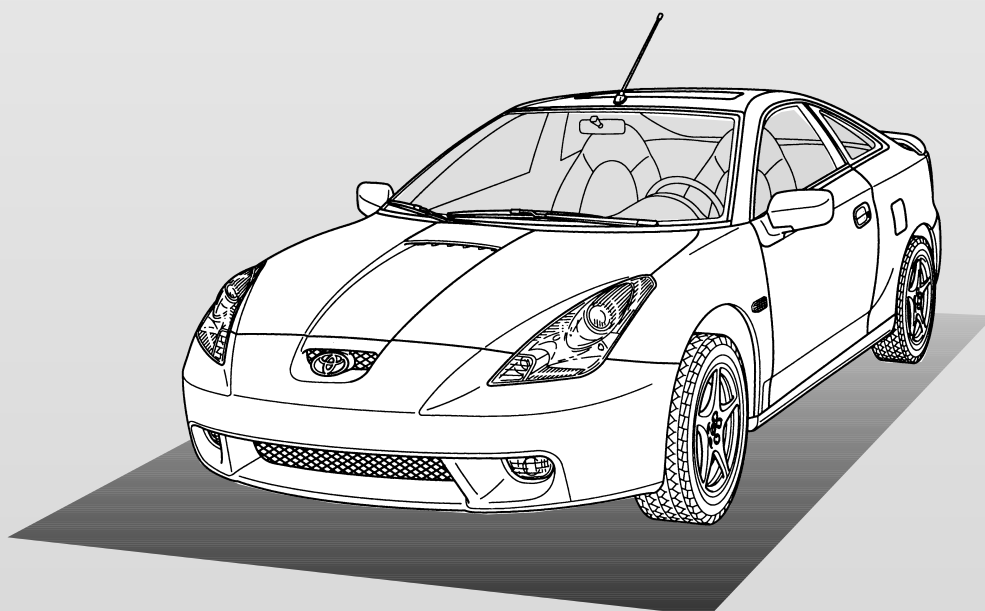


 **TOYOTA**

TNS 500

TOYOTA NAVIGATION SYSTEM



CELICA

INSTALLATION INSTRUCTIONS

FOR **T23**R

PART NUMBER

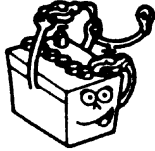
NAVIGATION KIT PART N°

08545-00803

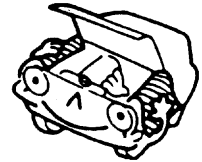
PRECAUTIONS

PLEASE READ THOROUGHLY THESE PRECAUTIONS BEFORE THE INSTALLATION

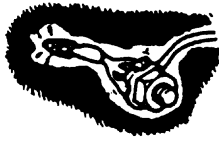
- Be sure to disconnect the negative (-) lead from the battery terminals.



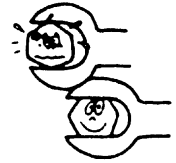
- Protect your car with fender covers, seat and so on.



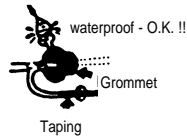
- Do not pinch the rear wiring or harness in the tightened part.



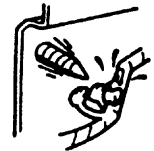
- Use the correct tool when tightening bolts or nuts.



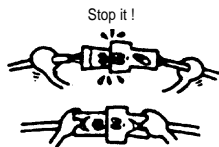
- When passing the wires through the dashboard or other panels, use a grommet to ensure waterproofing.
- Protect the wiring with tape when it is passed through a hole.



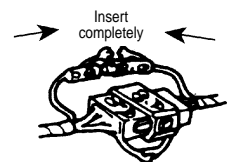
- Before drilling a hole, check that the rear of the mounting wall is clear.



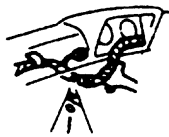
- When disconnecting the connectors, be sure to grip the connector body. Do not tug on the wiring.



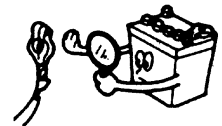
- Be sure to firmly tighten connectors and terminals.



- 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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REQUIRED PARTS/SUBKITS 

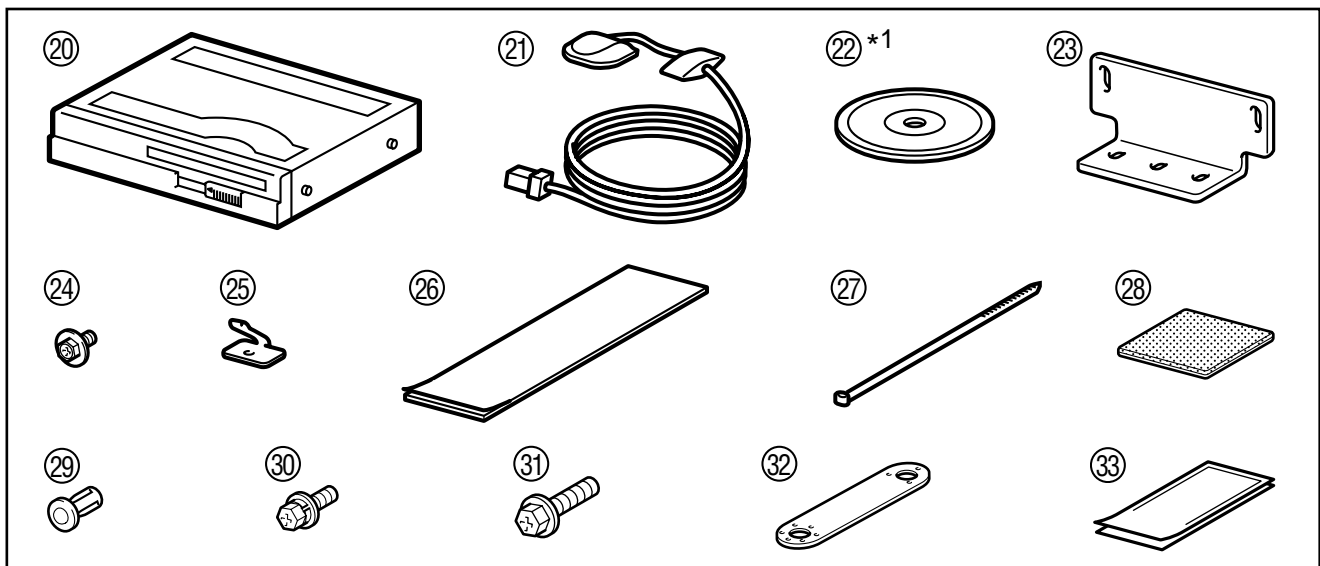
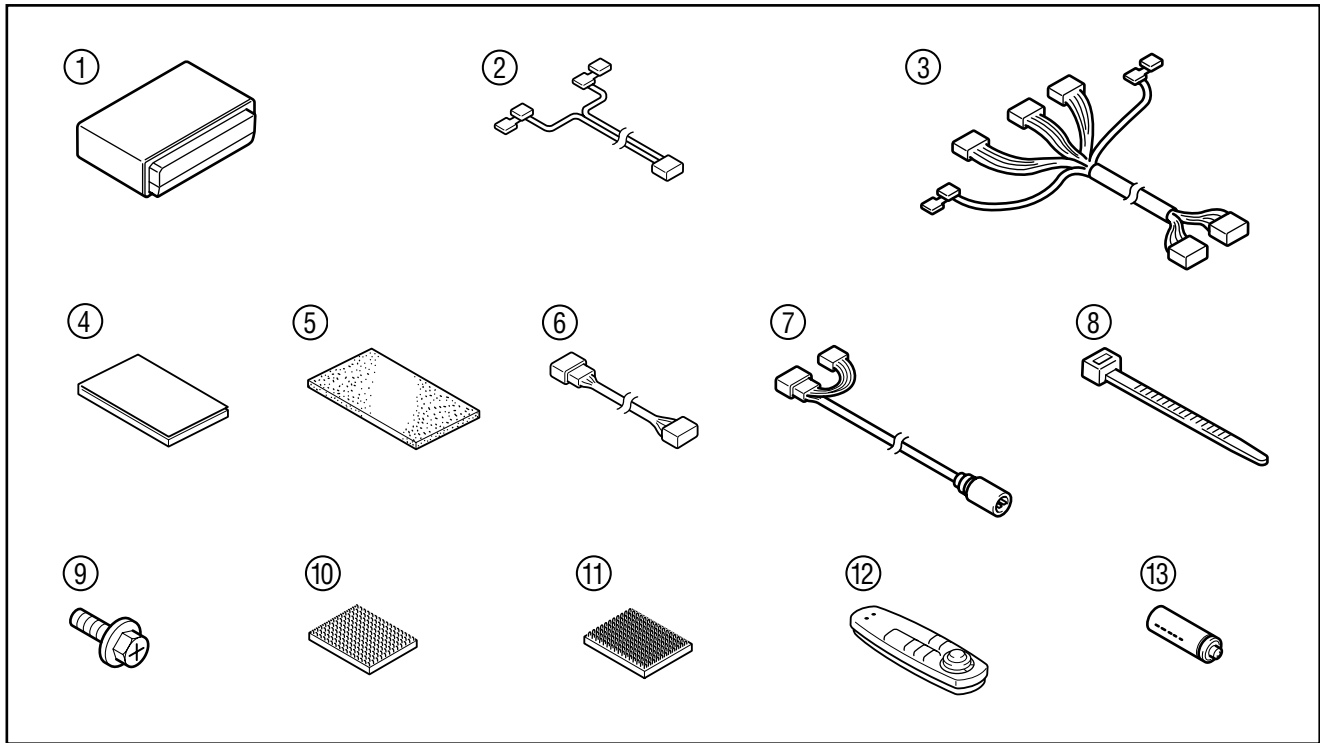
COMBINATION	HEAD UNIT	ADD ON UNITS		NECESSARY PARTS
		CD-CHANGER	NAVIGATION-ASSY	
Radio/Cassette + Navigation	TF4301 (08600-00922) or TM4000 (08600-00888)		08545-00803	-
	18401 (86100-20510) or 58408 (86100-60080)		08545-00803	-
Radio/Cassette + CD-Changer + Navigation	TF4301 (08600-00922) or TM4000 (08600-00888)	TM0461 (08601-00879)	08545-00803	W/H (08695-00260)
	18401 (86100-20510) or 58408 (86100-60080)	TM0461 (08601-00879)	08545-00803	W/H (08695-00260)

NAVIGATION SYSTEM ASSY 

No.	Description / Description	Qty
①	MONITOR	1
②	W/H SUB-ASSY	1
③	WIRE HARNESS	1
④	TAPE	5
⑤	FOAM TAPE	3
⑥	W/H SUB-ASSY	1
⑦	W/H SUB-ASSY	1
⑧	WIRE TIE	15
⑨	SCREW (M5 x 8)	4
⑩	VELCRO (Yellow)	2
⑪	VELCRO (Blue)	2
⑫	REMOTE CONTROL	1
⑬	STORAGE BATTERY	2

⑳	COMPUTER	1
㉑	GPS ANTENNA	1
㉒*1	NAVIGATION DISC	1
㉓	COMPUTER BRACKET	2
㉔	SET BOLT (M5 x 8)	4
㉕	CORD CLAMP	6
㉖	TAPE	2
㉗	WIRE TIE	6
㉘	EARTH PLATE	1
㉙	ANCHOR BOLT	4
㉚	BOLT (M5 x 16)	4
㉛	BOLT (M5 x 20)	1
㉜	HOLD BRACKET	1
㉝	ADHESIVE TAPE	3

*1: NAVIGATION DISC (CD-ROM) ㉒ is not included in the navigation kit.



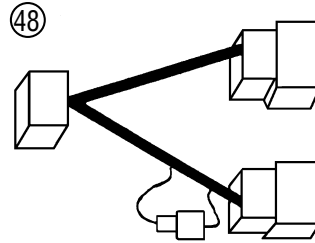
*1: NAVIGATION DISC (CD-ROM) ② is not included in the navigation kit.

Note :

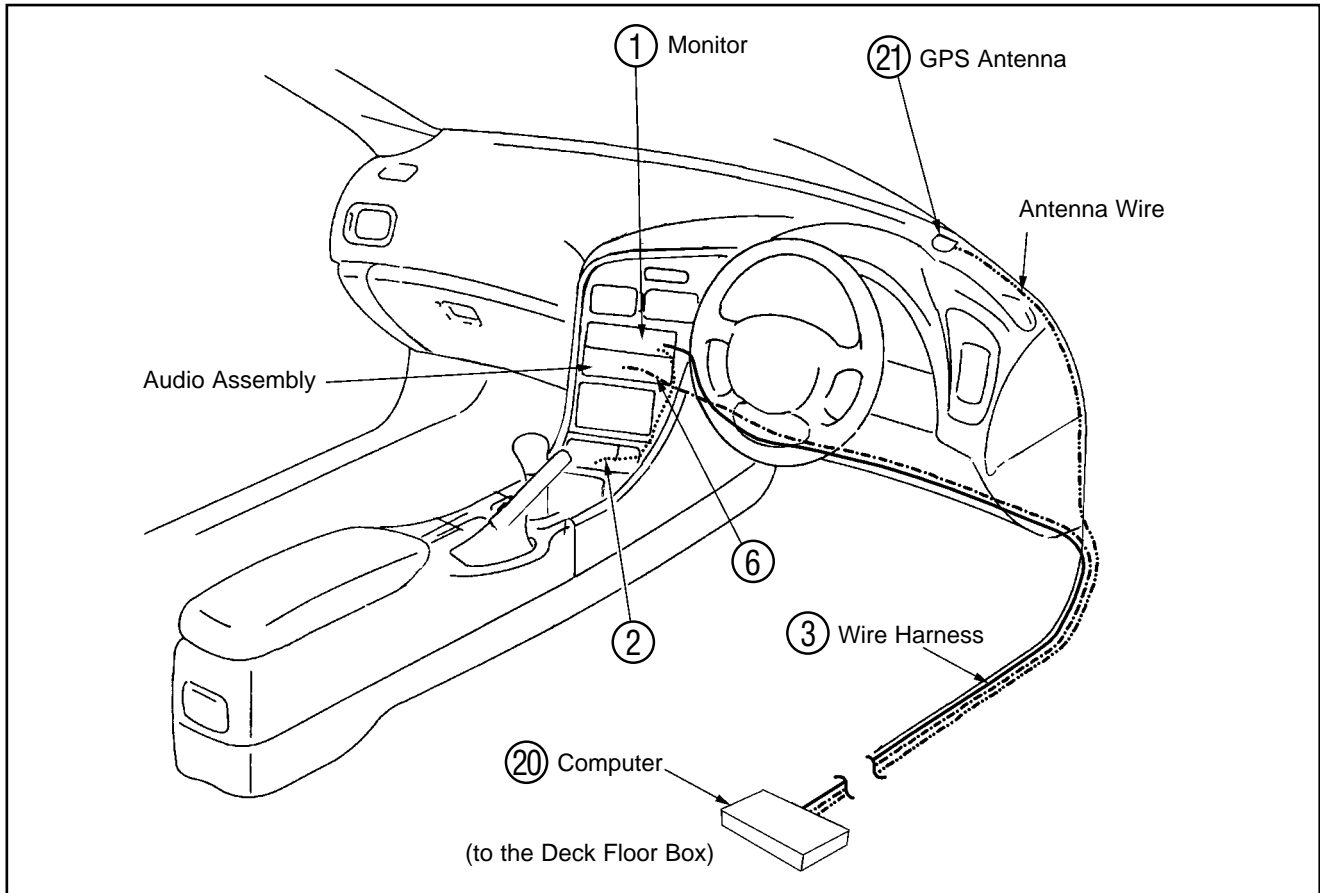
In cases where the CD-Changer is installed together with the navigation system, the wire harness n° 08695-00260 is needed (See page 7).
The wire harness is not included in the navigation kit.

