

SECTION **AV**

AUDIO, VISUAL & NAVIGATION SYSTEM

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PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000005158179

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIR BAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

PREPARATION

< PREPARATION >

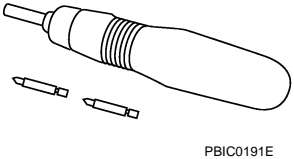
[AUDIO LESS]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000004983596

Tool name	Description
<p>Power tool</p>  <p>PBIC0191E</p>	<p>Loosening bolts and nuts</p>

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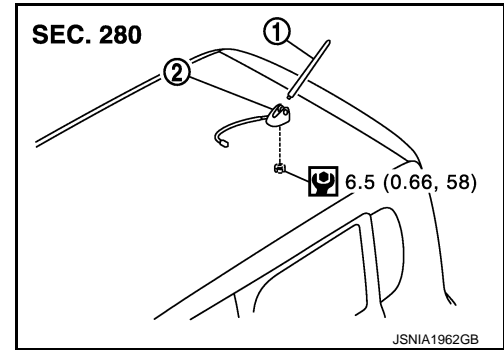
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REMOVAL AND INSTALLATION

ANTENNA BASE

Exploded View

INFOID:000000005087551



1. Antenna rod
2. Antenna base

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000005087552

REMOVAL

1. Remove luggage side upper finisher. Refer to [INT-23, "Exploded View"](#).
2. Remove assist grip and headlining clips. Refer to [INT-20, "Exploded View"](#).
3. Pull headlining (rear). Obtain a service area.
4. Remove antenna base mounting nut.
5. Remove antenna base.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be careful about tightening torque. Antenna sensitivity becomes poor, and when it is excessive, roof panel may be deformed, when antenna base mounting nut tightening torque is loose.

