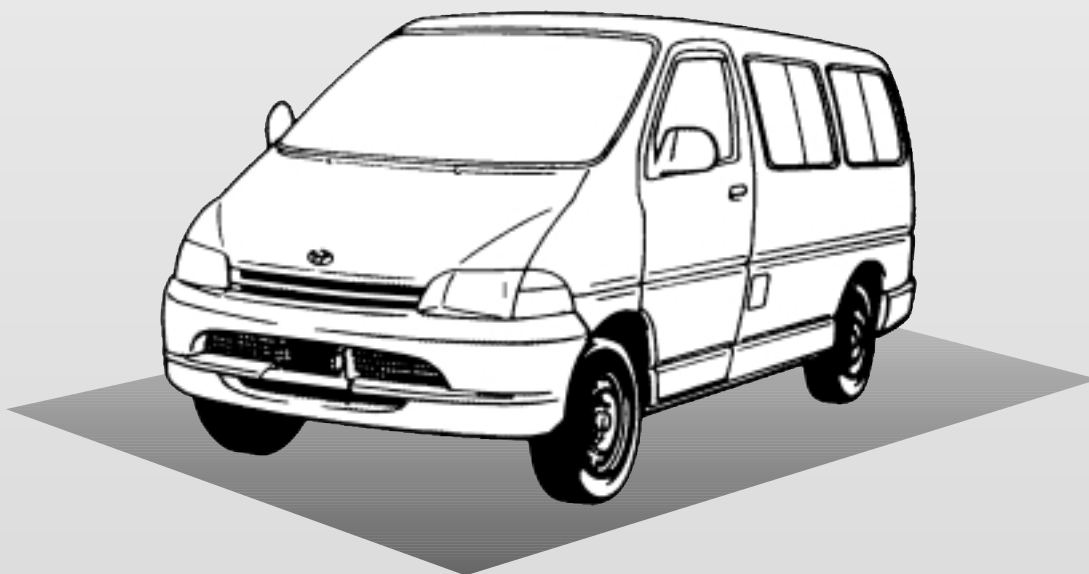




TOYOTA NAVIGATION SYSTEM



Hiace (LHD)

INSTALLATION INSTRUCTIONS

FOR **N1*L

PART NUMBER

NAVIGATION SYSTEM ASSY

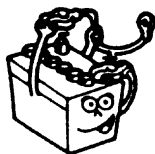
08545-33801

PRECAUTIONS



PLEASE READ THOROUGHLY THESE PRECAUTIONS BEFORE INSTALLATION

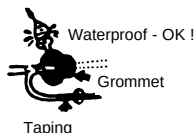
- Be sure to disconnect the negative (-) lead from the battery terminals.



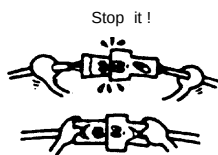
- Do not pinch the rear wiring or harness in the tightened part.



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



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



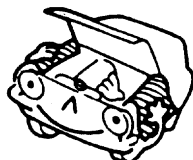
- Do not forcibly pull any car wiring harness. Rough tugging may result in opened connections, or a broken wire or harness.



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



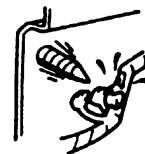
- Protect your car with wing covers, seat and so on.



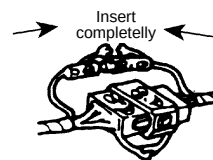
- Use the correct tool when tightening bolts or nuts.



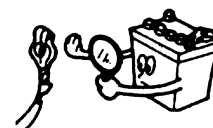
- Before drilling a hole, check that the rear of the mounting wall is clear.



- Be sure to firmly tighten connectors and terminals.



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



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

INSTALLATION PRECAUTIONS

Before installing:

Place a cover on the car to protect it from scratches or damage during installation work.

Installation of parts:

1. Select a site for installation work that does not impede work and offers adequate comfort.
2. When tightening parts using bolts, nuts or other fasteners on the vehicle, never attempt to use those concerned with the steering or brake systems.
3. When tightening parts, be sure to not pinch the wire harness on the reverse side.

Wiring:

Do not pass wires through locations in contact with hot car parts or parts that move sympathetically due to vibrations.

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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)	—	08545-33801	2A Cluster* (55405-26010-B0) + Bracket LH* (86212-26030) + Bracket RH* (86211-26030)
	18401 (86100-20510) or 58408 (86100-60080)	—	08545-33801	—
Radio/Cassette + CD-Changer + Navigation	TF4301 (08600-00922) or TM4000 (08600-00888)	TM0461 (08601-00879)	08545-33801	2A Cluster* (55405-26010-B0) + Bracket LH* (86212-26030) + Bracket RH* (86211-26030) + W/H (08695-00260)
	18401 (86100-20510) or 58408 (86100-60080)	TM0461 (08601-00879)	08545-33801	W/H (08695-00260)

* Not necessary if the car is equipped from factory with 2A Cluster.

NAVIGATION SYSTEM ASSY

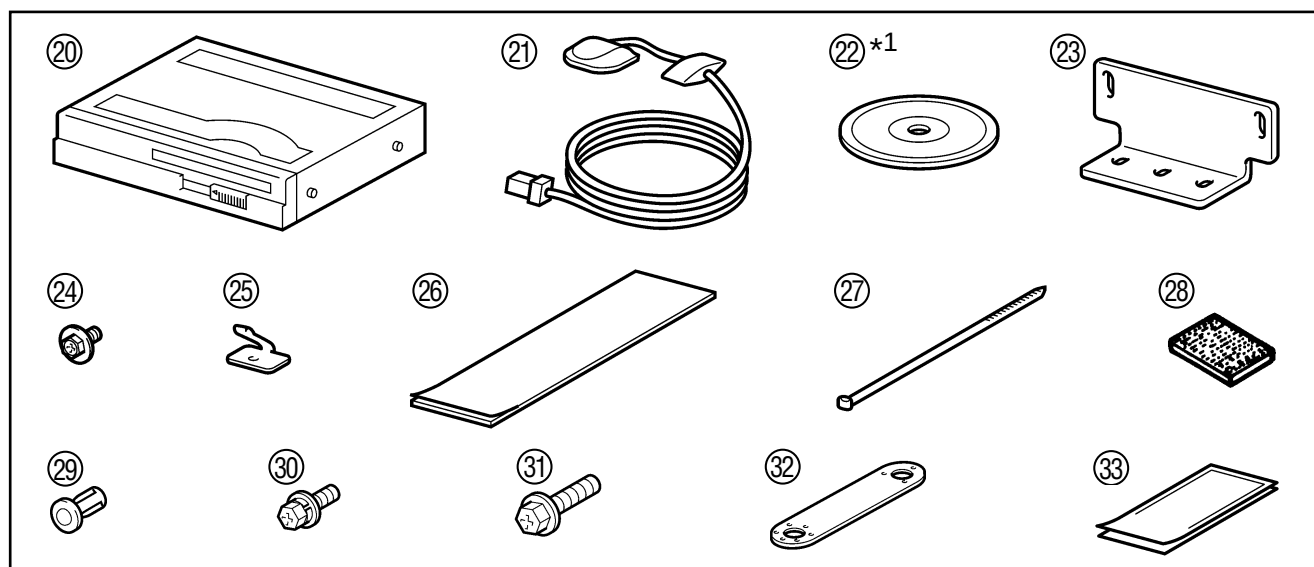
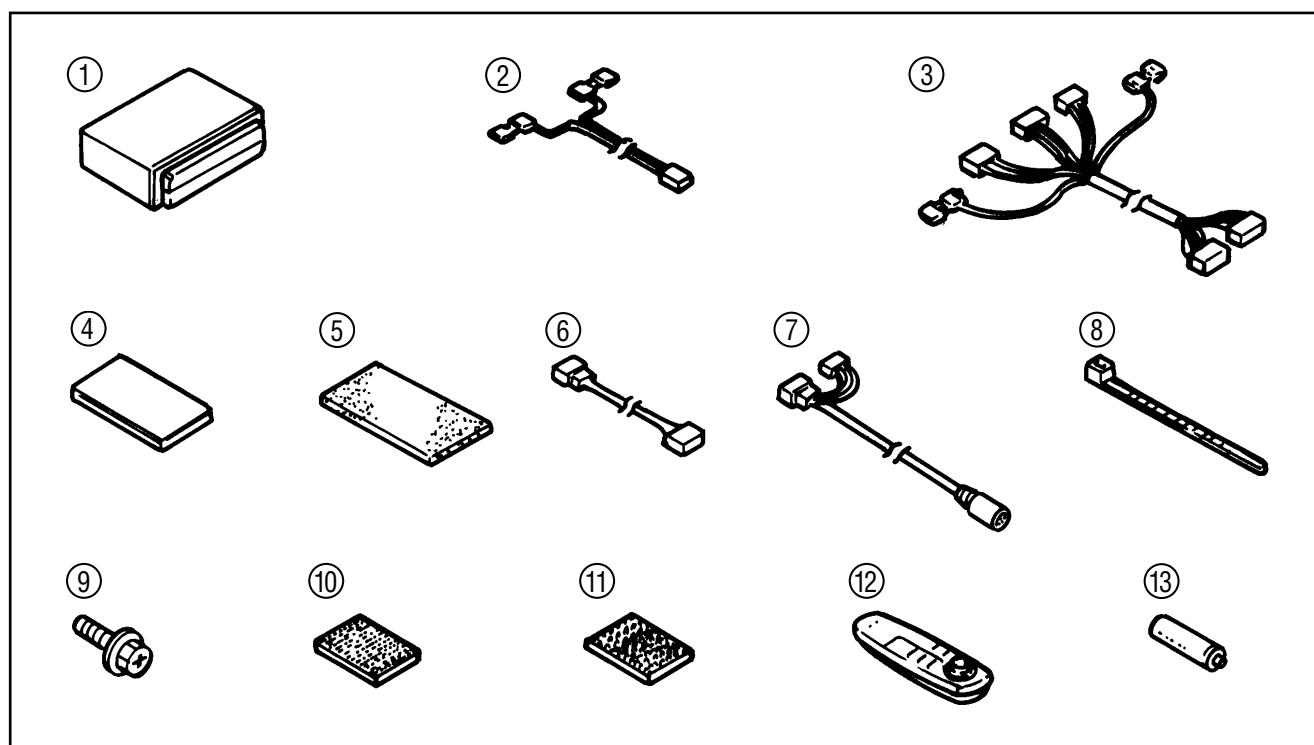
08545-33801



No.	Description	Qty
①	MONITOR	1
②	WIRE HARNESS SUB-ASSEMBLY	1
③	MAIN WIRE HARNESS	1
④	FOAM TAPE (MEDIUM)	5
⑤	FOAM TAPE (SMALL)	3
⑥	MAIN WIRE HARNESS SUB-ASSEMBLY	1
⑦	WIRE HARNESS SUB-ASSEMBLY	1
⑧	WIRE TIE	15
⑨	SCREW (M5 x 8)	4
⑩	VELCRO (MALE) [Yellow]	2
⑪	VELCRO (FEMALE) [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	4
㉖	FOAM 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	4

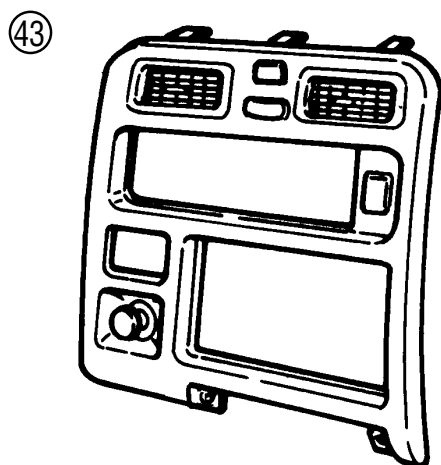
*1: NAVIGATION DISC (CD-ROM) ㉒ is not included in the navigation kit.



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

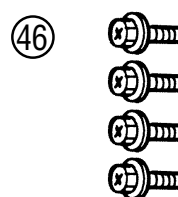
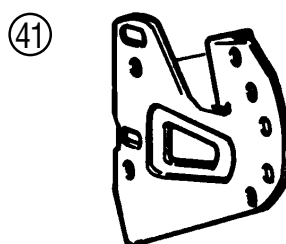
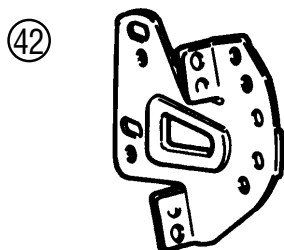
Note :

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.

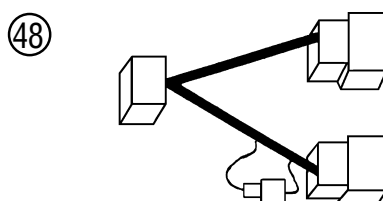
2A CLUSTER**55405-26010-B0****FITTING KIT**

