



TNS 300

TOYOTA NAVIGATION SYSTEM



Previa (RHD) - MMC

INSTALLATION INSTRUCTIONS

FOR **R3*R

(Production date 05/03)

PART NUMBER

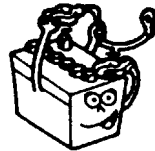
NAVIGATION KIT	08545-52800
MOUNTING BRACKET	PZ425-R0261-60

PRECAUTIONS

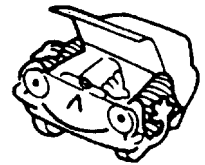


PLEASE READ THOROUGHLY THESE PRECAUTIONS BEFORE THE INSTALLATION

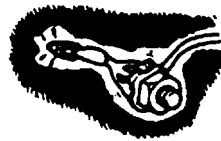
- Be sure to disconnect the negative (-) lead from the battery terminals.



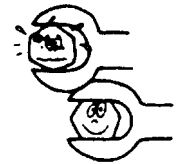
- Protect your car with fender covers, seat and so on.



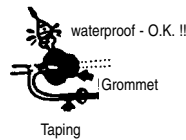
- Do not pinch the rear wiring or harness in the tightened part.



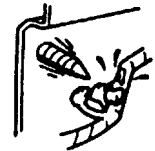
- Use the correct tool when tightening bolts or nuts.



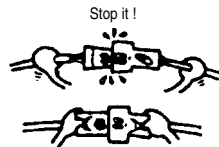
- When passing the wires through the dashboard or other panels, use a grommet to ensure waterproofing.
- Protect the wiring with tape when it is passed through a hole.



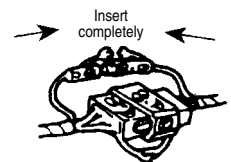
- Before drilling a hole, check that the rear of the mounting wall is clear.



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



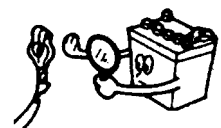
- Be sure to firmly tighten connectors and terminals.



- 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.

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AUDIO & NAVIGATION APPLICATION CHART
 TMME-CS Group - August 11th, 2003

Previa MMC **R3* (RHD)

COMBINATION		+ ADD-ON UNIT(S)			REQUIRED ADDITIONAL PARTS
		In-Dash 0.6 CD-Changer (green) (08601-00913)	0.6 CD-Deck (green) (08601-00908)	Navigation System TNS300 (08545-52800)	
		Seat mount CD-Changer TM0461 (08601-00912)			
		Hide away CD-changer TM0461 (08601-00911)			
		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) 08600-00963 (green)	● (1)	● (2)	Cover plate (55522-42010) + PZ425-R0260-60 (**) F/K (08695-00803) + Cover plate (55522-42010)
4	Radio/CD (only)	08600-00965 (green)			Cover plate (55522-42010)
5	Radio/CD + CD-Deck	08600-00965 (green)	●		-
6	Radio/CD + CD-Changer	08600-00965 (green) 08600-00965 (green) 08600-00965 (green)	● (1)	● (2)	Cover plate (55522-42010) + PZ425-R0260-60 (**) F/K (08695-00803) + Cover plate (55522-42010)

MOP: Factory Installed Option

(*) Optional: Outside temperature sensor PZ432-R0310-00

(**) Mounting bracket: PZ425-R0260-60: Only applicable in case of installation under the seat on the floor

(1) On the floor under the driver or passenger seat, or in the luggage area

(2) In hanging position under the passenger seat - F/K 08695-00803: Hanging seat mounting kit

(3) In hanging position on the driver side seat leg base - PZ425-R0261-60: Seat leg base mounting bracket

AUDIO & NAVIGATION APPLICATION CHART

TMME-CS Group - August 11th, 2003

Previa MMC **R3*

(RHD)

COMBINATION		+ ADD-ON UNIT(S)			REQUIRED ADDITIONAL PARTS
		In-Dash 0.6 CD-Changer (green) (08601-00913) Seat mount CD-Changer TM0461 (08601-00912) Hide away CD-changer TM0461 (08601-00911)	0.6 CD-Deck (green) (08601-00908) Navigation System TNS300 (08545-52800)		
HEAD UNIT					
7	Radio/Cassette (only)	MOP-Unit or 08600-00948 (green) (*)			- -
8	Radio/Cassette + CD-Changer	MOP-Unit or MOP-Unit or 08600-00948 (green) (*) or 08600-00948 (green) (*)	● (1) ● (1)	● (2) ● (2)	PZ425-R0260-60 (**) F/K (08695-00803) PZ425-R0260-60 (**) F/K (08695-00803)
9	Radio/Cassette + Navigation (TBT)	MOP-Unit or 08600-00948 (green) (*)	● (1)	● (2)	PZ425-R0260-61 PZ425-R0260-61
10	Radio/Cassette + CD-Changer + Navigation (TBT)	MOP-Unit or MOP-Unit or 08600-00948 (green) (*) or 08600-00948 (green) (*)	● (1) ● (1)	● (2) ● (2)	PZ425-R0260-60 (**) F/K (08695-00803) + PZ425-R0260-61 PZ425-R0260-60 (**) F/K (08695-00803) + PZ425-R0260-61
11	Radio/CD (only)	MOP-Unit or 08600-00958 (green) (*)	● (1)		- -
12	Radio/CD + CD-Changer	MOP-Unit or MOP-Unit or 08600-00958 (green) (*) or 08600-00958 (green) (*)	● (1) ● (1)	● (2) ● (2)	PZ425-R0260-60 (**) F/K (08695-00803) PZ425-R0260-60 (**) F/K (08695-00803)
13	Radio/CD + Navigation (TBT)	MOP-Unit or 08600-00958 (green) (*)	● (1)	● (2)	PZ425-R0260-61 PZ425-R0260-61
14	Radio/CD + CD-Changer + Navigation (TBT)	MOP-Unit or MOP-Unit or 08600-00958 (green) (*) or 08600-00958 (green) (*)	● (1) ● (1)	● (2) ● (2)	PZ425-R0260-60 (**) F/K (08695-00803) + PZ425-R0260-61 PZ425-R0260-60 (**) F/K (08695-00803) + PZ425-R0260-61

MOP: Factory Installed Option

(*) Optional: Outside temperature sensor PZ432-R0310-00

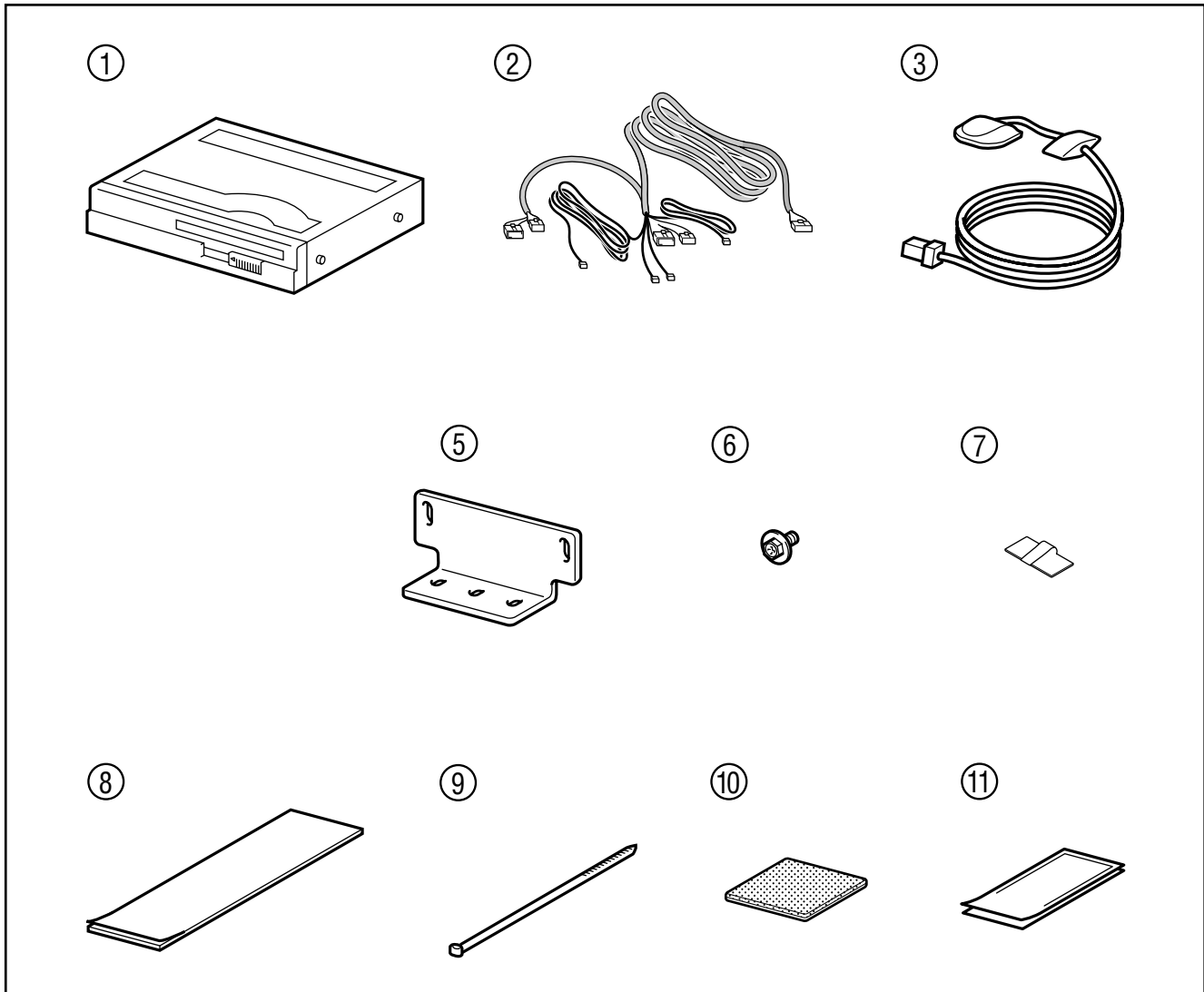
(**) Mounting bracket: PZ425-R0260-60: Only applicable in case of installation under the seat on the floor