ANTENNA FEEDER

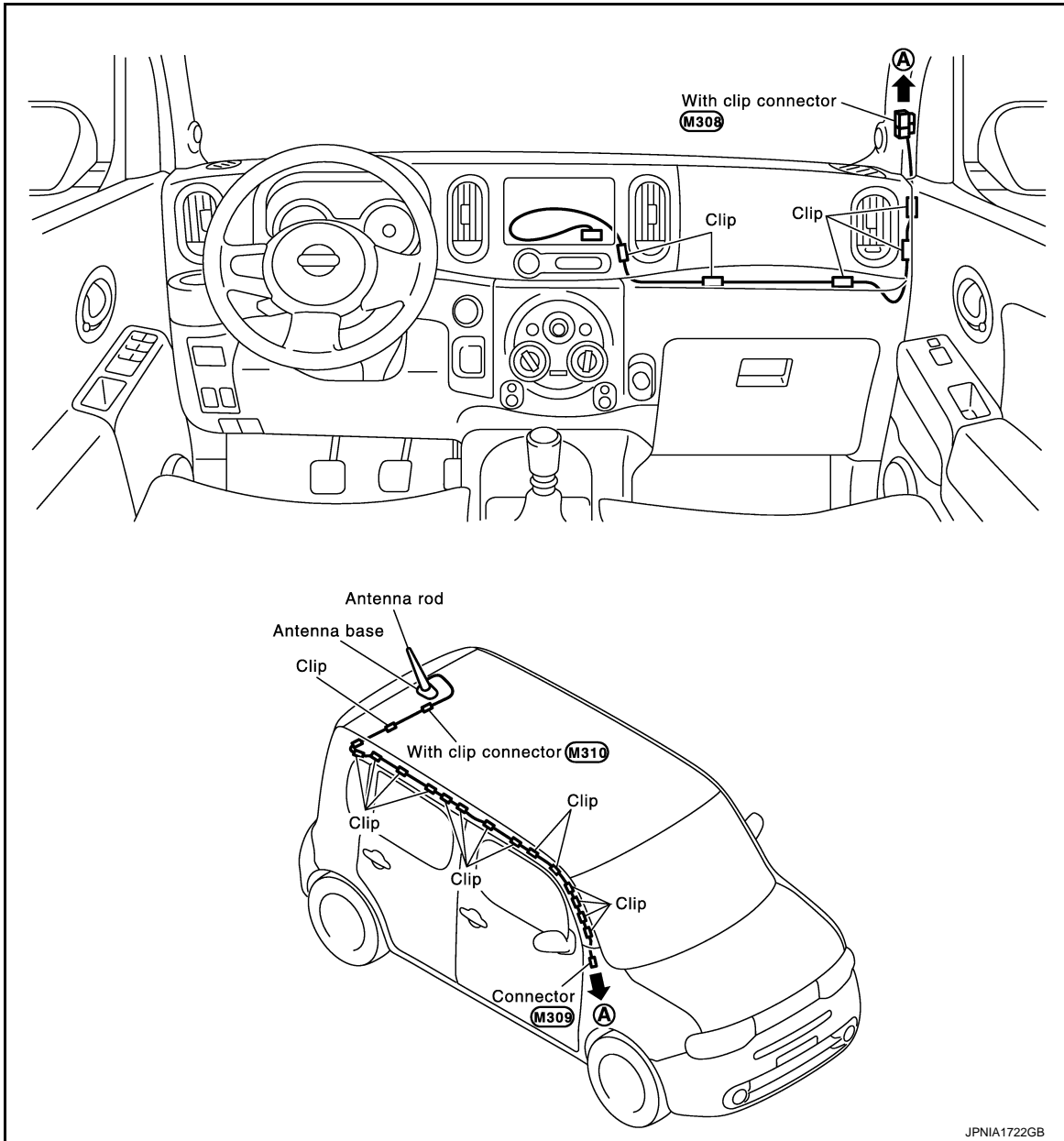
< REMOVAL AND INSTALLATION >

[AUDIO LESS]

ANTENNA FEEDER

Harness Layout

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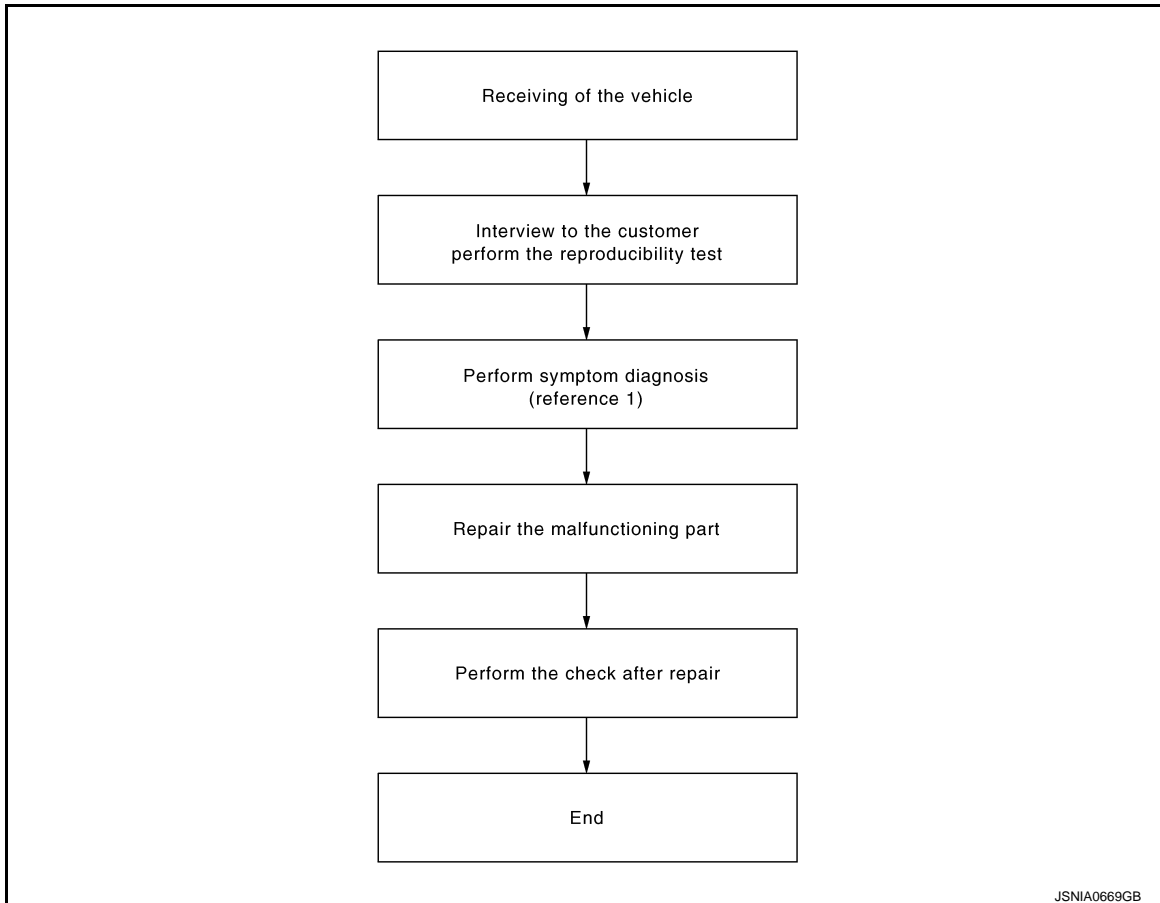
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000004940210