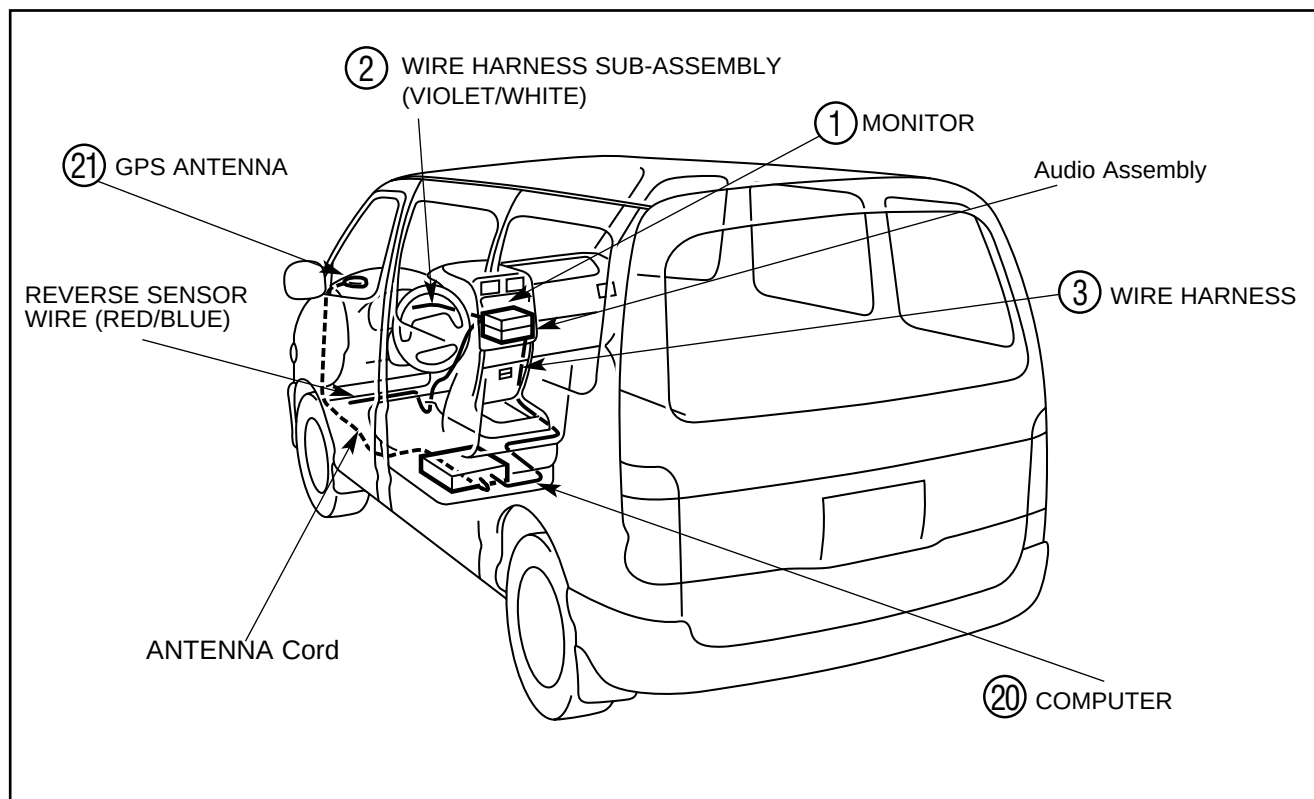
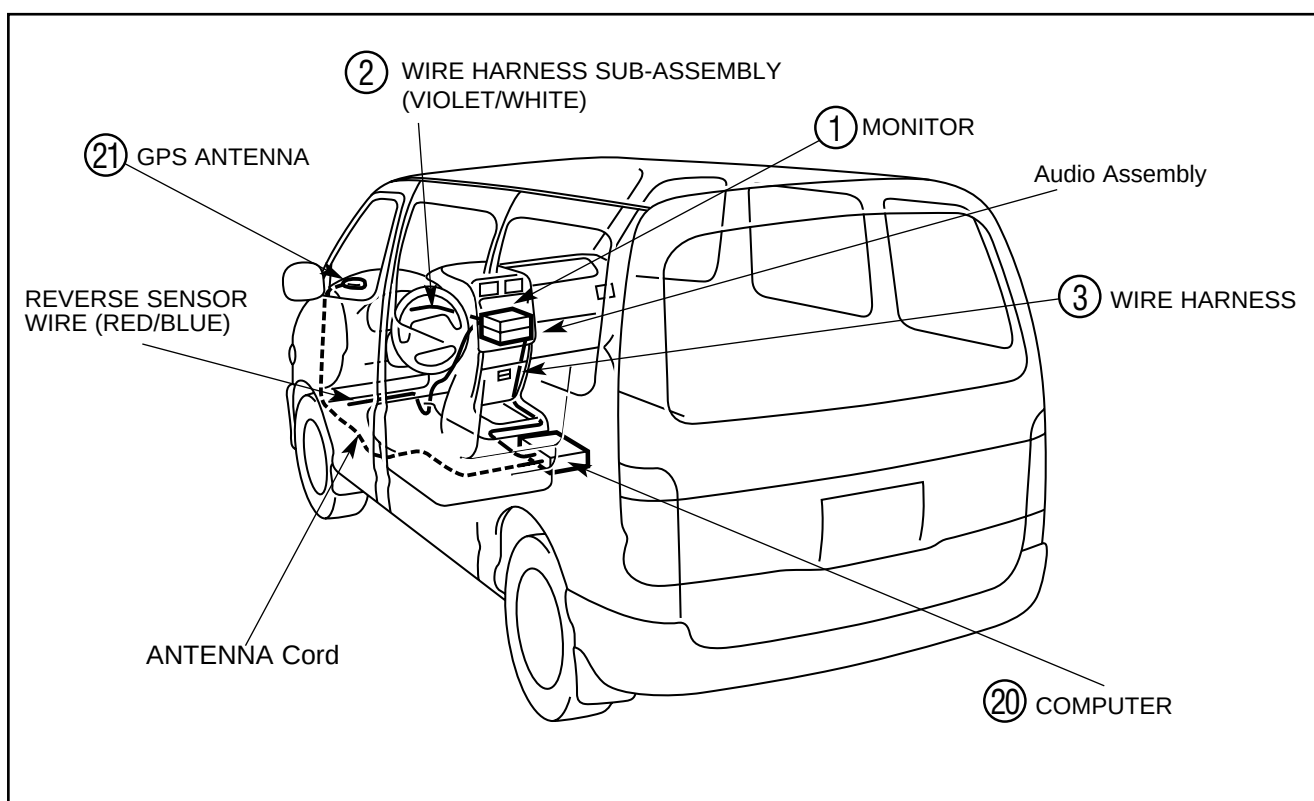
Left Hand Bracket 86212-26030

Right Hand Bracket 86211-26030

**WIRE HARNESS****08695-00260**

Only for CD changer

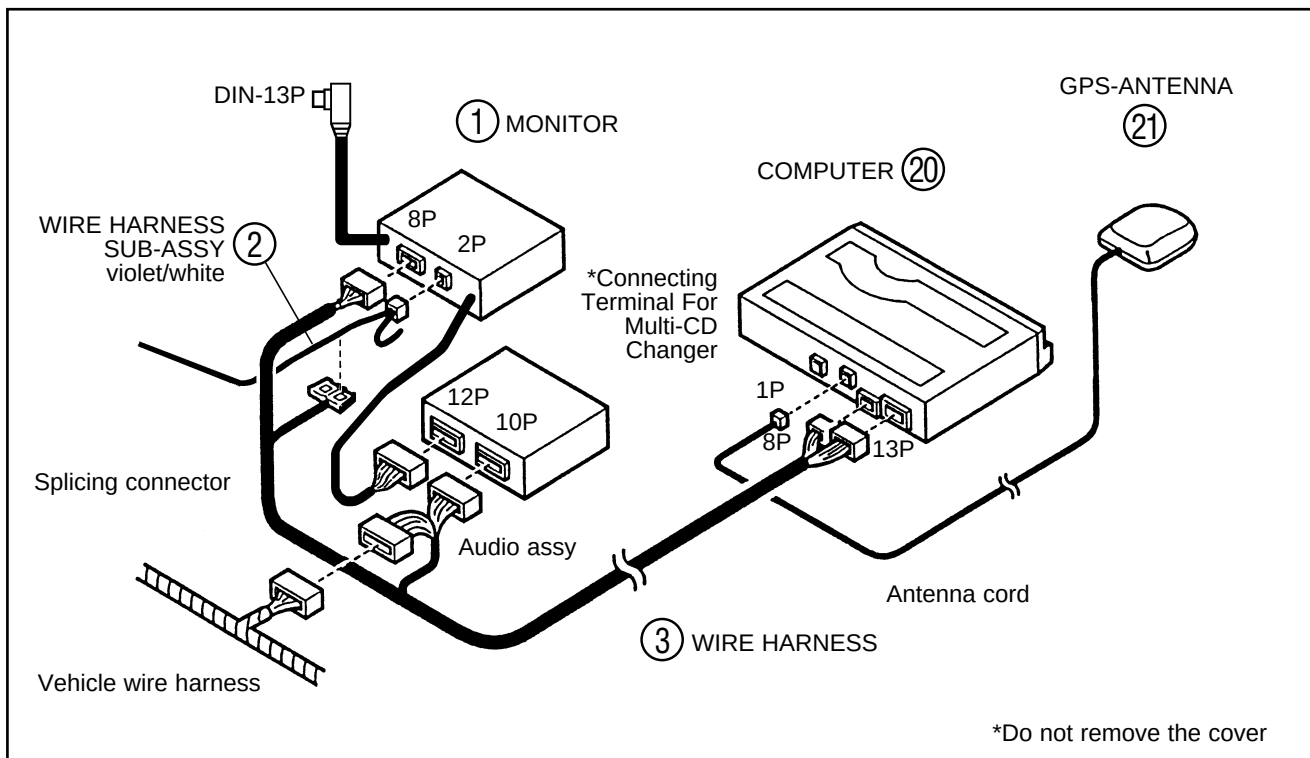


SYSTEM LAYOUT**1. WITHOUT CD CHANGER****2. WITHOUT THIRD SEAT (Navigation computer is installed in the cargo room area)**

HOW TO CONNECT



GENERAL OUTLINE (Audio with AVC-LAN)



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.

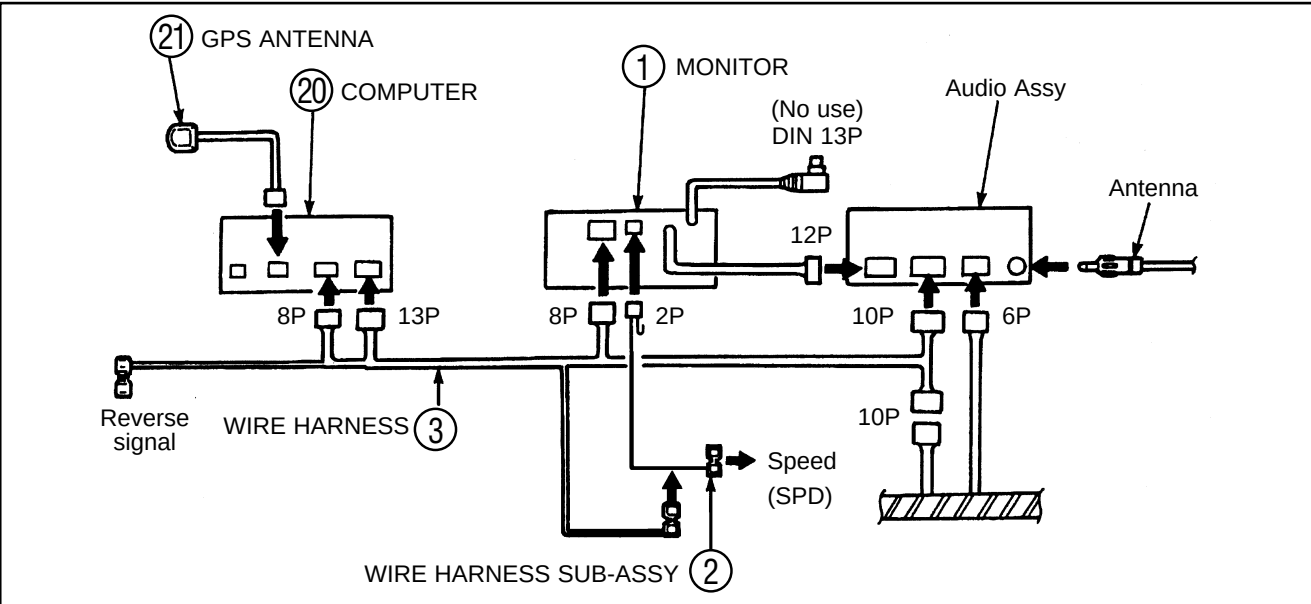
FUJITSU TEN AUDIO UNIT (WITH AVC-LAN)

DETAILED CONNECTION OUTLINE

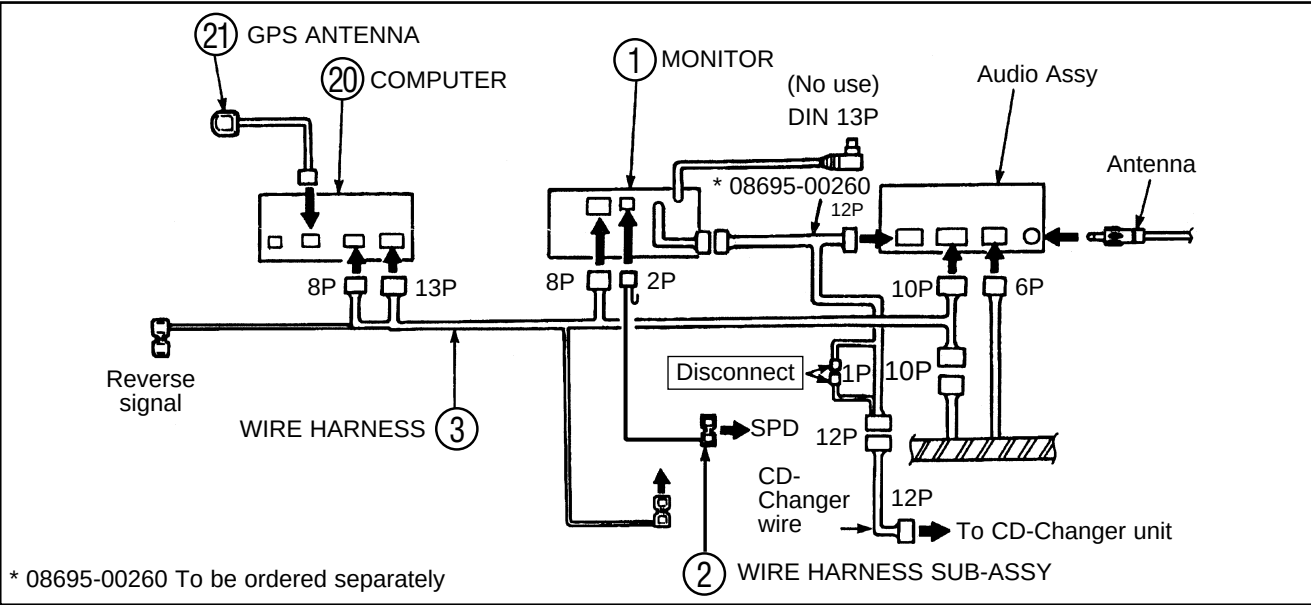
• Audio Unit Application

Audio Assy	CD-Changer
86100-20510	08601-00862
TF4301	

AUDIO ASSY + NAVIGATION SYSTEM



AUDIO ASSY + NAVIGATION SYSTEM + CD-CHANGER



* 08695-00260 To be ordered separately

MATSUSHITA AUDIO UNIT (WITH AVC-LAN)

