



TNS 200

TOYOTA NAVIGATION SYSTEM



Previa (RHD)

INSTALLATION INSTRUCTIONS

FOR **R3*R

PART NUMBER

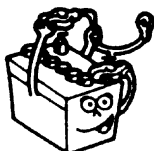
NAVIGATION KIT	08545-00802
MOUNTING BRACKET	PZ425-R0260-60

PRECAUTIONS

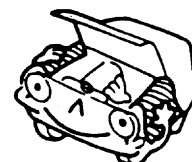


PLEASE READ THOROUGHLY THESE PRECAUTIONS BEFORE THE INSTALLATION

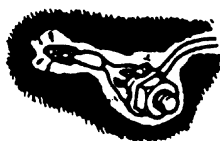
- Be sure to disconnect the negative (-) lead from the battery terminals.



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



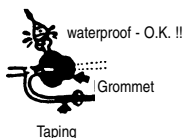
- Do not pinch the rear wiring or harness in the tightened part.



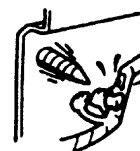
- Use the correct tool when tightening bolts or nuts.



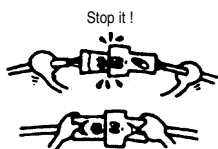
- When passing the wires through the dashboard or other panels, use a grommet to ensure waterproofing.
- Protect the wiring with tape when it is passed through a hole.



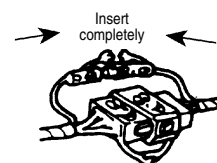
- Before drilling a hole, check that the rear of the mounting wall is clear.



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



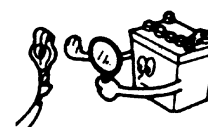
- Be sure to firmly tighten connectors and terminals.



- 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.

TABLE OF CONTENTS



Precautions	2
Application Chart	4
Component Parts TNS 200	8
Required Parts	10
Wiring Connection	11
Installation Overview	12
Vehicle Disassembly	13
Installation of the Base Bracket	17
Installation of the GPS Antenna	19
Wire Harness Installation	20
Installation of the Computer	24
Installation of Navigation Disc	25
Post-Installation Inspection	26
Reassembling	26

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AUDIO APPLICATION CHART

TMME-CA Division Dev. Dept. II - April 21th, 2000

Previa **R3*

(LHD + RHD)

		+ ADD-ON UNIT(S)		CD-Changer TM0461 (08601-00879)		MD-Changer TM0660 (08601-00900)	
				In-Dash CD-Changer TM0561 (08601-00892)		Navigation System TNS500 (08545-00803)	
				CD-Deck TF0411 (08601-00893)		Navigation System TNS200 (08545-00802)	
				Cassette-Deck TM0300 (08690-00824)		Cassette-Storage PZ437-90342-00 or CD-Storage PZ437-90341-00	
				COMBINATION		HEAD UNIT	
10	Radio/Cassette + CD-Deck + MD-Changer	TF4301 (08600-00922)	●	●		Wire (08695-00260) + F/K (PZ425-R0260-60)	
11	Radio/Cassette + CD-Changer CD/Cass-storage	TF4301 (08600-00922) TM4201 (08600-00934)	● ●	● ●	● ●	F/K (PZ425-R0260-60) F/K (PZ425-R0260-60)	
12	Radio/Cassette + CD-Changer + MD-Changer	TF4301 (08600-00922)	●	●		Wire (08695-00260) + A-box (55521-16030) + 2x F/K (PZ425-R0260-60)	
13	Radio/Cassette + CD-Changer + MD-Changer+CD/Cass-storage	TF4301 (08600-00922)	●	●	●	Wire (08695-00260) + 2x F/K (PZ425-R0260-60)	
14	Radio/Cassette + CD-Changer + Full Map Navigation	TF4301 (08600-00922) TM4201 (08600-00934)	● ●	● ●	● ●	Wire (08695-00260) + 2x F/K (PZ425-R0260-60) Wire (08695-00260) + 2x F/K (PZ425-R0260-60)	
15	Radio/Cassette + In dash CD-Changer + MD-Changer	TF4301 (08600-00922)	●	●		Wire (08695-00260) + F/K (PZ425-R0260-60)	
16	Radio/Cassette + MD-Changer + Cass-storage	TF4301 (08600-00922) TM4201 (08600-00934)	● ●	● ●	● ●	F/K (PZ425-R0260-60) F/K (PZ425-R0260-60)	
17	Radio/Cassette + MD-Changer + Full Map Navigation	TF4301 (08600-00922) TM4201 (08600-00934)	● ●	● ●	● ●	Wire (08695-00260) + 2x F/K (PZ425-R0260-60) Wire (08695-00260) + 2x F/K (PZ425-R0260-60)	
18	CD-Tuner + CD-storage	TM4412 (08600-00935) TM4414 (08600-00936)			● ●	- -	
19	CD-Tuner + Cassette-Deck	TM4414 (08600-00936)	●			-	
20	CD-Tuner + CD-Changer	TM4414 (08600-00936)		●		A-box (55521-16030) + F/K (PZ425-R0260-60)	

p. 2/4

1 DIN Head-Unit

		+ ADD-ON UNIT(S)				
		CD-Changer TM0461 (08601-00879)		MD-Changer TM0660 (08601-00900)		
		In-Dash CD-Changer TM0561 (08601-00892)		Navigation System TNS500 (08545-00803)		
		CD-Deck TF0411 (08601-00893)		Navigation System TNS200 (08545-00802)		
		Cassette-Deck TM0300 (08690-00824)		Cassette-Storage PZ437-90342-00 or CD-Storage PZ437-90341-00		
COMBINATION		HEAD UNIT		REQUIRED ADDITIONAL PARTS		
1 DIN Head-Unit	21	CD-Tuner + In dash CD-Changer	TM4414 (08600-00936)	●		-
	22	CD-Tuner + MD-Changer	TM4414 (08600-00936)		●	A-box (55521-16030) + F/K (PZ425-R0260-60)
	23	CD-Tuner + Full Map Navigation	TM4414 (08600-00936)		●	F/K (PZ425-R0260-60)
	24	CD-Tuner + CD-Changer + CD-storage	TM4414 (08600-00936)	●		F/K (PZ425-R0260-60)
	25	CD-Tuner + CD-Changer + Full Map Navigation	TM4414 (08600-00936)	●	●	Wire (08695-00260) + F/K (PZ425-R0260-60)
	26	CD-Tuner + MD-Changer + CD-storage	TM4414 (08600-00936)		●	F/K (PZ425-R0260-60)
	27	CD-Tuner + MD-Changer + Full Map Navigation	TM4414 (08600-00936)		●	Wire (08695-00260) + 2x F/K (PZ425-R0260-60)
Wide 2-DIN	28	Radio/Cassette (only)	MOP-unit 08600-00944 (note1)			-
	29	CD-Tuner (only)	MOP-unit 08600-00945 (note1)			-
	30	Radio/Cassette + CD-Changer	MOP-unit 08600-00944 (note1)	●		Wire (08695-00260) + F/K (PZ425-R0260-60) Wire (08695-00260) + F/K (PZ425-R0260-60)
	31	Radio/Cassette + MD Changer	MOP-unit 08600-00944 (note1)		●	Wire (08695-00260) + F/K (PZ425-R0260-60) Wire (08695-00260) + F/K (PZ425-R0260-60)
	32	Radio/Cassette + Navigation (TBT)	MOP-unit 08600-00944 (note1)		●	F/K (PZ425-R0260-60) F/K (PZ425-R0260-60)

AUDIO APPLICATION CHART

TMME-CA Division Dev. Dept. II - April 21th, 2000

Previa **R3*

(LHD + RHD)