(1) On the floor under the driver or passenger seat, or in the luggage area

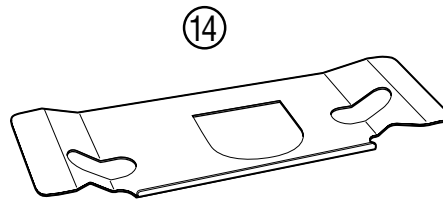
(2) In hanging position under the passenger seat - F/K 08695-00803: Hanging seat mounting kit

(3) In hanging position on the driver side seat leg base - PZ425-R0261-60: Seat leg base mounting bracket

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**MOUNTING BRACKET****PZ425-R0261-60****DVD-ROM**

To be ordered separately.

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

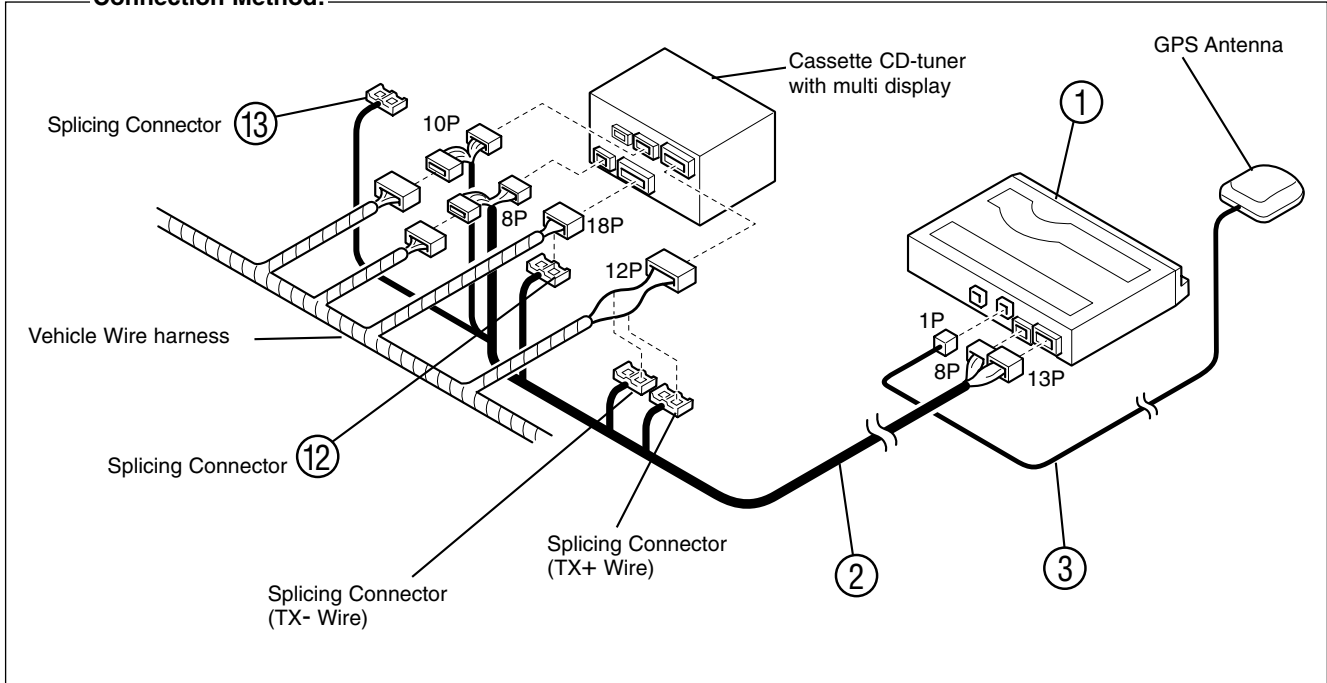
OWNER'S MANUAL

To be ordered separately.

WIRING CONNECTION Toyota

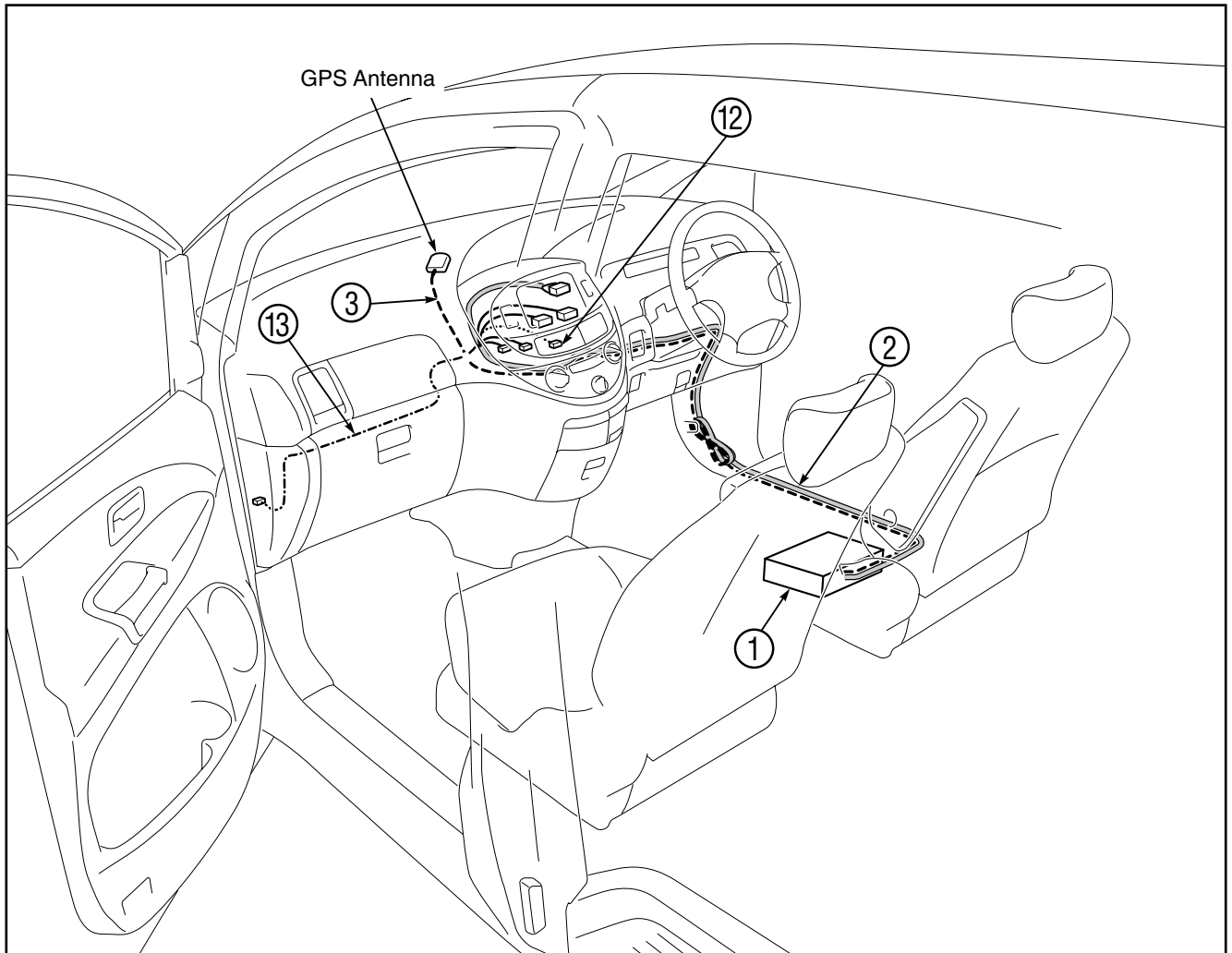
FOR WIDE 2DIN AUDIO

Connection Method:



No.	Part name
①	COMPUTER
②	WIRE HARNESS
③	GPS ANTENNA
⑫	SPEED SENSOR WIRE
⑬	REVERSE SENSOR WIRE

INSTALLATION OVERVIEW



NOTE: To fit the computer the additional "Mounting bracket" (PZ425-R0261-60) is required.

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

VEHICLE DISASSEMBLY

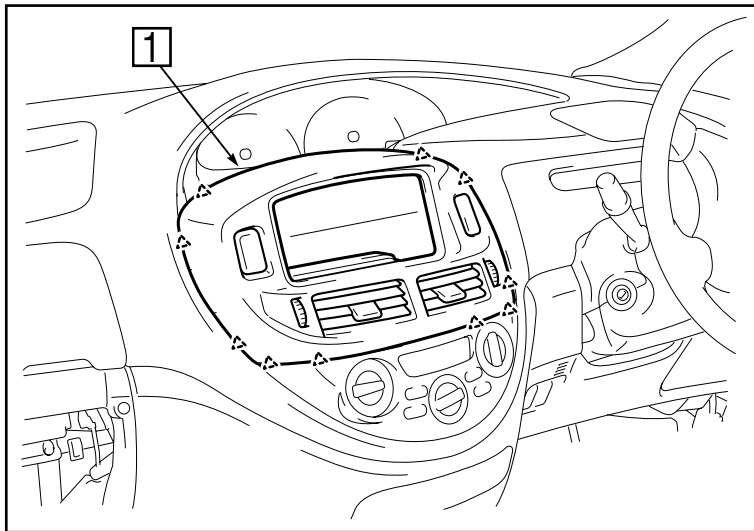


Fig. 1

1. Remove the centre cluster panel **1**.
△: Hook (10x)

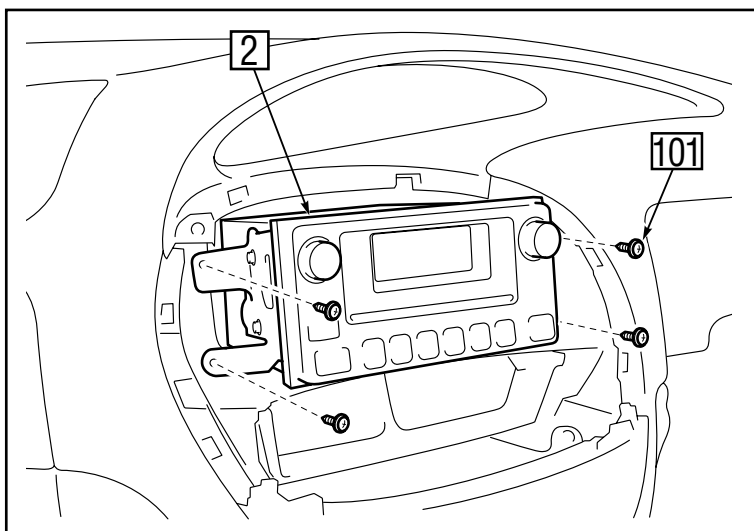


Fig. 2

2. Remove the CD (cassette) tuner with multi display **2**.
101: Screw (4x)

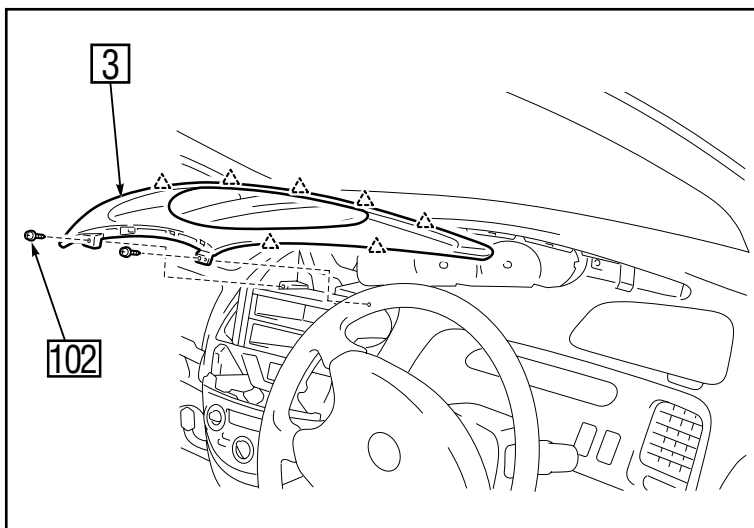


Fig. 3

3. Remove the meter cluster panel **3**.
△: Hook (7x)
102: Screw (2x)

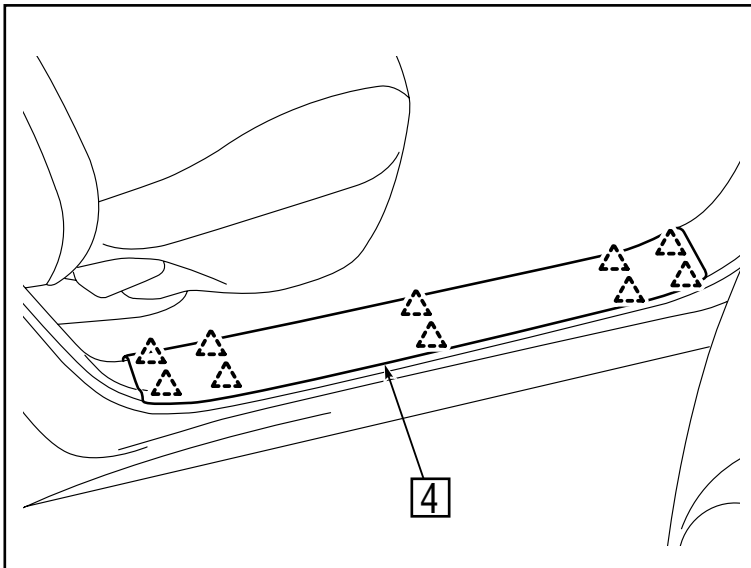


Fig. 4

4. Remove the front door scuff plate (R) 4.
△: Hook (10x)

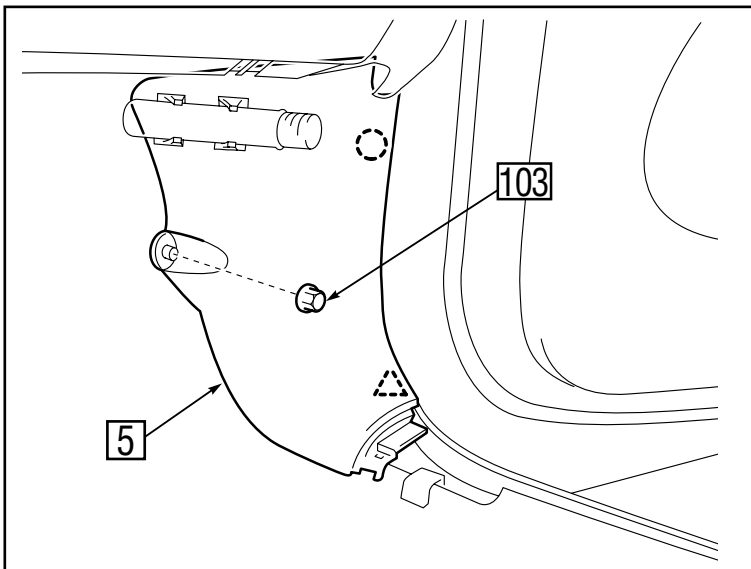


Fig. 5

5. Remove the kick panel (R) 5.
△: Hook (1x)
○: Clip (1x)
103: Nut (1x)