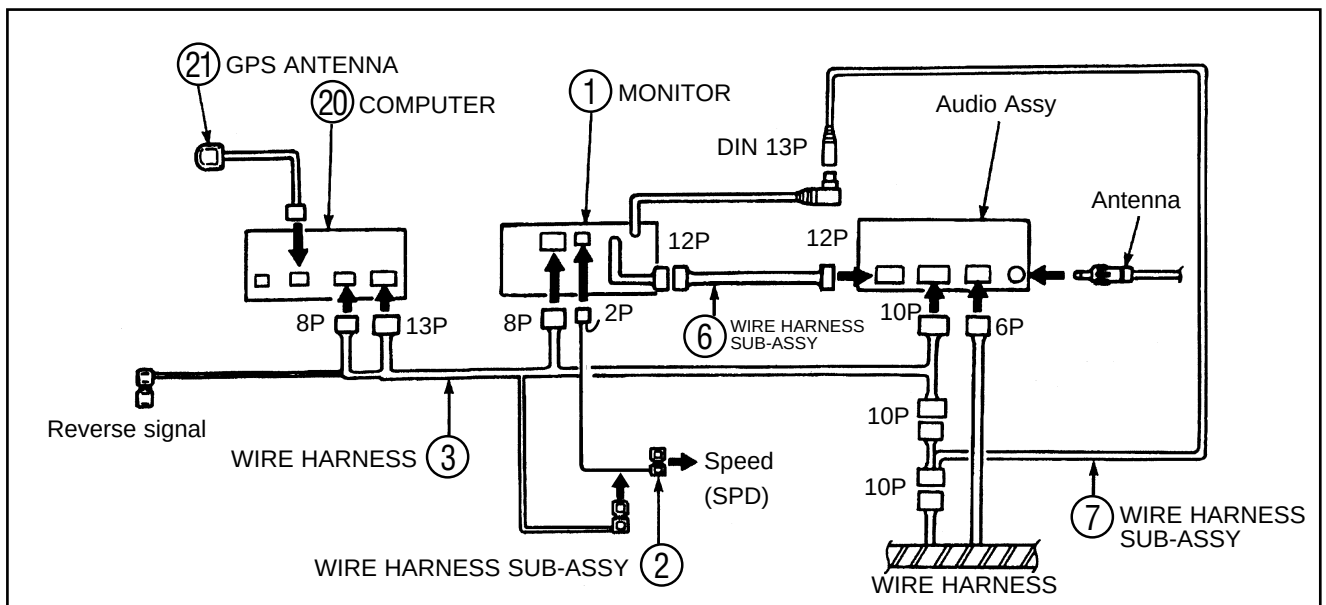


DETAILED CONNECTION OUTLINE

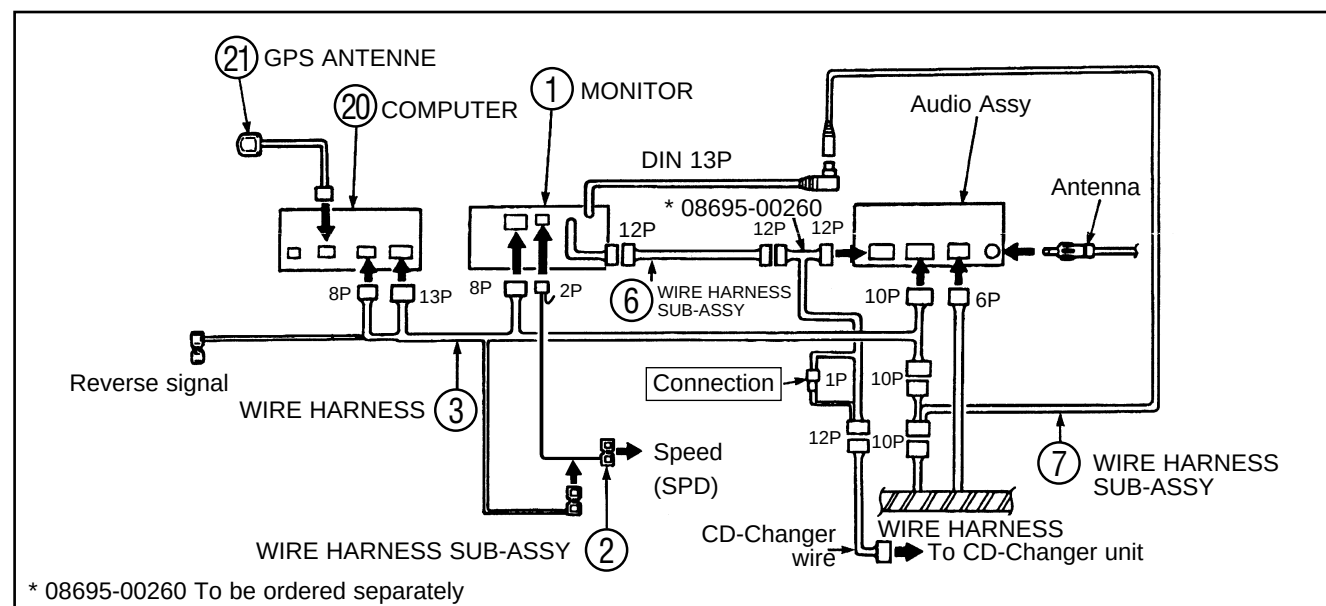
• Audio Unit Application

Audio Assy	CD-Changer
58408	TM0461
TM4000	

AUDIO ASSY + NAVIGATION SYSTEM



AUDIO ASSY + NAVIGATION SYSTEM + CD-CHANGER



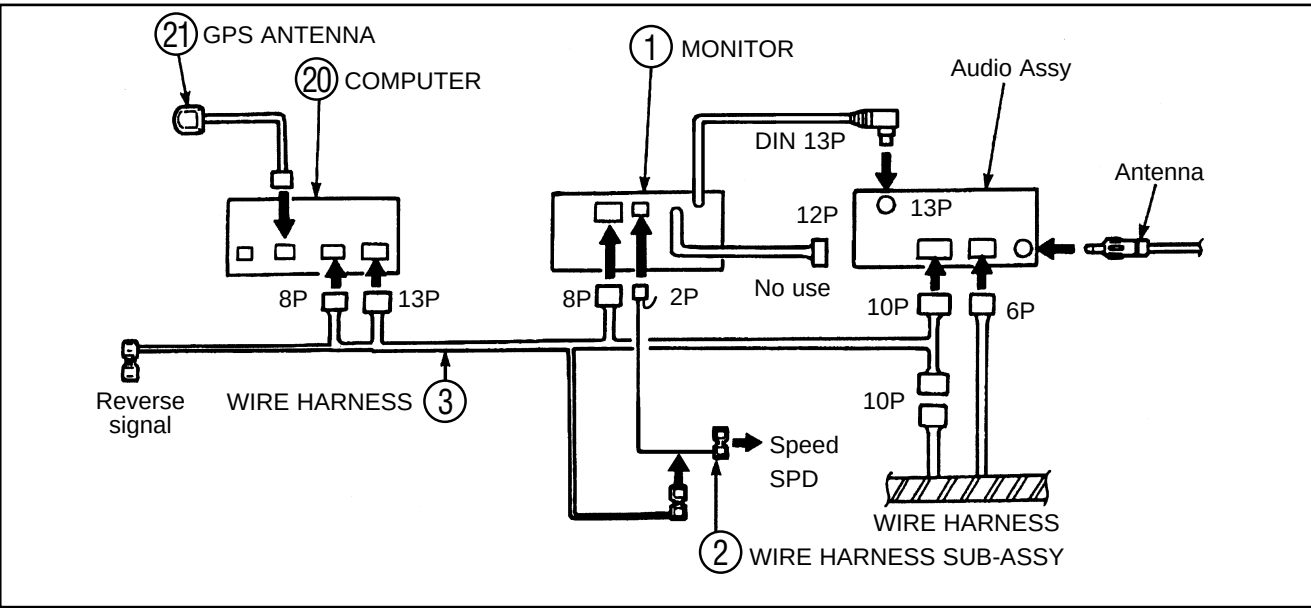
AUDIO UNITS WITH 13PIN CONNECTOR (WITHOUT AVC-LAN)

DETAILED CONNECTION OUTLINE

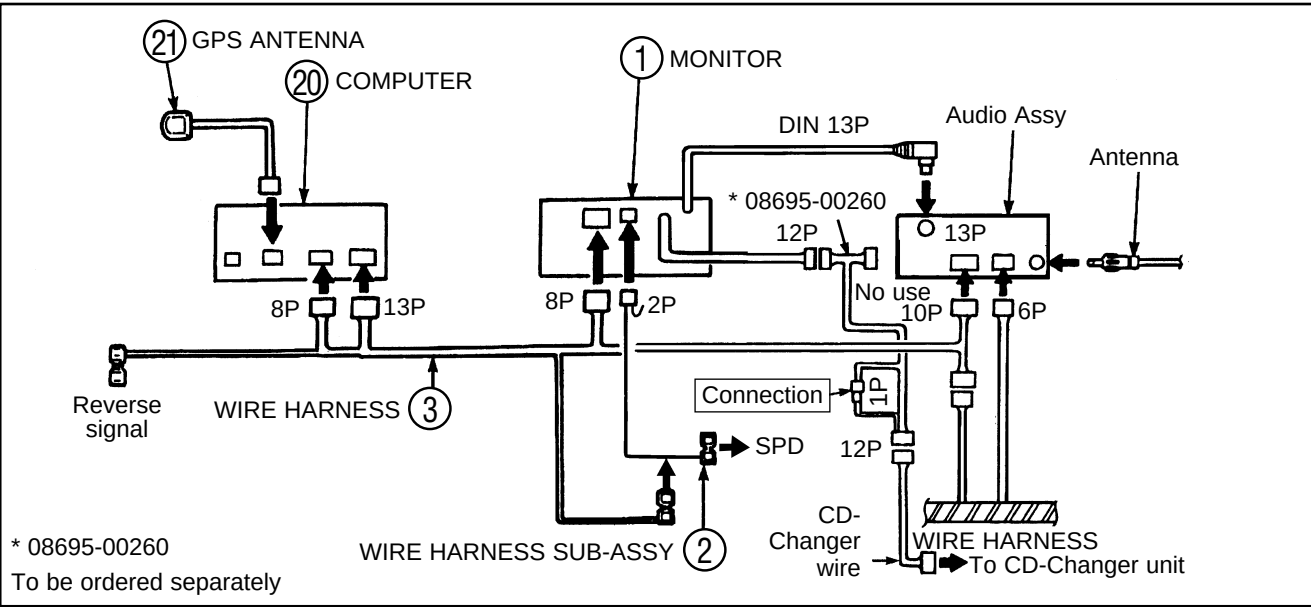
• Audio Unit Application

Audio Assy	CD-Changer
MOP Radio without AVC	TM0461

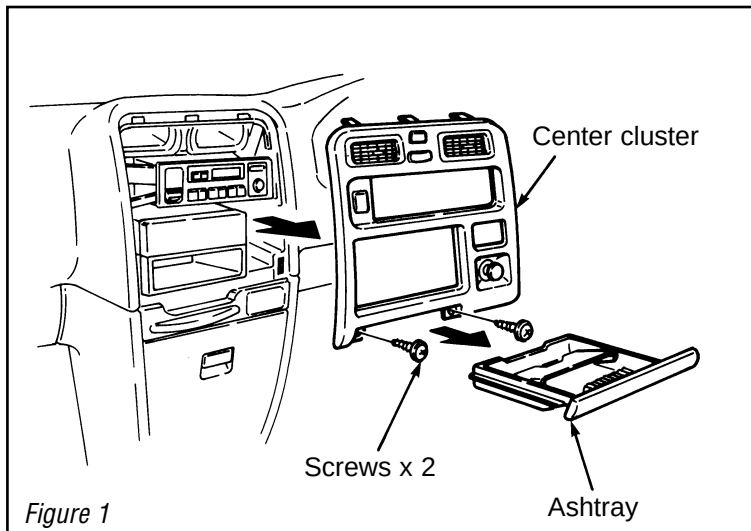
AUDIO ASSY + NAVIGATION SYSTEM



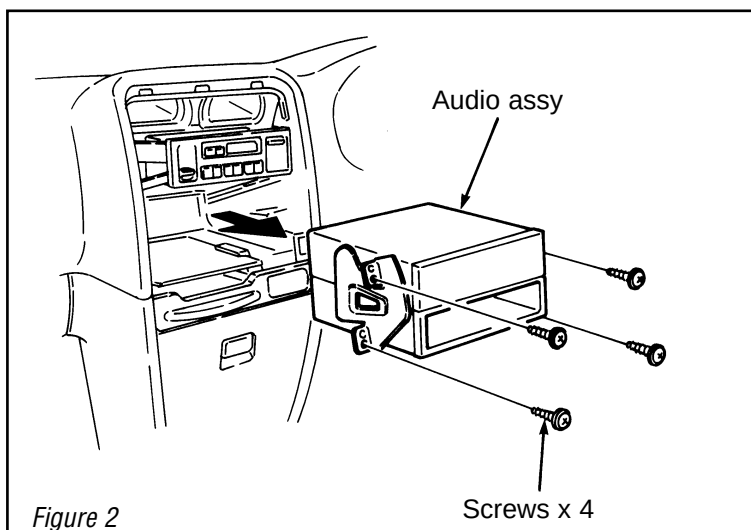
AUDIO ASSY+ NAVIGATION SYSTEM + CD-CHANGER



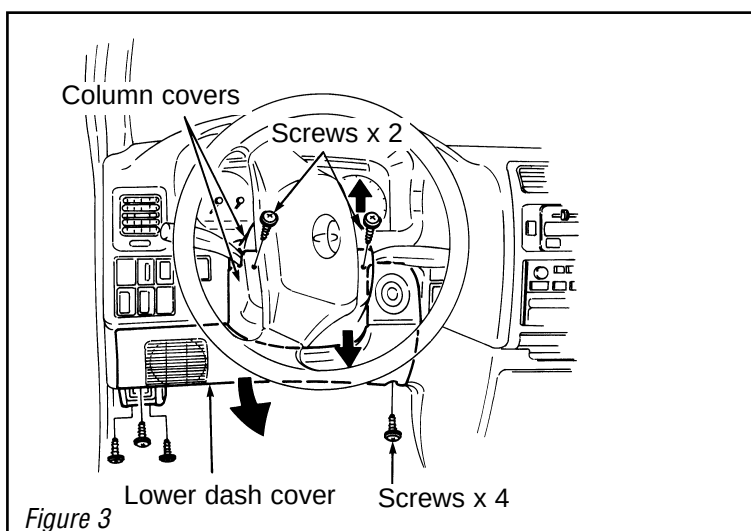
VEHICLE DISASSEMBLY



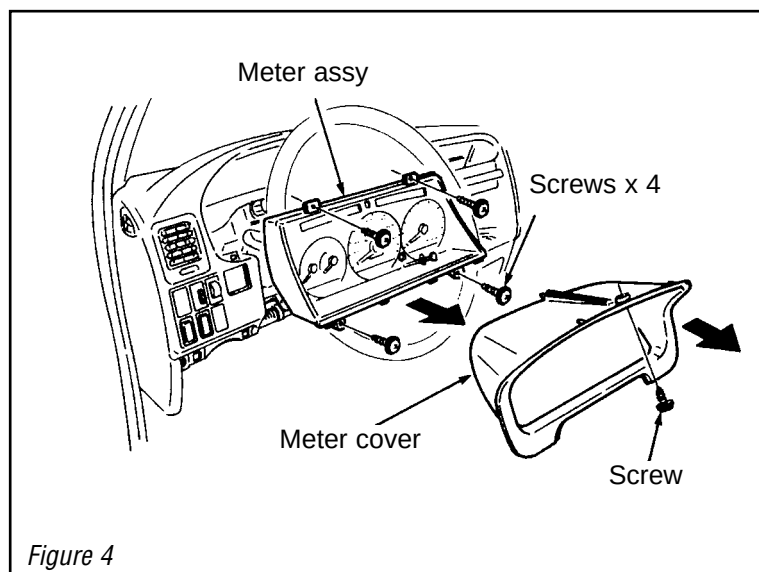
1. Remove the ashtray and center cluster.



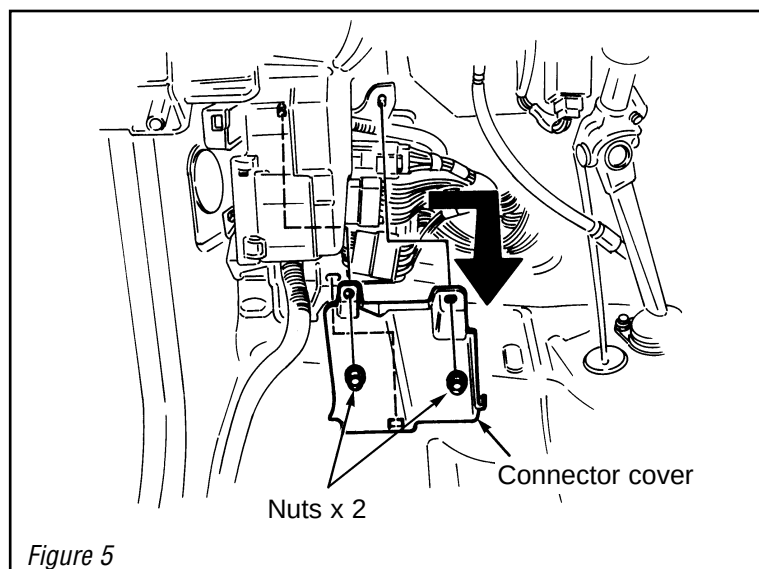
2. Remove the audio assy/accessory box.



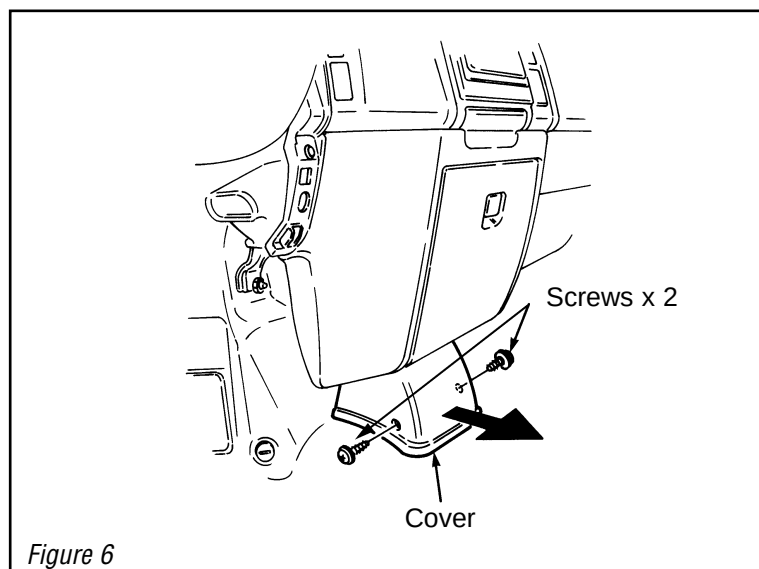
3. Remove the lower dash cover and column covers.