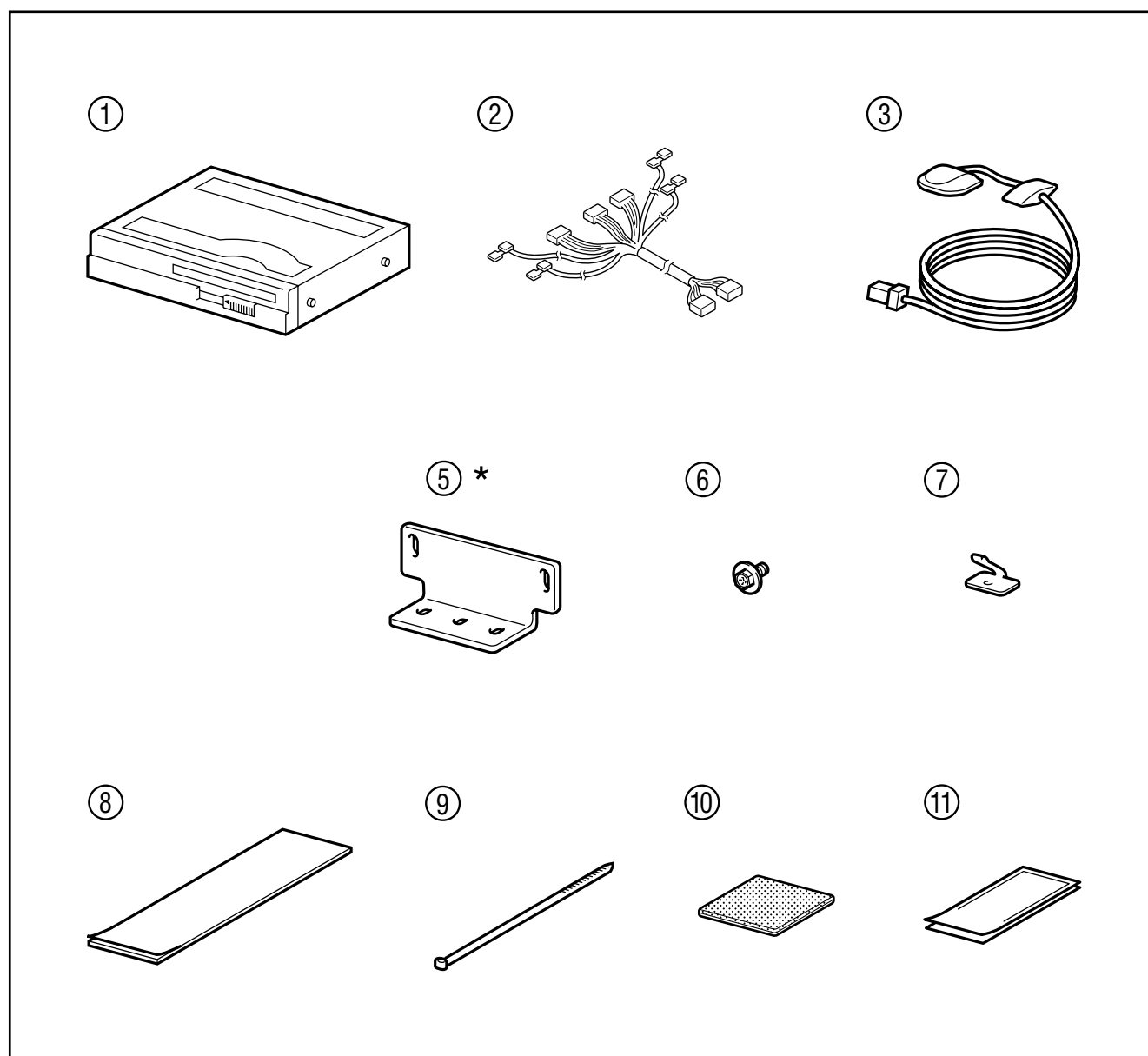
		+ ADD-ON UNIT(S)			
		CD-Changer TM0461 (08601-00879) MD-Changer TM0660 (08601-00900)			
		In-Dash CD-Changer TM0561 (08601-00892)		Navigation System TNS500 (08545-00803)	
		CD-Deck TF0411 (08601-00893)		Navigation System TNS200 (08545-00802)	
		Cassette-Deck TM0300 (08690-00824)		Cassette-Storage PZ437-90342-00 or CD-Storage PZ437-90341-00	
COMBINATION		HEAD UNIT		REQUIRED ADDITIONAL PARTS	
33	Radio/Cassette + CD-Changer + MD-Changer	MOP-unit 08600-00944 (note1)	● ●	● ●	2x Wire (08695-00260) + 2x F/K (PZ425-R0260-60) 2x Wire (08695-00260) + 2x F/K (PZ425-R0260-60)
34	Radio/Cassette + CD-Changer + Navigation (TBT)	MOP-unit 08600-00944 (note1)	● ●	● ●	Wire (08695-00260) + 2x F/K (PZ425-R0260-60) Wire (08695-00260) + 2x F/K (PZ425-R0260-60)
35	Radio/Cassette + MD Changer + Navigation (TBT)	MOP-unit 08600-00944 (note1)	● ●	● ●	Wire (08695-00260) + 2x F/K (PZ425-R0260-60) Wire (08695-00260) + 2x F/K (PZ425-R0260-60)
36	CD-Tuner + CD-Changer	MOP-unit 08600-00945 (note1)	● ●	● ●	Wire (08695-00260) + F/K (PZ425-R0260-60) Wire (08695-00260) + F/K (PZ425-R0260-60)
37	CD-Tuner + MD-Changer	MOP-unit 08600-00945 (note1)	● ●	● ●	Wire (08695-00260) + F/K (PZ425-R0260-60) Wire (08695-00260) + F/K (PZ425-R0260-60)
38	CD-Tuner + Navigation (TBT)	MOP-unit 08600-00945 (note1)		● ●	F/K (PZ425-R0260-60) F/K (PZ425-R0260-60)
39	CD-Tuner + CD-Changer + MD-Changer	MOP-unit 08600-00945 (note1)	● ●	● ●	2x Wire (08695-00260) + 2x F/K (PZ425-R0260-60) 2x Wire (08695-00260) + 2x F/K (PZ425-R0260-60)
40	CD-Tuner + CD-Changer + Navigation (TBT)	MOP-unit 08600-00945 (note1)	● ●	● ●	Wire (08695-00260) + 2x F/K (PZ425-R0260-60) Wire (08695-00260) + 2x F/K (PZ425-R0260-60)
41	CD-Tuner + MD-Changer + Navigation (TBT)	MOP-unit 08600-00945 (note1)	● ●	● ●	Wire (08695-00260) + 2x F/K (PZ425-R0260-60) Wire (08695-00260) + 2x F/K (PZ425-R0260-60)

Wide 2-DIN

PZ425-R0260-60 = Mounting Kitt // 08695-00260 = Junction Cord
(note 1): Outside temperature sensor required (PZ432-R0310-00).

COMPONENT PARTS

TNS 200



* Not used for Previa.

No.	Part name	Quantity
①	COMPUTER	1
②	WIRE HARNESS	1
③	GPS ANTENNA	1
⑤	COMPUTER BRACKET *	2
⑥	SET BOLT (M5 X 8)	4
⑦	CORD CLAMP	2
⑧	URETHANE TAPE FOR FIXING HARNESSES	2
⑨	WIRE TIE	5
⑩	EARTH PLATE	1
⑪	BUTYL TAPE	4

* Not used for Previa.

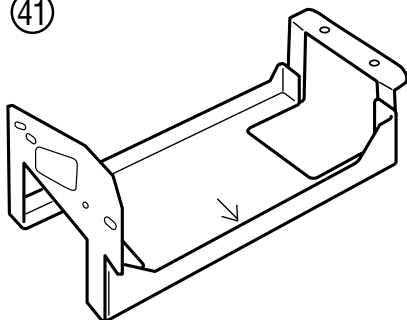
REQUIRED PARTS



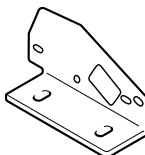
MOUNTING BRACKET

PZ425-R0260-60

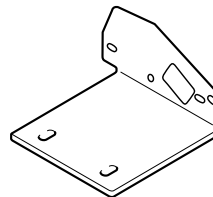
④①



④②



④③



④④



CD-ROM

To be ordered separately.

Please refer to the list of available CD-ROM for TNS200 Navigation System (Access to accessories).

OWNER'S MANUAL

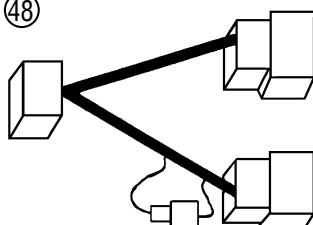
To be ordered separately.

WIRE HARNESS

08695-00260

Only in case CD- and/or MD-Changer are applied too.