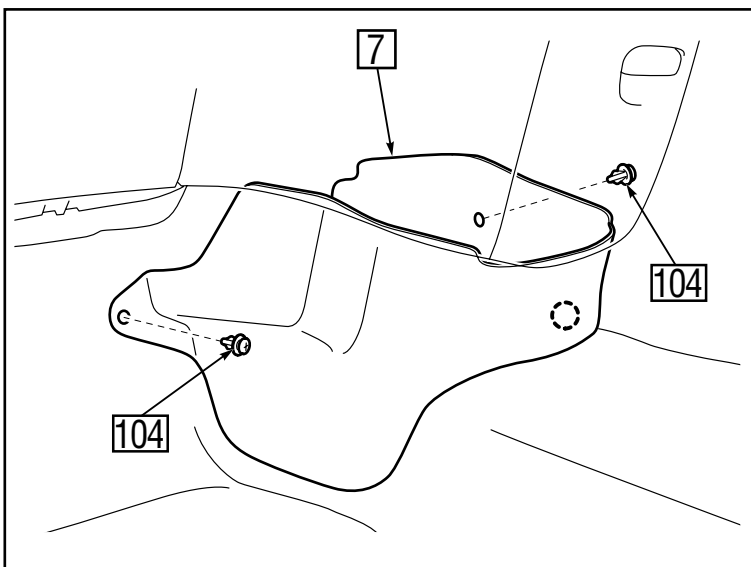


Fig. 6

6. Remove the centre lower cover 7.
○: Clip (1x)
104: Clip (2x)

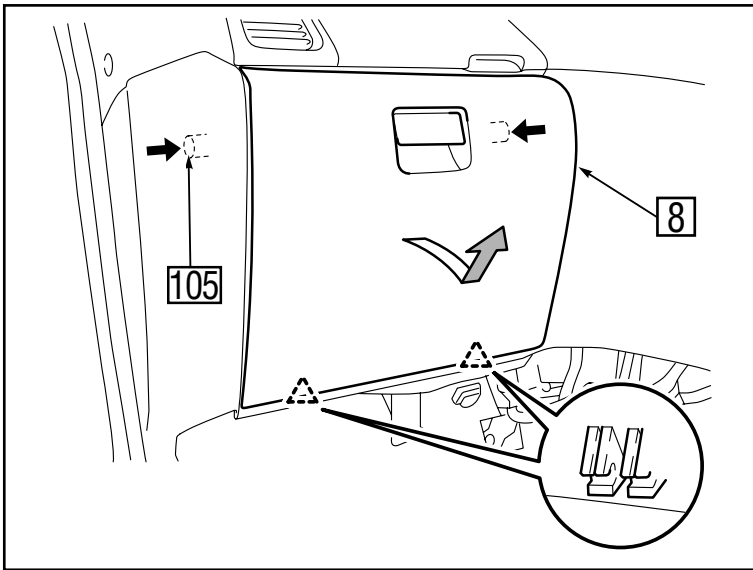


Fig. 7

7. Remove the glove compartment door **8**.
 △: Hook (2x)
105: Stopper (2x)

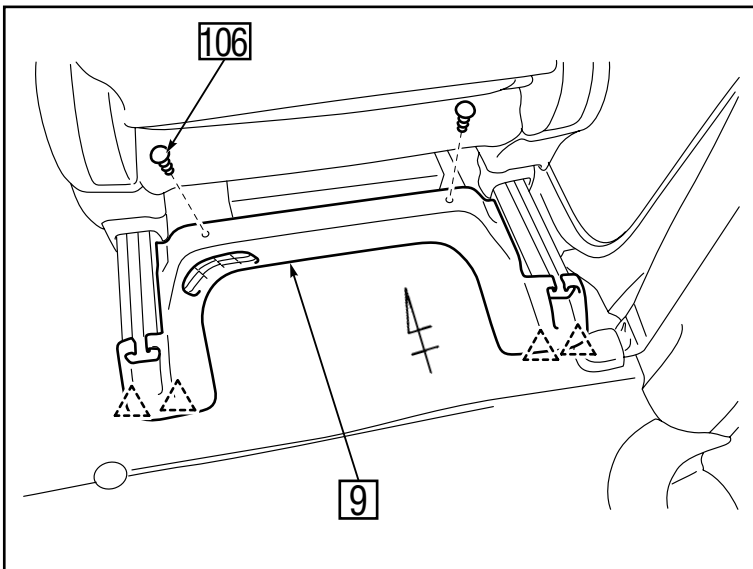


Fig. 8

8. Remove the driver seat leg cover **9**.
 △: Hook (4x)
106: Clip (2x)

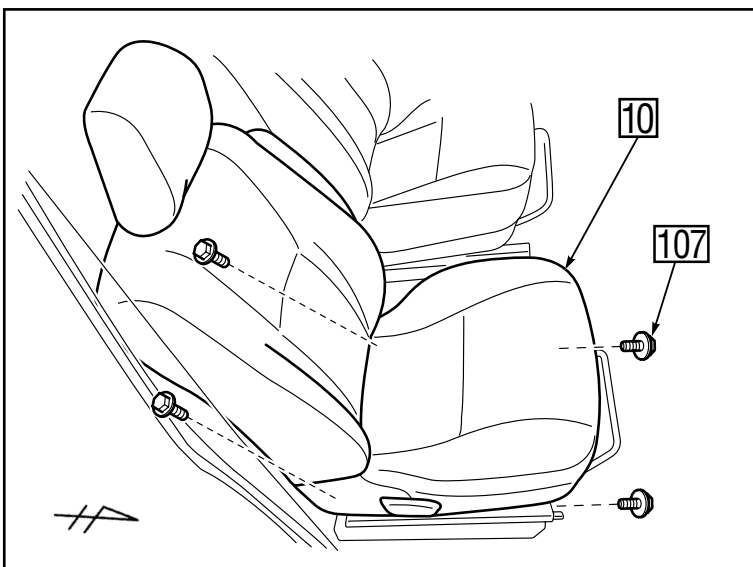


Fig. 9

9. Remove the driver seat **10**.
107: Bolt (4x)

CAUTION

Fasten the bolt with specified torque wrench (25 N.m) when reassembling.

INSTALLATION OF THE GPS ANTENNA

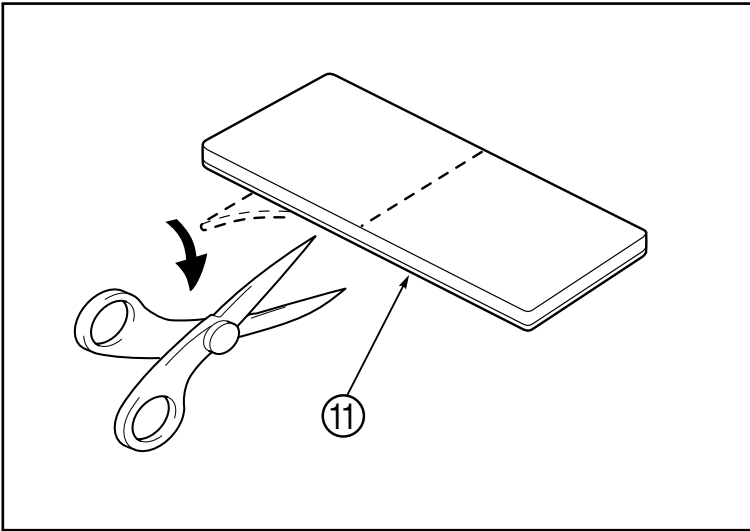


Fig. 10

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

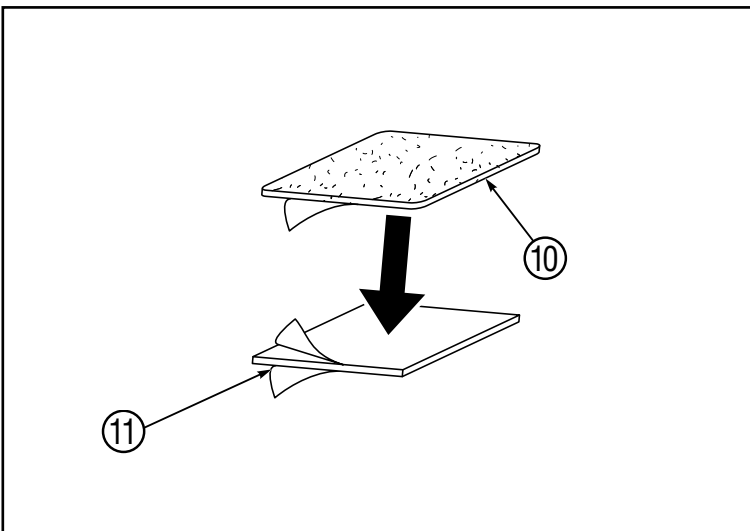


Fig. 11

2.
 - a) Remove the release paper of the earth plate ⑩ and attach the butyl tape ⑪ as shown.
 - b) Apply the butyl tape ⑪ to the adhesive side of the earth plate ⑩.