WIRE HARNESS **08695-00260**

For CD- and MD-Changer only



INSTALLATION OVERVIEW

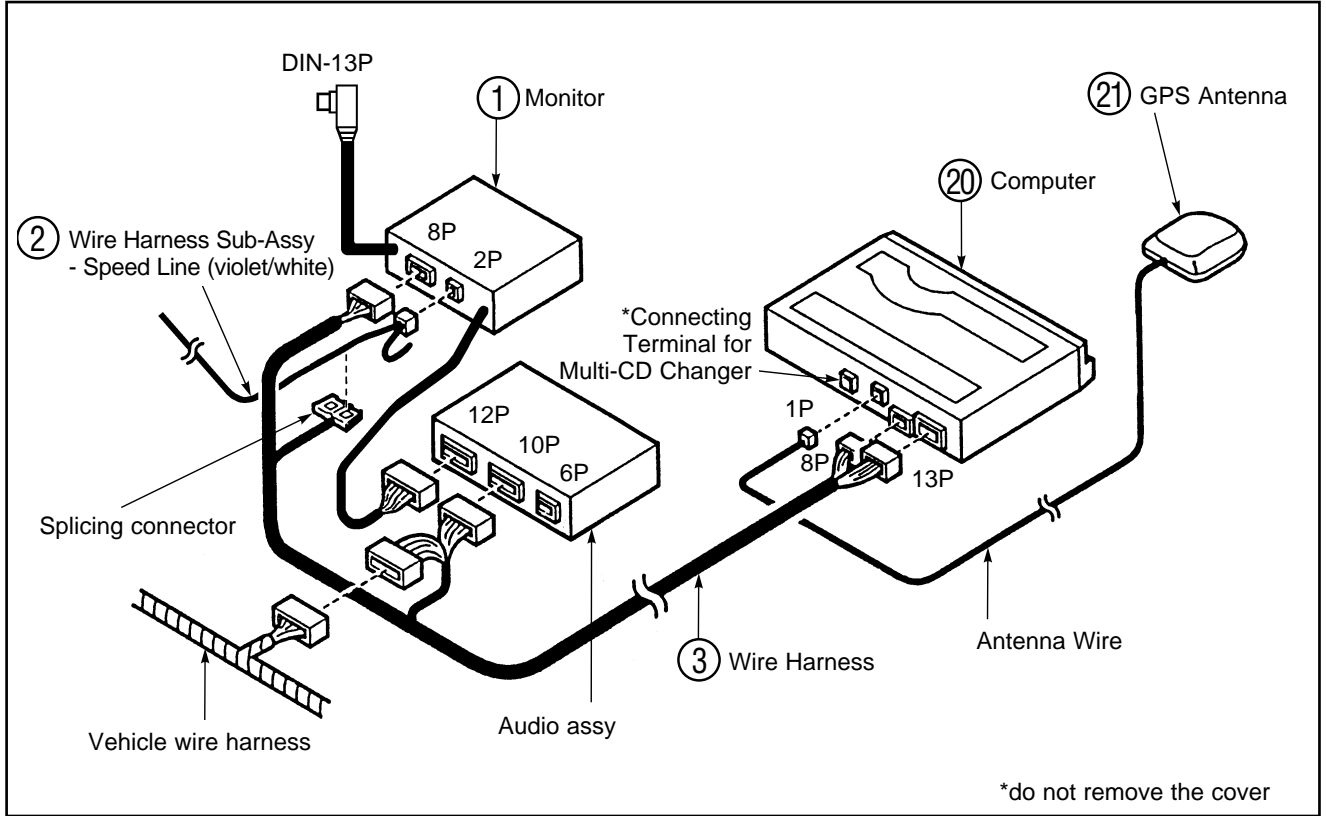


- ② WIRE HARNESS SUB-ASSY - SPEED LINE (VIOLET/WHITE)
- ③ WIRE HARNESS
- - - - - ANTENNA WIRE
- - - - - ⑥ WIRE HARNESS REVERSE SENSOR WIRE (RED/BLUE)

HOW TO CONNECT

GENERAL OUTLINE (Audio with AVC-LAN)

Refer to the repair manual for information on removal of vehicle parts, installation methods, torque and so forth.



The wire harness connection depends on the type of audio; for more details see pages 10 - 11 - 12.

Note : CD-Changer installation

To connect the CD-Changer an additional subwire harness (08695-00260) is required. See page 7.

FUJITSU TEN AUDIO UNIT (WITH AVC-LAN)

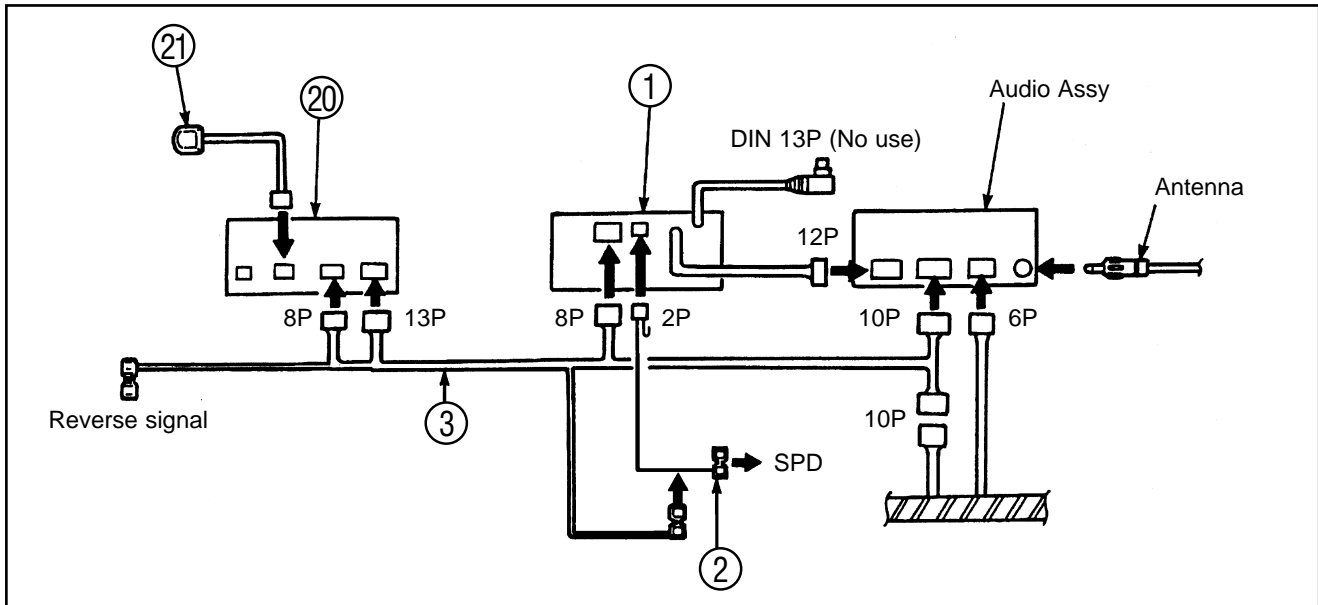


DETAILED CONNECTION OUTLINE

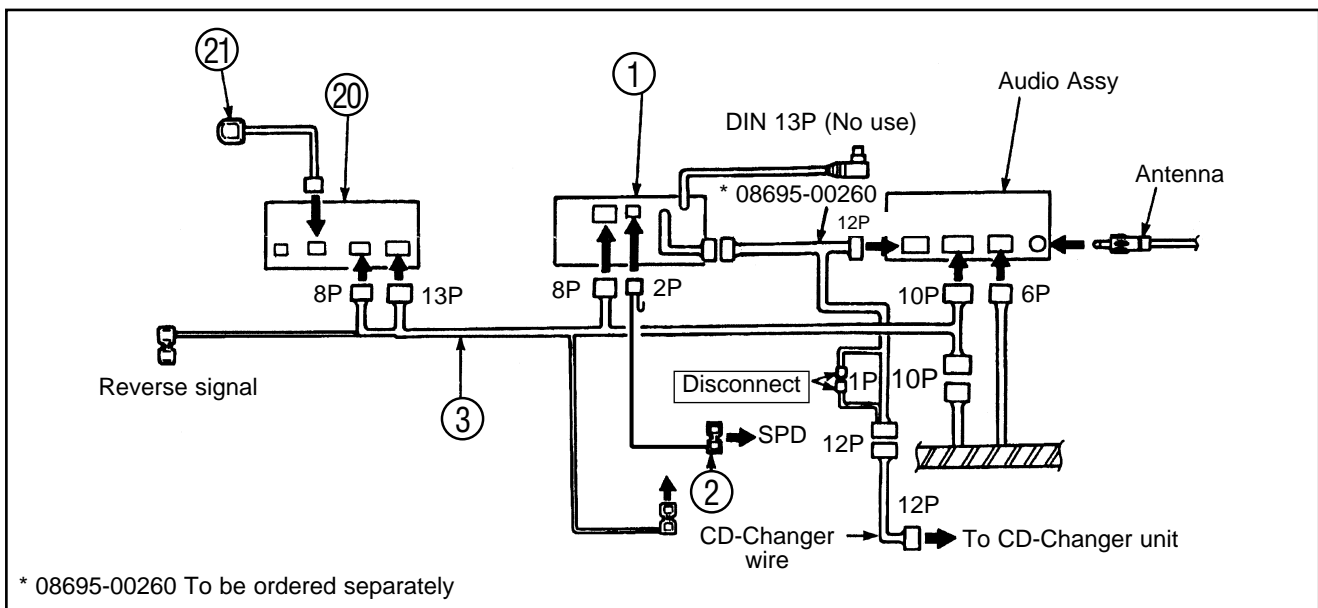
- Audio Unit Application

Audio Assy	CD-Changer
18401	TM0461
TF4301	

AUDIO ASSY + NAVIGATION SYSTEM



AUDIO ASSY + NAVIGATION SYSTEM + CD-CHANGER



* 08695-00260 To be ordered separately

MATSUSHITA AUDIO UNIT (WITH AVC-LAN)