④⑧

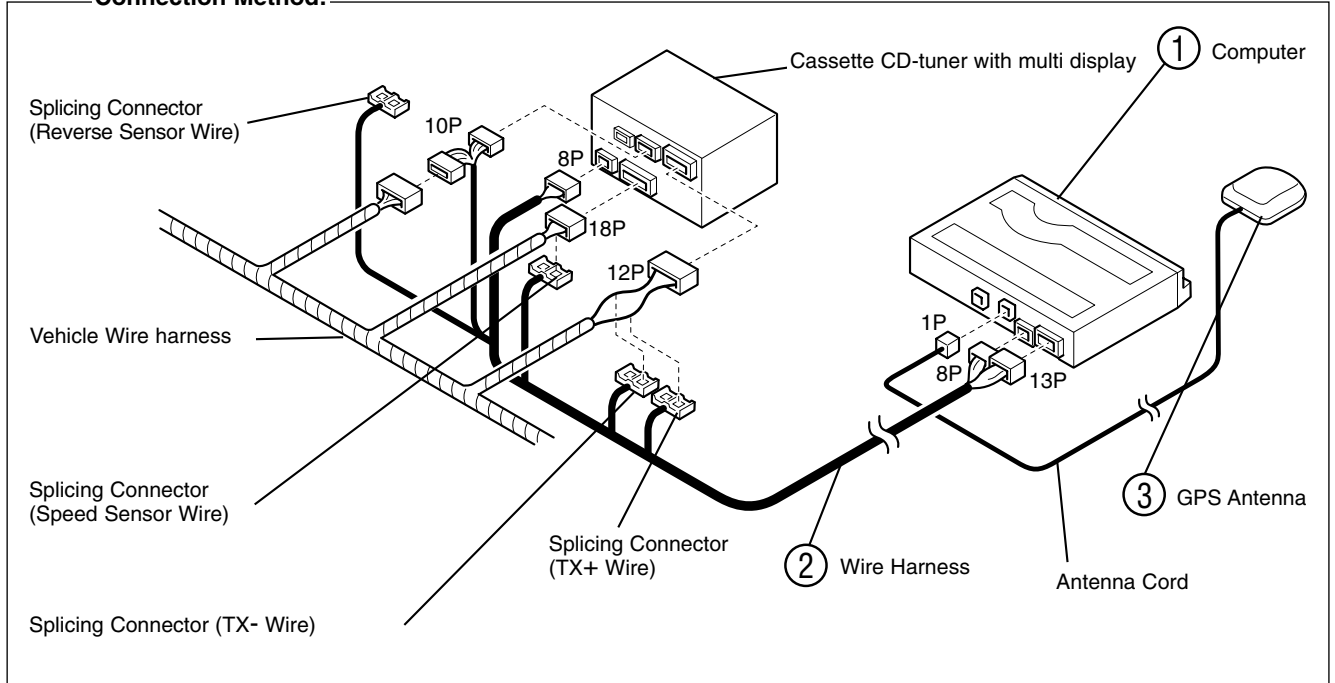


WIRING CONNECTION

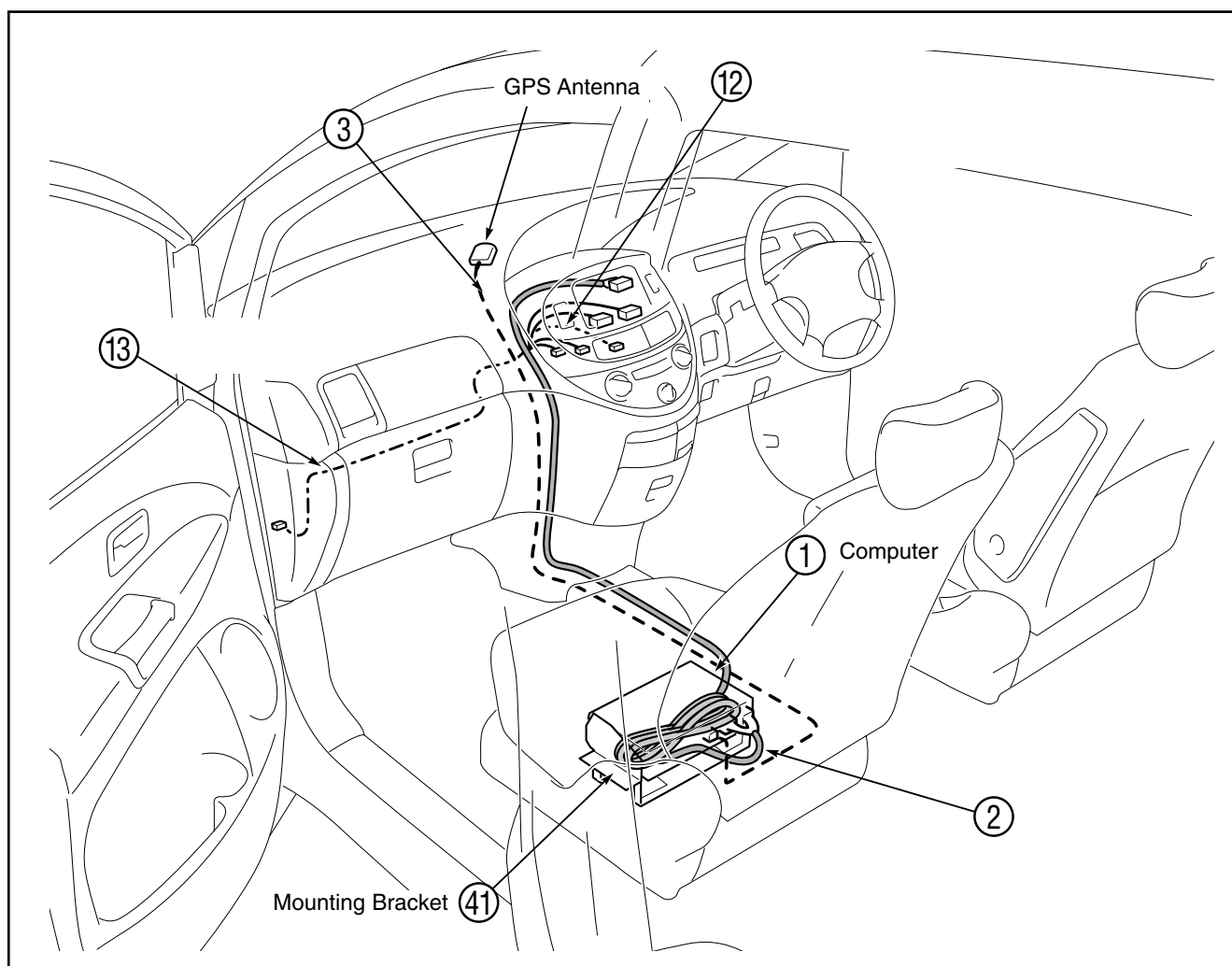


FOR WIDE 2-DIN AUDIO

Connection Method:



INSTALLATION OVERVIEW



NOTE: To fit the computer the additional “Mounting bracket” ④① (PZ425-R0260-60) 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