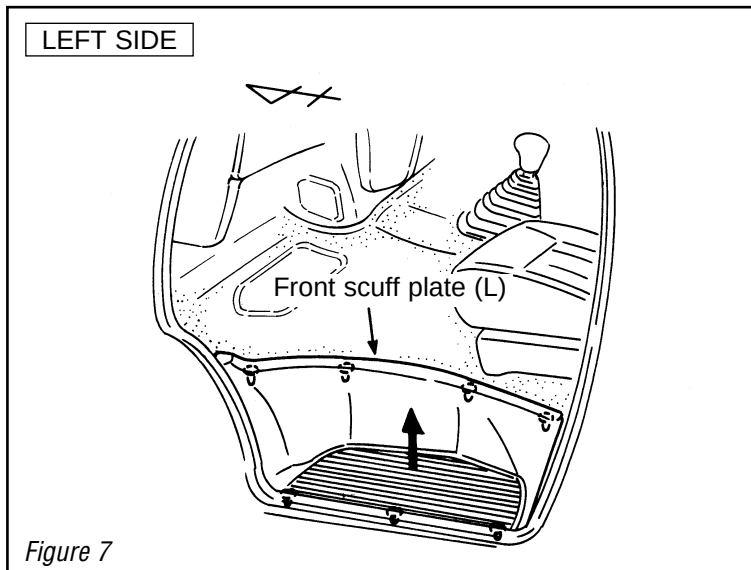
4. Remove the meter cover and meter assembly.



5. Remove the connector cover.

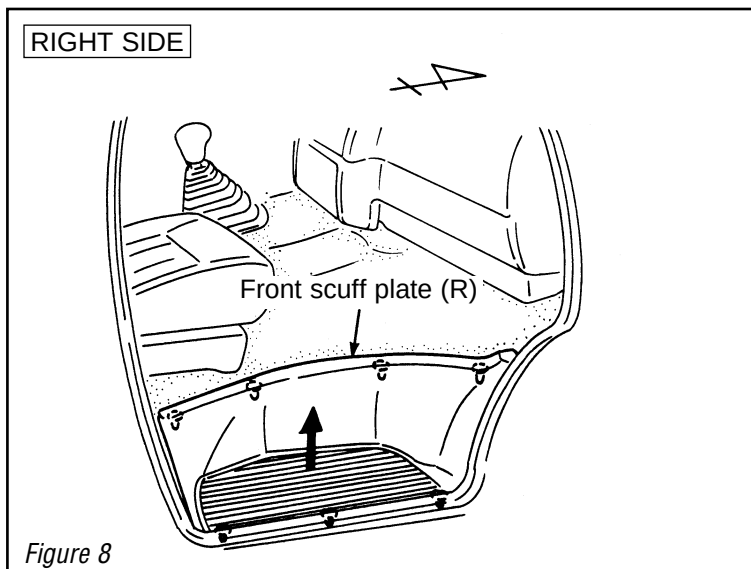


6. Remove the cover.

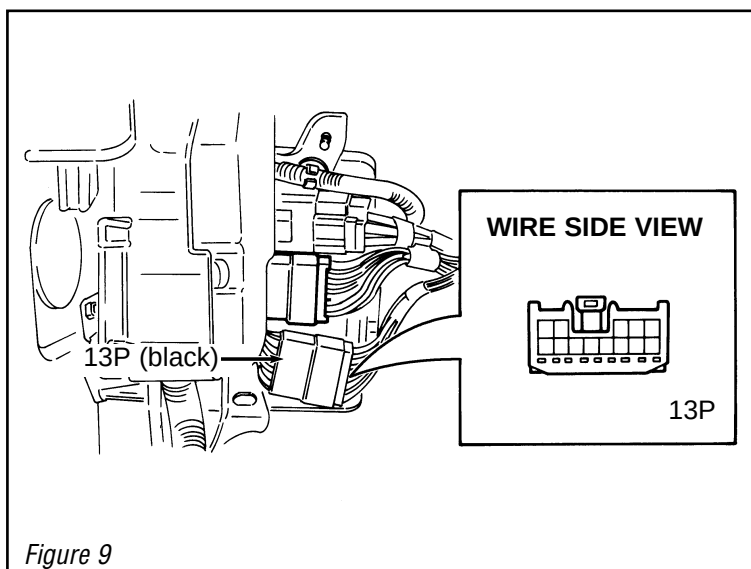


7.

- a) Remove the front scuff plate on the left side.

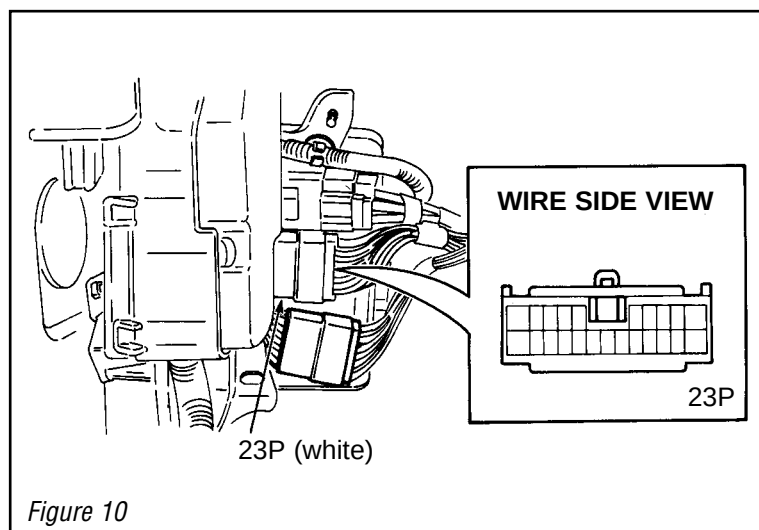


- b) Remove the front scuff plate on the right side.



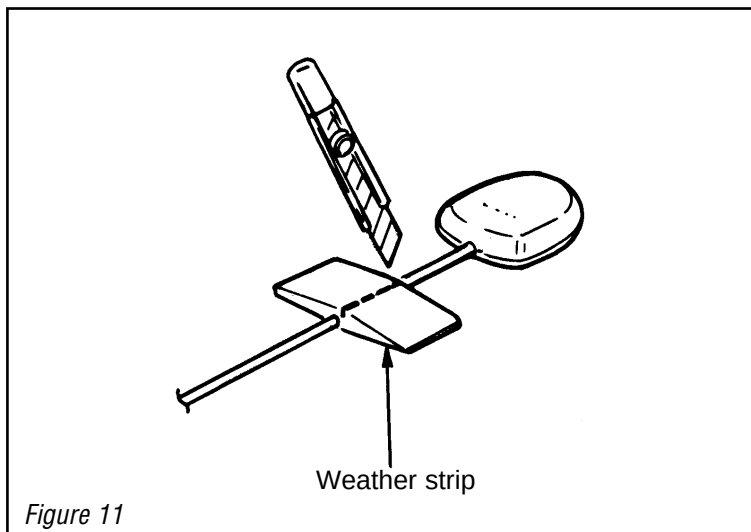
FOR M/T MODELS

8. Disconnect the 13P (black) connector. This connector is used for taking reverse signal. For the wire harness connection, see page 18.

**FOR A/T MODELS**

9. Disconnect the 23P (white) connector. This connector is used for taking reverse signal. For the wire harness connection, see page 18.

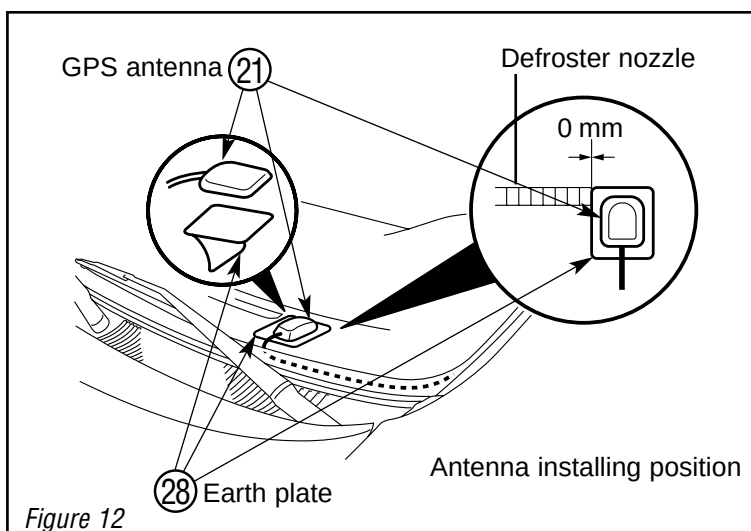
GPS ANTENNA INSTALLATION



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

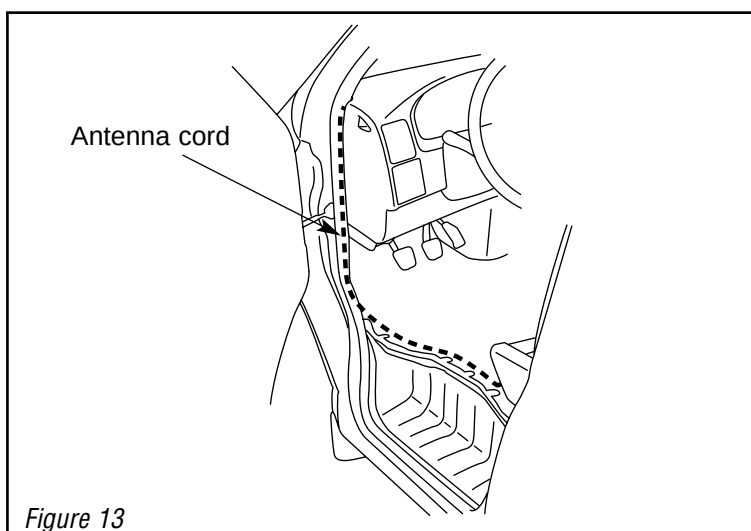
CAUTION : Be careful not to damage the antenna cord.

2. Wrap the tape ②⑥ around antenna cord, and run the wire between the windshield and instrument panel. (For cutting the tape ②⑥, see page 18).



3. Affix the earth plate ②⑧ at the location shown in the diagram and mount the antenna ②① earth plate ②⑧.

CAUTION : When affixing the earth plate ②⑧ make sure to carefully wipe off any dirt, moisture or oil from the surface of the location where it is to be affixed.



4. Wire the antenna cord to the computer ②⑩.
5. Connect the GPS antenna connector to the computer ②⑩.
6. Connect the wire harness ③ connector's (8P,13P) to the computer ②⑩.
7. Fix the wire harness ③ and antenna cord to the chassis with tape ②⑥.

WIRE HARNESS INSTALLATION

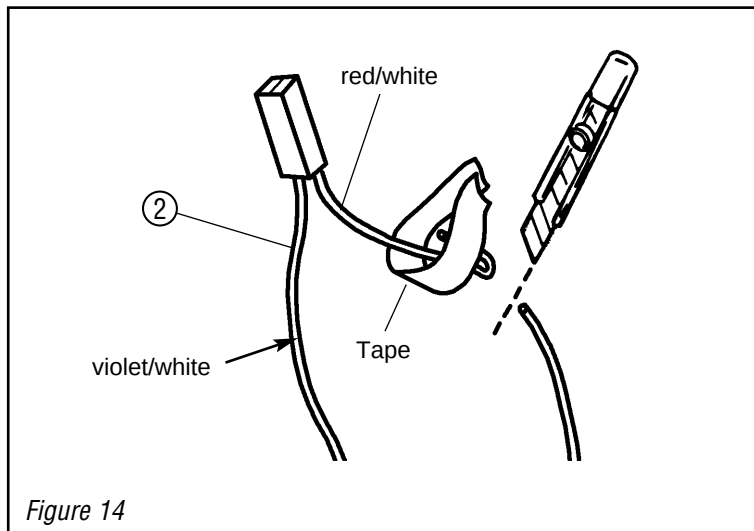


Figure 14

SPEED (SPD) SENSOR WIRE INSTALLATION

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

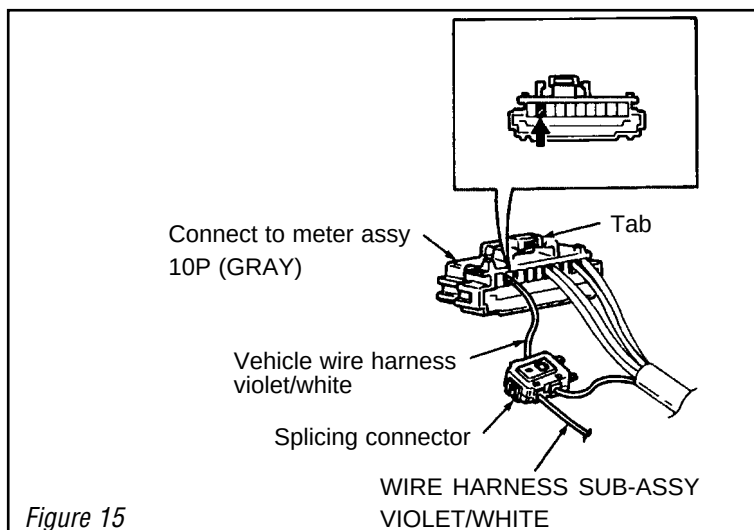


Figure 15

2.
 - a) Locate the 10P (gray) connector in the combination meter area.
 - b) Turn the connector so that the tab is on top and the wires are facing you.
 - c) Select the wire (violet/white) on the second position from the left of the connector.
 - d) Connect the violet/white wire of the wire harness sub-assy to the violet/white vehicle wire by using the splicing connector.