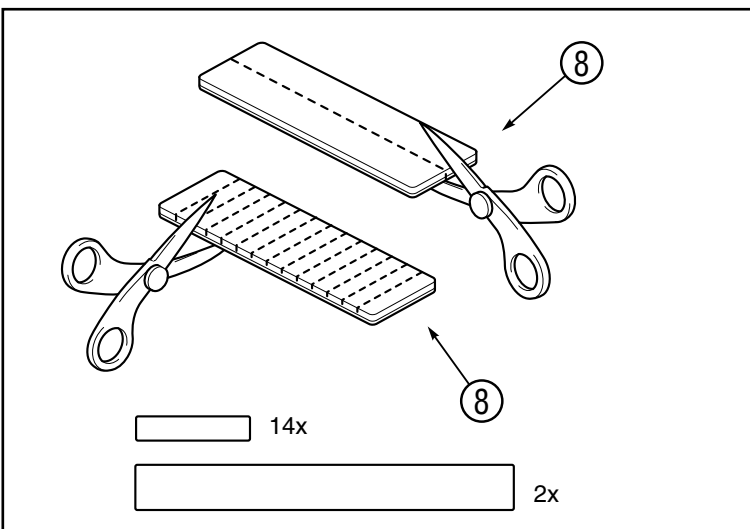


Fig. 12

3. Cut the foam tape ⑧ into 2 large pieces and 14 small pieces as shown.

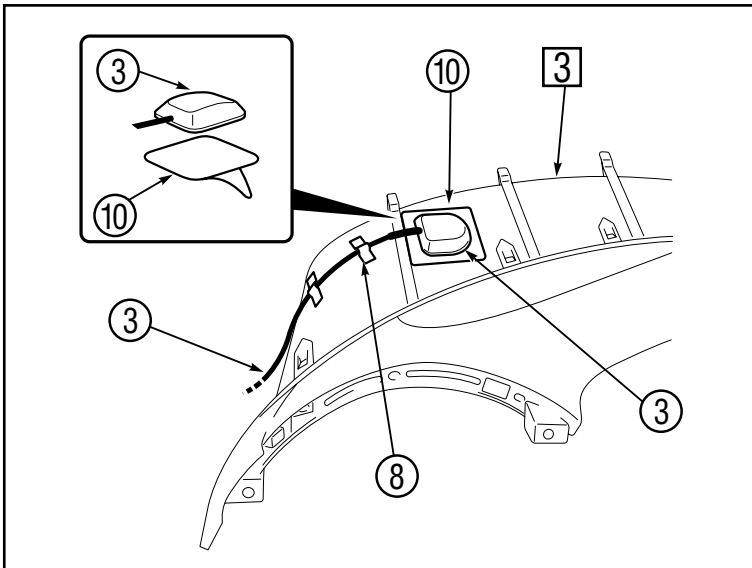


Fig. 13

- 4.
 - a) Attach the earth plate ⑩ to the meter cluster panel ③ 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) Fix the antenna cord ③ using foam tape ⑧.
⑧: Foam tape (2x)

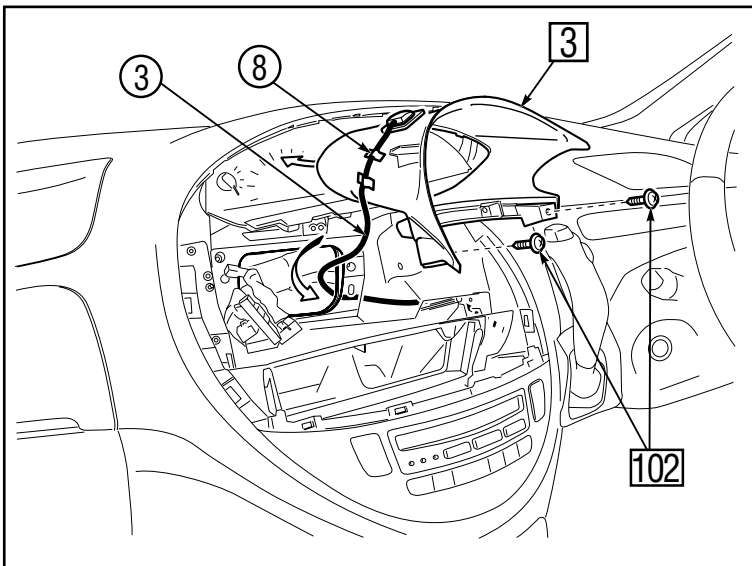


Fig. 14

- 5.
 - a) Route and attach the antenna cord ③ using foam tape ⑧.
⑧: Foam tape (2x)
 - b) Refit the meter cluster panel ③.
102: Screw (2x)

WIRE HARNESS INSTALLATION

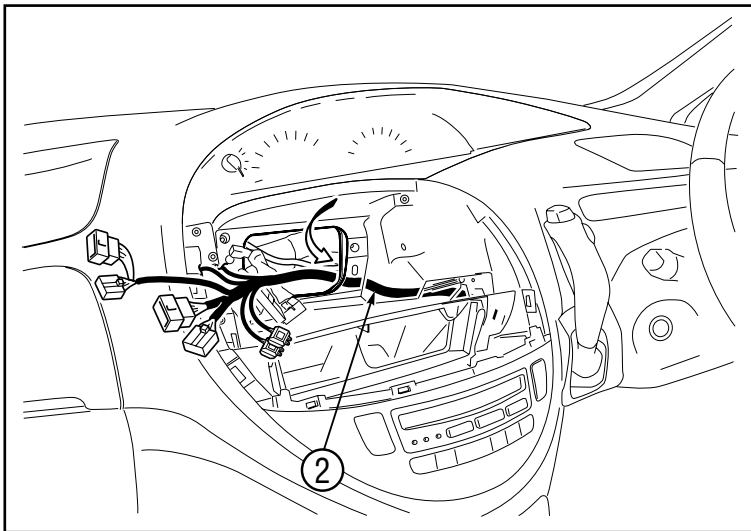


Fig. 15

● WIRE HARNESS ROUTING (Part 1)

1. Let the wire harness ② through from the square hole on the back of the audio unit to the inside of the instrument panel, and route the wire harness ② to the passenger seat floor.