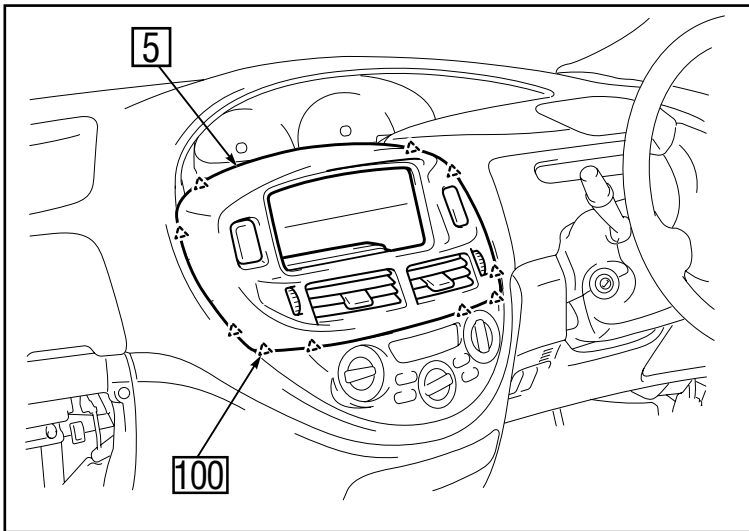


Fig. 1

1. Remove the centre cluster panel **5**.
100: Hook (10x)

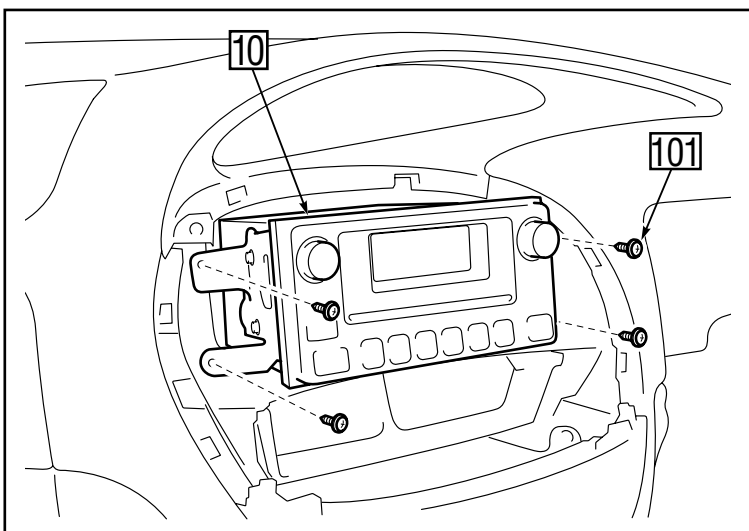


Fig. 2

2. Remove the CD (cassette) tuner with multi display **10**.
101: Screw (4x)

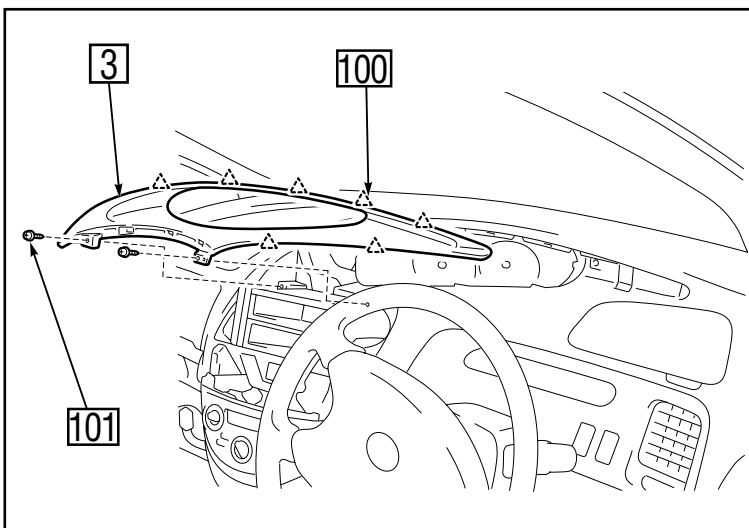


Fig. 3

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

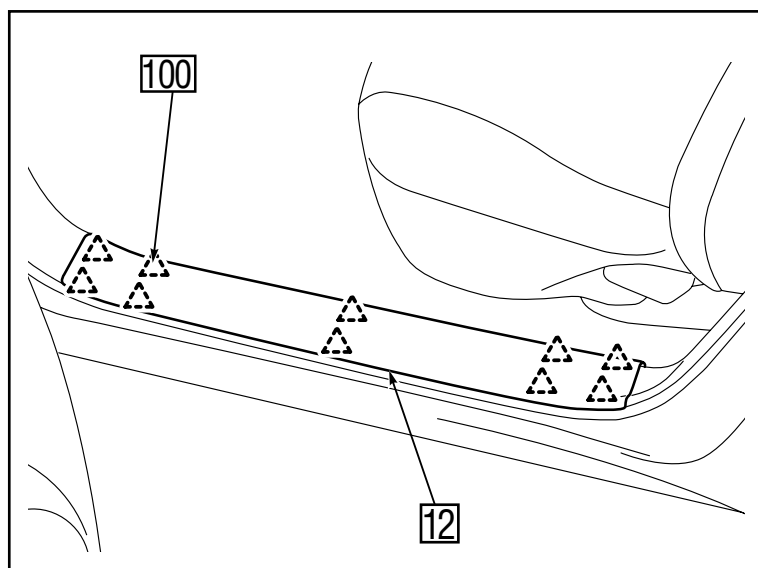


Fig. 4

4. Remove the front door scuff plate (LH) **12**.
100: Hook (10x)

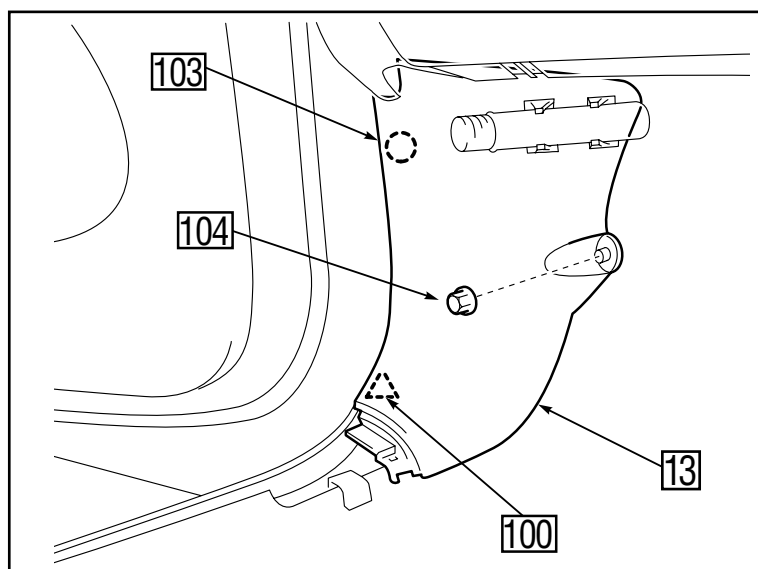


Fig. 5

5. Remove the cowl side panel (LH) **13**.
100: Hook (1x)
103: Clip (1x)
104: Nut (1x)

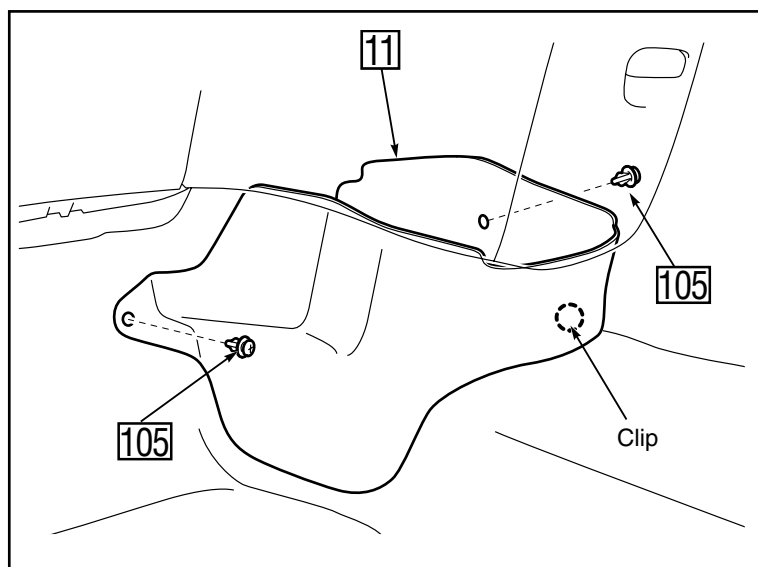


Fig. 6

6. Remove the centre lower cover **11**.
105: Clip (2x)

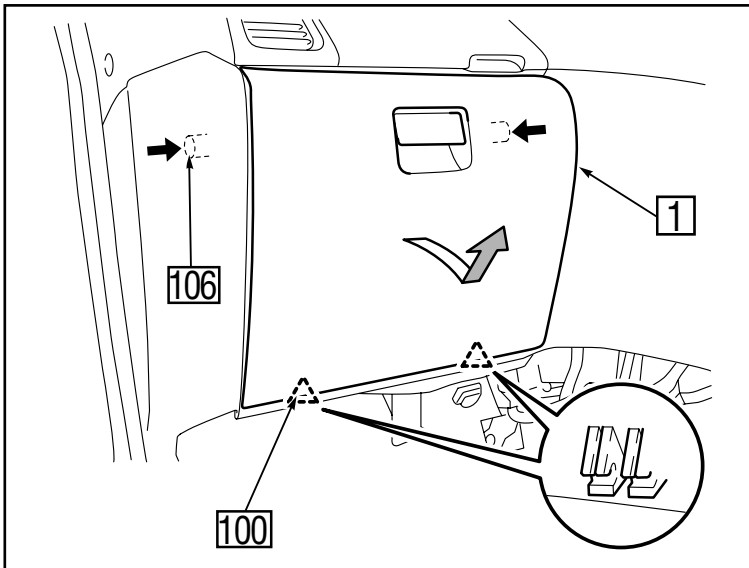


Fig. 7

7. Remove the glove compartment door [1].
 [100]: Hook (2x)
 [106]: Stopper (2x)

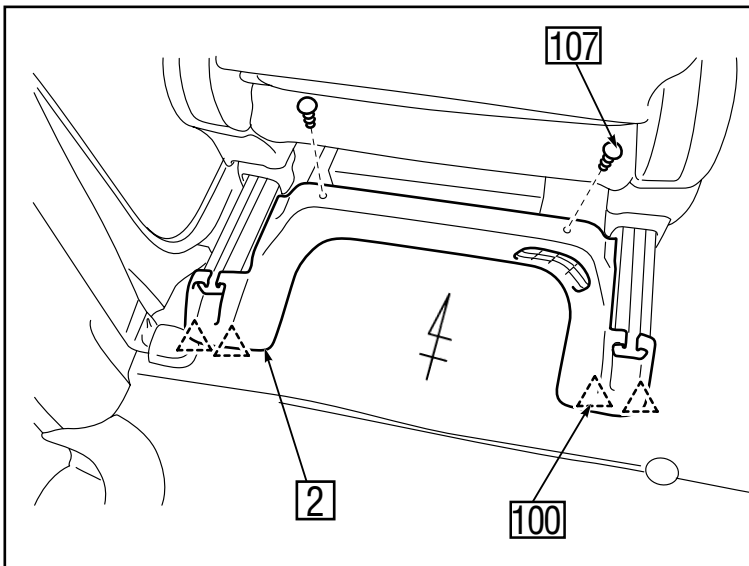


Fig. 8

8. Remove the passenger's seat leg cover [2].
 [100]: Hook (4x)
 [107]: Clip (2x)

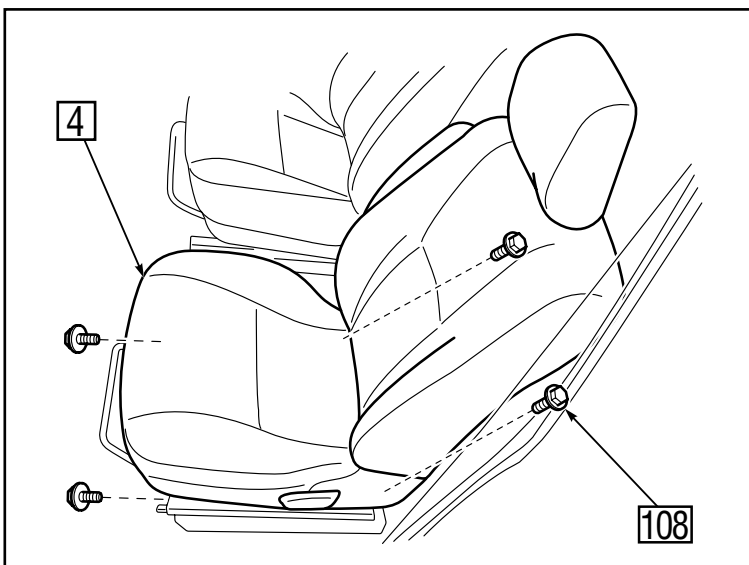


Fig. 9

9. Remove the passenger's seat [4].
 [108]: Bolt (4x)

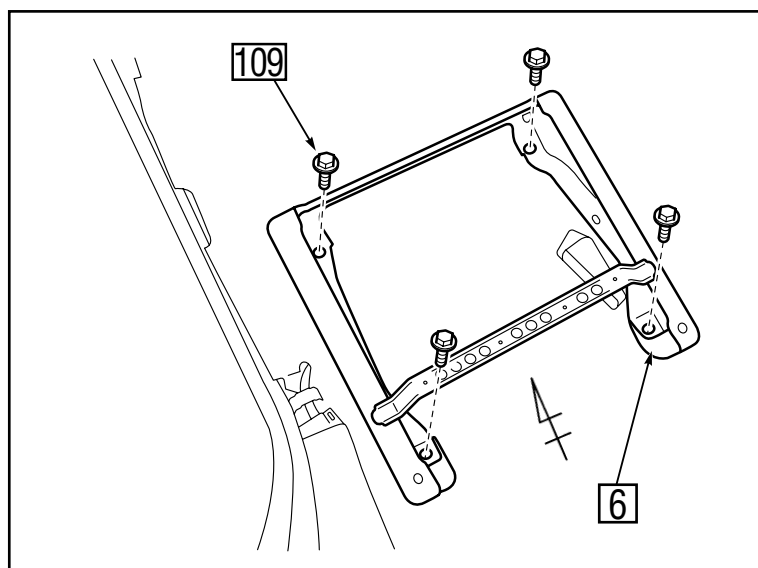