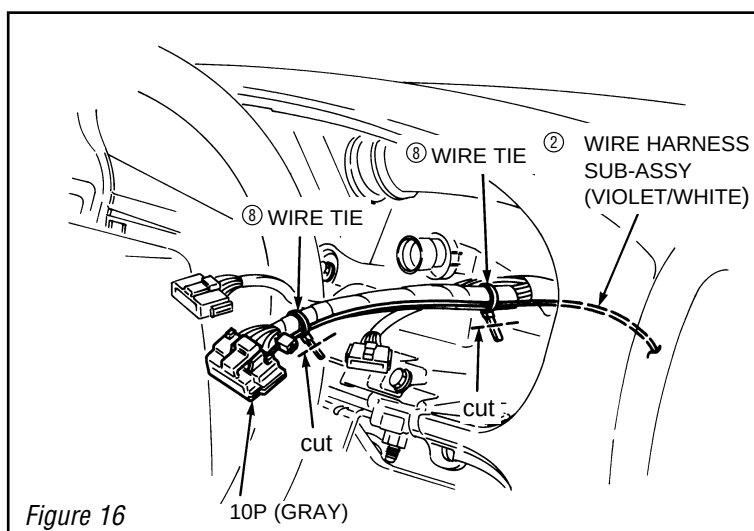
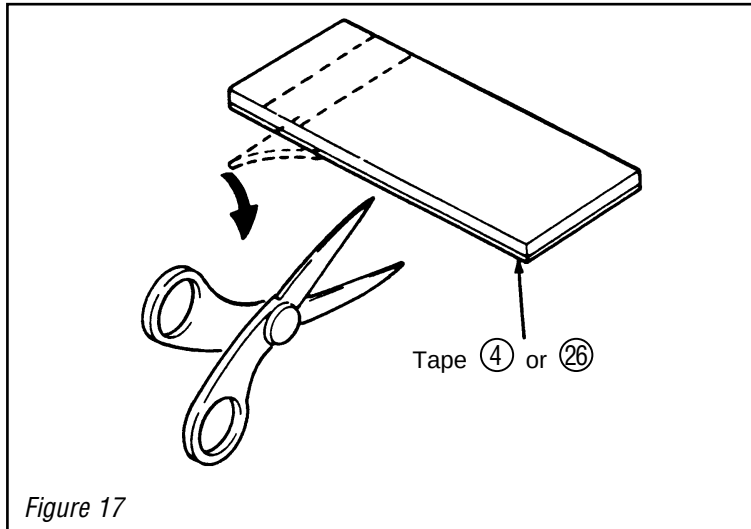
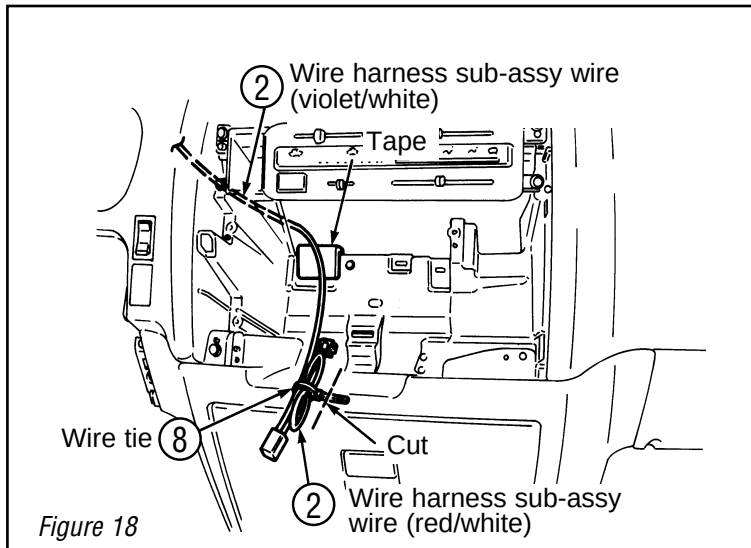


Figure 16

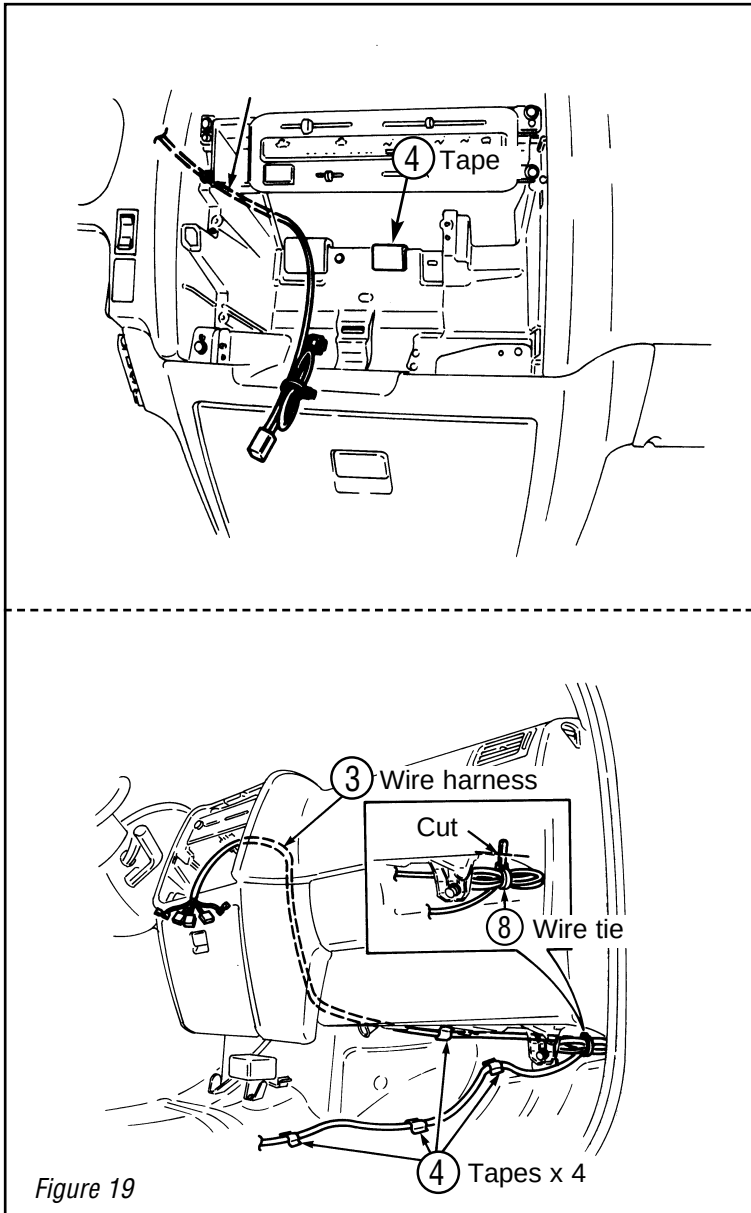
3. Secure the wire harness sub-assy ② (violet/white wire) to the vehicle wire harness with wire ties ⑧.



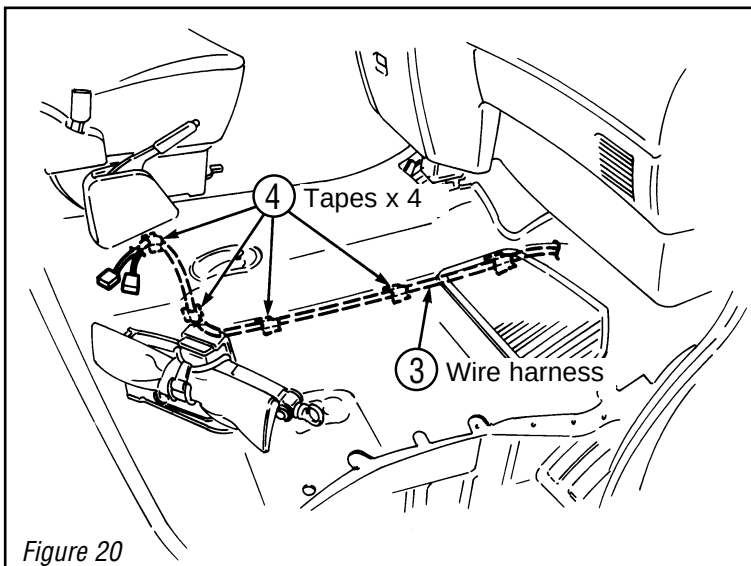
4. Cut the tape ④ (or ②⑥) into 10 equal sized pieces.



5. Attach the tape ④ to the edge of the console to protect the wire harness sub-assy ② and the reverse sensor wire (red/blue).
6. Route the wire harness sub-assy ② (violet/white wire) down, through the center cluster area.
7. Secure the wire harness sub-assy ② (red/blue wire) to the wire harness sub-assy ② (violet/white wire) with a wire tie ⑧.



8. Attach the tape ④ to the edge of the console to protect wire harness ③.
9. Route the wire harness ③ down, along the wall behind the center cluster (passenger's side), up to the glove compartment (passenger's side).
10. Secure the wire harness ③ with tape ④ and wire tie ⑧.



11. Route the wire harness ③ along the edge area under the front center (passenger's side), up to the driver's seat area.
12. Secure the wire harness ③ with tape ④.

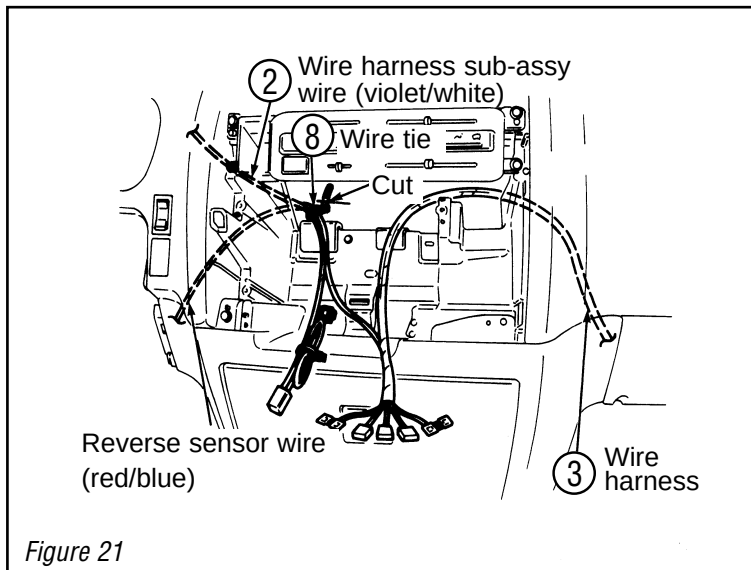


Figure 21

13. Route the reverse sensor wire (red/blue) down, to the driver's side.
14. Secure the reverse sensor wire (red/blue) to the wire harness sub-assy ② with a wire tie ⑧.

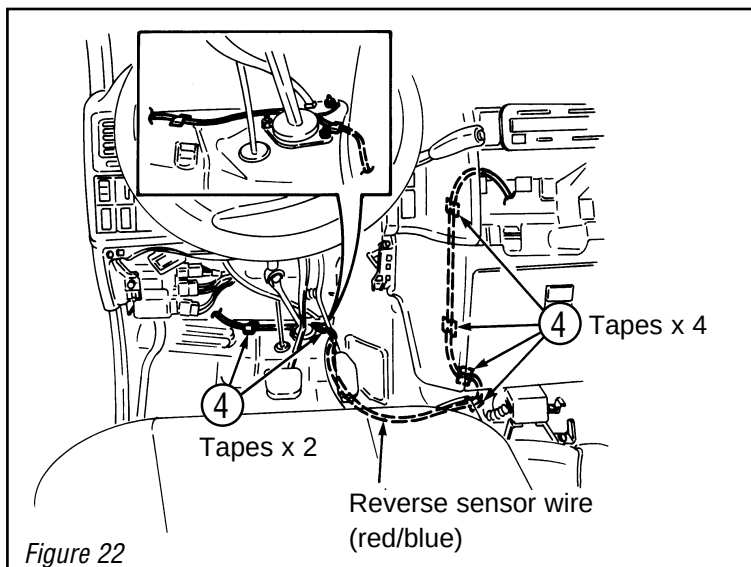


Figure 22

15. Route the reverse sensor wire (red/blue) down, along the wall behind the center cluster (driver side), up to the glove compartment (driver's side).
16. Route the reverse sensor wire (red/blue) along the edge area under the pedal area, up to the reverse sensor connector's area.
17. Secure the reverse sensor wire (red/blue) with tape ④.

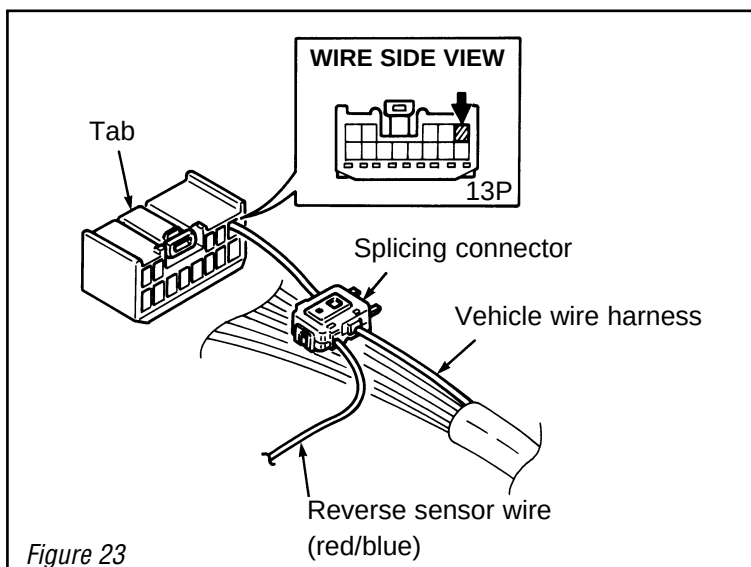
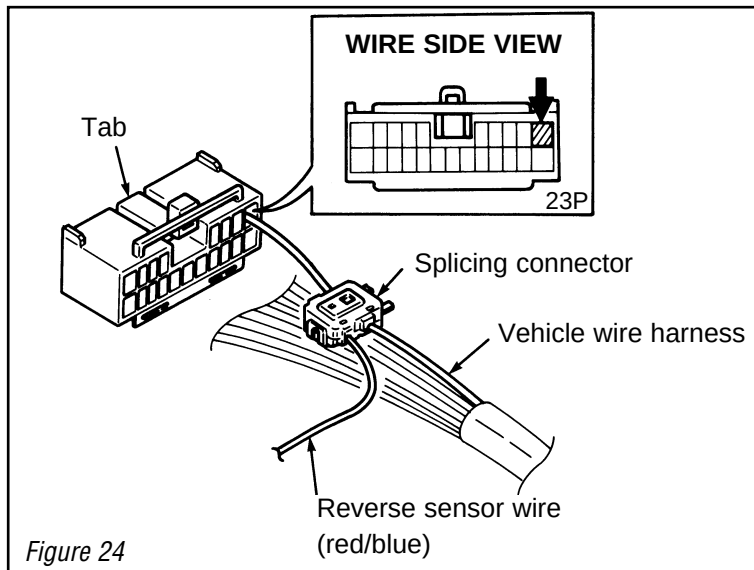


Figure 23

FOR M/T MODELS

SPEED SIGNAL WIRE INSTALLATION

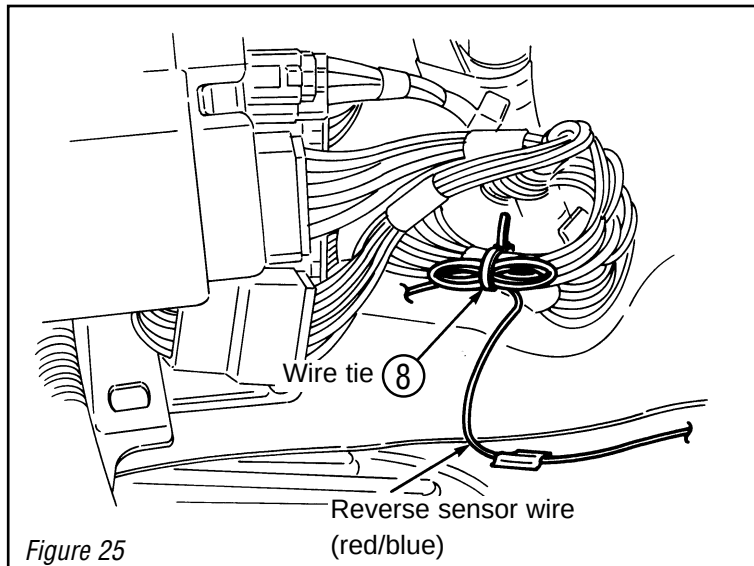
- a) At the rear of the 13P (black) connector (See fig. 9 page 15) select the black/red wire on the first position from the right on the top row.
- b) Attach the wire harness ② (red/blue) wire to the vehicle wire (black/red) by the splicing connector.