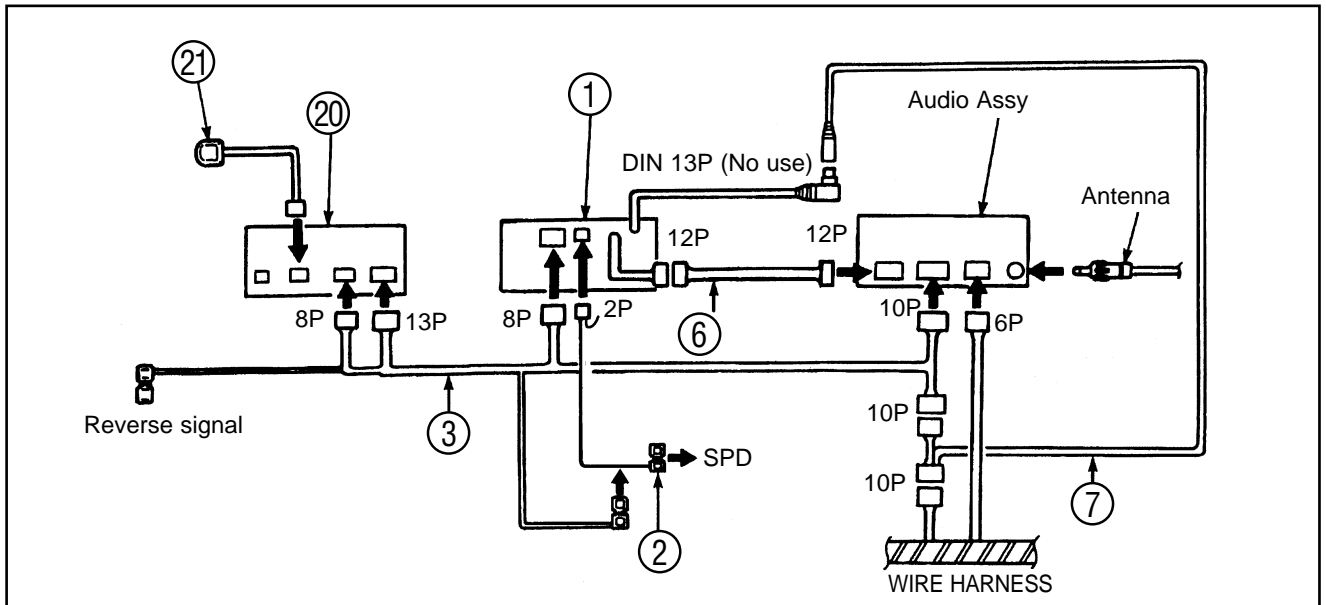


DETAILED CONNECTION OUTLINE

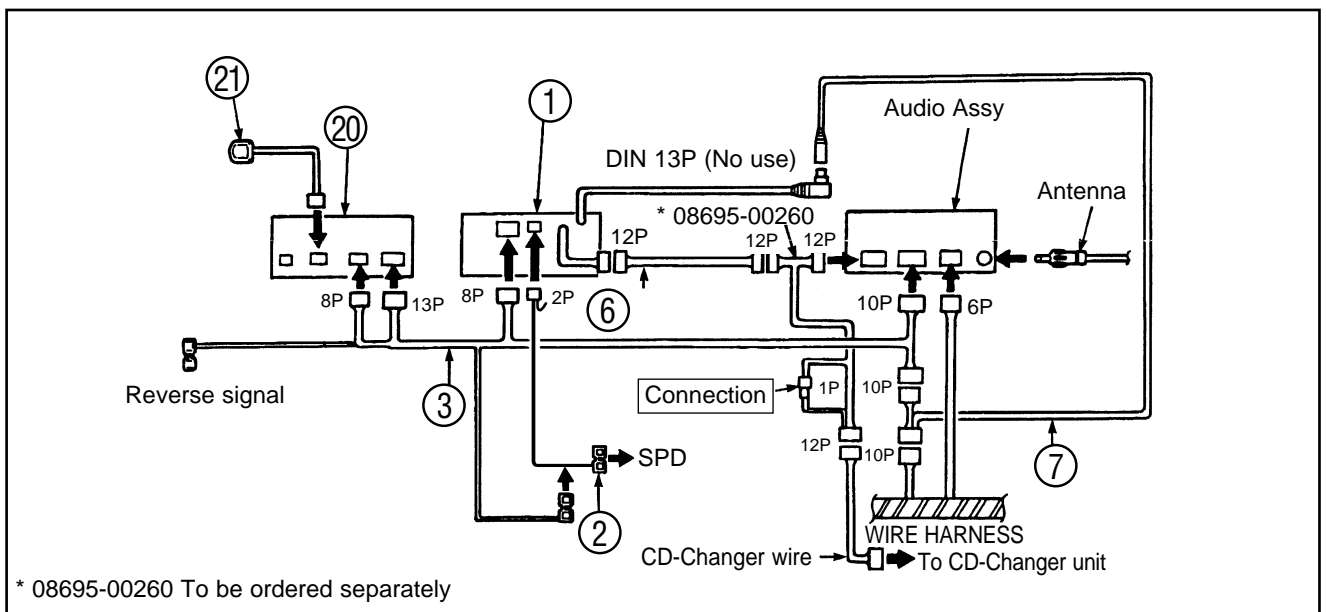
- Audio Unit Application

Audio Assy	CD-Changer
58408	TM0461
TF4301	
TM4000	

AUDIO ASSY + NAVIGATION SYSTEM



AUDIO ASSY + NAVIGATION SYSTEM + CD-CHANGER



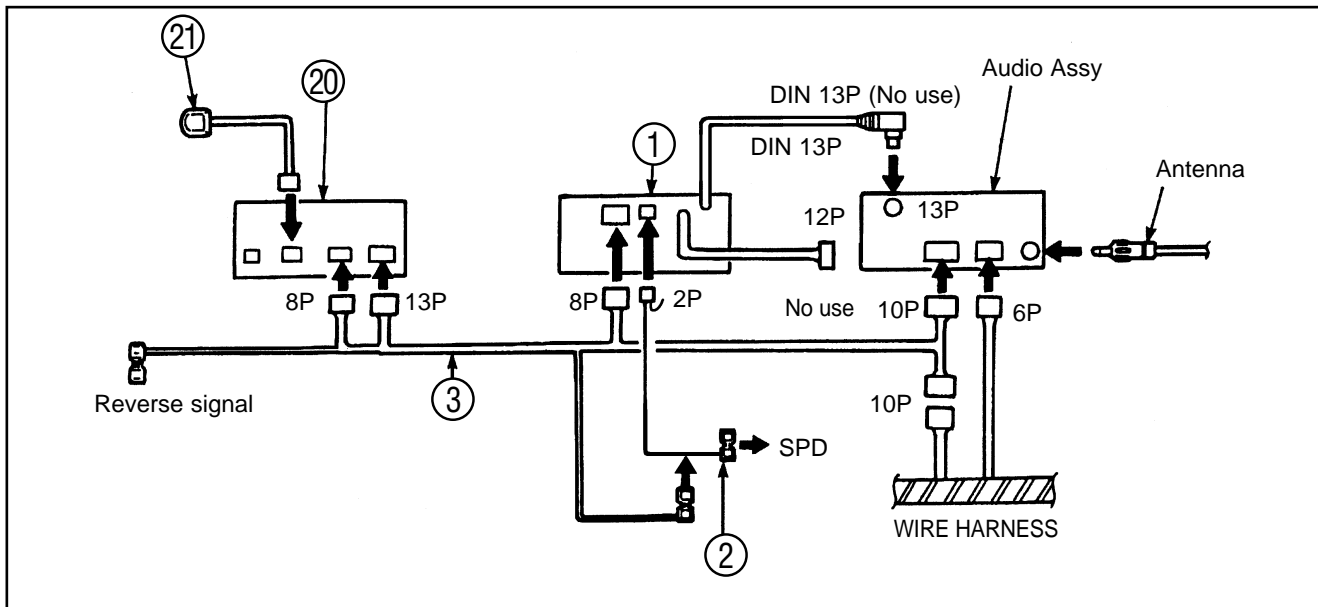
AUDIO UNITS WITH 13PIN CONNECTOR (WITHOUT AVC-LAN)

DETAILED CONNECTION OUTLINE

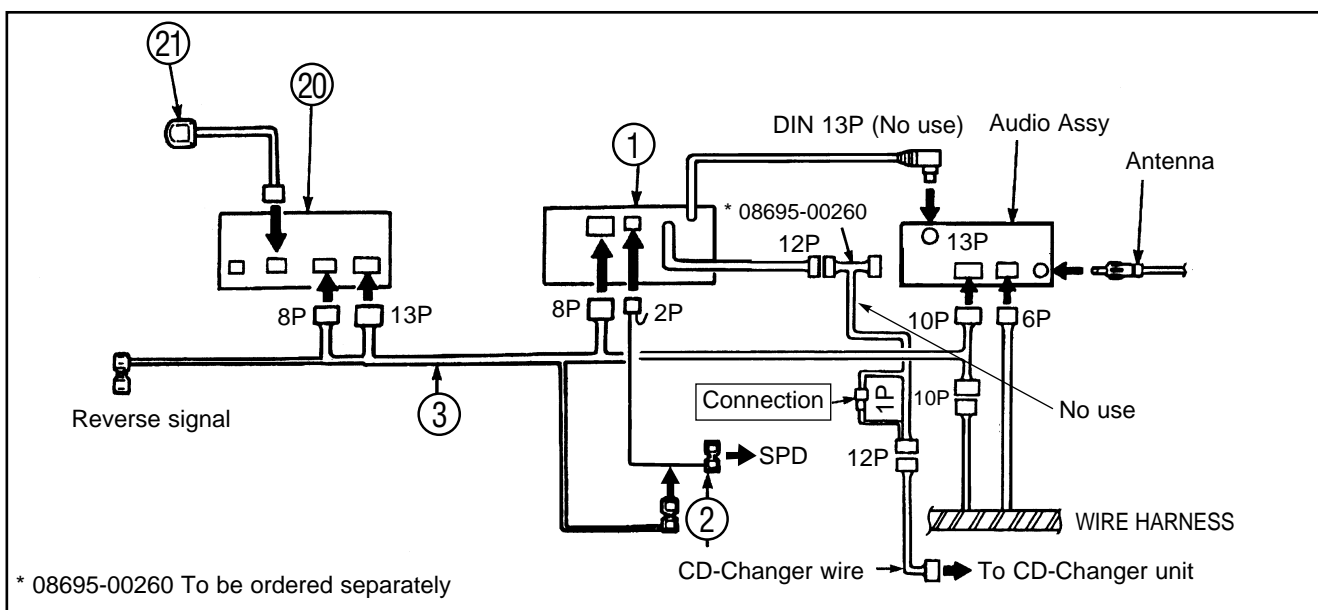
- Audio Unit Application

Audio Assy	CD-Changer
MOP Radio without AVC	TM0461

AUDIO ASSY + NAVIGATION SYSTEM

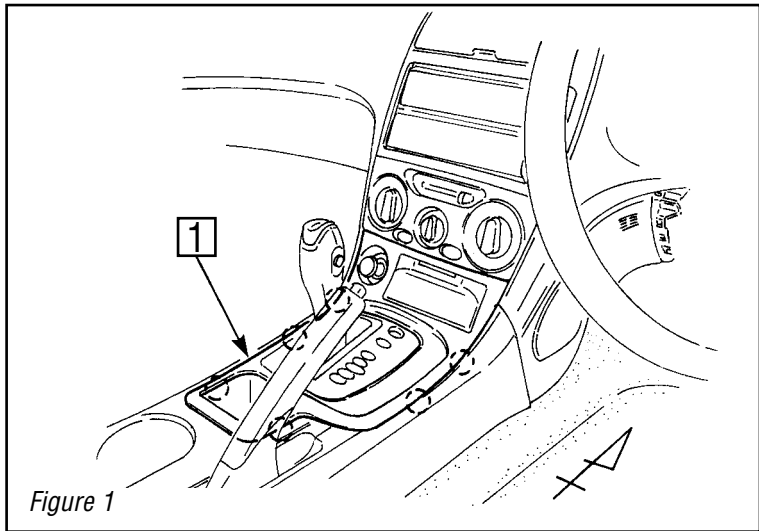


AUDIO ASSY + NAVIGATION SYSTEM + CD-CHANGER



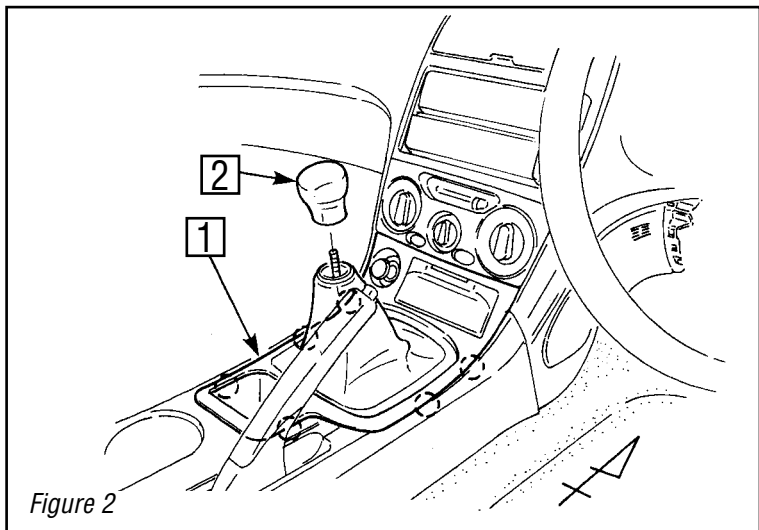
* 08695-00260 To be ordered separately

VEHICLE DISASSEMBLY 



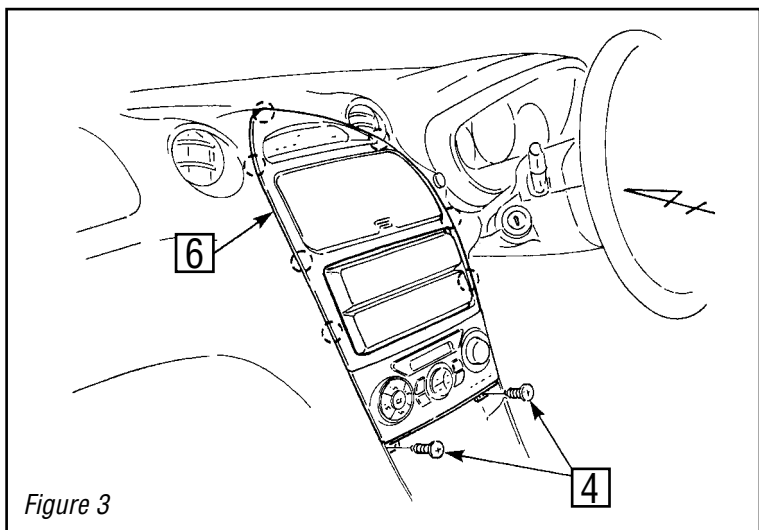
FOR A/T MODELS

1. Remove the console panel **1**.



FOR M/T MODELS

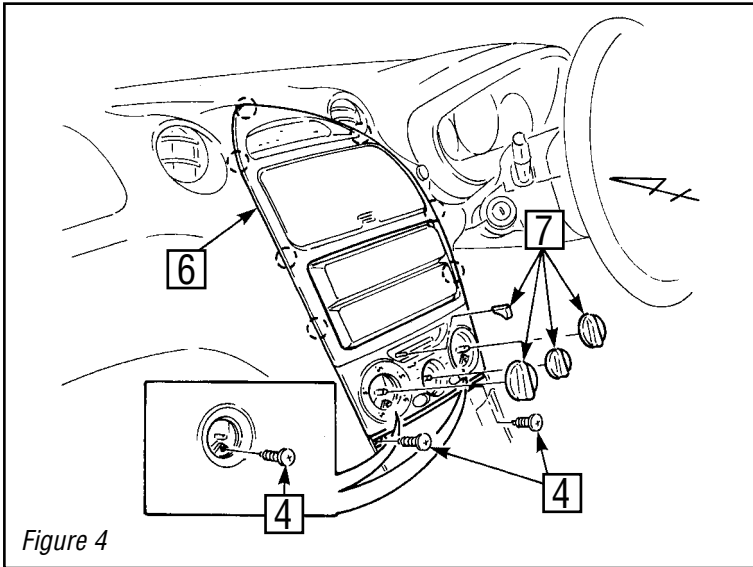
1. Remove the shift knob **2** and console panel **1**.