OVERALL SEQUENCE



Reference 1 ... Refer to [AV-122, "Symptom Table"](#).

DETAILED FLOW

1. CHECK SYMPTOM

Check the malfunction symptoms by performing the following items.

- Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred).
- Check the symptom.

>> GO TO 2.

2. PERFORM DIAGNOSIS BY SYMPTOM

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to [AV-122, "Symptom Table"](#).

>> GO TO 3.

3. REPAIR OR REPLACE MALFUNCTIONING PARTS

Repair or replace the malfunctioning parts.

>> GO TO 4.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[AUDIO SYSTEM]

4.FINAL CHECK

Perform the operation to check that the malfunction symptom is solved or any other symptoms are present.

Is there any symptom?

YES >> GO TO 2.

NO >> INSPECTION END

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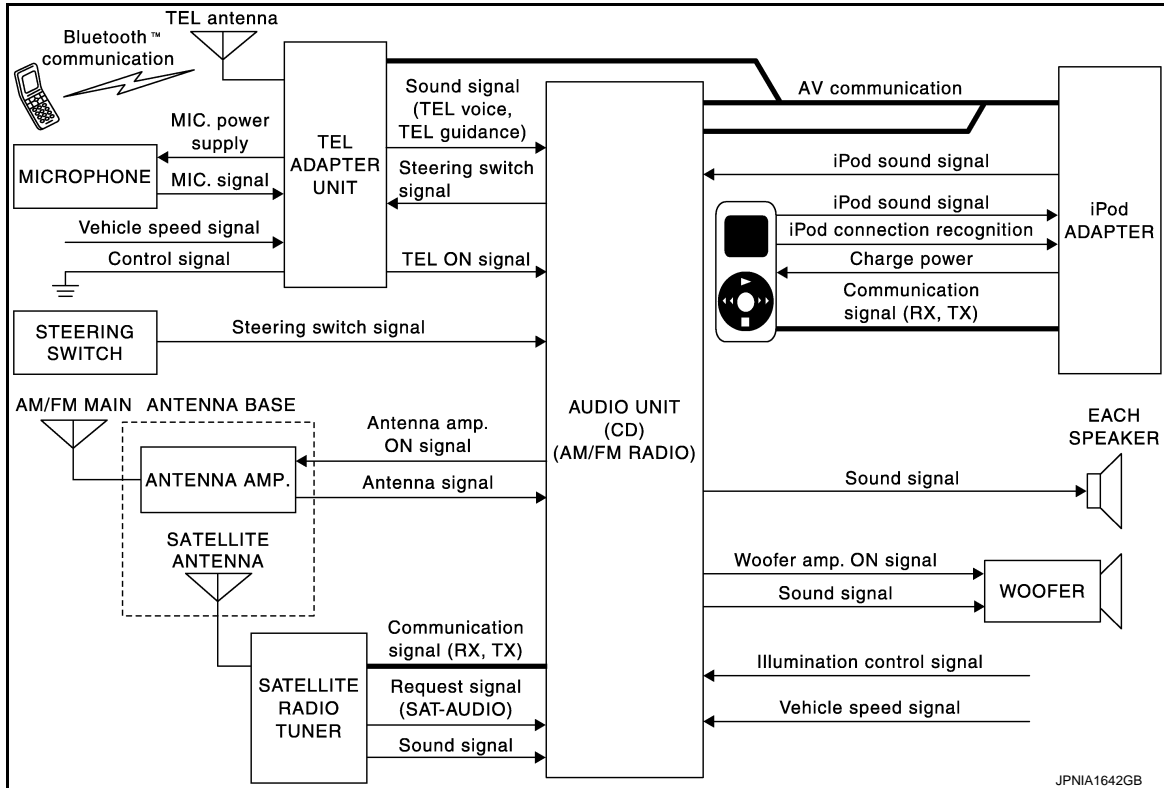
SYSTEM DESCRIPTION

