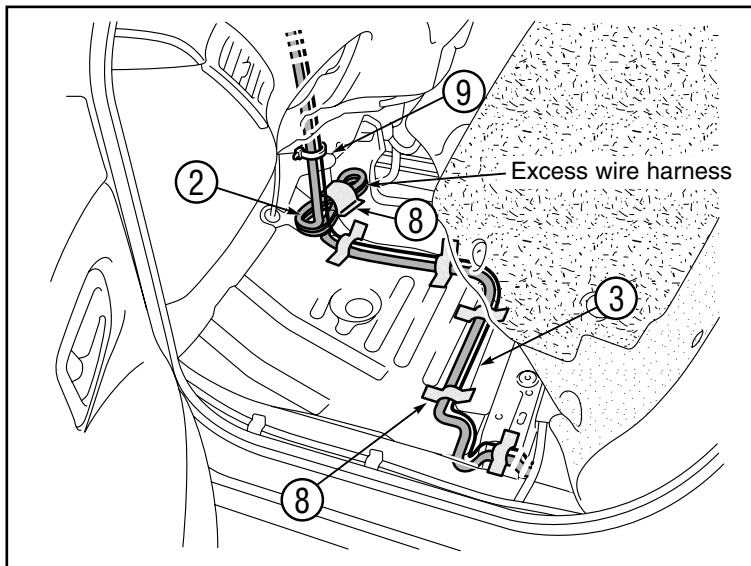


Fig. 34

● WIRE HARNESS ROUTING

- 12.
- Attach the wire harness ② and antenna cord ③ to the reinforcement using the wire tie ⑨.
 - Route the wire harness ② and antenna cord ③ as shown, and attach them using foam tape ⑧ (5x).
 - Route and attach the excess wire harness as shown using foam tape ⑧ (1x).

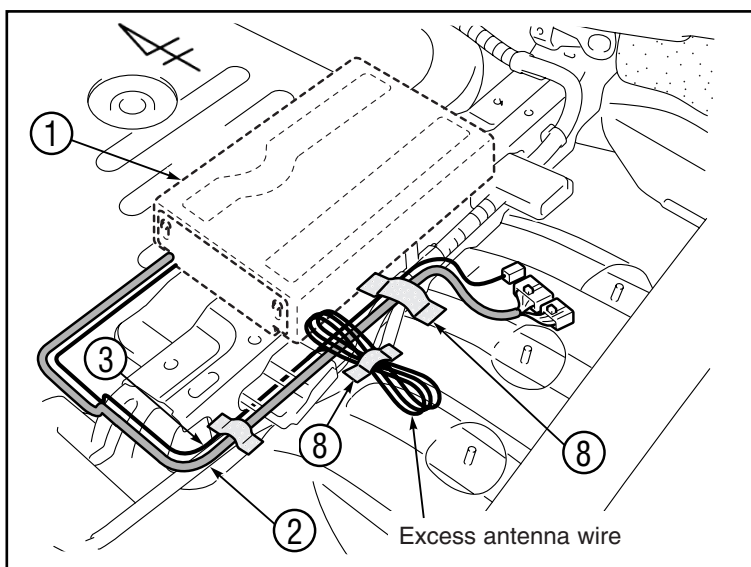


Fig. 35

- 13.
- Route the wire harness ② and antenna cord ③ to the computer ① installation area and attach them using foam tape.
 - Attach the extra length of the antenna cord ③ as shown in the illustration using foam tape ⑧ (1x).

INSTALLATION OF THE COMPUTER

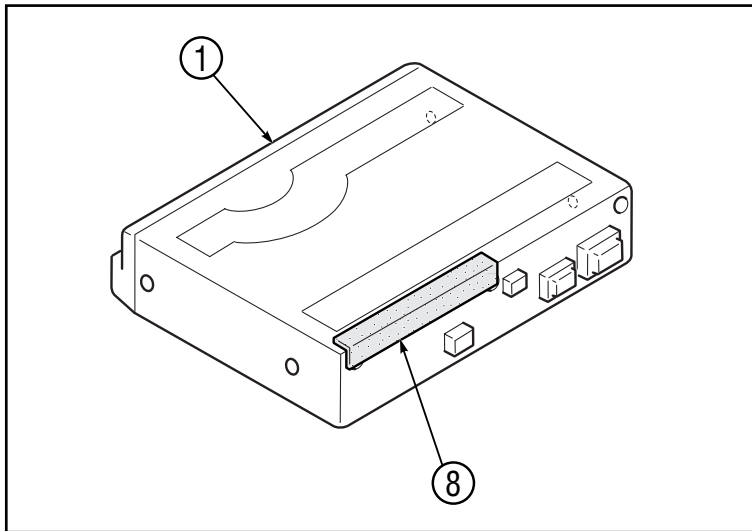


Fig. 36

1. Attach the rest of the foam tapes (8) to the computer (1) as shown in the illustration.

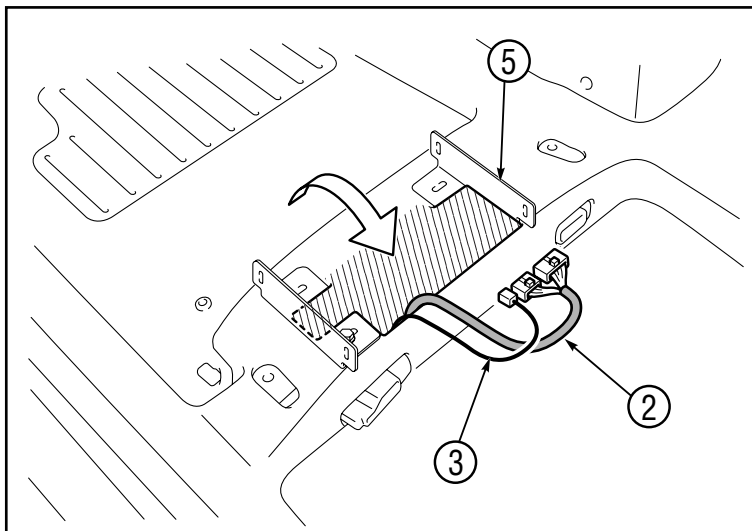


Fig. 37

2.
 - a) Refit the floor carpet.
 - b) Route the wire harness (2) and antenna cord (3) through the slit.