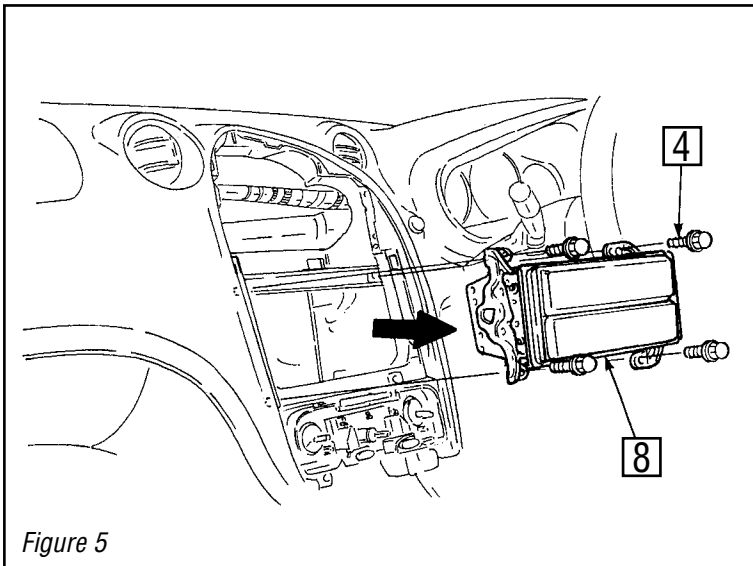
FOR VEHICLES WITH AUTO AIR CONDITIONER

2. Remove the center cluster **6**.
4 : Screws (2x)

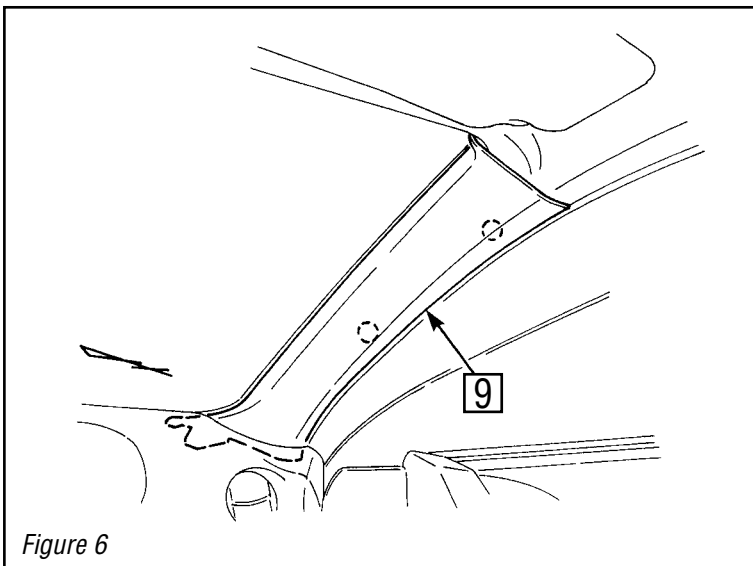
**FOR VEHICLES WITH MANUAL AIR
CONDITIONER**



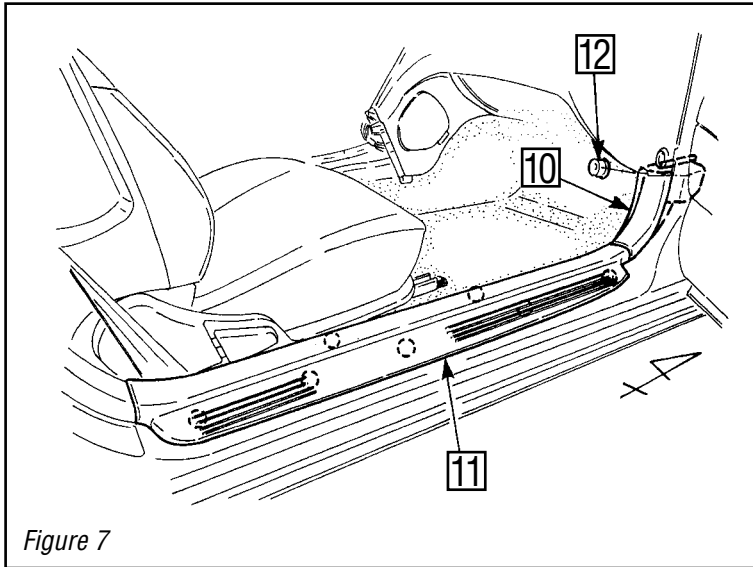
2. Remove the heater control knobs **7** and center cluster **6**.
4 : Screws (2x)



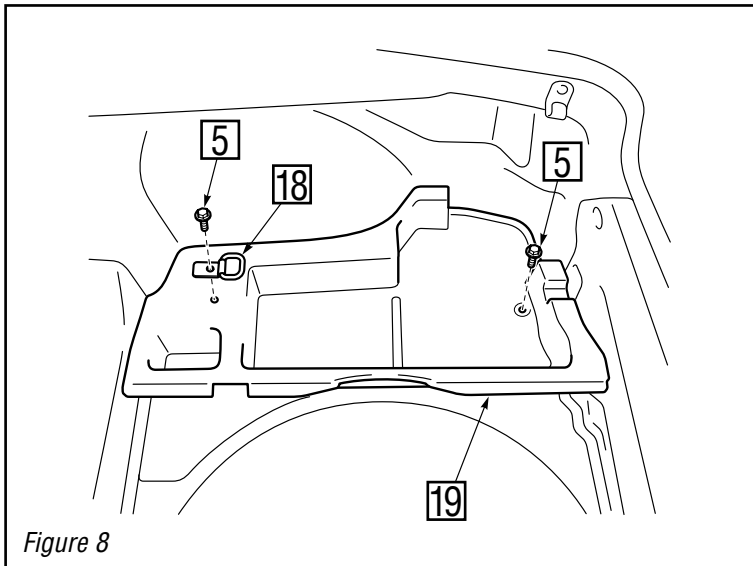
3. Remove the covers **8**.
4 : Bolts (4x)



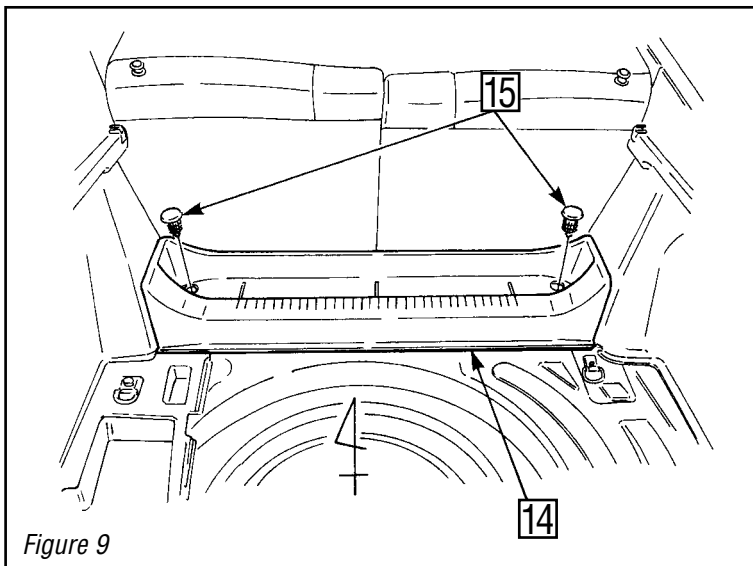
4. Remove the front pillar garnish RH **9**.



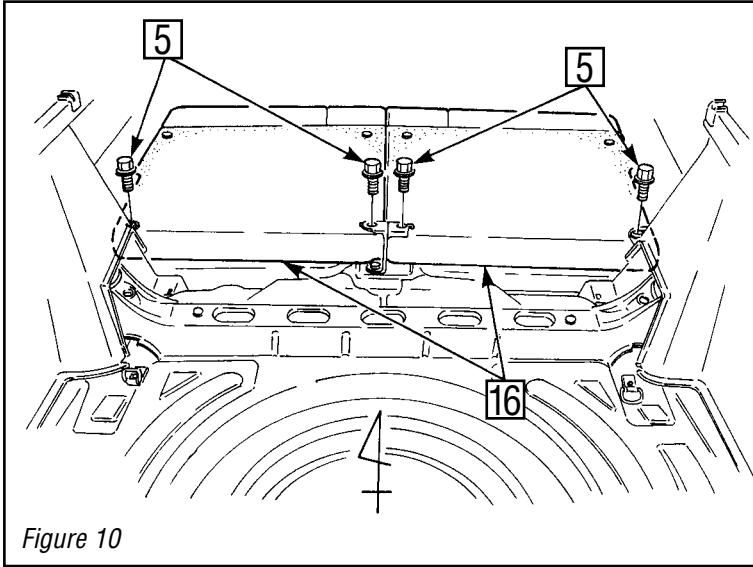
5. Remove the cowl side panel (RH) 10 and front door scuff plate (RH) 11.
 12 : Nut



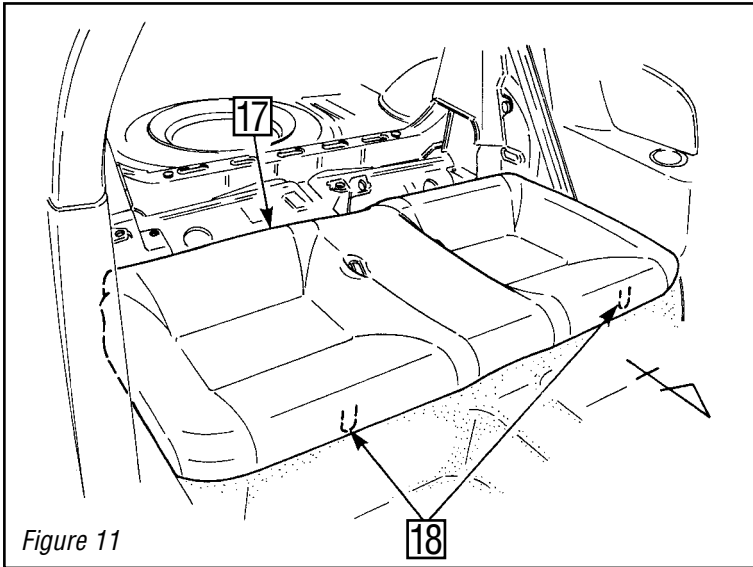
6. Remove the deck floor box (RH) 19.
 18 : Hook
 5 : Bolts (2x)



7. Remove the luggage front box 14.
 15 : Clips (2x)

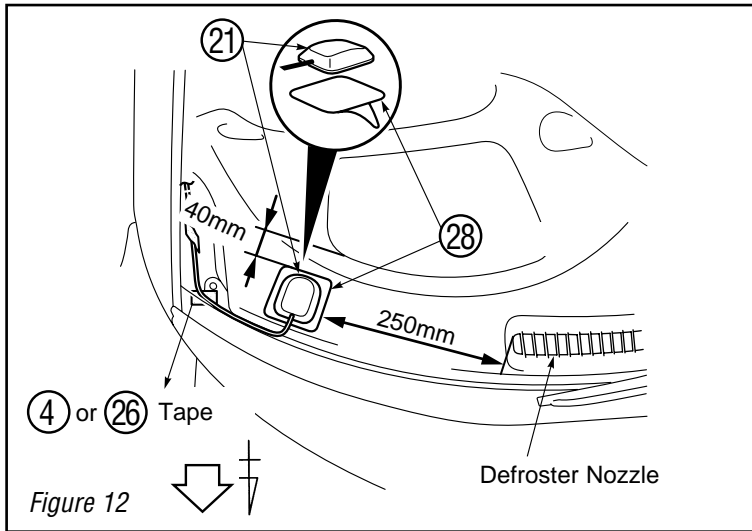


8. Remove the rear seat back **16**.
5 : Bolts (4x)



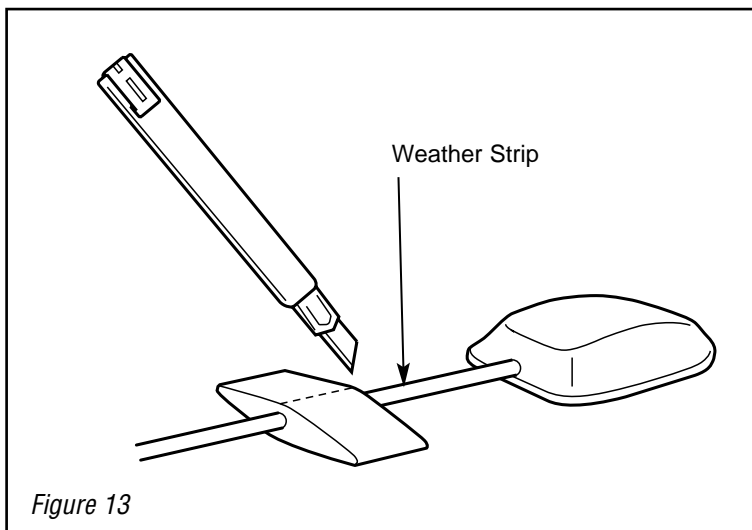
9. Remove the rear seat cushion **17**.
18 : Hooks (2x)

INSTALLATION OF THE GPS-ANTENNA



1. Affix the earth plate ⑳ at the location shown in the diagram and mount the antenna ㉑ earth plate ㉒.

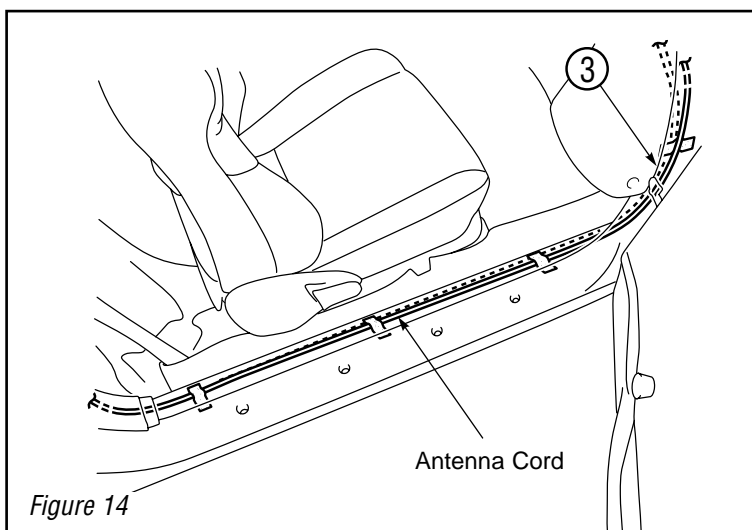
CAUTION: When affixing the earth plate ㉒ make sure to carefully wipe off any dirt, moisture or oil from the surface of the location where it is to be affixed.



2. Using a cutter knife, cut off the weather strip.

CAUTION: Be careful not to damage the antenna cord.

3. Wrap the tape ㉒ around the antenna cord, and run the wire between the windshield and instrument panel. (For the cut of tape ㉒, see page 20).



4. Wire the antenna cord to the computer ㉓ along with wire harness ㉔ as shown in the left figure.

CAUTION: Tape the tip of the screwdriver to protect, and insert the antenna cord with the screwdriver.

CAUTION: To insert the antenna cord between the wind shield and instrument panel, use minus screwdriver mentioned above.