AUDIO SYSTEM

System Diagram

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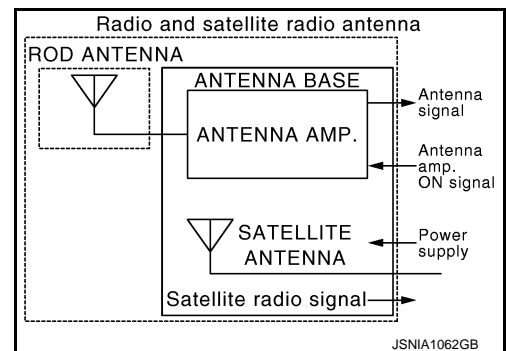
MODELS WITH iPod® CONNECTION FUNCTION AND HANDS-FREE PHONE SYSTEM



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NOTE:

An antenna base integrated with radio antenna amp. and satellite radio antenna is adopted.



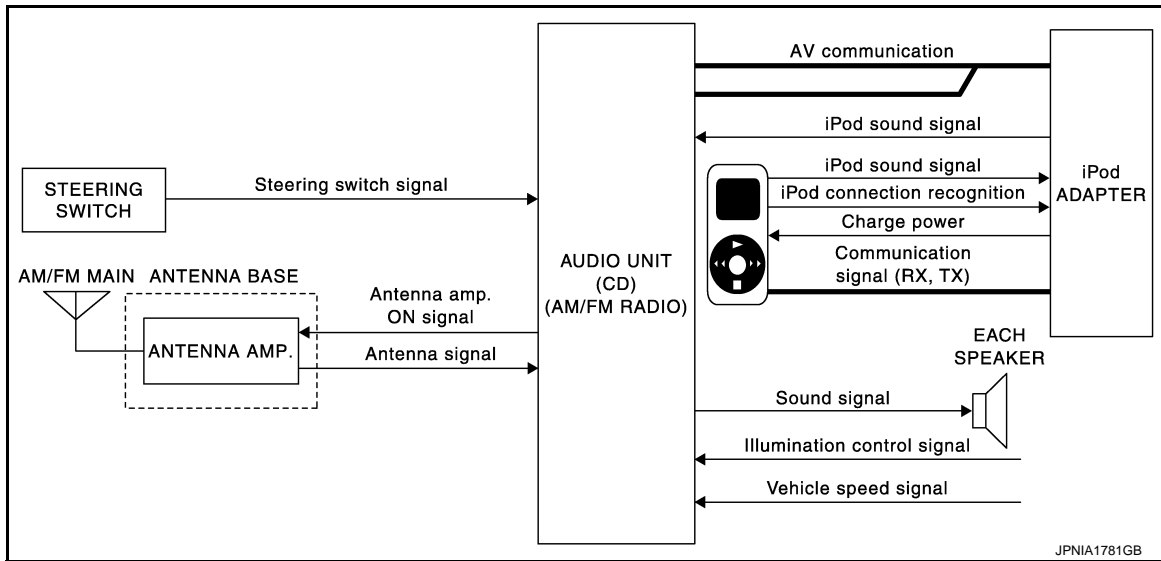
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AUDIO SYSTEM

< SYSTEM DESCRIPTION >

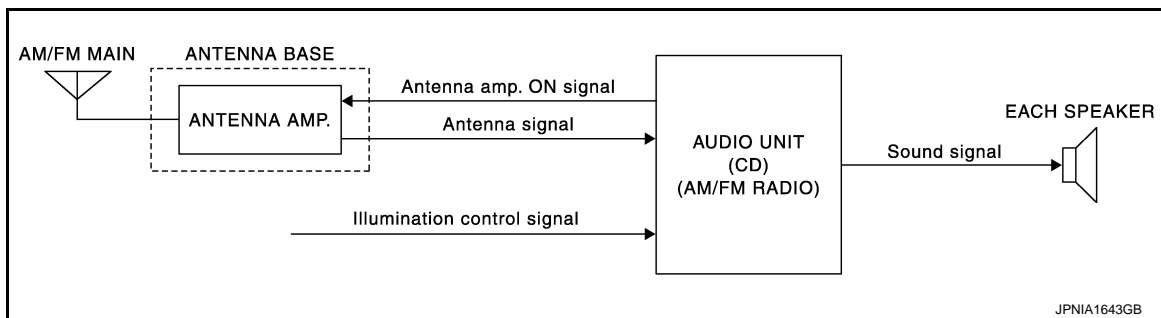
[AUDIO SYSTEM]

MODELS WITH iPod® CONNECTION FUNCTION



NOTE:
An antenna base integrated with radio antenna amp. is adopted.