Fig. 10

10. Remove the passenger's seat leg base 6.

109: Bolt (4x)

INSTALLATION OF THE BASE BRACKET



NOTE: To fit the ECU the additional “Mounting bracket” ④① (PZ425-R0260-60) is required.

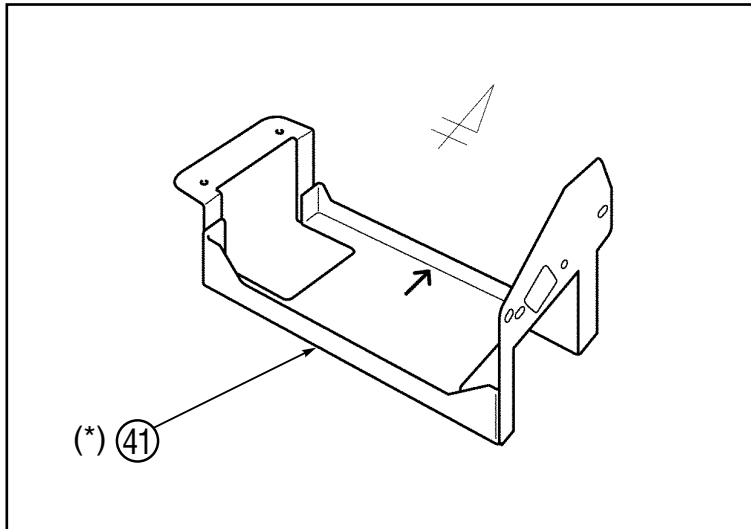


Fig. 11

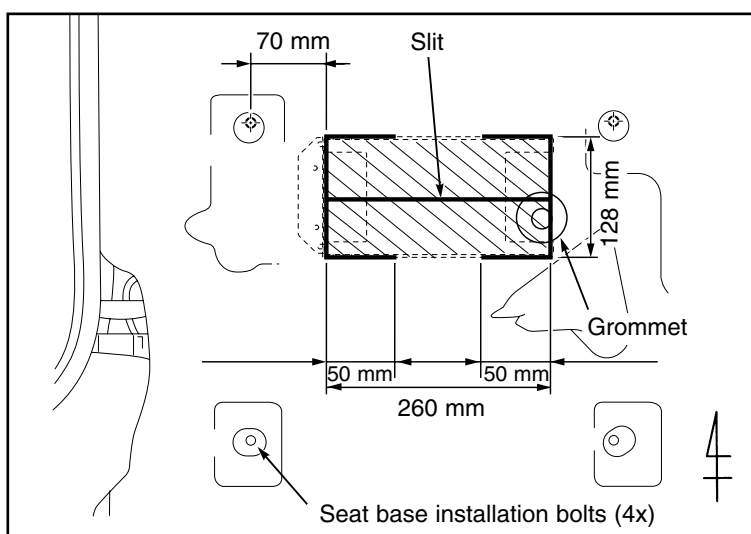


Fig. 12

1. Cutting the carpet:
 - Position the mounting bracket (*) against the most rear edge of the grommet and 70mm from the LH front seat base bolt
 - Mark the cut lines
 - Remove the bracket (*)
 - Cut the carpet along the cut lines
2. Turn the floor carpet over and remove the felt on the reverse of the carpet shown by oblique lines in the illustration.

(*) PZ425-R0260-60

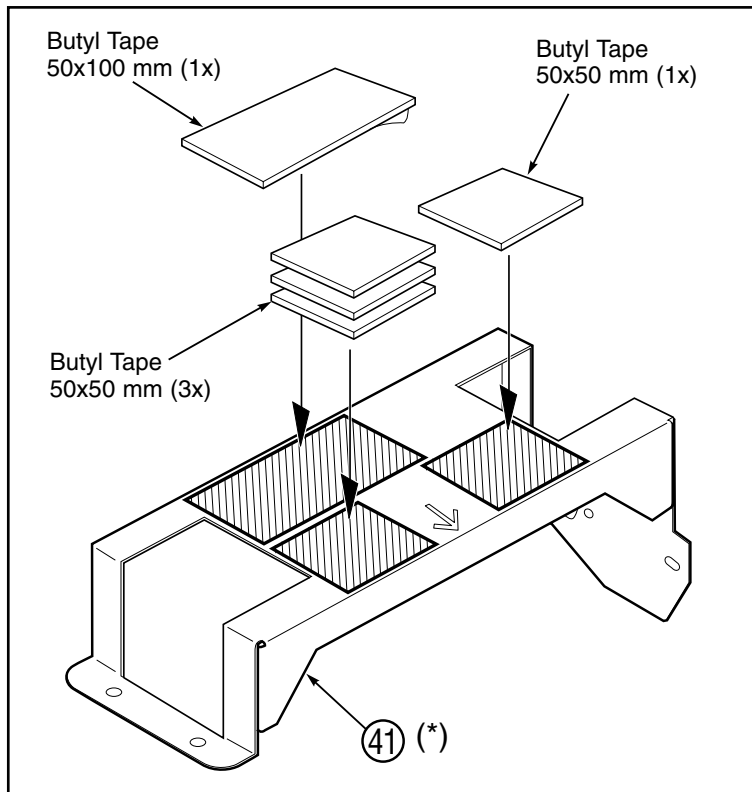


Fig. 13

3. Cut two butyl tapes into 2 equal sized pieces ⑪.
Attach the butyl tapes to the under part of the mounting bracket ④ (*).

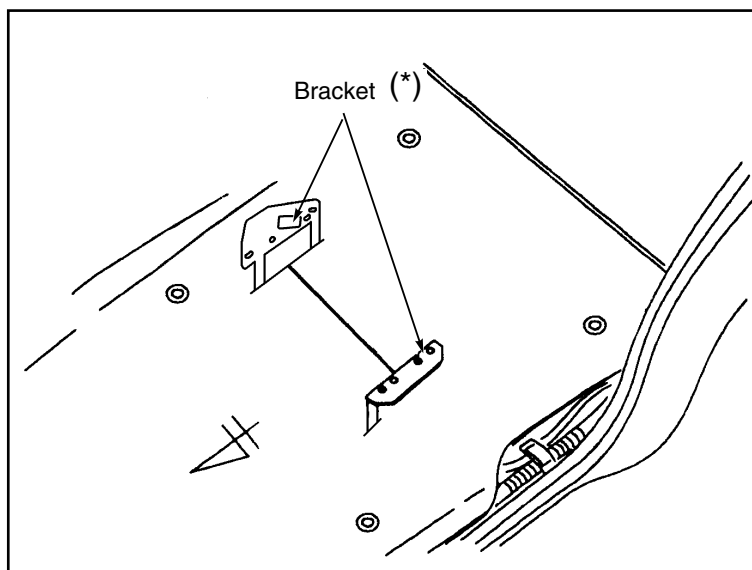


Fig. 14

4. Fit the bracket (*) to the floor as indicated in fig. 12 and replace the carpet.

CAUTION:

The correct positioning of the bracket is very important in order to avoid interference with the seat.