WIRE HARNESS INSTALLATION

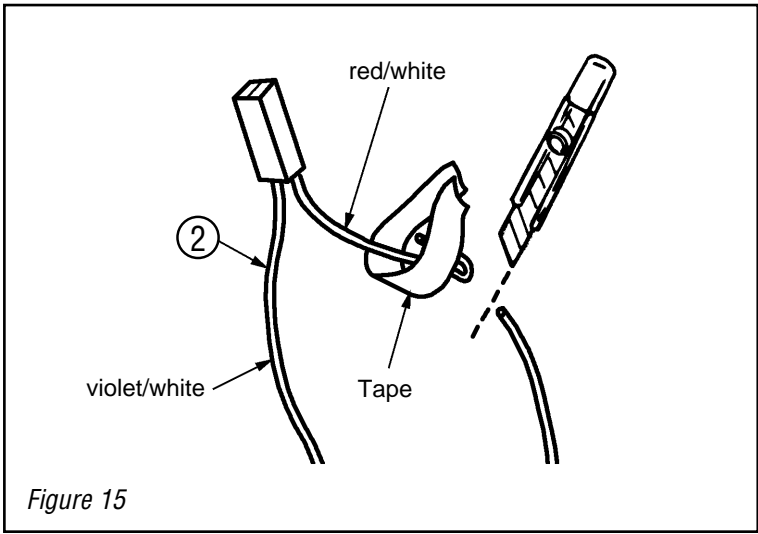


Figure 15

SPEED (SPD) SENSOR WIRE (TO MONITOR ①) INSTALLATION

1. Take the wire harness sub assy ② and cut and tape the red/white wire.

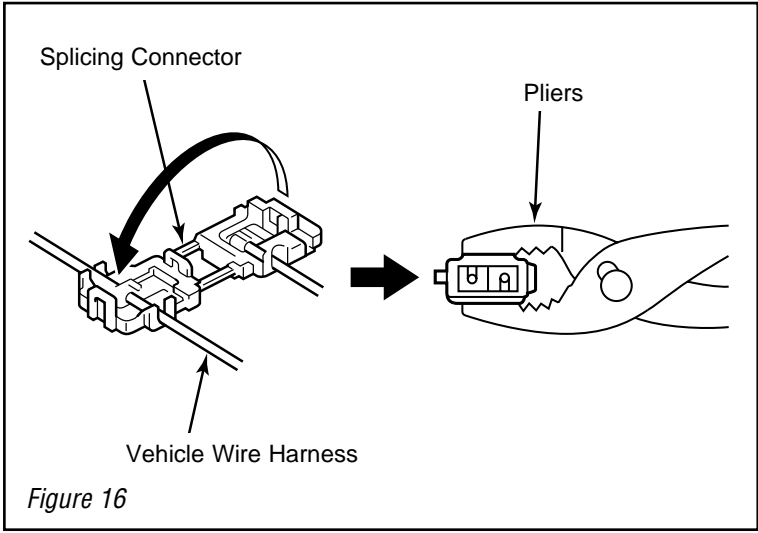


Figure 16

2. Make a splicing connector as shown in the left figure.

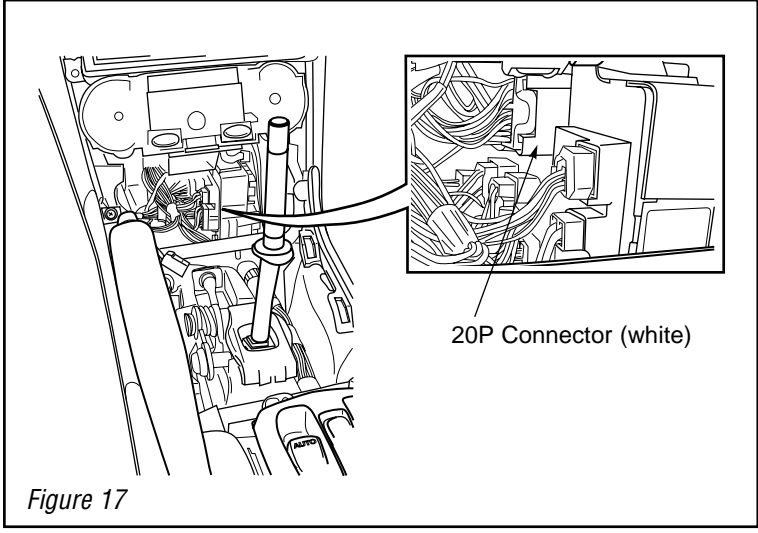
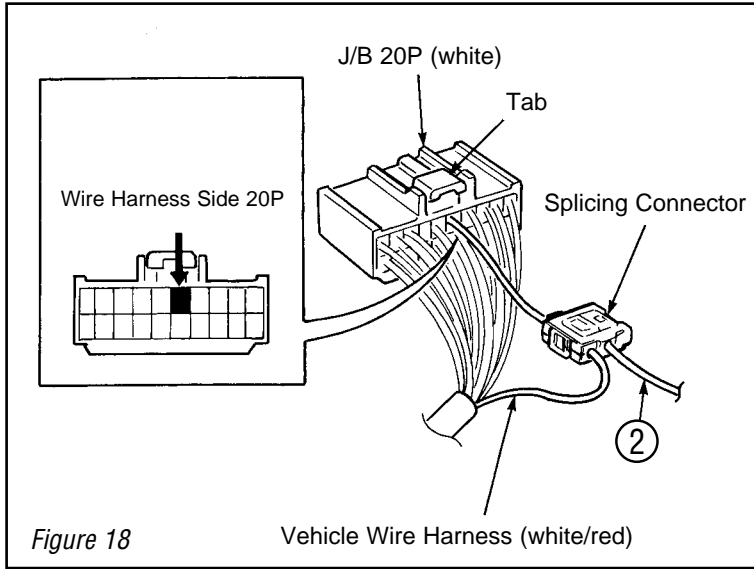
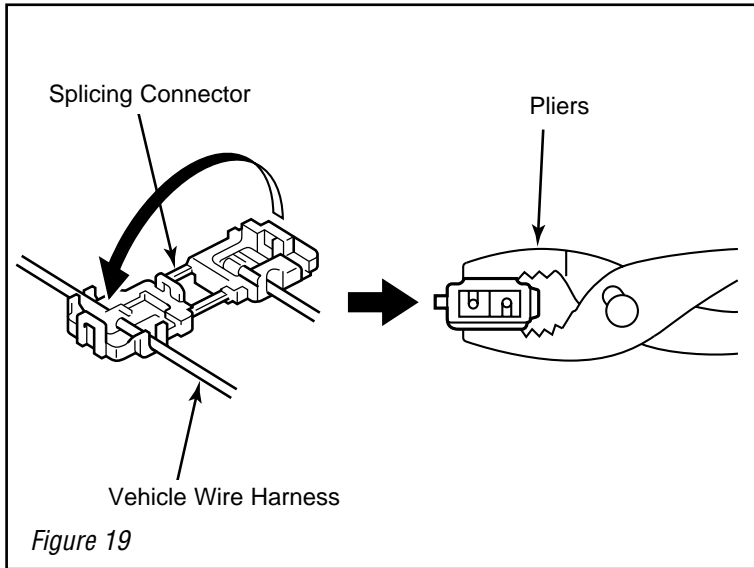


Figure 17

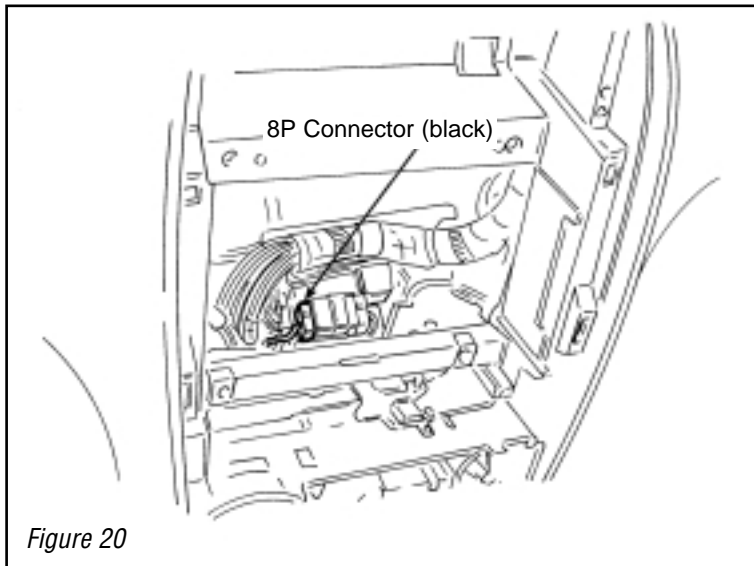
3. Locate and disconnect the 20P connector from the center J/B.



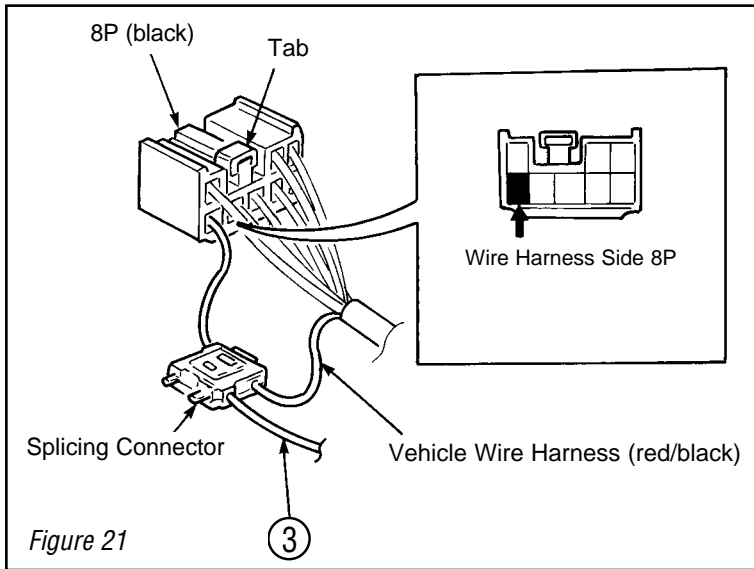
4. Turn the 20P connector so the wires face you and the connector's tab is on top.
5. Locate the wire in the top row, fifth position from the right.
6. Using a splicing connector, attach the wire harness sub-assembly ② speed sensor wire (violet/white) to the vehicle wire.
7. Route the speed sensor wire ② (violet/white) to the audio opening.



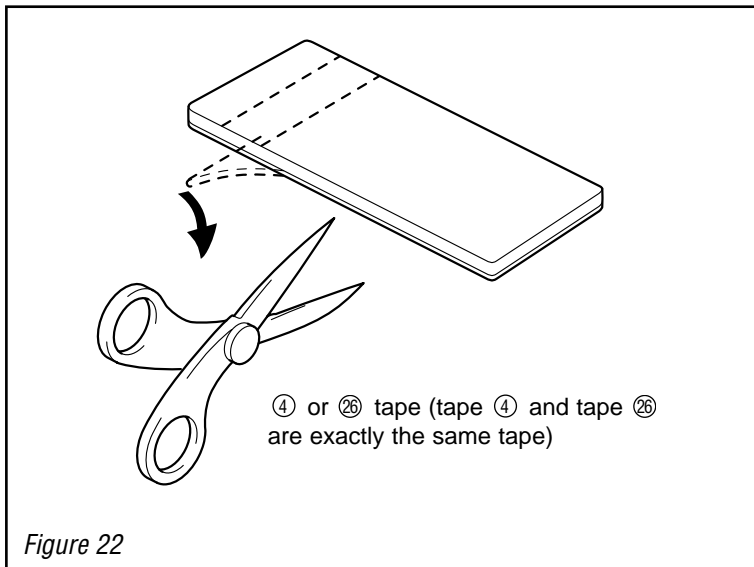
REVERSE SENSOR WIRE INSTALLATION



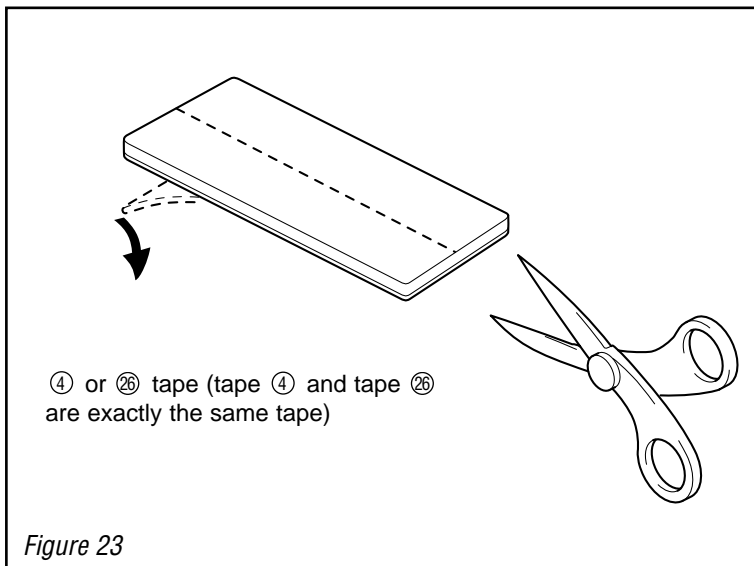
1. Locate and disconnect the 8P connector (black) at the top of the center J/B.



2. Turn the 8P connector so the wires face you and the tab is on top.
3. Locate the wire in the bottom row, first position from the left.
4. Using a splicing connector, attach the reverse sensor wire ③ (red/blue) to the vehicle wire.



5. Cut the tape ④ (or ②⑥) into 10 equal sized pieces.



6. Cut one tape ④ (or ②⑥) into 2 equal sized pieces.

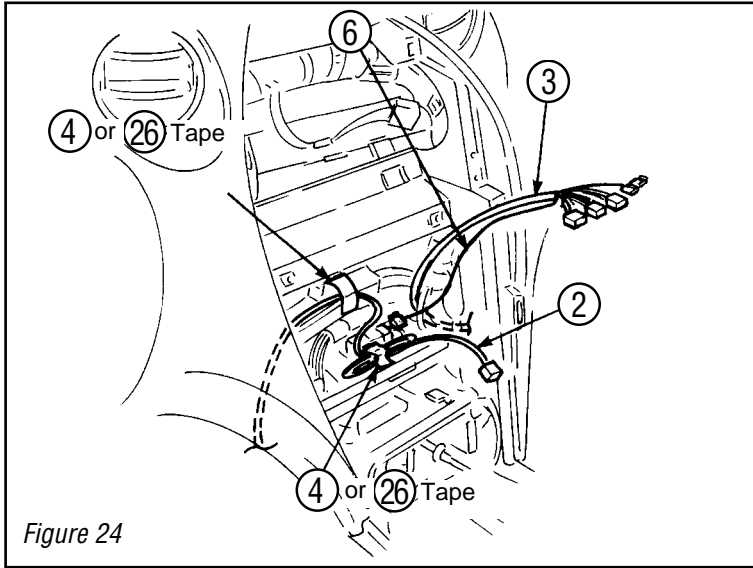


Figure 24

WIRE HARNESS ③ AND WIRE HARNESS SUB-ASSEMBLY ② INSTALLATION

1. Route the wire harness ③ and the wire harness sub-assembly ② as shown in the left figure.
2. Secure the speed sensor wire (violet/white) of the wire harness sub-assembly ② with the tape ④ (or ⑳).