MODELS WITHOUT iPod® CONNECTION FUNCTION



NOTE:
An antenna base integrated with radio antenna amp. is adopted.
iPod® is a trademark of Apple inc., registered in the U.S. and other countries.

System Description

INFOID:000000004940212

AUDIO SYSTEM

Audio functions

×: Applicable

	Models without iPod® connection function	Models with iPod® connection function	Models with iPod® connection function and hands-free phone system
AM/FM radio	×	×	×
CD	×	×	×
AUX connection	×	×	×
iPod® connection	—	×	×
Speed sensitive volume	—	×	×
Satellite radio	—	—	×
Hands-free phone system	—	—	×

iPod® is a trademark of Apple inc., registered in the U.S. and other countries.

When the audio system is on, radio signals are received by the radio antenna. The audio unit then sends audio signals to the each speaker.

FUNCTION DESCRIPTION

AUDIO SYSTEM

< SYSTEM DESCRIPTION >

[AUDIO SYSTEM]

AM/FM Radio Mode

- AM/FM radio tuner is built into audio unit.
- Radio signals are received by radio antenna, next they are amplified by antenna amp., and finally they are input to audio unit. (Antenna amp. is built into antenna base.)
- Audio unit outputs the sound signal to each speaker. (models without woofer)
- Audio unit outputs the sound signal to woofer and each speaker. (models with woofer)

Satellite Radio System

- Radio signals are supplied to satellite radio tuner from the satellite radio antenna. (satellite radio antenna is built into antenna base.)
- The satellite radio tuner sends sound signal to the audio unit.
- Audio unit outputs the sound signal to each speaker. (models without woofer)
- Audio unit outputs the sound signal to woofer and each speaker. (models with woofer)

iPod® Connection

- Connect iPod® and iPod adapter with wire harness and iPod adapter input iPod sound signal from iPod®.
- When iPod mode is selected, iPod adapter outputs iPod sound signal to audio unit.
- Audio unit outputs the sound signal to each speaker. (models without woofer)
- Audio unit outputs the sound signal to woofer and each speaker. (models with woofer)

AUX Connection

- When the external device is connected to the AUX (auxiliary) input jack of the audio unit, the external device inputs a sound signal to the audio unit.
- When AUX mode is selected, audio unit outputs sound signal to each speaker. (models without woofer)
- When AUX mode is selected, audio unit outputs sound signal to woofer and each speaker. (models with woofer)

Speed Sensitive Volume

- Volume level of this system goes up and down automatically in proportion to the vehicle speed.
- The control level can be selected by the customer.