FOR A/T MODELS

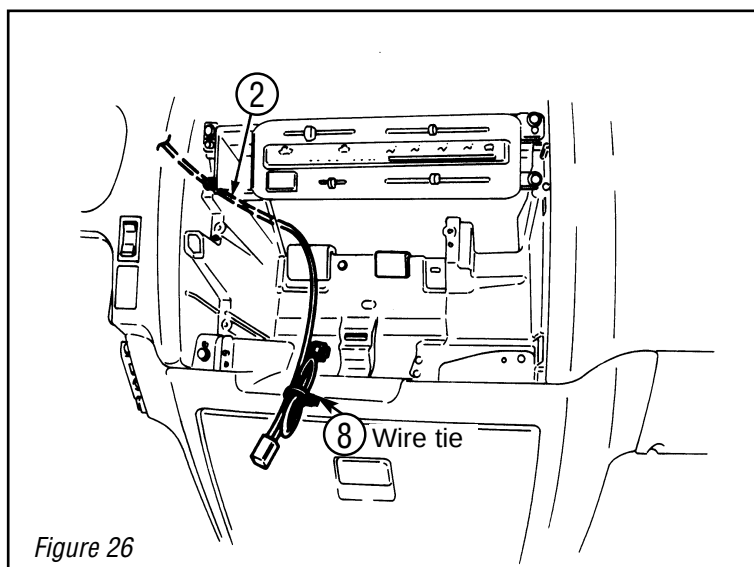
SPEED SIGNAL WIRE INSTALLATION

- At the rear of the 23P (white) connector (See fig. 10 page 16) select the black/red wire on the first position from the right on the top row.
- Attach the wire harness ② (red/blue) wire to the vehicle wire (black/red) by the splicing connector.



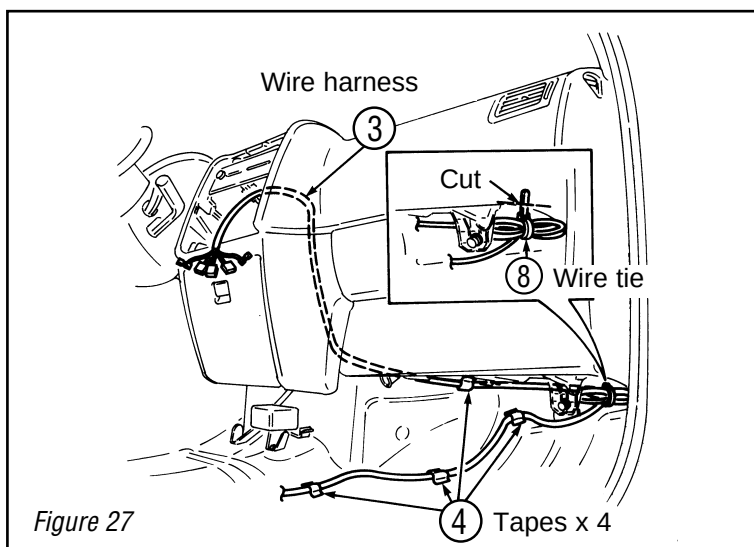
FOR ALL MODELS

- Reconnect the connector.
- Secure the reverse sensor wire (red/blue) to the vehicle wire harness with a wire tie ⑧.

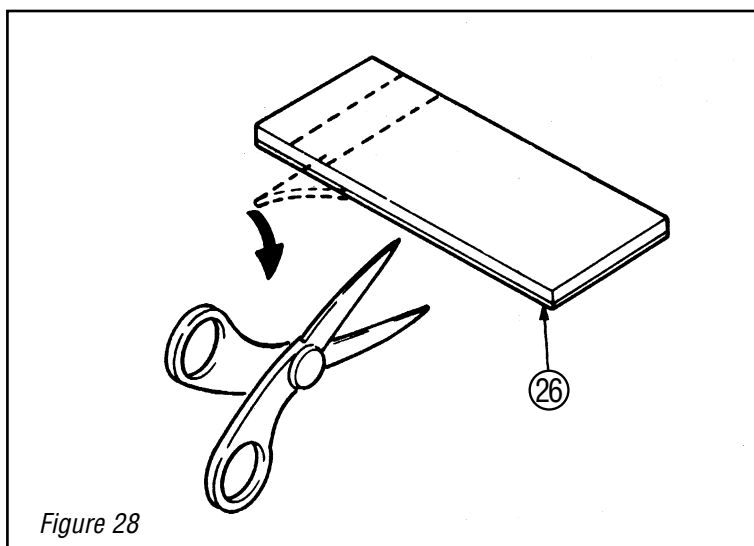


MAIN WIRE HARNESS INSTALLATION

Route the main wire harness ② as shown and attach with wire ties ⑧.



Route the main wire harness ③ and the antenna cord.



Cut the tape ②⑥ into several equal pieces.

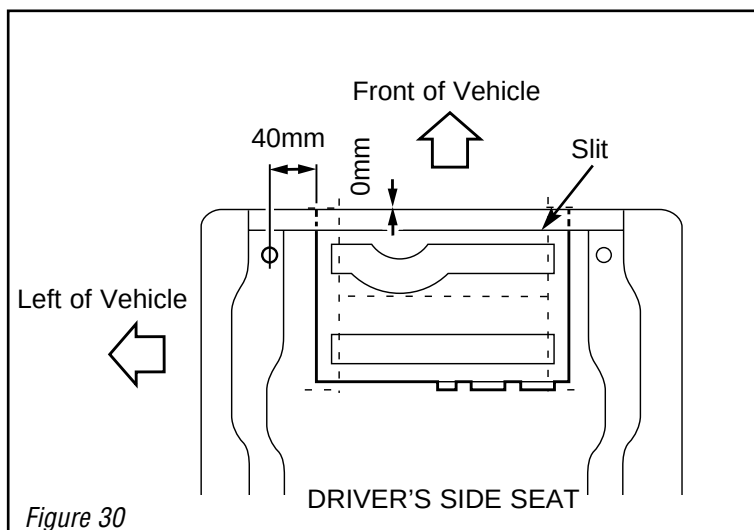
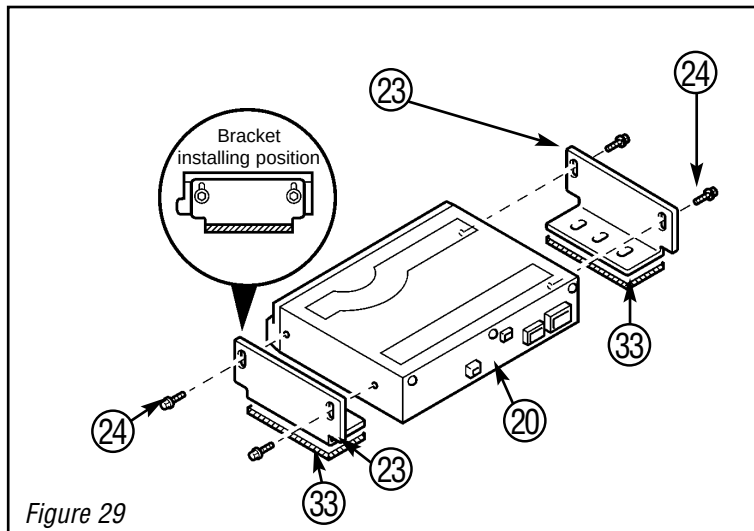
NAVIGATION ECU INSTALLATION



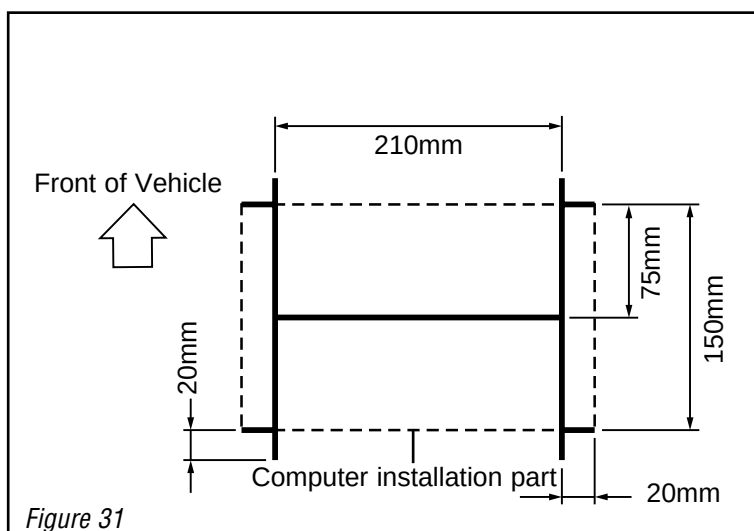
WITHOUT CD CHANGER

1. Temporarily place the brackets ② on the computer ②.
② : Bolts (M5 x 8) (4x)
2. Attach the adhesive tapes ③ to the under part of the brackets ②.

CAUTION : Do not remove the release paper on the under side of the adhesive tapes ③ yet.



3. Slit the carpet in the computer installation area as shown left.



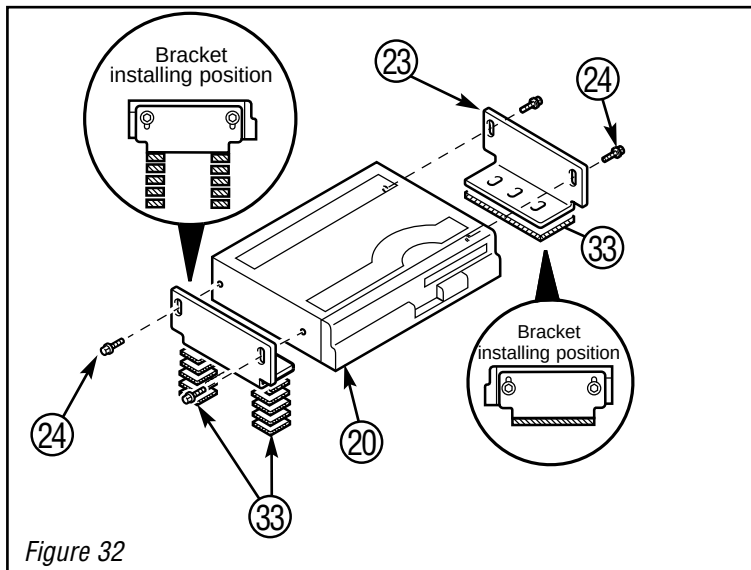


Figure 32

WITH CD CHANGER

FRONT 1 + 2 SEAT

1. Temporarily place the brackets ②③ on the computer ②①.
②④ : Bolts (M5 x 8) (4x)
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.

3. Slit the carpet in the computer installation area as shown left.

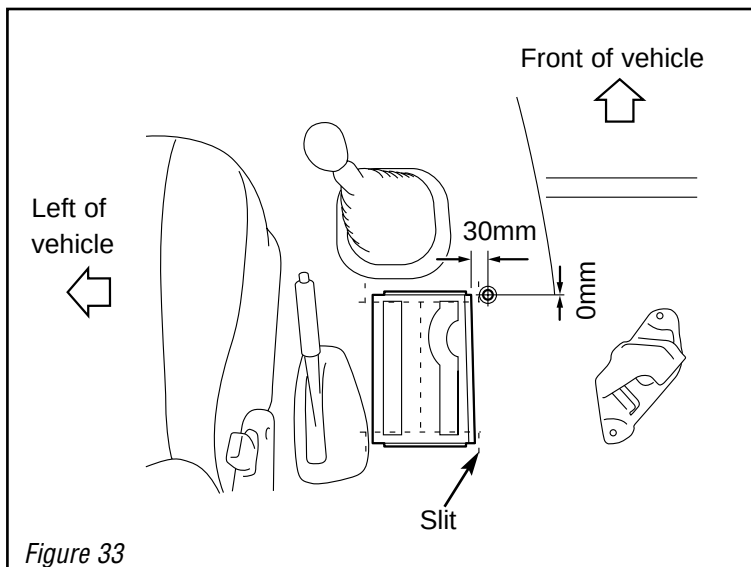


Figure 33

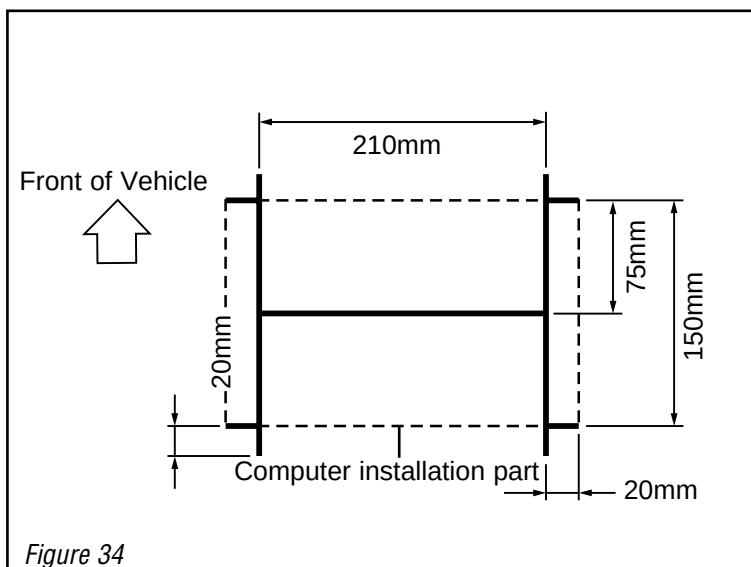
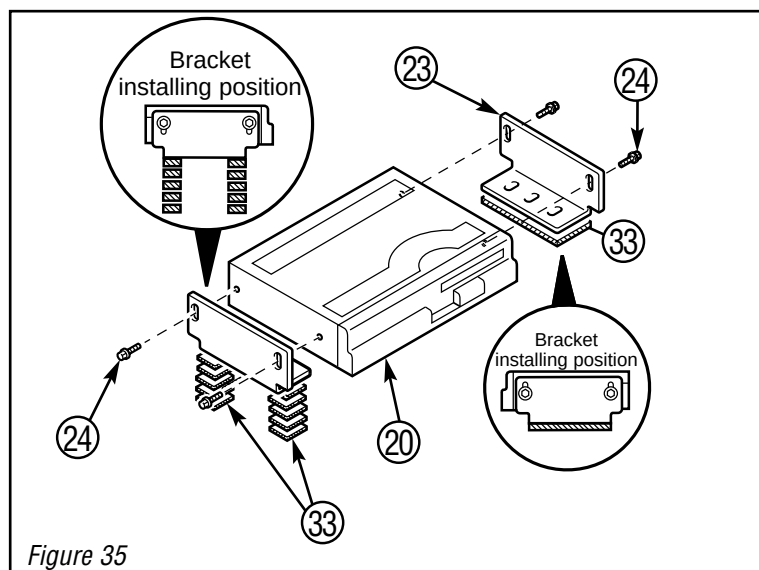


Figure 34

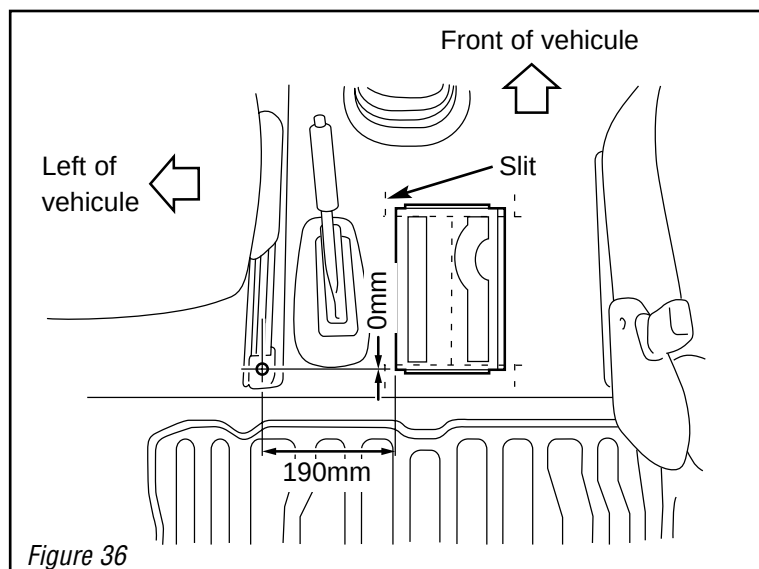


WITH CD CHANGER

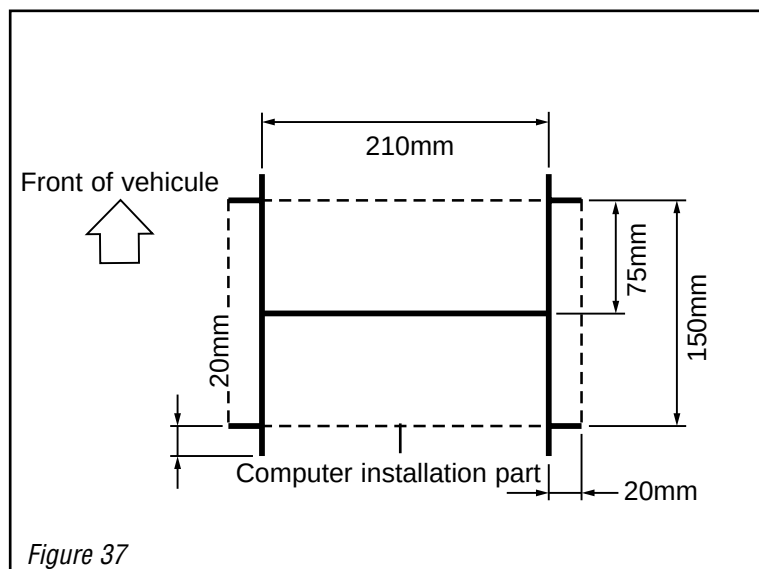
FRONT 1 + 1 SEAT

1. Temporarily place the brackets (23) on the computer (20).
 (24) : Bolts (M5 x 8) (4x)
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.