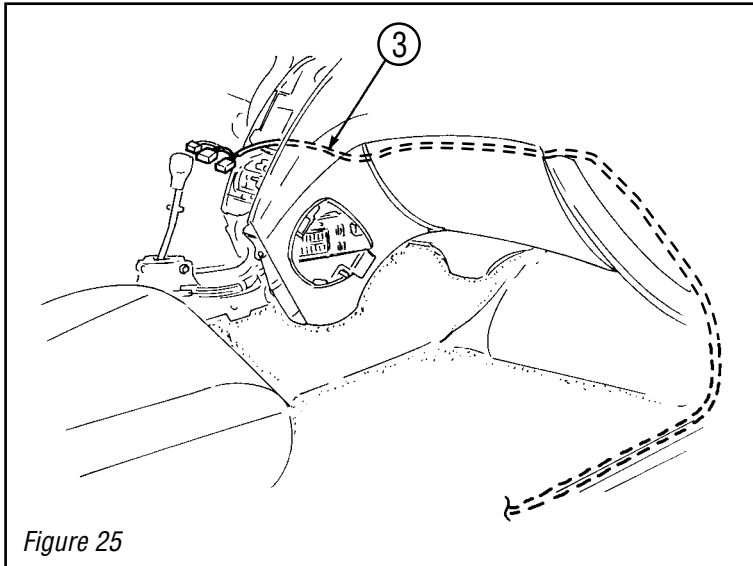


Figure 25

3. Route the wire harness ③ as shown the left figure.

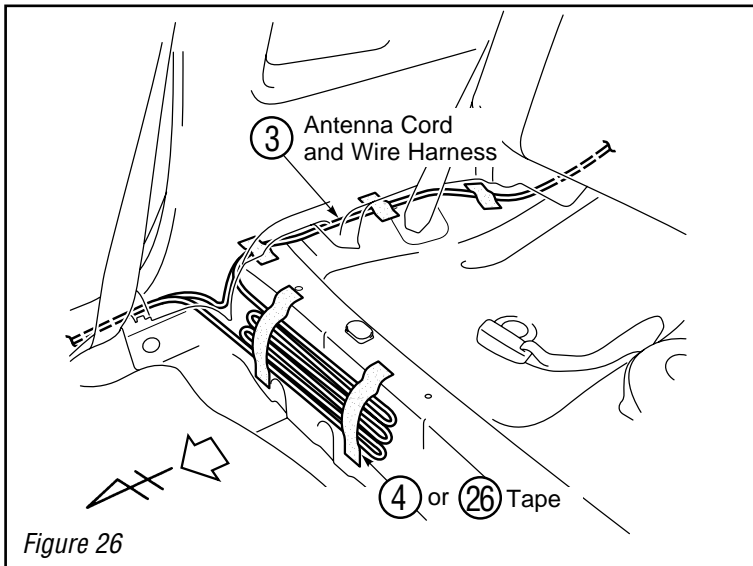
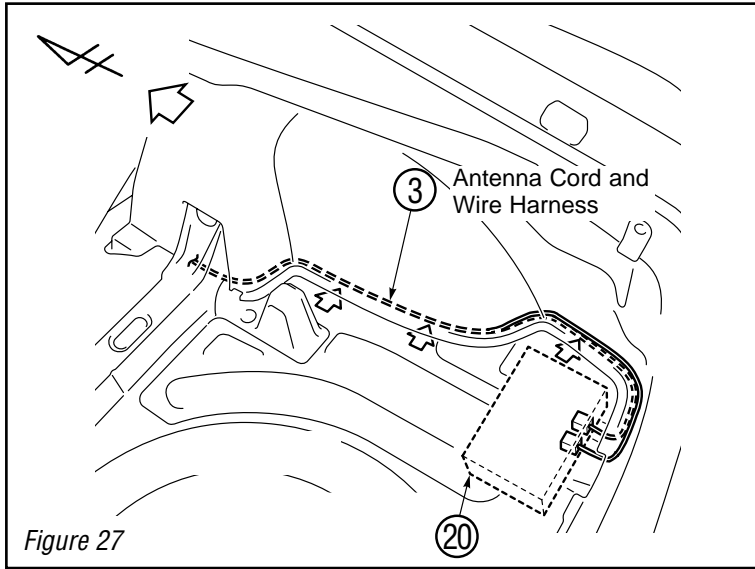


Figure 26

4. Remove the floor carpet, and route the antenna cord behind the rear seat.
5. Adjust the length of the antenna cord, and affix it after routing the cord to the computer ⑳ procedures in (6).



6. Route the antenna cord securely in between the trim to the computer ⑳ connection location.

CAUTION: Route the antenna cord securely in between the trim, so that it does not show.

INSTALLATION OF THE COMPUTER

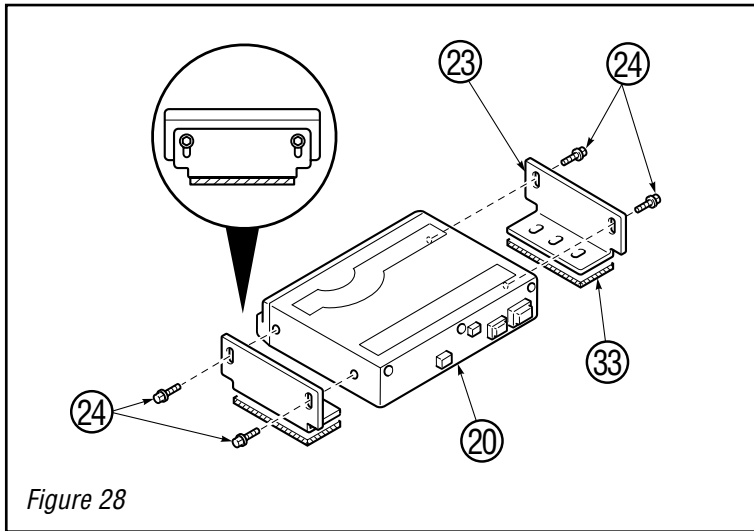


Figure 28

1. Temporarily place the brackets ②③ on the computer ②①.
2. Attach the adhesive tapes ③③ to the under part of the brackets ②③.

CAUTION: Do not remove the release paper on the under side of the adhesive tapes ③③ yet.

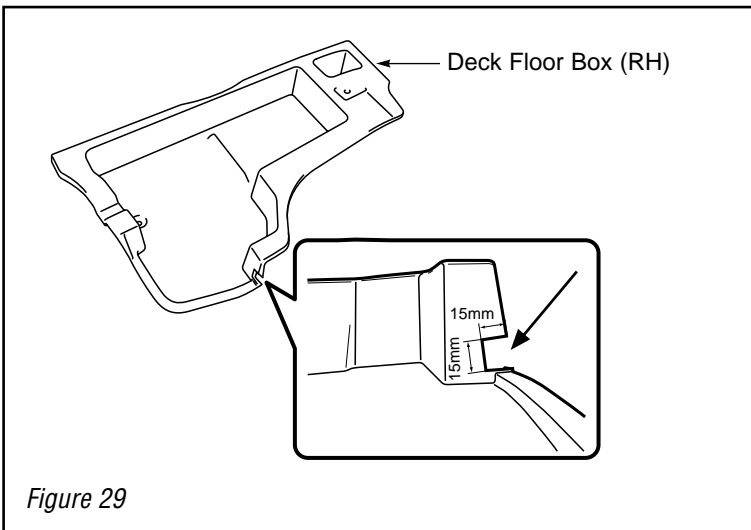


Figure 29

FOR MODELS WITH DECK FLOOR BOX

3. Cut out a piece (15 x 15 mm) with a cutter knife as shown in the left figure.

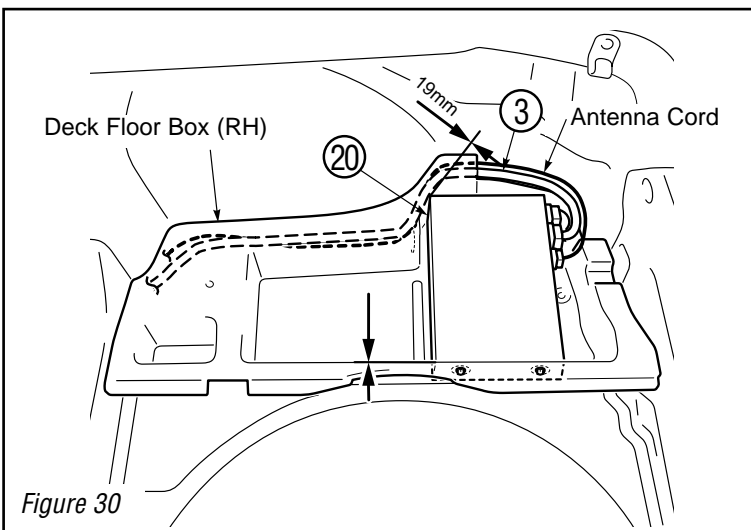


Figure 30

4. Route the harness and antenna cord through the cut hole as shown in figure 30, and connect it.

CAUTION: Connect the connectors before affixing the computer ②①.

5. Affix the computer ②① to the deck floor box RH following the dimension shown in the illustration.

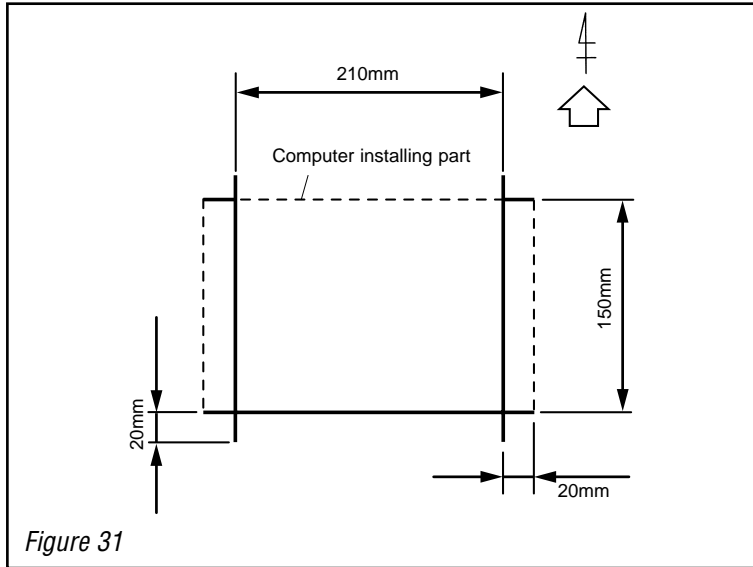


Figure 31

FOR MODELS WITHOUT DECK FLOOR BOX

- Slit the luggage carpet at the computer ⑳ installation position.

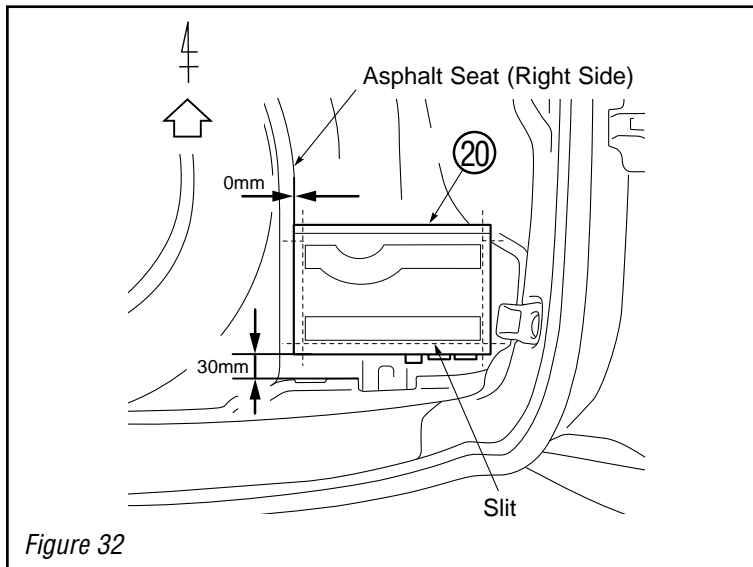
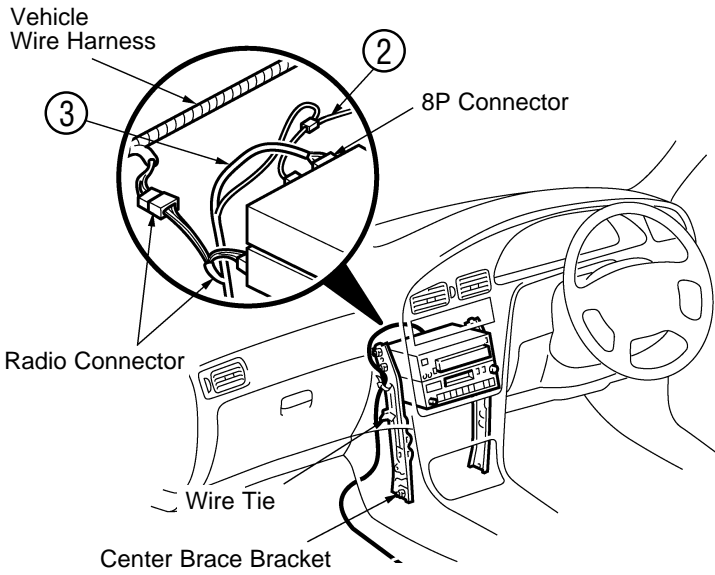


Figure 32

- Install the computer ⑳ at the left rear position of the luggage room.

MONITOR INSTALLATION



Vehicle Wire Harness

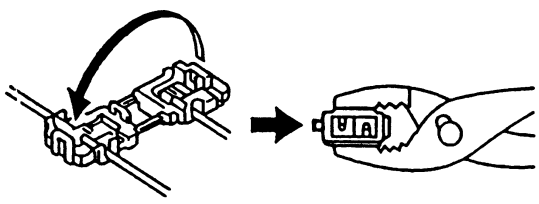
Radio Connector

Wire Tie

Center Brace Bracket

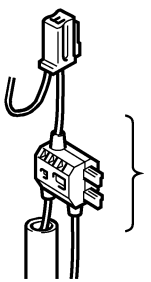
8P Connector

The way to connect the splicing connector



- ① After checking the type and line color of the connector, lock it.
- ② Even if the hinge of the connector is broken, the performance does not change.
- ③ Do not reuse the connector.

Cord color : violet/white



Wrap the urethane tape around to hold the harness.