Component Parts Location

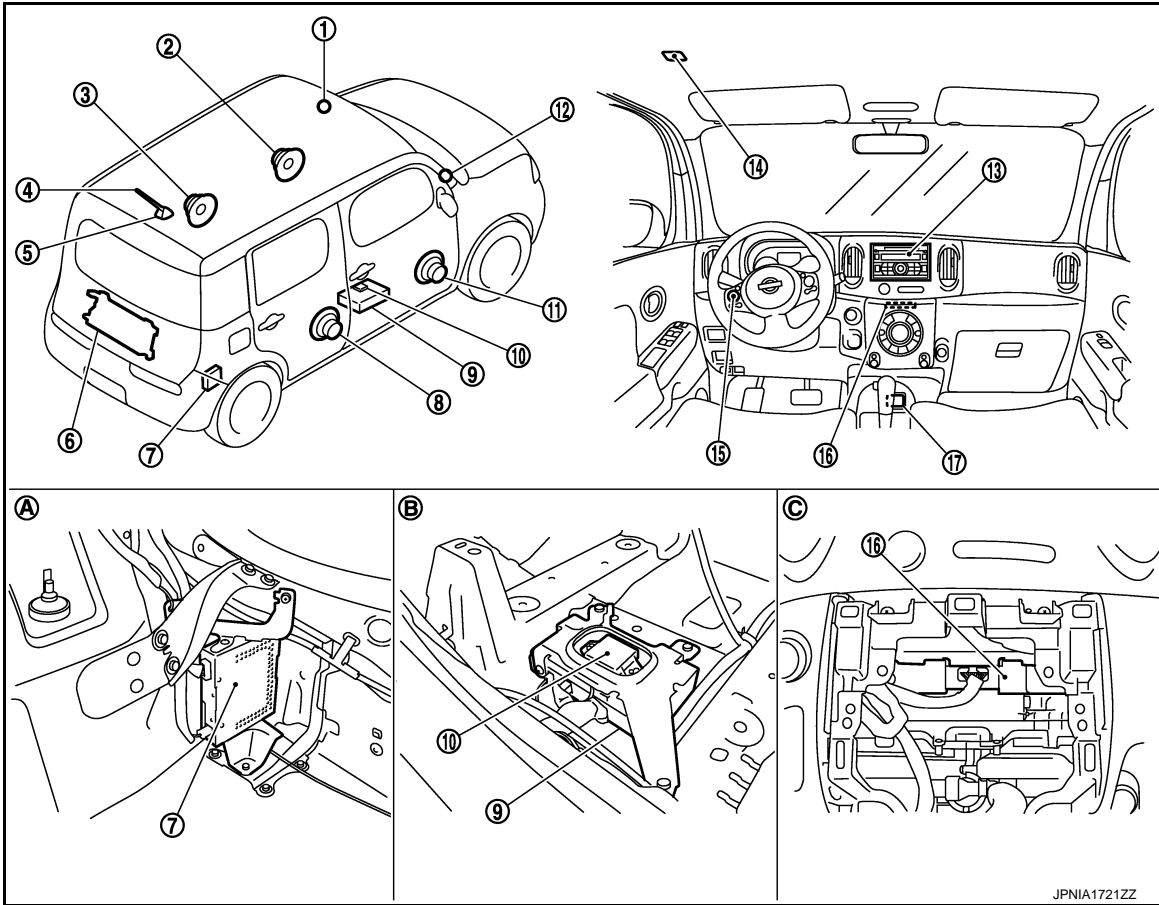
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MODELS WITH iPod® CONNECTION FUNCTION

AUDIO SYSTEM

< SYSTEM DESCRIPTION >

[AUDIO SYSTEM]



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|--------------------------|--|---------------------------------------|
| 1. Tweeter LH | 2. Front door speaker LH | 3. Rear door speaker LH |
| 4. Antenna rod | 5. Antenna base (antenna amp. and satellite antenna) | 6. Woofer |
| 7. Satellite radio tuner | 8. Rear door speaker RH | 9. TEL adapter unit |
| 10. TEL antenna | 11. Front door speaker RH | 12. Tweeter RH |
| 13. Audio unit | 14. Microphone | 15. Steering switch |
| 16. iPod adapter | 17. iPod connector | |
| A. Luggage side RH | B. Floor spacer is removed condition. | C. A/C finisher is removed condition. |

MODELS WITHOUT iPod[®] CONNECTION FUNCTION

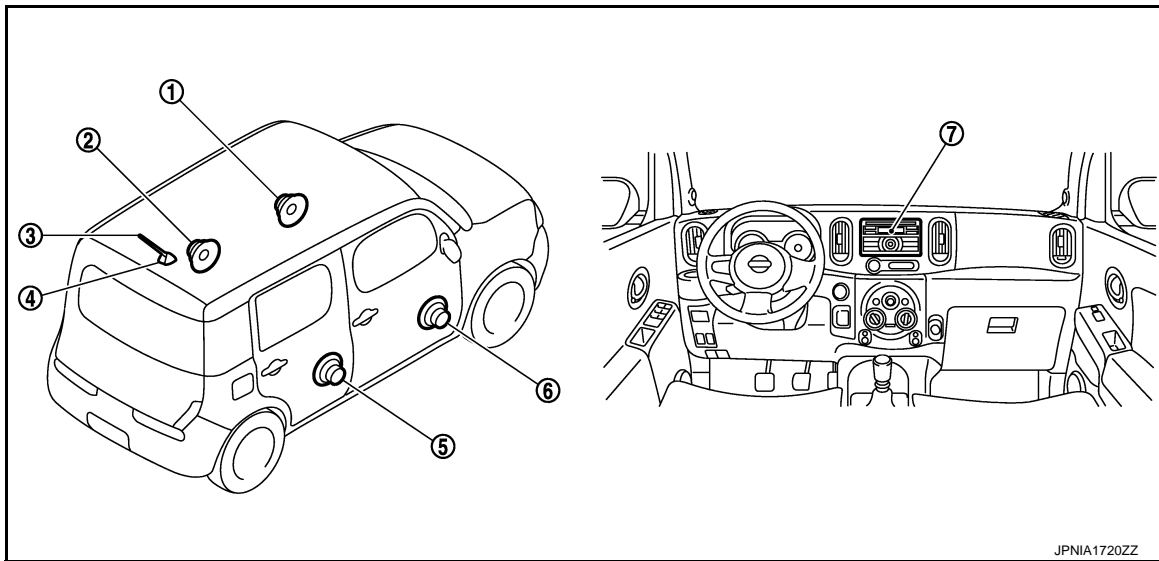
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AUDIO SYSTEM