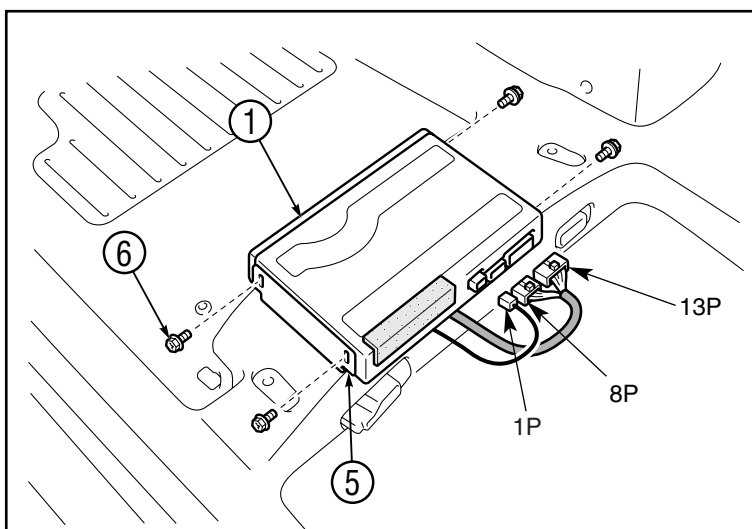


Fig. 38

3.
 - a) Connect 1P connector (GPS antenna (3)), 8P connector and 13P connector (wire harness (2)) to the computer.
 - b) Fit the computer (1) to the computer bracket (5) using the bolts (6).

CAUTION

Put the computer (1), after adjusting it in a horizontal position.

INSTALLATION OF NAVIGATION DISC

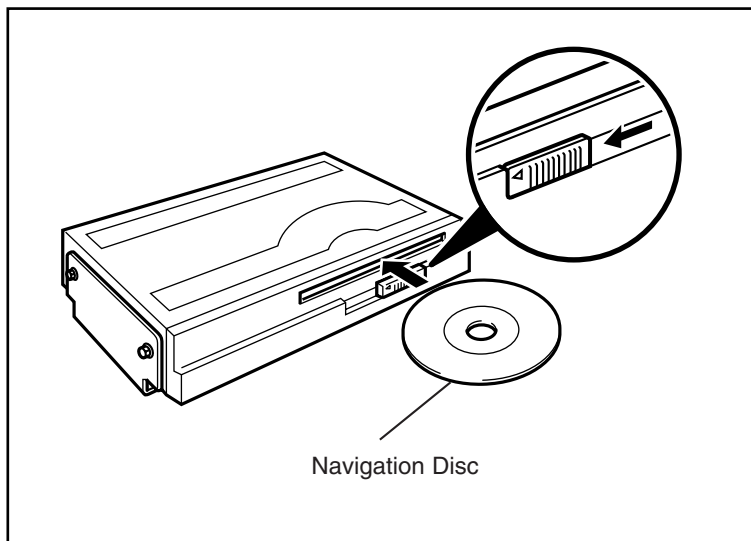


Fig. 39

1. Connect the battery and turn the ignition switch to the ACC position.
2. Slide the eject switch on the computer to the left to open the disc insertion slot.
3. With the label side of the disc facing up, insert the Navigation Disc into the disc insertion slot.
*** The disc will be pulled into the computer automatically.**
4. Slide the eject switch on the computer to the right to close the disc insertion slot.

POST-INSTALLATION INSPECTION



Installation Check

1. Inspect the wiring and installation for abnormalities.
2. Check particularly closely for any locations where the vehicle harness, wire harness or divergency harness is being pushed, pulled or pinched with excessive force. Also check again that clamps and bands have not shifted out of position and that all parts have been tightened.

Operation Check

1. Attach the (-) terminal of the battery and turn the key to the ACC or ON position or start the engine.
2. Press the NAVI switch and confirm that the navigation screen is displayed.
3. Adjust the volume by following the section on "Adjusting the Volume of the Guide Voice" in the TNS300 Owner's Manual, and confirm that the sound from the speakers changes.
4. Perform the "auto-compensation" procedure by following the section on "When Tires are Replaced" in the TNS300 Owner's Manual.

When an abnormality is suspected, perform troubleshooting based on the "Toyota Genuine Navigation System Service Manual".

REASSEMBLING

Return all vehicle parts that have been removed to their original locations. Especially make sure to attach trim and other interior materials properly so that they do not have a detrimental effect on the function of the vehicle. During restoration, make sure that wires are not pinched and all bolts and screws are tightened.

**ENSURE THAT ALL REMOVED CONNECTORS
ARE PUT BACK CORRECTLY.**

REFIT THE TRIM AND REMOVED PARTS.

NOTES



TOYOTA
GENUINE PARTS