Bild 33 - Figure 33

1. Connect the splicing connector of wire harness ③ to the speed sensor wire (violet/white) of the wire harness sub-assy ② of the monitor ①.
2. Connect the wire harness ③ radio connector to the audio assy, and 8P connector to the monitor ①.

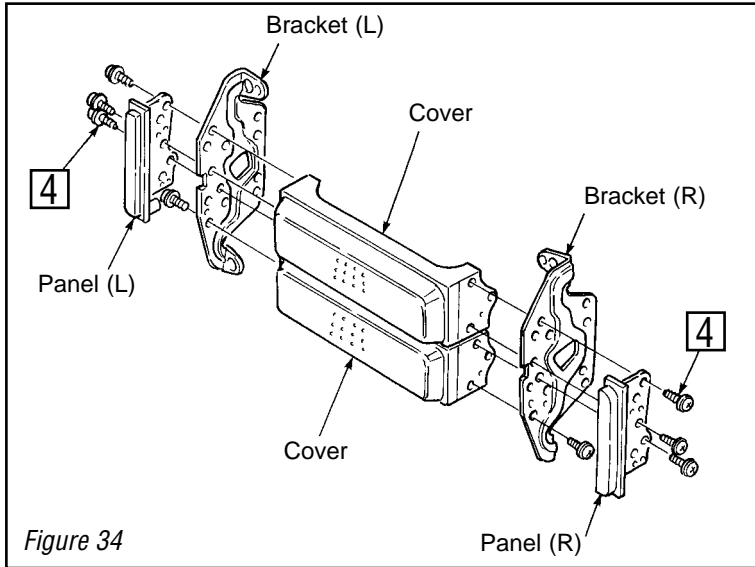


Figure 34

- Remove the brackets and panels.
4 : Screws (8x)

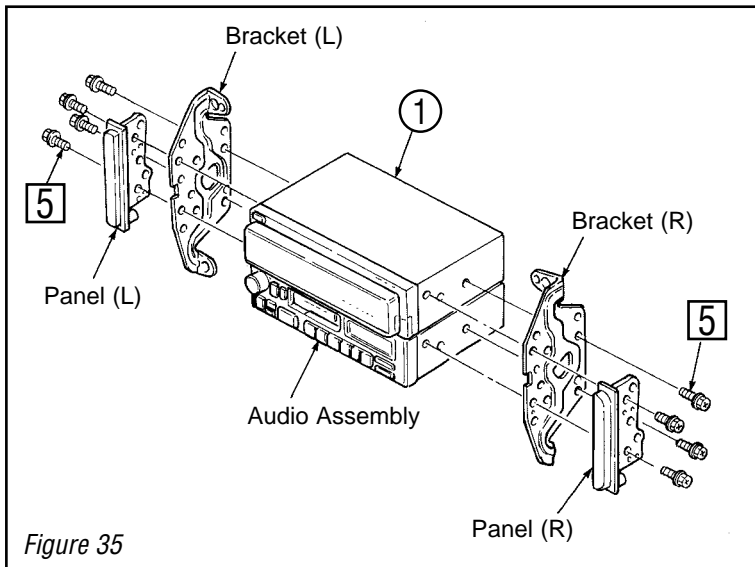


Figure 35

- Mount the bracket onto the monitor ① and audio assembly.
5 : Bolts (8x)
NOTE: Before moving to 5, see Chapter "Wire Harness" p. 27, to confirm wire harness connection to monitor ① and audio assembly.

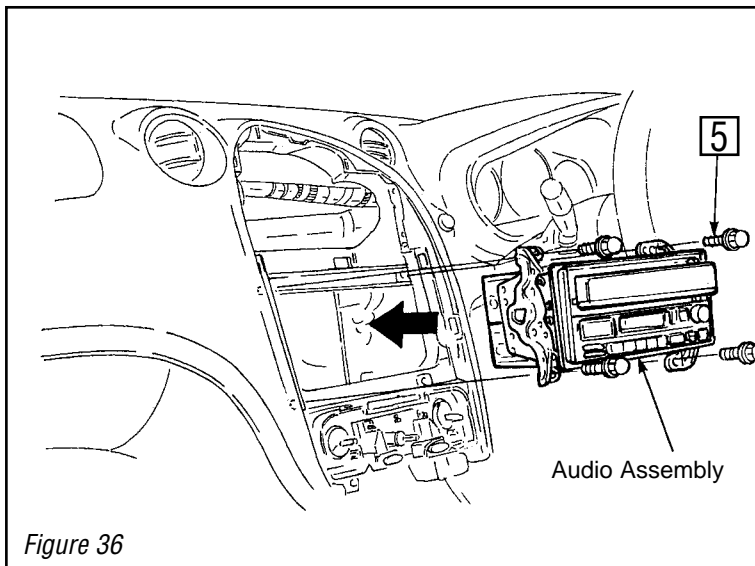


Figure 36

- After connecting wire harness to monitor ① and audio assembly, install the monitor ① and audio assembly.
5 : Bolts (4x)

WIRE HARNESS CONNECTION Toyota

AUDIO ASSEMBLY + NAVIGATION SYSTEM

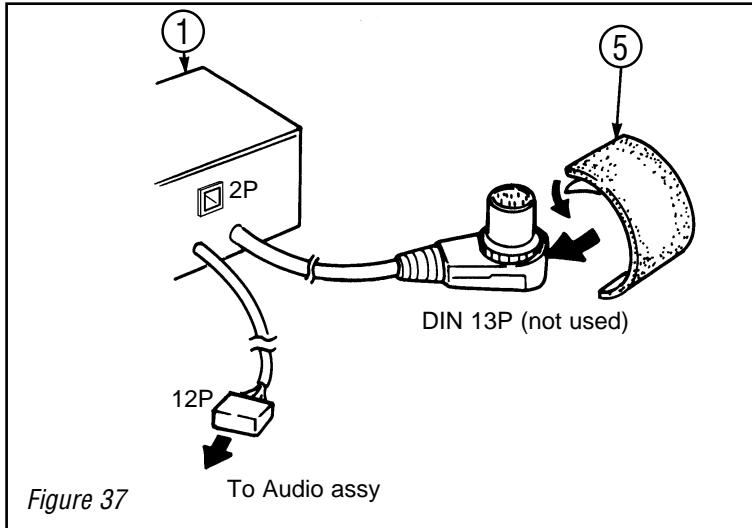


Figure 37

For details of the wire harness connection, refer to pages 9-12.

FOR FUJITSU TEN AUDIO UNITS

1. Wrap the DIN 13P connector in the foam ⑤ to the DIN 13P connector.
2. Connect the monitor ① 12P connector to the audio assy.

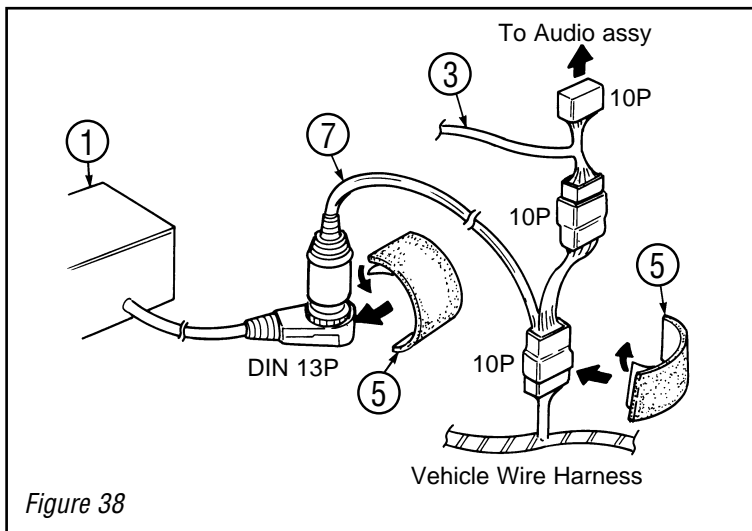


Figure 38

BEI MATSUSHITA AUDIOGERÄTEN FOR MATSUSHITA AUDIO UNITS POUR UNITES AUDIO MATSUSHITA

1. Connect the wire harness sub-assy ⑦ to the DIN 13P, to the vehicle wire harness and, to the wire harness ③ as shown.
2. Wrap the DIN 13P and 10P connectors in the foam.

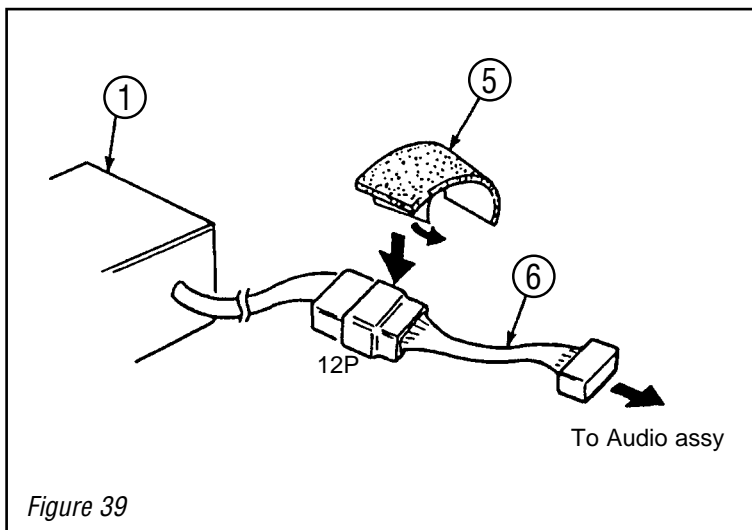
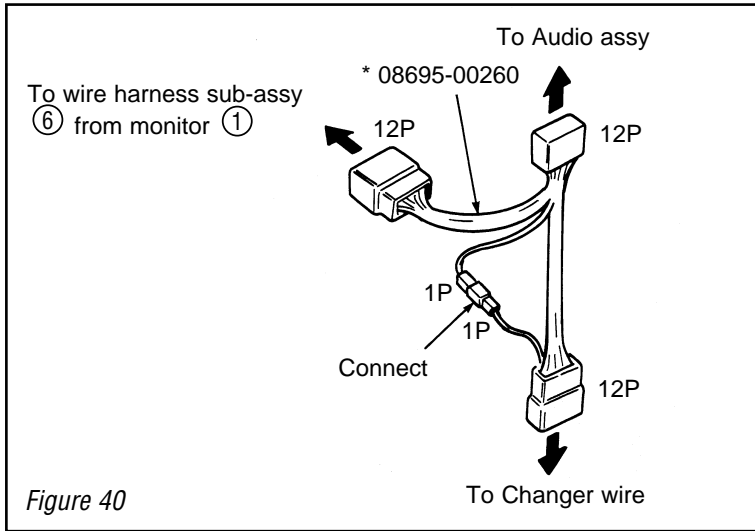


Figure 39

3. Connect the wire harness sub-assy ⑥ to the monitor ① 12P connector and the audio assy.
4. Wrap the 12P connector in the foam ⑤.

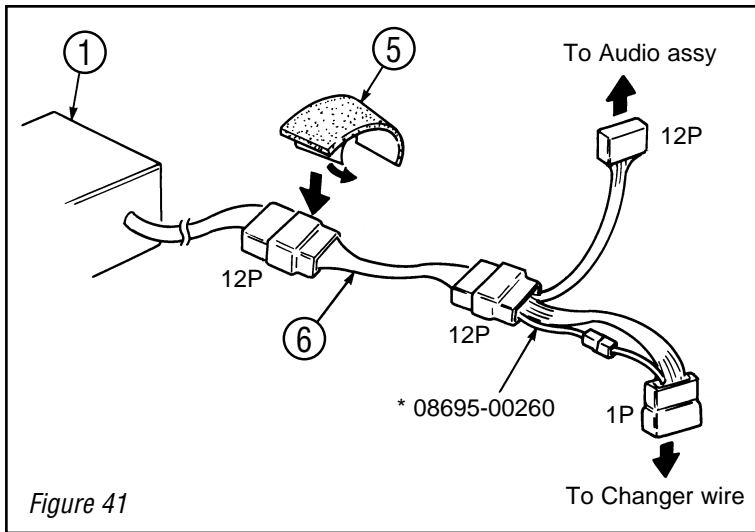
AUDIO ASSY + NAVIGATION SYSTEM + CD AND MD CHANGER

***NOTE :** In case a CD Changer is installed in conjunction with a navigation system, wire harness 08695-00260 is necessary. 08695-00260 is not included in the navigation kit but to be ordered separately.