< SYSTEM DESCRIPTION >

[AUDIO SYSTEM]



- | | | |
|--------------------------------|-------------------------|--------------------------|
| 1. Front door speaker LH | 2. Rear door speaker LH | 3. Antenna rod |
| 4. Antenna base (antenna amp.) | 5. Rear door speaker RH | 6. Front door speaker RH |
| 7. Audio unit | | |

Component Description

INFOID:000000004940214

Part name	Description	
Audio unit	Models with iPod® connection function and hands-free phone system	Controls audio system, satellite radio system, and hands-free phone system functions.
	Except for above.	Controls audio system function.
Steering switch	Models with iPod® connection function and hands-free phone system	<ul style="list-style-type: none"> • Operation for audio and hands-free phone are possible. • Steering switch signal (operation signal) is output to audio unit. • Steering switch signal (operation signal) is output to TEL adapter unit through audio unit.
	Models with iPod® connection function	<ul style="list-style-type: none"> • Operation for audio is possible. • Steering switch signal (operation signal) is output to audio unit.
Front door speaker	<ul style="list-style-type: none"> • Outputs sound signal from audio unit. • Outputs high, mid and low range sounds. 	
Tweeter	<ul style="list-style-type: none"> • Outputs sound signal from audio unit. • Outputs high range sounds. 	
Rear door speaker	<ul style="list-style-type: none"> • Outputs sound signal from audio unit. • Outputs high, mid and low range sounds. 	
Woofer	<ul style="list-style-type: none"> • Woofer amp. ON signal is input from audio unit. • Outputs sound signal from audio unit. • Outputs low frequency sound. 	

AUDIO SYSTEM

< SYSTEM DESCRIPTION >

[AUDIO SYSTEM]

Part name	Description	
Antenna base	Models with iPod® connection function and hands-free phone system	An antenna base integrated with antenna amp. and satellite radio antenna is adopted. Antenna amp. <ul style="list-style-type: none"> • Radio signal received by rod antenna is amplified and transmitted to audio unit. • Power (antenna amp. ON signal) is supplied from audio unit. • Receives the satellite radio wave and outputs it to the satellite radio tuner.
	Except for above.	<ul style="list-style-type: none"> • An antenna base integrated with antenna amp. • Radio signal received by rod antenna is amplified and transmitted to audio unit. • Power (antenna amp. ON signal) is supplied from audio unit.
Satellite radio tuner	<ul style="list-style-type: none"> • Receives radio signals from satellite radio antenna (satellite radio antenna is built into antenna base). • Sends sound signals to audio unit. 	
iPod adapter	<ul style="list-style-type: none"> • Inputs iPod sound signal from iPod®, and outputs iPod sound signal to audio unit. • Receiving/transmitting of iPod® operation signals are performed as follows: - between audio unit and iPod adapter: AV communication. - between iPod® and iPod adapter: serial communication. 	
TEL adapter unit	<ul style="list-style-type: none"> • Receives the steering switch signal (operation signal) from the steering switch through audio unit. • Inputs the TEL voice signal from TEL antenna during reception and outputs it to the audio unit. • Inputs the TEL voice signal from microphone during speech recognition and outputs it to the TEL antenna. • Audio unit and TEL adapter unit exchange data by AV communication. 	