3. Slit the carpet in the computer installation area as shown left.



FOR ALL MODELS

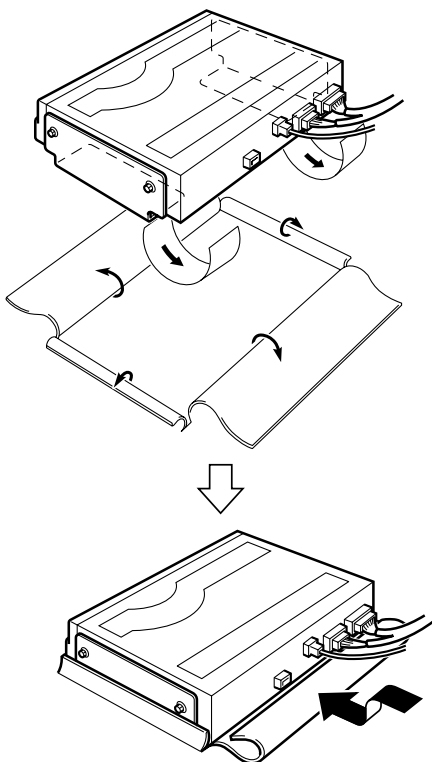


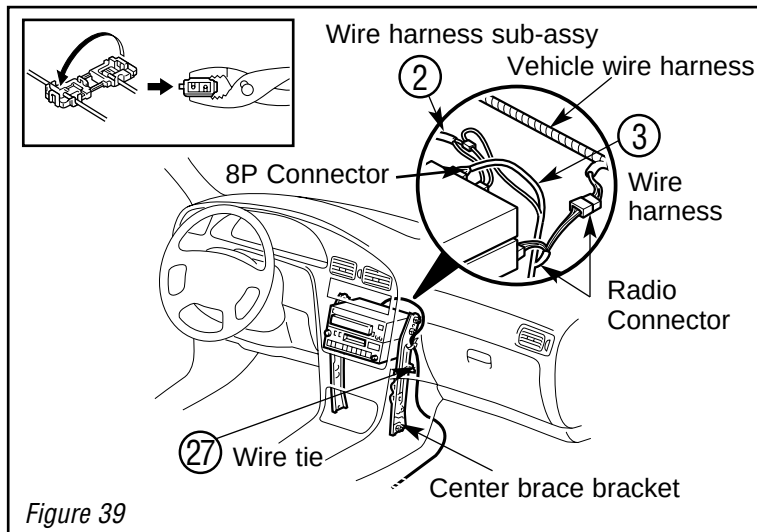
Figure 38

1. Install the computer ⑳ to the slit.

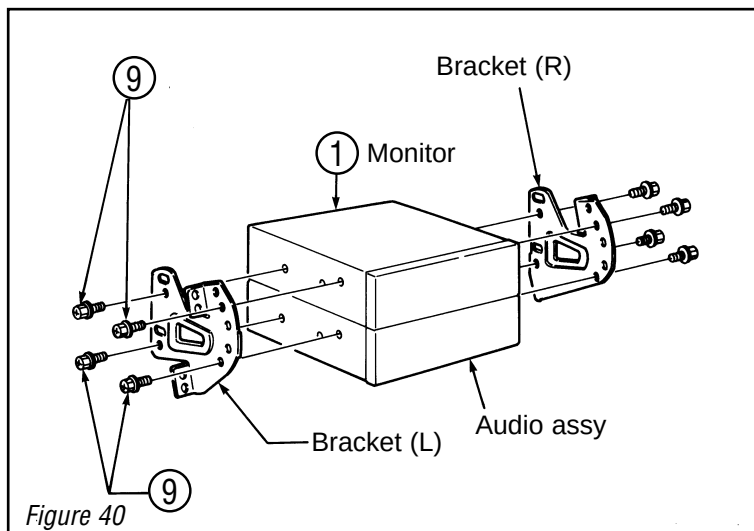
CAUTION : When affixing the computer ⑳ make sure to carefully wipe off any dirt, moisture or oil from the surface of the location where it is to be affixed.

2. Push the slitted carpet under the computer ⑳.

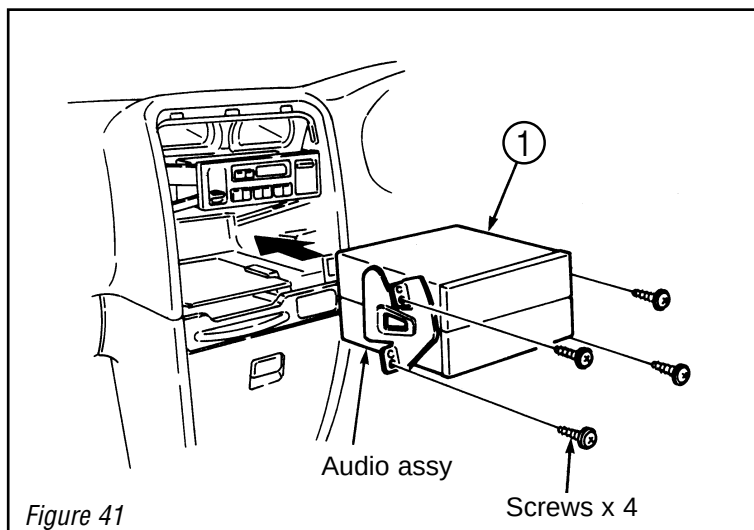
MONITOR INSTALLATION



1. Secure the wire harness ③ to the center brace bracket with the wire tie ②⑦.
2. Connect the splicing connector of wire harness ③ to the violet/white wire of the wire harness sub-assy ② of the monitor ①.
3. Connect the wire harness ③ radio connector to the audio assy, and 8P connector to the monitor ①.



4. Mount the brackets onto the monitor ① and audio assy.

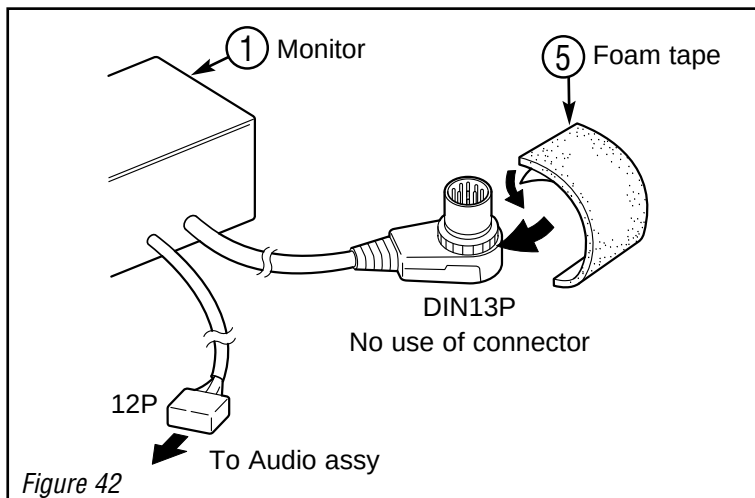


5. After connecting the wire harness to the monitor ① and the audio assy, install the monitor ① and the audio assy.

WIRE HARNESS CONNECTION



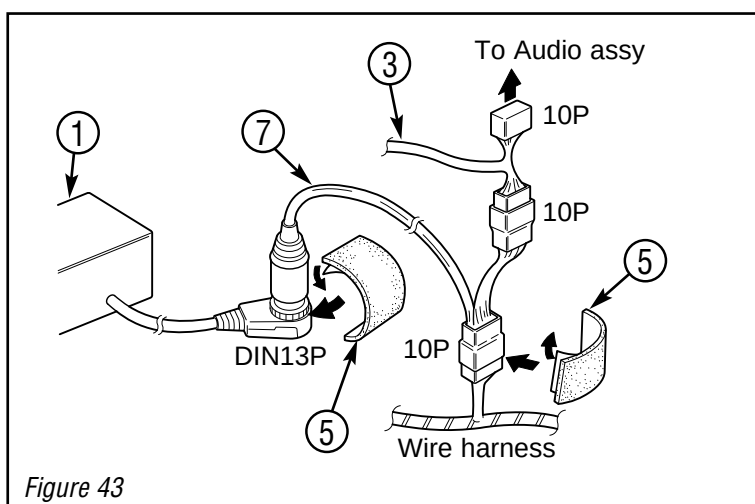
AUDIO ASSY + NAVIGATION SYSTEM



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

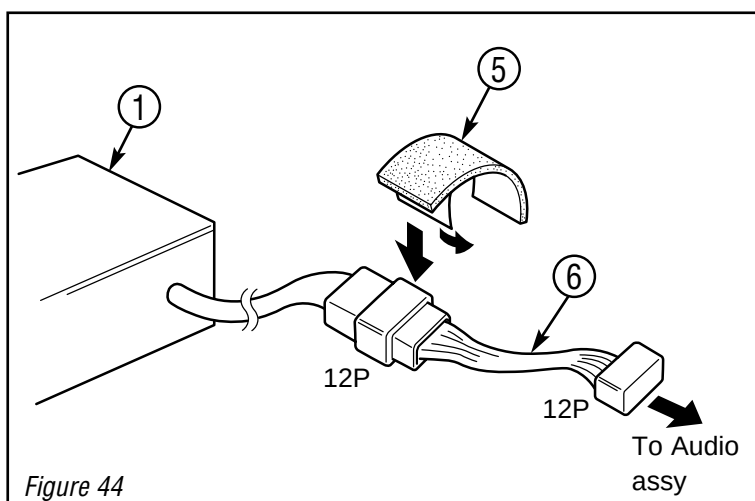
FOR FUJITSU TEN AUDIO UNITS

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.



FOR MATSUSHITA AUDIO UNITS

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.



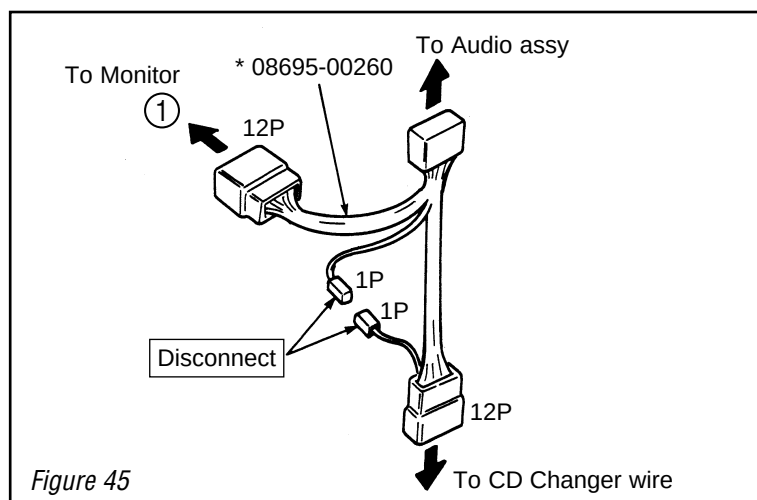
3. Connect the wire harness sub-assy ⑥ to the monitor ① 12P connector and the audio assy.
4. Wrap the 12P connector in the foam ⑤.

AUDIO ASSY + NAVIGATION SYSTEM + CD CHANGER

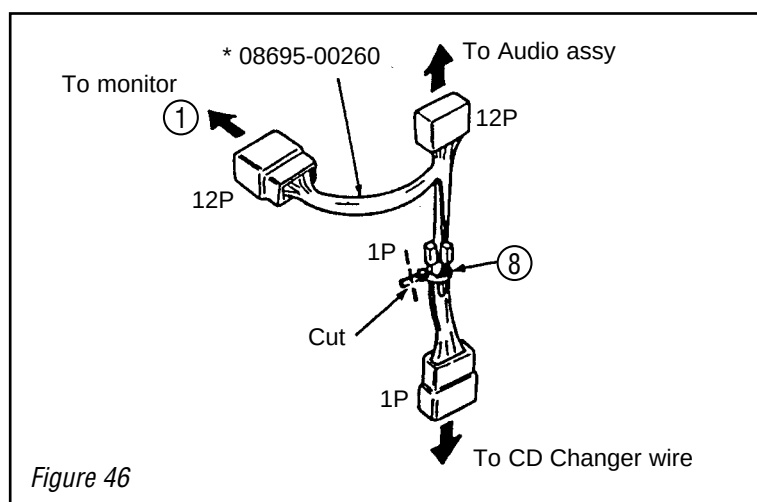
*NOTE : In case a CD Changer is installed in conjunction with a navigation system, wire harness 08695-00260 is necessary. 08695-00260 is not included in the navigation kit but to be ordered separately.

FOR FUJITSU TEN AUDIO UNITS

1. Disconnect the 1P connectors.

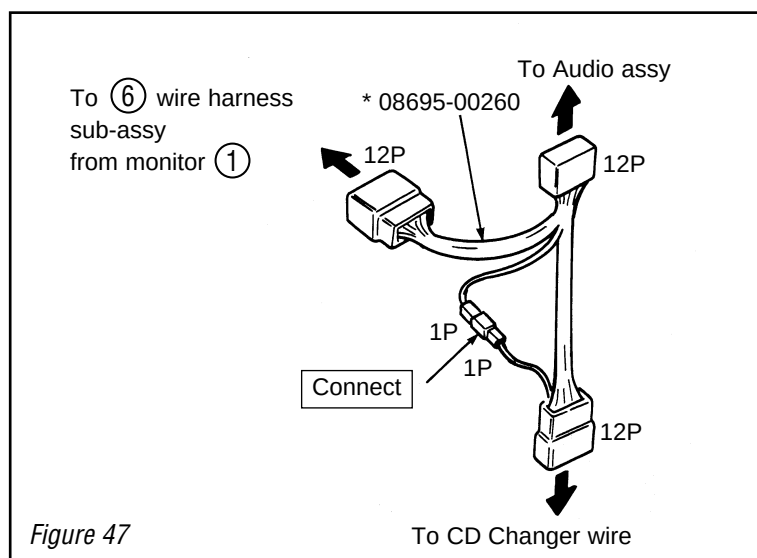


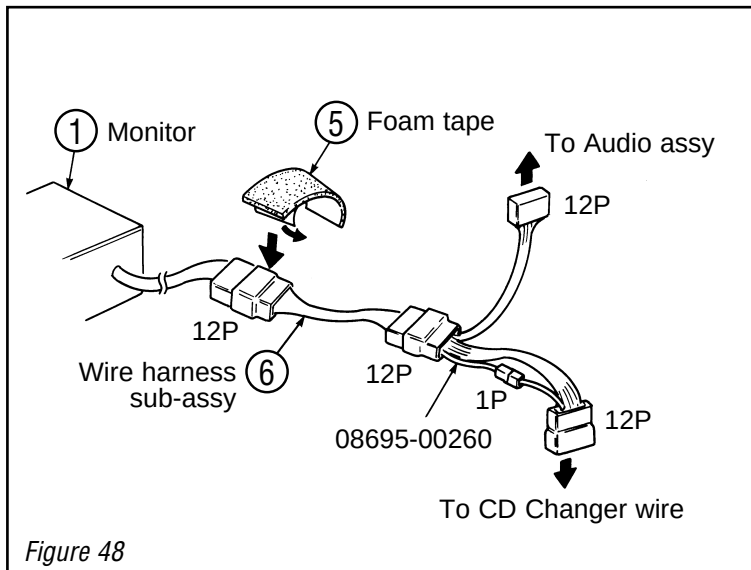
2. Secure the 1P connectors with wire tie (8).