(*) PZ425-R0260-60

INSTALLATION OF THE GPS ANTENNA

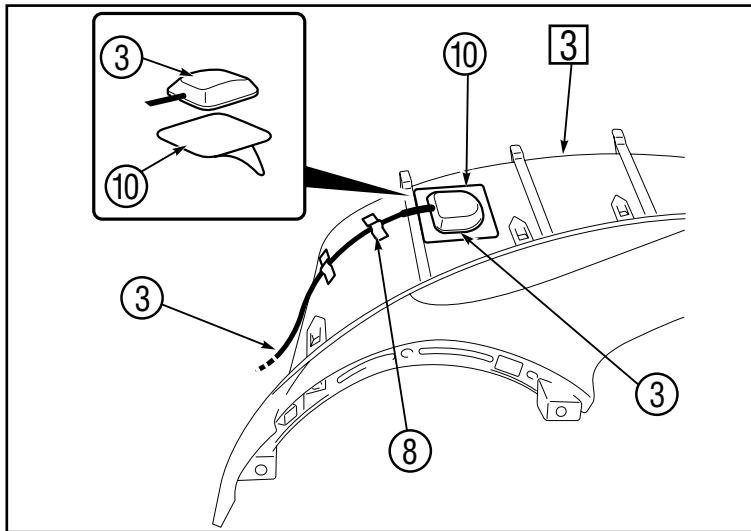


Fig. 15

1. Remove the release paper of the earth plate ⑩.

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.

Fix the antenna cord ③ using the foam ⑧ (2x).

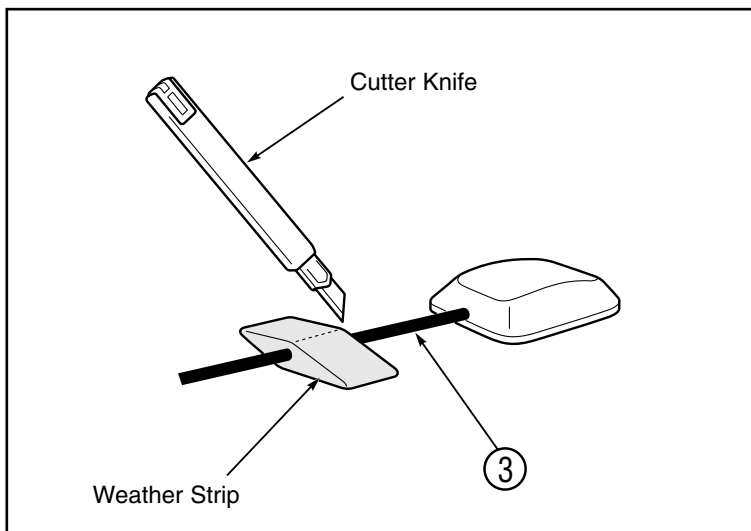


Fig. 16

2. Using a cutter knife, cut off the weather strip of the antenna cord ③.

CAUTION: Be careful not to damage the antenna cord ③.

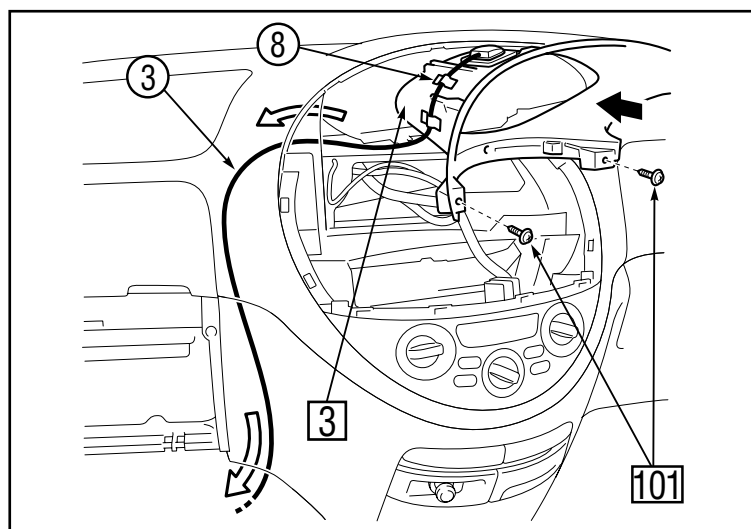


Fig. 17

3. Route the antenna cord ③ as shown. Fix the antenna cord ③ using the foam ⑧.

Refit the meter cluster panel ③.

101: Screw (2x)

WIRE HARNESS INSTALLATION

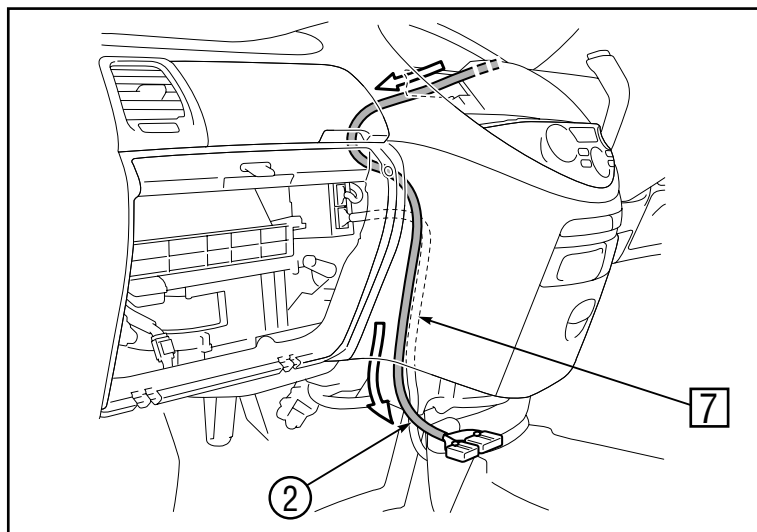


Fig. 18

● 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's seat floor along the vehicle wire harness ⑦.

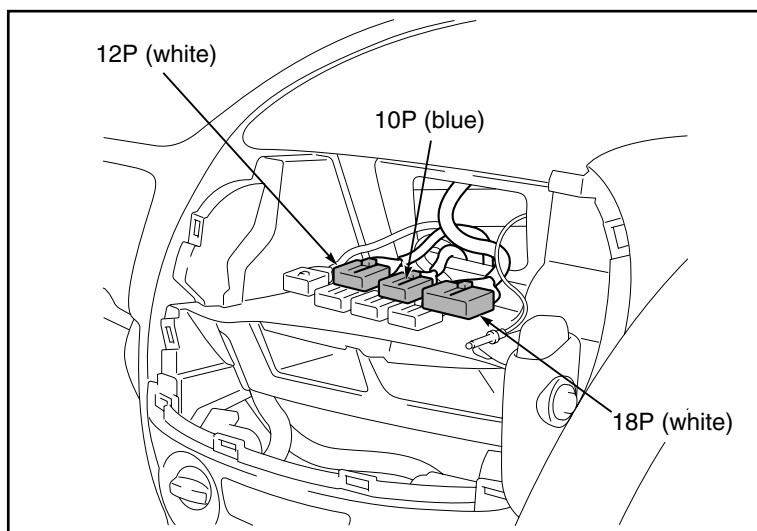


Fig. 19

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

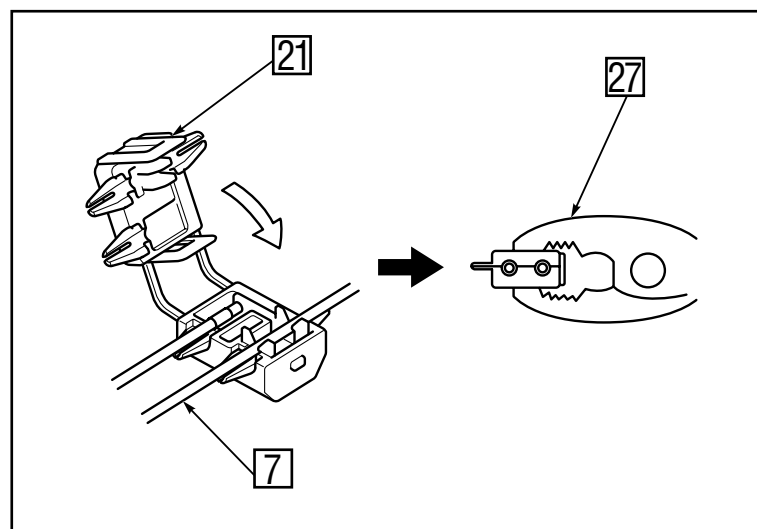


Fig. 20

● SPLICING CONNECTOR CONNECTION PROCEDURES

3.
 - a) Remove appropriate amount of tape wrapping the vehicle side harness to be connected.
 - b) Insert the vehicle harness ⑦ 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.

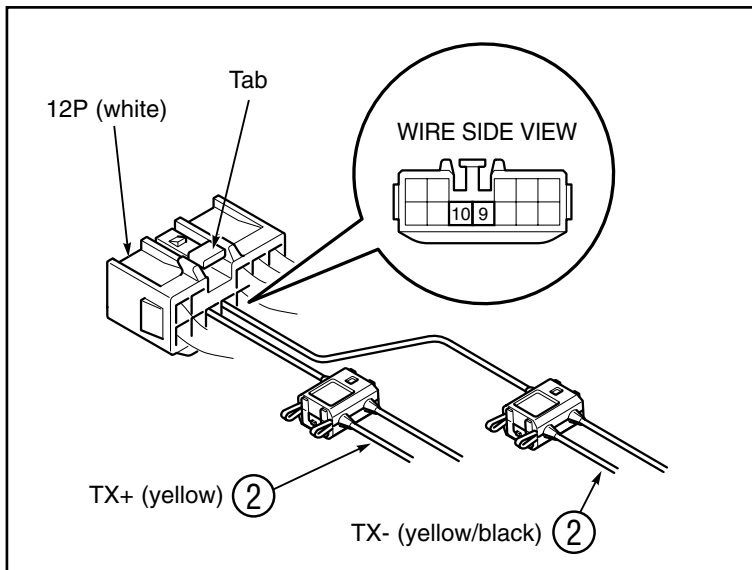


Fig. 21

● TX WIRE CONNECTION

4. Connect the TX- wire (yellow/ black) of the wire harness ② to the vehicle side 12P connector (white) terminal 9. Connect the TX+ wire (yellow) of the wire harness ② to the vehicle side 12P connector (white) terminal 10.