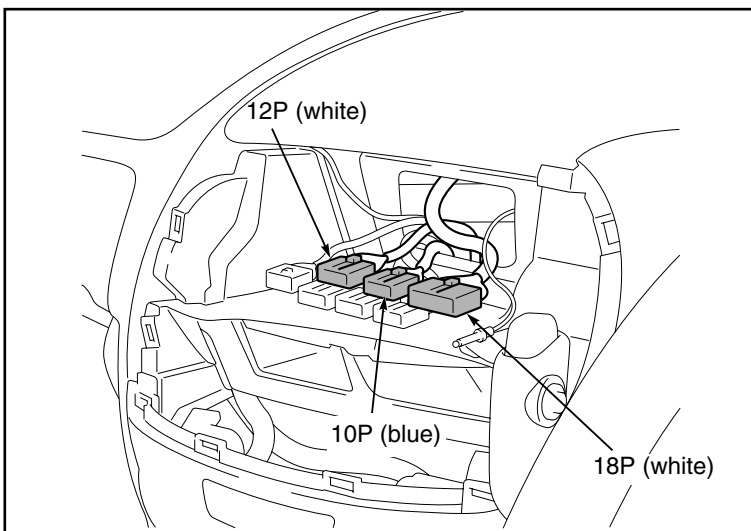


Fig. 16

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

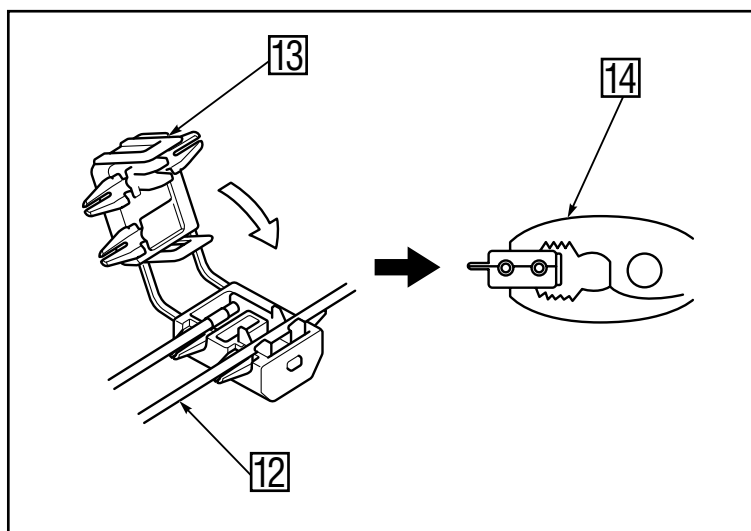


Fig. 17

● WIRE SPLICING CONNECTOR INSTRUCTIONS

3.
 - a) Remove appropriate amount of tape wrapping the vehicle side harness to be connected.
 - b) Insert the vehicle harness ⑫ to be connected securely into the guide slit.
 - c) After inserting the vehicle side harness into the guide slit, fix the splicing connector ⑬, and lock it securely using a plier ⑭ until the connector clicks.

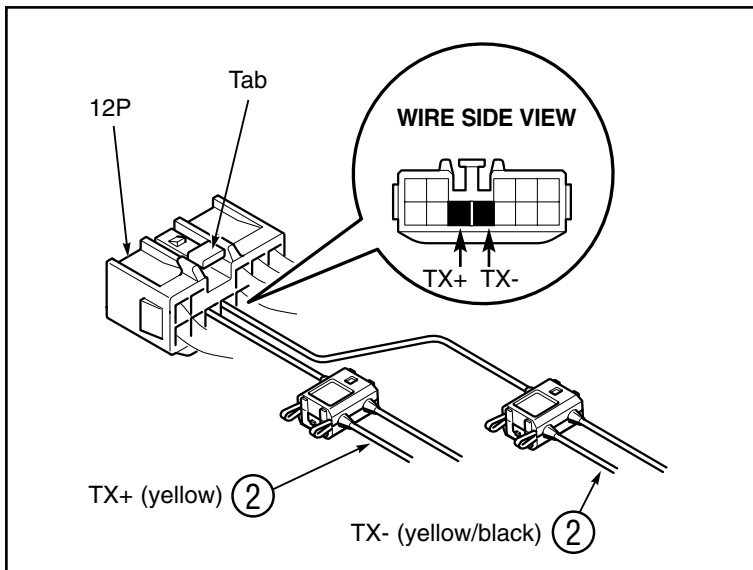


Fig. 18

● TX WIRE CONNECTION

4.
 - a) Turn the connector so that the wires face you and the tab is on top.
 - b) Connect the TX+ wire (yellow) 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.

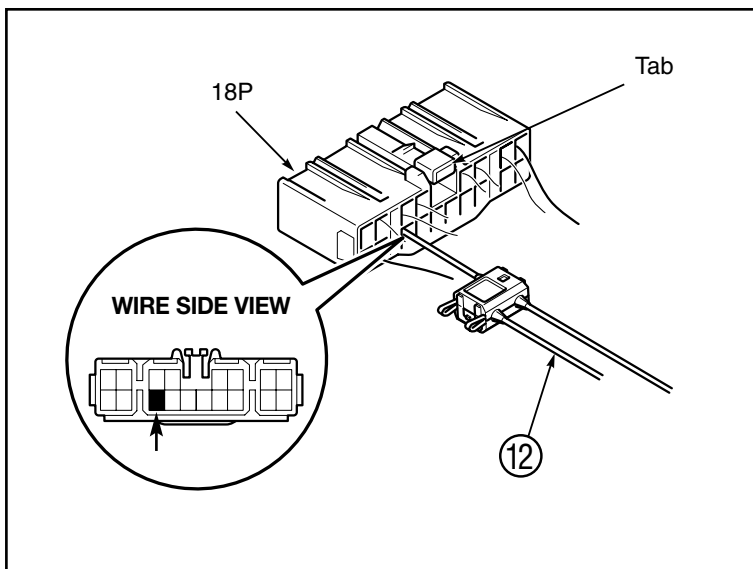


Fig. 19

● SPEED SENSOR CONNECTION

5.
 - a) Turn the connector so that the wires face you and the tab is on top.
 - b) Connect the speed sensor wire ⑫ (violet/ white) of the wire harness ② to the wire of the third position from the left side of the bottom row.

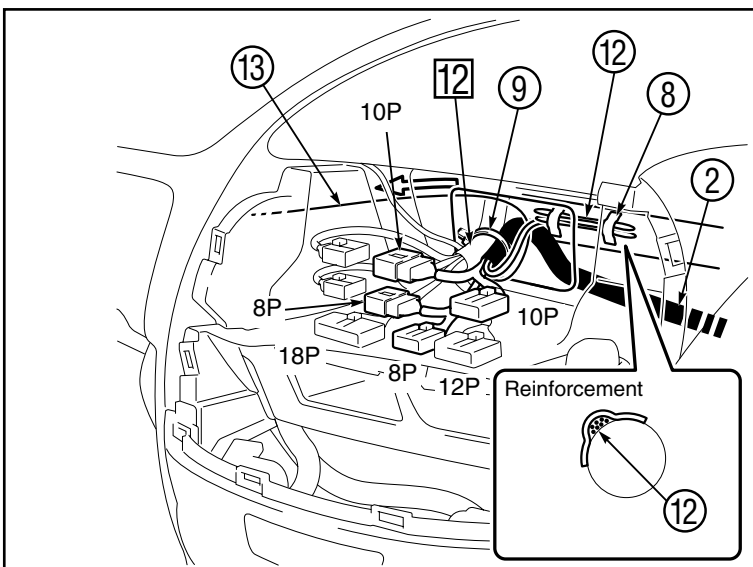


Fig. 20

● WIRE HARNESS ROUTING (Part 2)

6.
 - a) Connect the male 10P connector of the wire harness ② to the female 10P connector of the vehicle wire harness ⑫.
 - b) Connect the male 8P connector of the wire harness ② to the female 8P connector of the vehicle wire harness ⑫.
 - c) Connect the female 8P connector and the female 10P connector of the wire harness ② to the audio assembly.
 - d) Connect the 12P and 18P connectors of the vehicle wire harness ⑫ to the audio assembly.

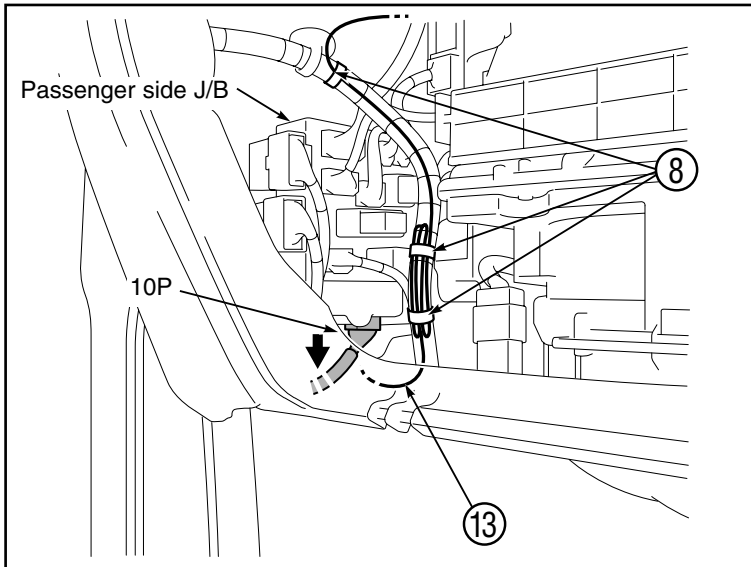


Fig. 21

7.
 - a) Locate and disconnect the 10P connector in the passenger side J/B.
 - b) Attach the excess reverse sensor wire ⑬ using foam tape ⑧.
- ⑧: Foam tape (3x)