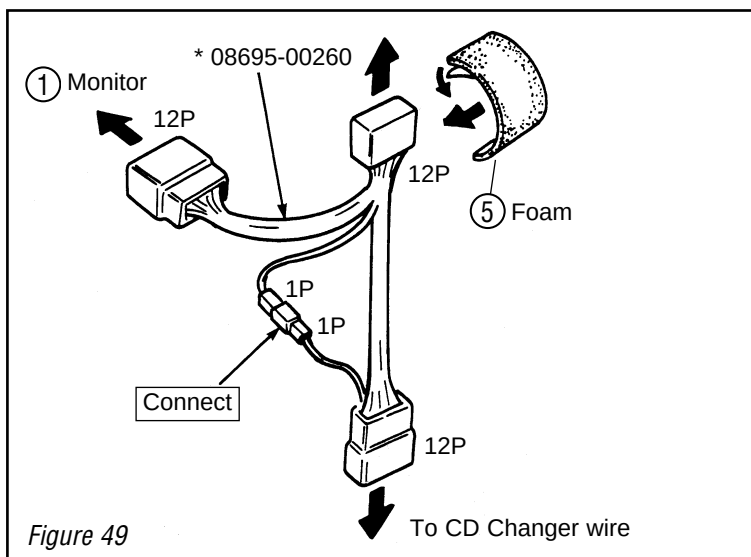
FOR MATSUSHITA AUDIO UNITS

1. Connect the 1P connectors.





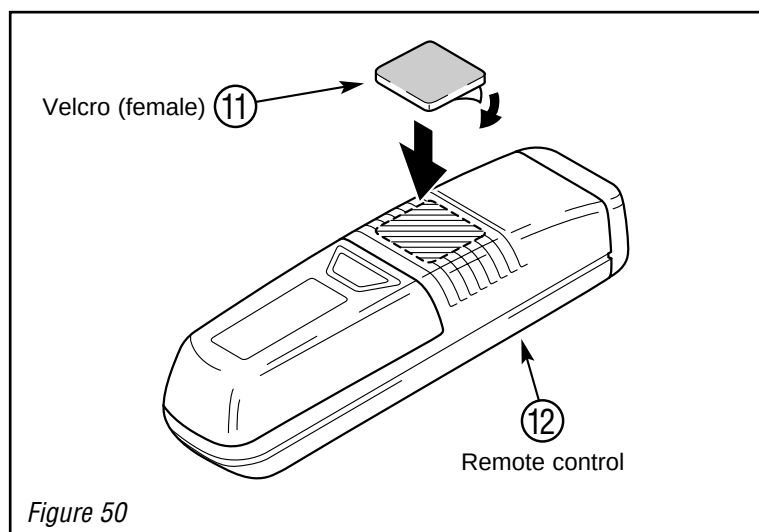
2. Attach the 1P connectors to the 08695-00260 wire with a wire tie ⑧.



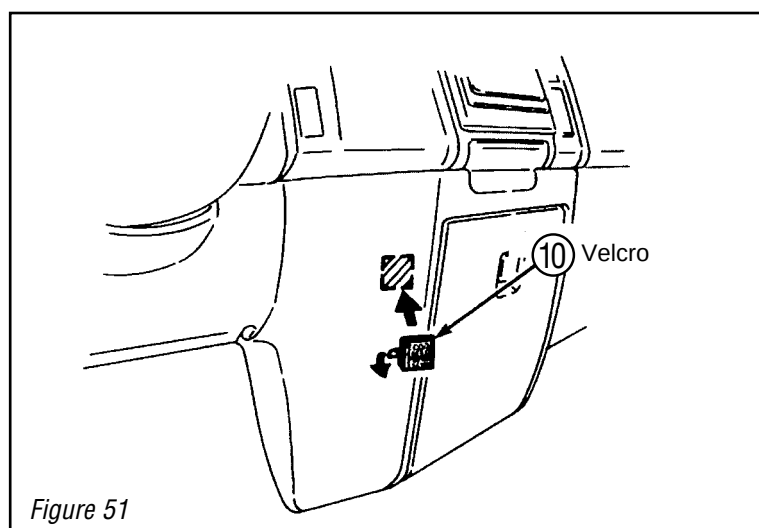
**FOR MOP AUDIO ASSY
WITHOUT AVC-LAN**

- a) Connect the 1P connectors.
- b) Wrap the 12P connector (female) in the foam ⑤.

STORAGE OF THE REMOTE CONTROL

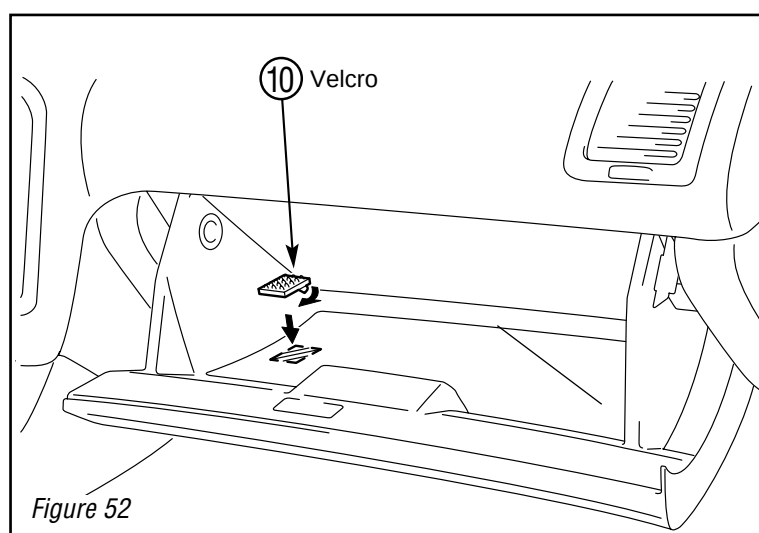


Stick the “soft” part of the Velcro ⑪ to the rear of the remote control.



NORMAL STORAGE

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



HIDE AWAY STORAGE

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

SYSTEM START UP



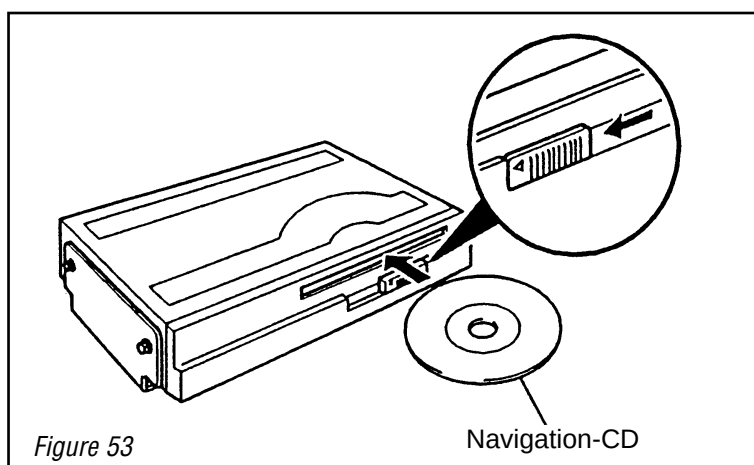
POST-INSTALLATION INSPECTION

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.

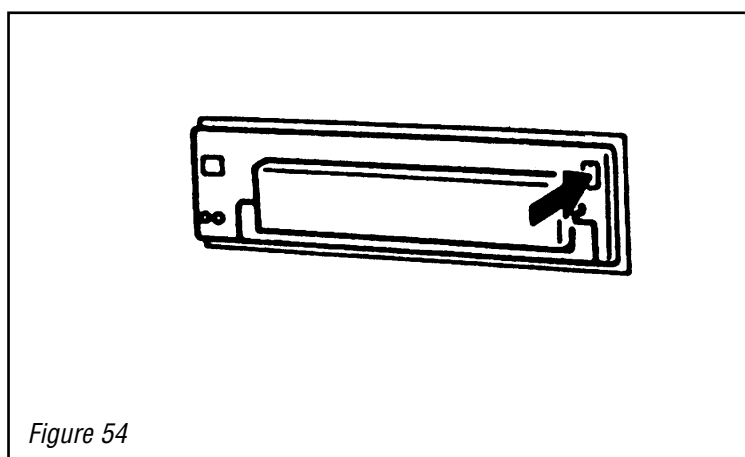
Use additional foam tape ⑤ or ②⑥ wherever necessary to prevent any damage.

CD-ROM INSERTION INTO THE COMPUTER

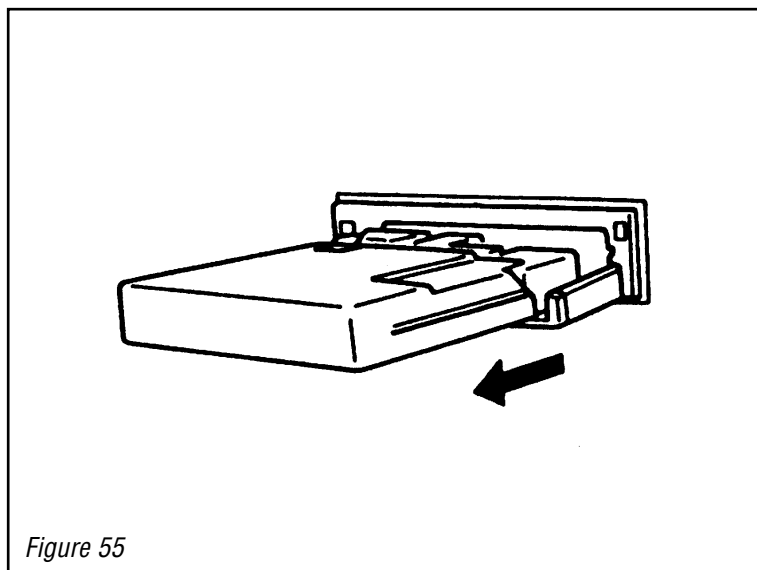


1. Connect the battery and turn the ignition switch to the ACC position.
2. Slide the eject switch on the computer to the left to open the disc insertion slot.
3. With the label side of the disc facing up, insert the disc into the disc insertion slot.
* The disc will be pulled into the computer automatically.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

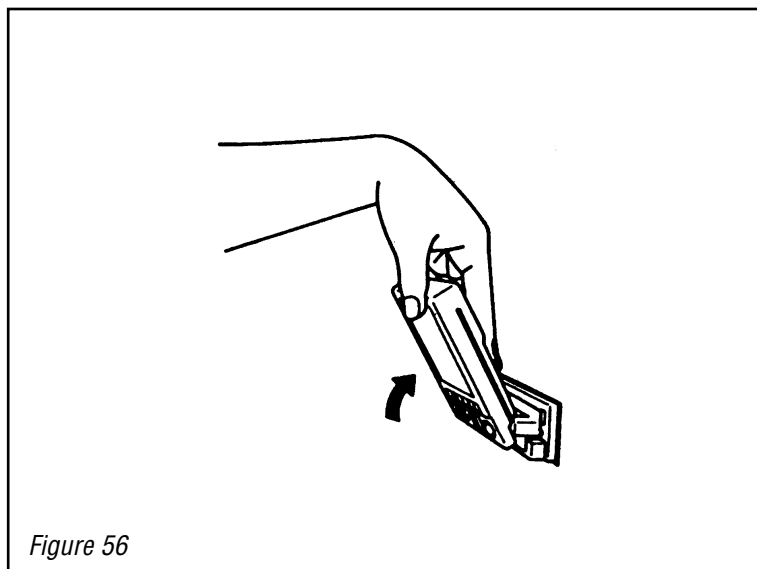
OPERATION CHECK



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.

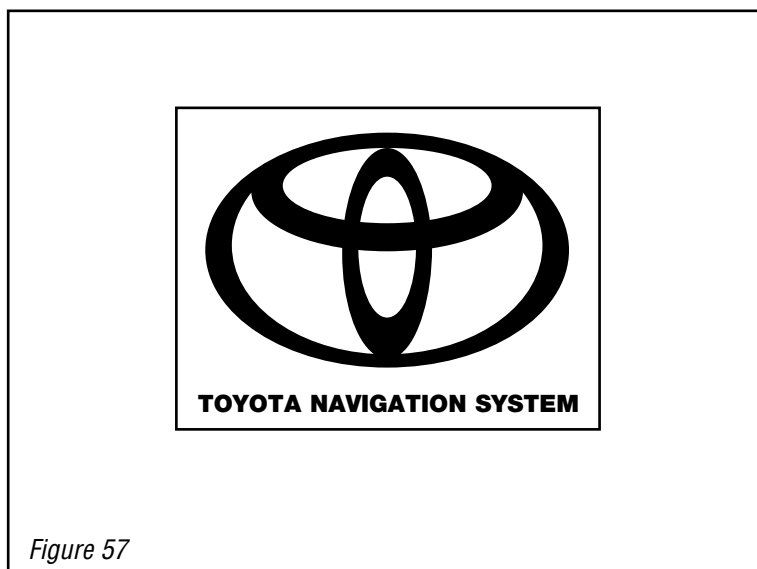


b) The display will slide out.

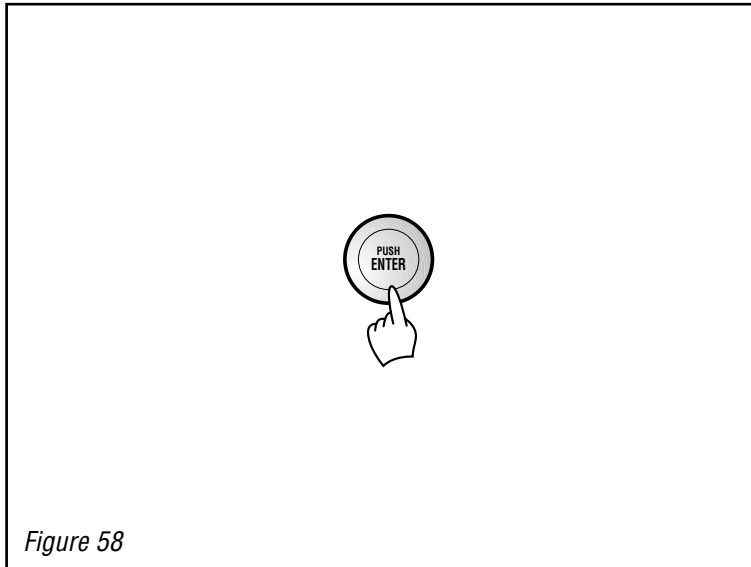


3.

a) Raise the display by hand.



b) An image will appear on the screen.

*Figure 58*

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.

TOYOTA
GENUINE PARTS