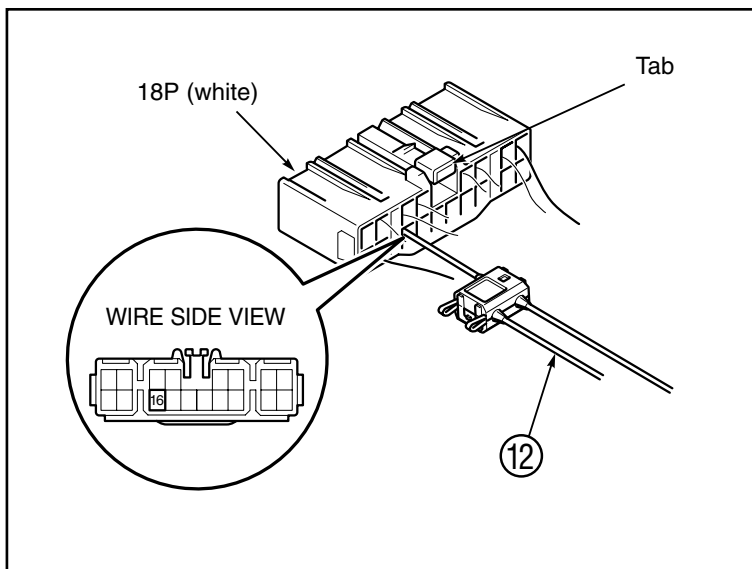


Fig. 22

● SPEED SENSOR CONNECTION

5. Connect the speed sensor wire (violet/ white) ⑫ of the wire harness ② to the vehicle side 18P connector (white) terminal 16.

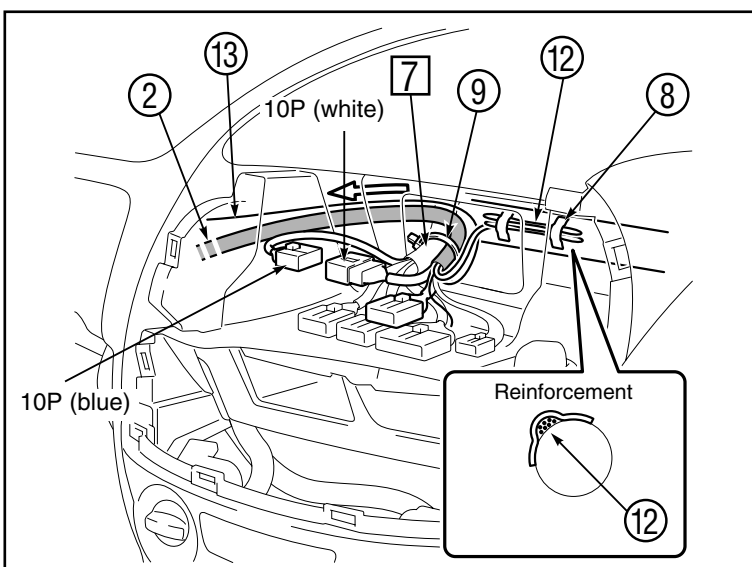


Fig. 23

● WIRE HARNESS ROUTING (Part 2)

6. Connect the wire harness ② 10P connector (white) to the vehicle side 10P connector (blue). Route the reverse sensor wire ⑬ to the back of the glove compartment area. Secure the wire harness ② to the vehicle wire harness ⑦ using the wire tie ⑨. Secure the excess speed sensor wire ⑫ as shown in the illustration using the foam ⑧ (2x).

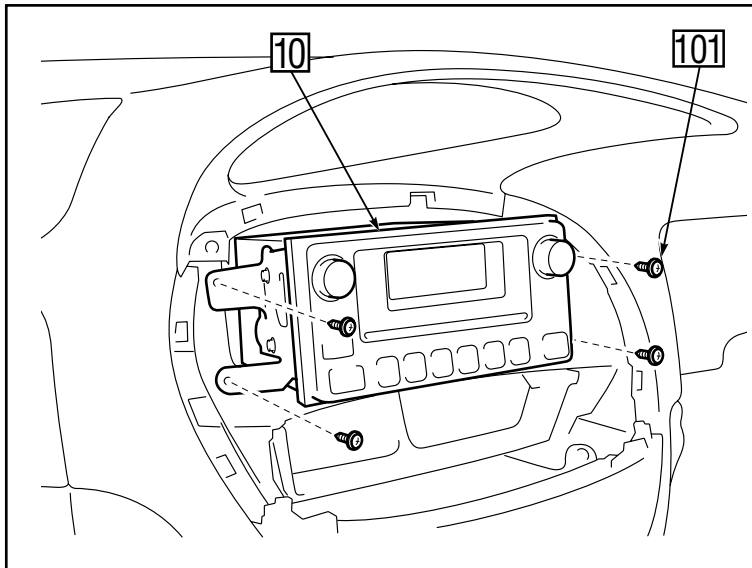


Fig. 24

7. Refit the CD (cassette) tuner with multi display 10.
101: Screw (4x)

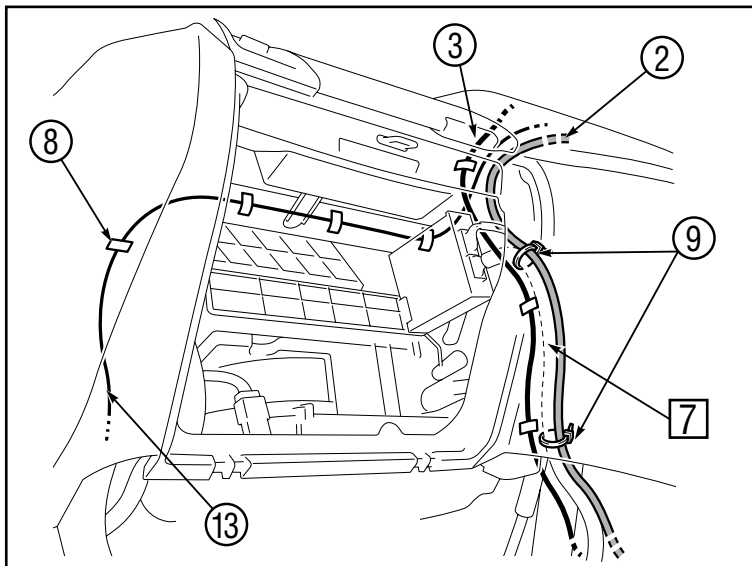


Fig. 25

8. Route and attach the reverse sensor wire 13 as shown in the illustration, using the foam 8 (7x).
Secure the wire harness 2 to the vehicle wire harness 7 using the wire ties 9 (2x).
Route and attach the antenna cord 3 as shown, using the foam 8 (7x).

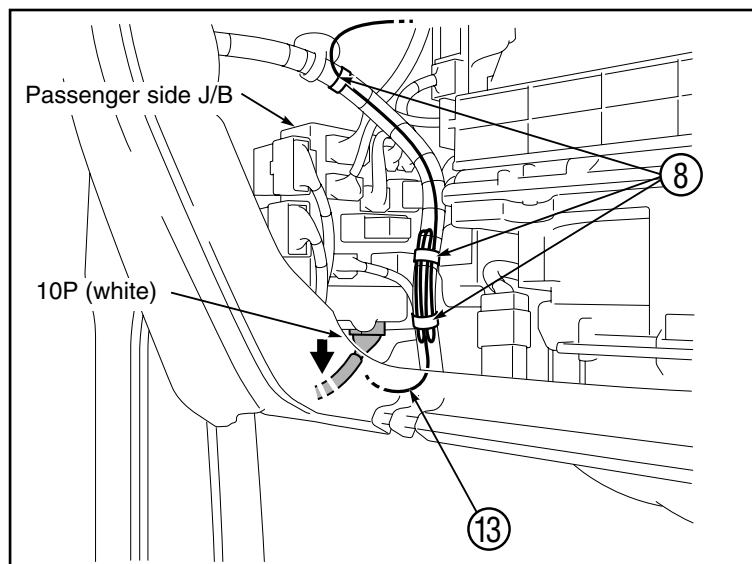


Fig. 26

9. Locate and disconnect the 10P connector (white) in passenger side J/B.
Secure the excess reverse sensor wire 13 using the foam 8 (3x).