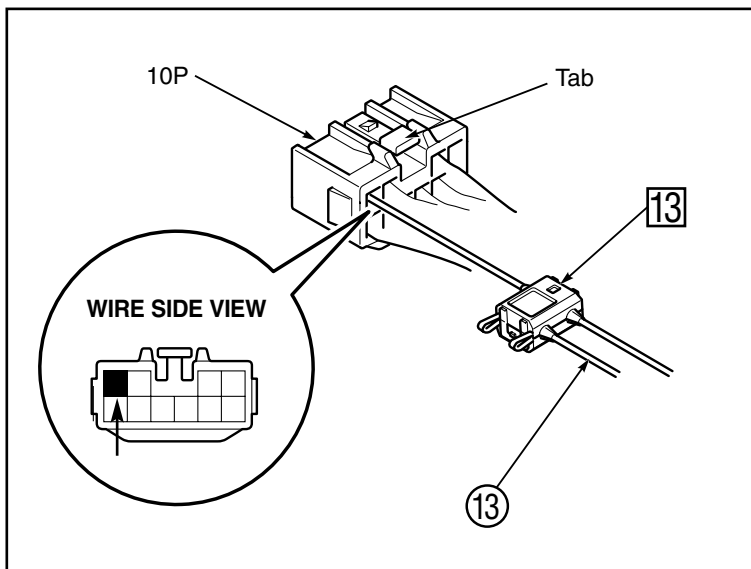


Fig. 22

● REVERSE SENSOR CONNECTION

8.
 - a) Turn the connector so that the wires face you and the tab is on top.
 - b) Connect the reverse sensor wire ⑬ (red/ blue) of the wire harness ② to the wire of the first position from the left side of the upper row.
 - c) Reconnect the 10P connector to the passenger side J/B.

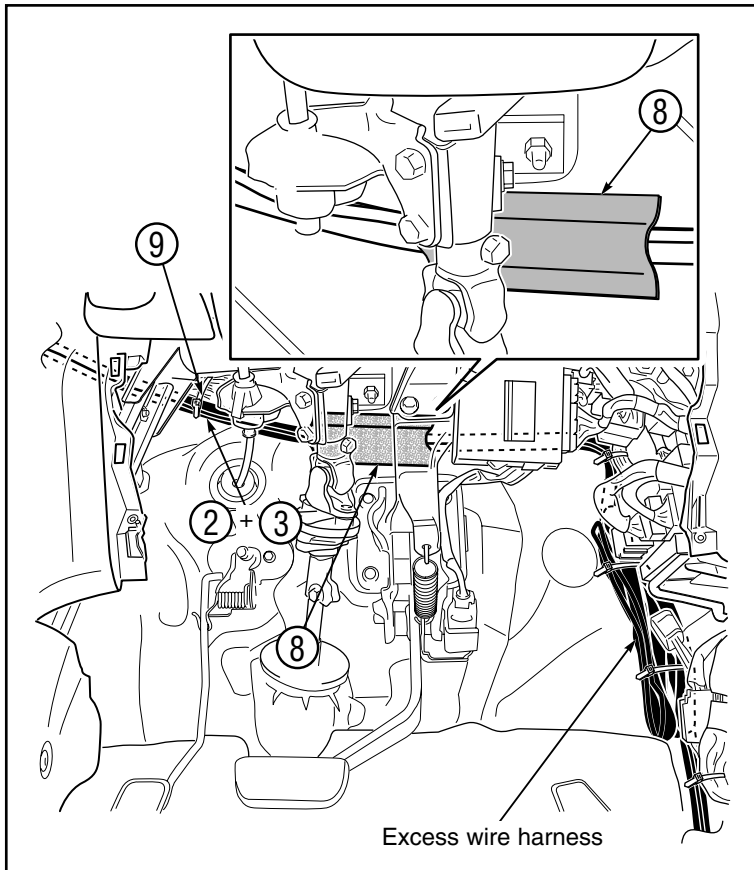


Fig. 23

● WIRE HARNESS ROUTING (Part 3)

- 9. Route and attach the wire harness (2) and antenna cord (3) as shown, using foam tape (8) (1x) and wire ties (9) (5x).

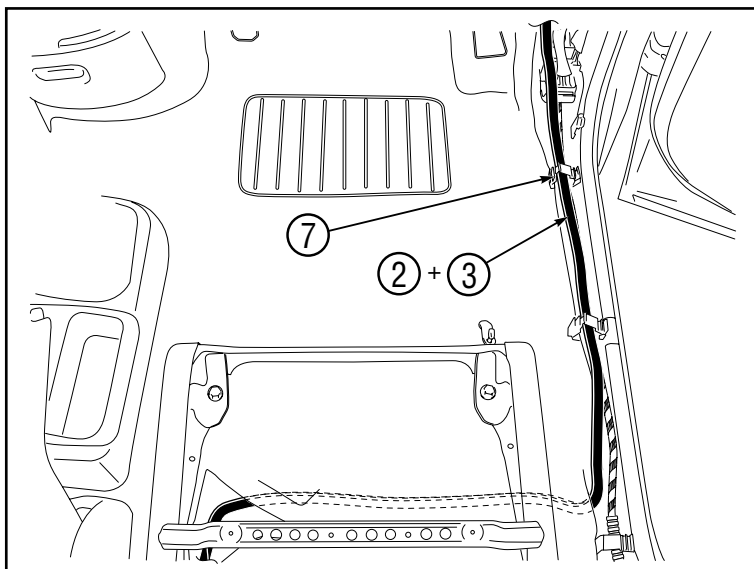


Fig. 24

- 10. Route and attach the wire harness (2) and antenna cord (3) as shown, using the cord clamps (7) (2x).

INSTALLATION OF THE MOUNTING BRACKET AND COMPUTER

NOTE: To fit the ECU the additional “Mounting bracket” ⑭ (PZ425-R0261-60) is required.

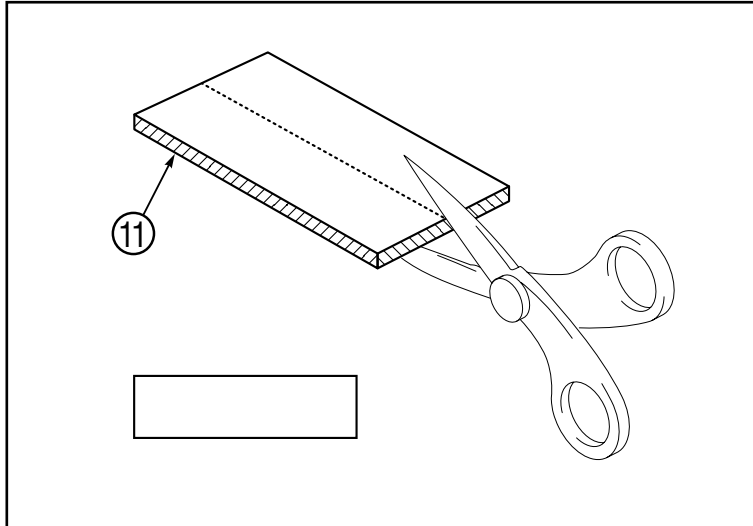


Fig. 25

1. Cut two butyl tapes ⑪ into 2 equal sized pieces.

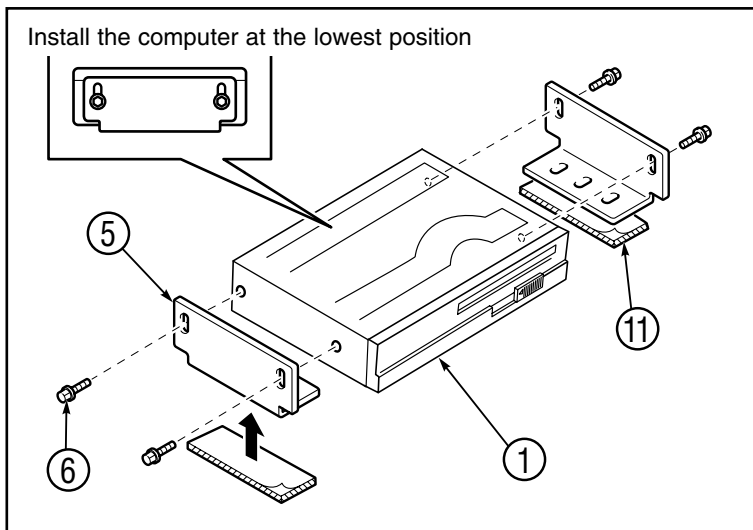


Fig. 26

2.
 - a) Fit the computer brackets ⑤ (2x) to the computer ① using bolts ⑥.
⑥: Bolt (M5x8) (4x)
 - b) Attach the butyl tape ⑪ to the bottom of the computer brackets ⑤ (2x) as shown.