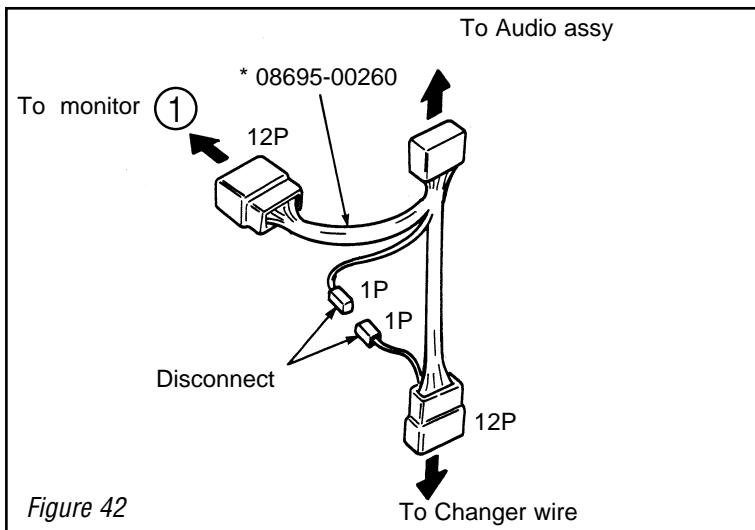


FOR MATSUSHITA AUDIO UNITS

1. Connect the 1P connectors.

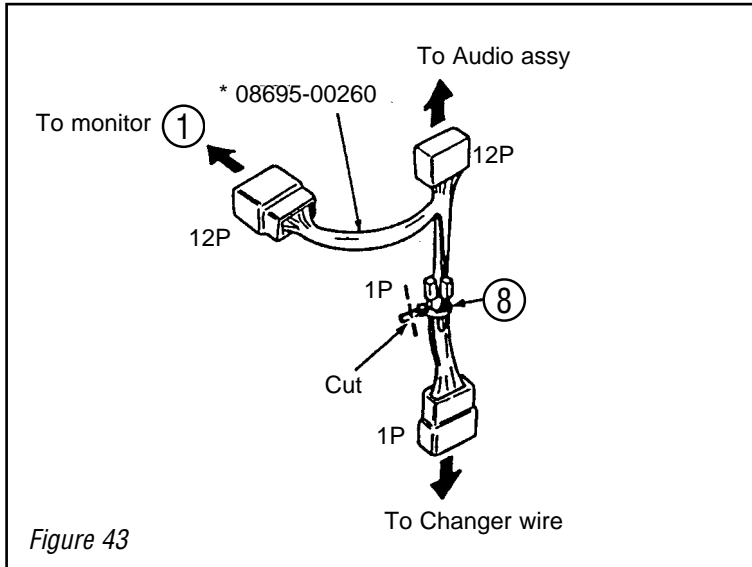


2. Wrap the 12P connectors in the foam (5).



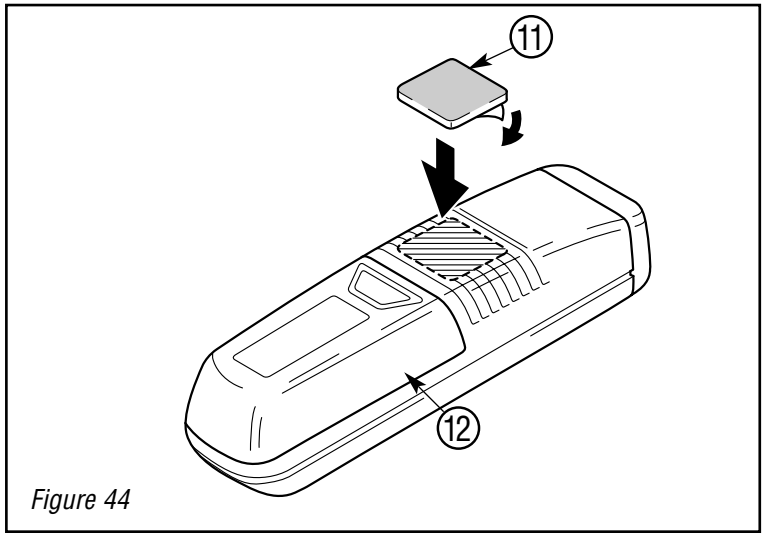
FOR FUJITSU TEN AUDIO UNITS

1. Disconnect the 1P connectors.

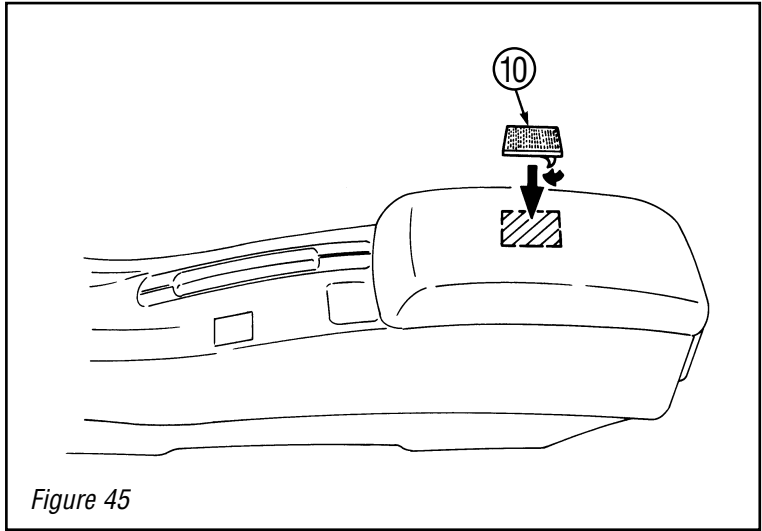


2. Secure the 1P connectors with wire tie ⑧.

STORAGE OF THE REMOTE CONTROL

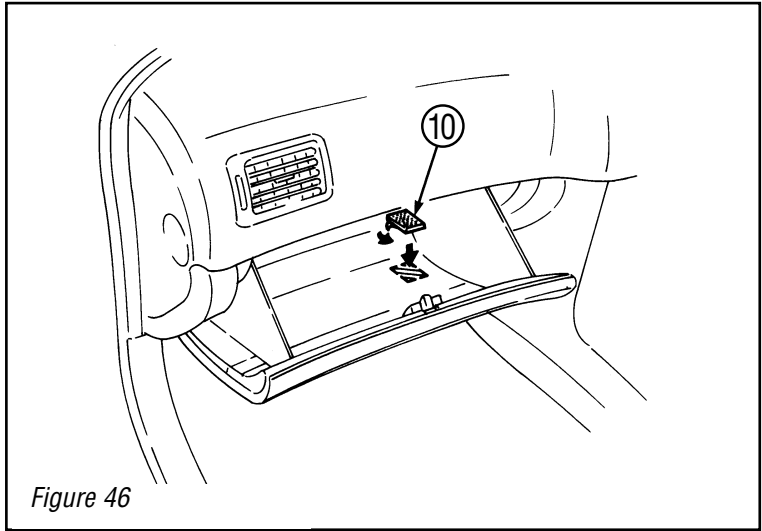


Stick the “soft” part of the Velcro ⑪ to the rear of the remote control ⑫ .



NORMAL STORAGE

Attach the “hard” part of the Velcro ⑩ to the mid console.



HIDE AWAY STORAGE

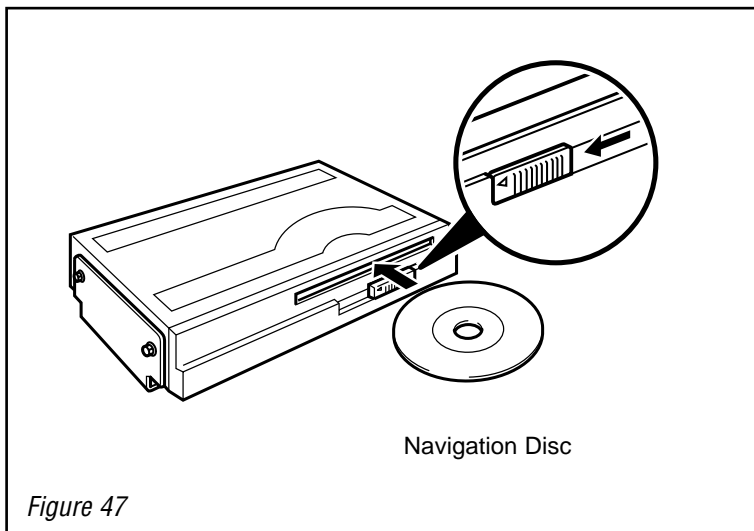
Attach the “hard” part of the Velcro ⑩ to the inside of the glove compartment.

SYSTEM START UP

POST-INSTALLATION INSPECTION

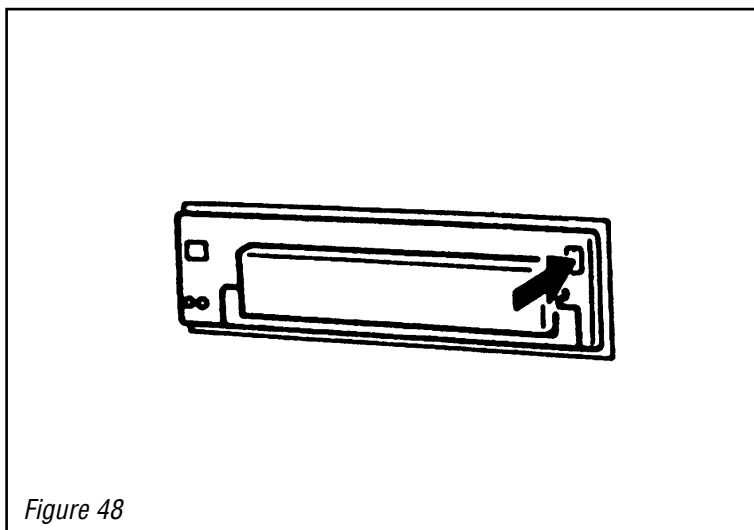
Inspect whether the installation, the wiring and the connectors are well fitted. Especially verify whether no wire harness is pushed, pulled or pinched with excessive force. Use additional foam tape ⑤ or ⑥ wherever necessary to prevent any damage.

CD-ROM INSERTION INTO THE COMPUTER

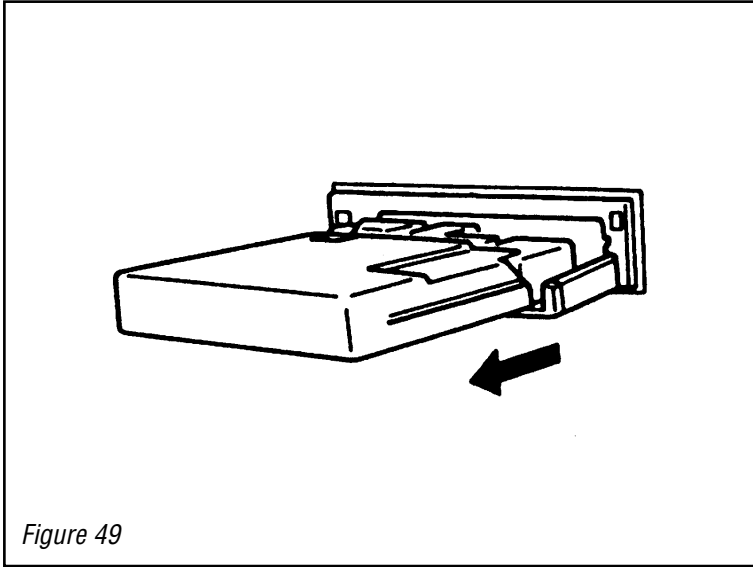


1. Connect the battery and turn the ignition switch to the ACC position.
2. Slide the eject switch on the computer to the left to open the disc insertion slot.
3. With the label side of the disc facing up, insert the disc into the disc insertion slot.
 - * The disc will be pulled into the computer automatically.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

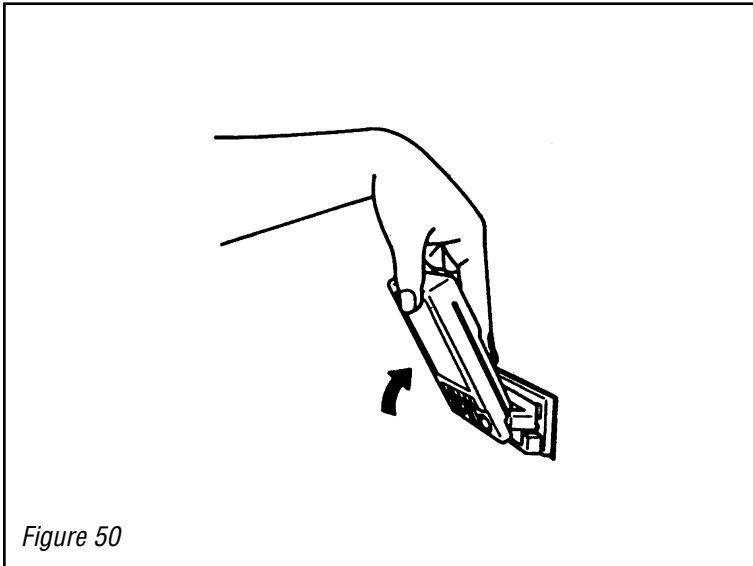
OPERATION CHECK



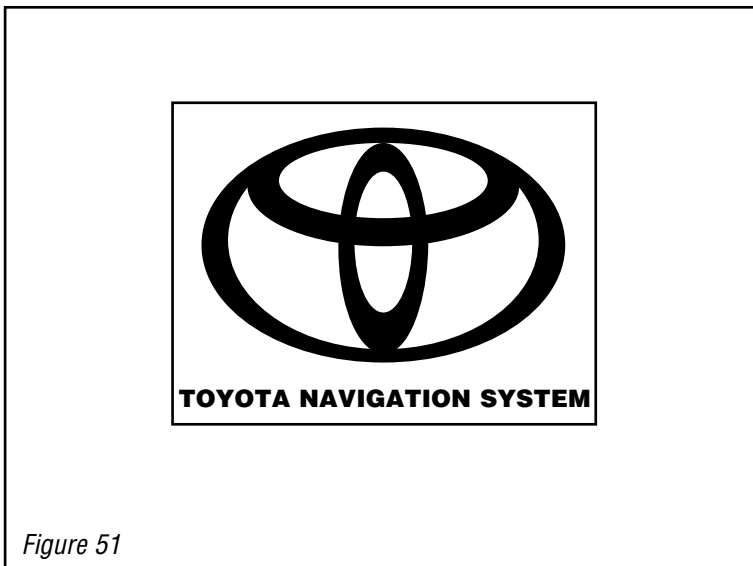
1. Attach the (-) terminal of the battery and turn the key to the ACC or ON position or start the engine.
2.
 - a) Press the OPEN button to eject the display.



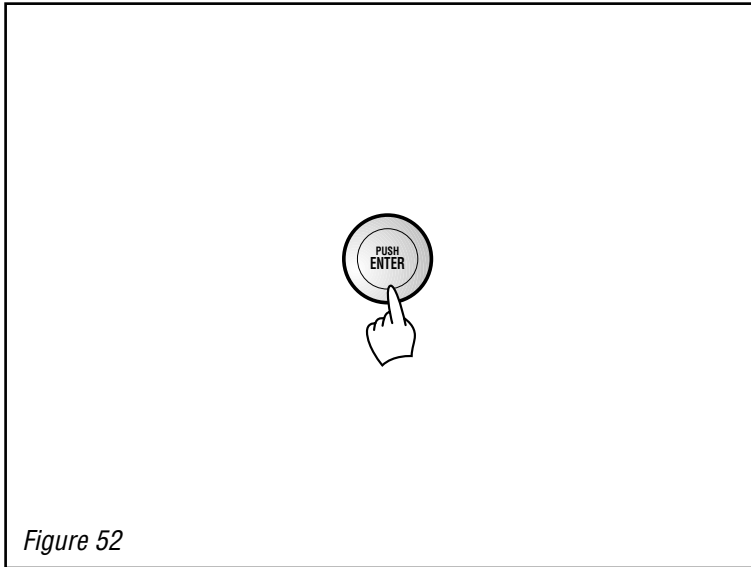
b) The display will slide out.



3.
a) Raise the display by hand.



b) An image will appear on the screen.



4. Press "Enter" on the remote control to start the system.

5. Perform the "auto-compensation" procedure by following the section on "When a Tire has been Changed" in the Navigation System Owner's Manual.

6. Set the system to the customers language by following the section on "language setting" in the Navigation System Owner's Manual.

NOTE : In case of any abnormality, please refer to the "TOYOTA Navigation System Troubleshooting Guide".

7. Take the vehicle for a test drive and confirm that the map scrolls automatically.

REFIT THE TRIM AND REMOVED PARTS.

NOTES



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TOYOTA
GENUINE PARTS