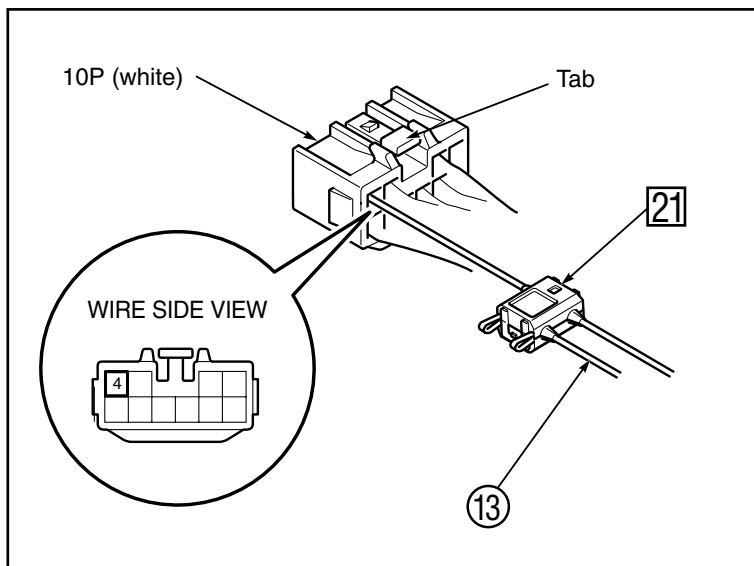


Fig. 27

● REVERSE SENSOR CONNECTION

10. Connect the reverse sensor wire ⑬ (red/ blue) of the wire harness ② to the vehicle side 10P connector (white) terminal 4.

Reconnect the 10P connector (white) to the passenger's side J/B.

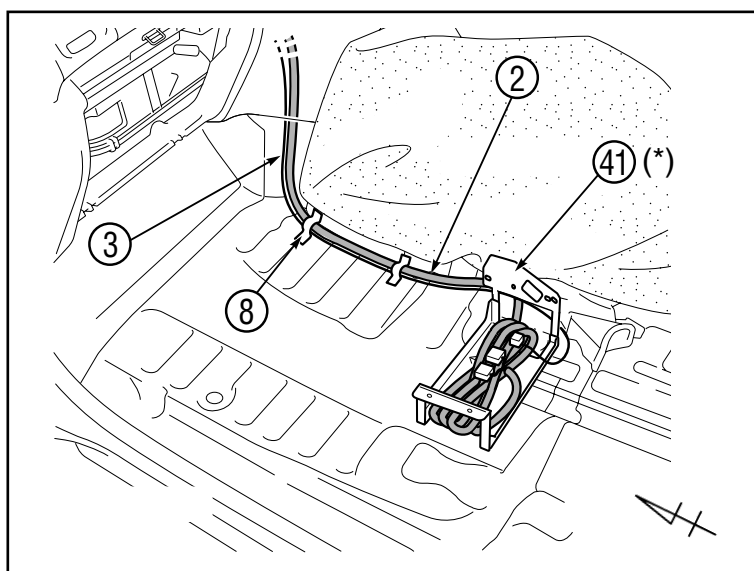


Fig. 28

● WIRE HARNESS ROUTING

11. Route and attach the wire harness ② and antenna cord ③ as shown, using the foam ⑧ (5x).

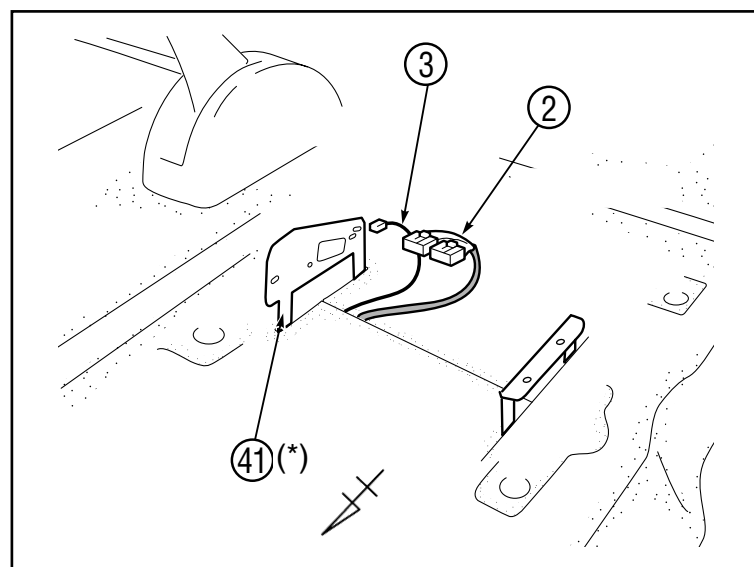


Fig. 29

12. Refit the floor carpet.
Route the wire harness ② and antenna cord ③ through the slit.

(*) Part of the mounting kit PZ425-R0260-60

INSTALLATION OF THE COMPUTER

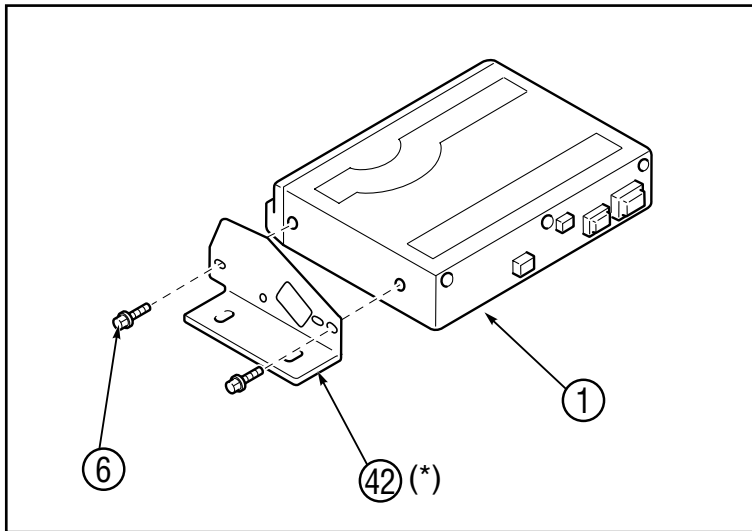


Fig. 30

1. Fit the side bracket ④② (*) to the computer ① using the bolts ⑥ (2x).

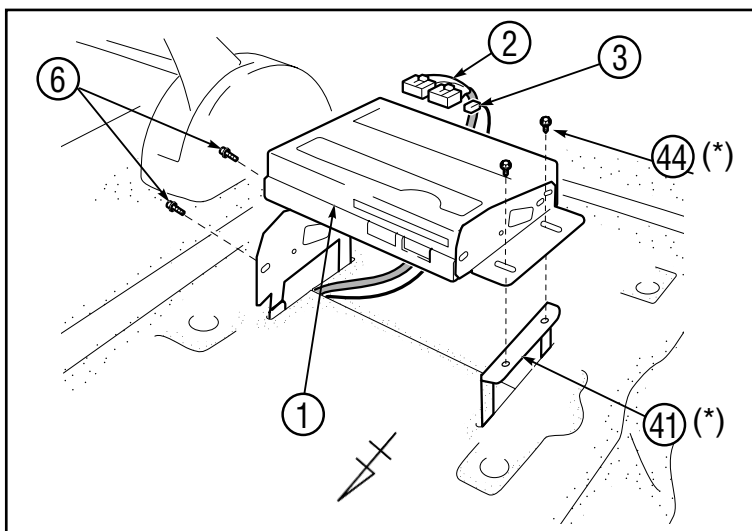


Fig. 31

2. Connect the 1P connector (antenna) ③, 8P and 13P connector (wire harness) ② to the computer ①.
Fix the computer to the mounting bracket ④① (*) using the bolts.
④④: Bolt (2x)

(*) Part of the mounting kit PZ425-R0260-60

INSTALLATION OF NAVIGATION DISC

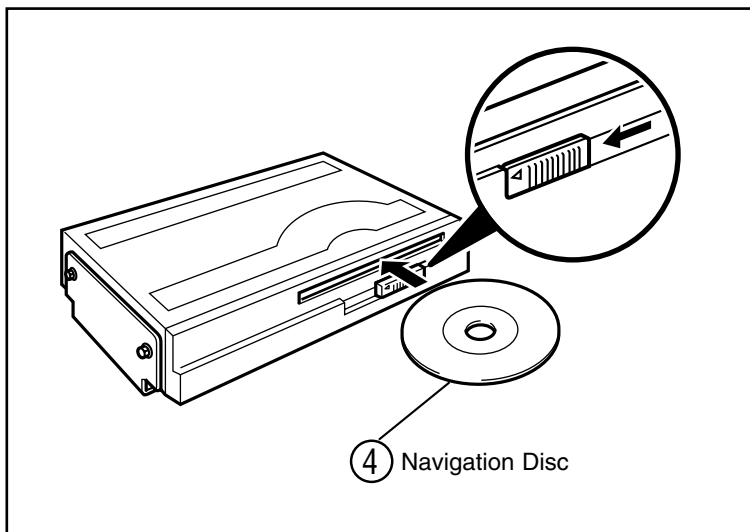


Fig. 32

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 ④ 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 TNS 200 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 TNS 200 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.

REFIT THE TRIM AND REMOVED PARTS.