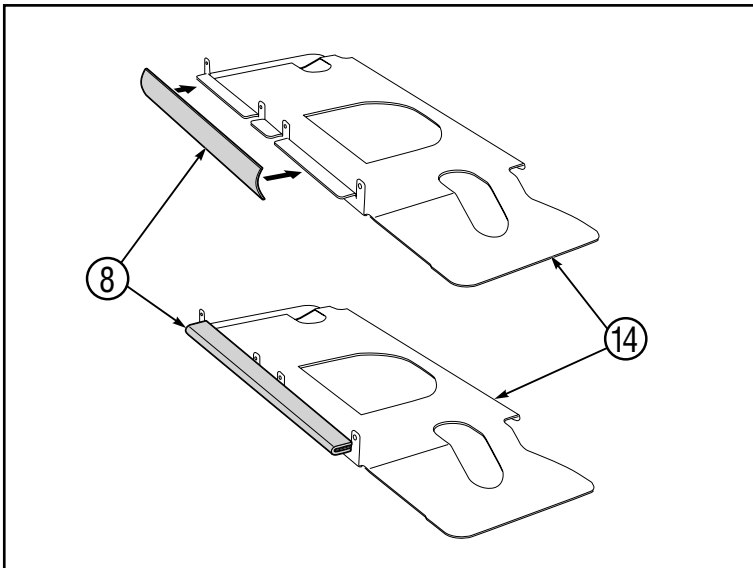


Fig. 27

3. Attach foam tape ⑧ (1x) to the mounting bracket ⑭ as shown.

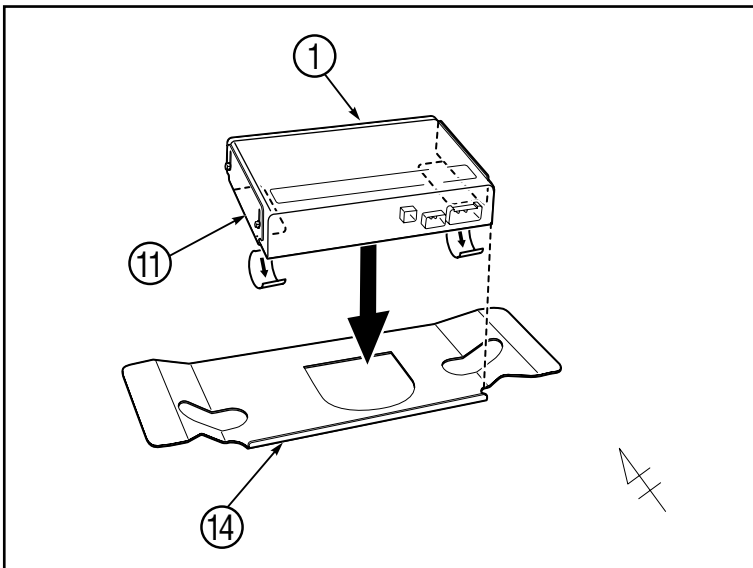


Fig. 28

4.
 - a) Remove the release paper of the butyl tape ⑪.
 - b) Attach the computer ① to the rear right corner of the mounting bracket ⑭ as shown.

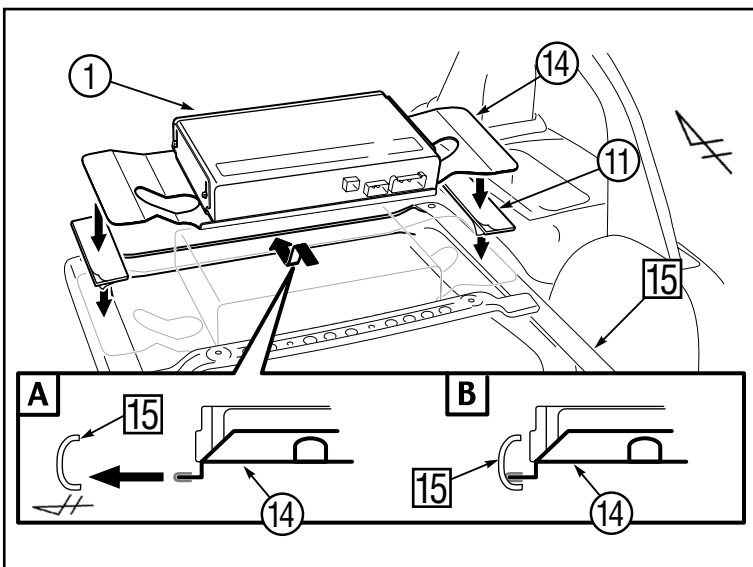


Fig. 29

5. Attach the mounting bracket ⑭ with the computer ① to the driver seat leg base ⑪ as shown using butyl tape ⑪.

⑪: Butyl tape (2x)

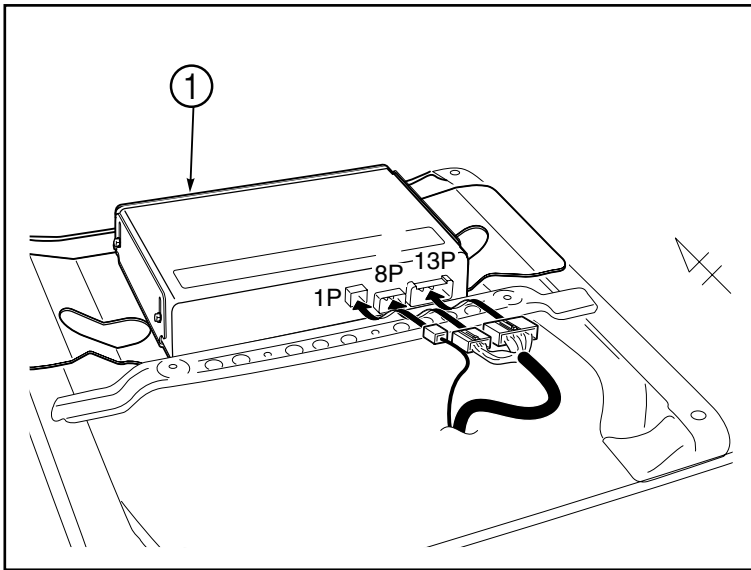
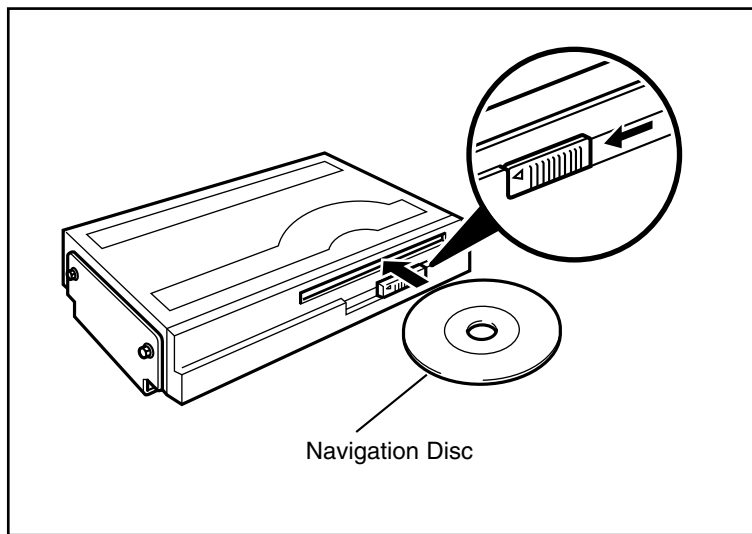


Fig. 30

6. Connect the 1P GPS antenna connector, the 8P and the 13P wire harness connector to the computer ①.

**ENSURE THAT ALL REMOVED CONNECTORS
ARE PUT BACK CORRECTLY.
REFIT THE TRIM AND REMOVED PARTS.**

INSTALLATION OF NAVIGATION DISC*Fig. 31*

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.**

TOYOTA
GENUINE PARTS