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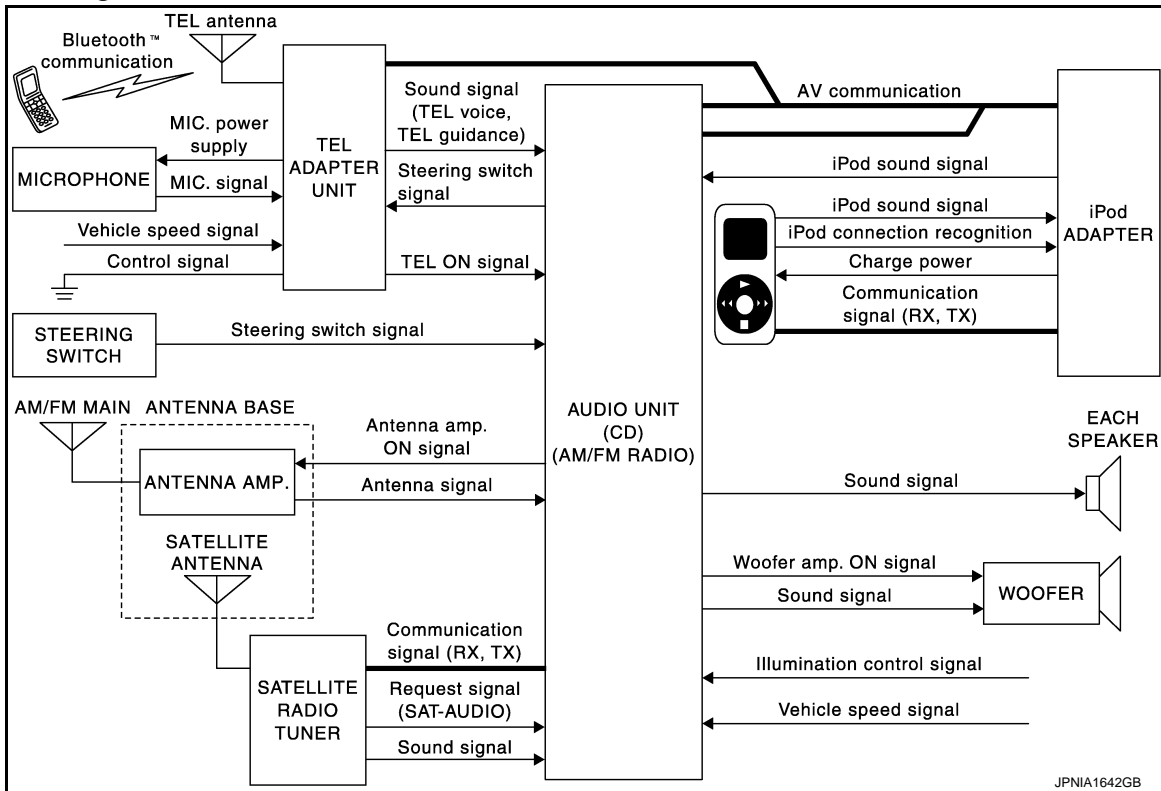
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HANDS-FREE PHONE SYSTEM

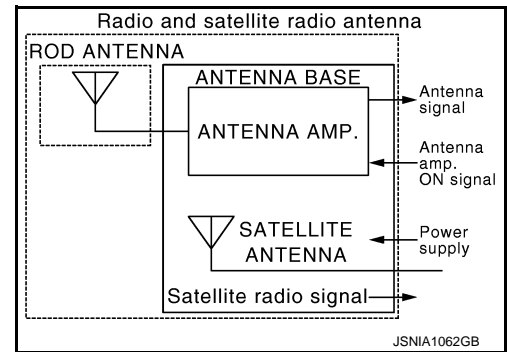
System Diagram

INFOID:0000000049402.15



NOTE:

An antenna base integrated with radio antenna amp. and satellite radio antenna is adopted.



System Description

INFOID:0000000049402.16

- The connection between cellular phone and TEL adapter unit is performed with Bluetooth™ communication.
- The voice guidance signal is input from the TEL adapter unit to the audio unit and output to the front speaker when operating the telephone.
- TEL adapter unit has the on board self-diagnosis function. Refer to [AV-23, "Diagnosis Description"](#).

WHEN RECEIVING A CALL

TEL voice signal received with the cellular phone is input from TEL antenna via TEL adapter unit to audio unit with Bluetooth™ communication and output to the front speaker. The operation is performed with the steering switch or voice recognition function.

WHEN A CALL IS ORIGINATED

Speech sound (TEL voice signal) is input from the microphone to the TEL adapter unit. It is input from the TEL antenna via Bluetooth™ communication to the cellular phone. It is transmitted to the phone on the other side. The operation is performed with the steering switch or voice recognition function.

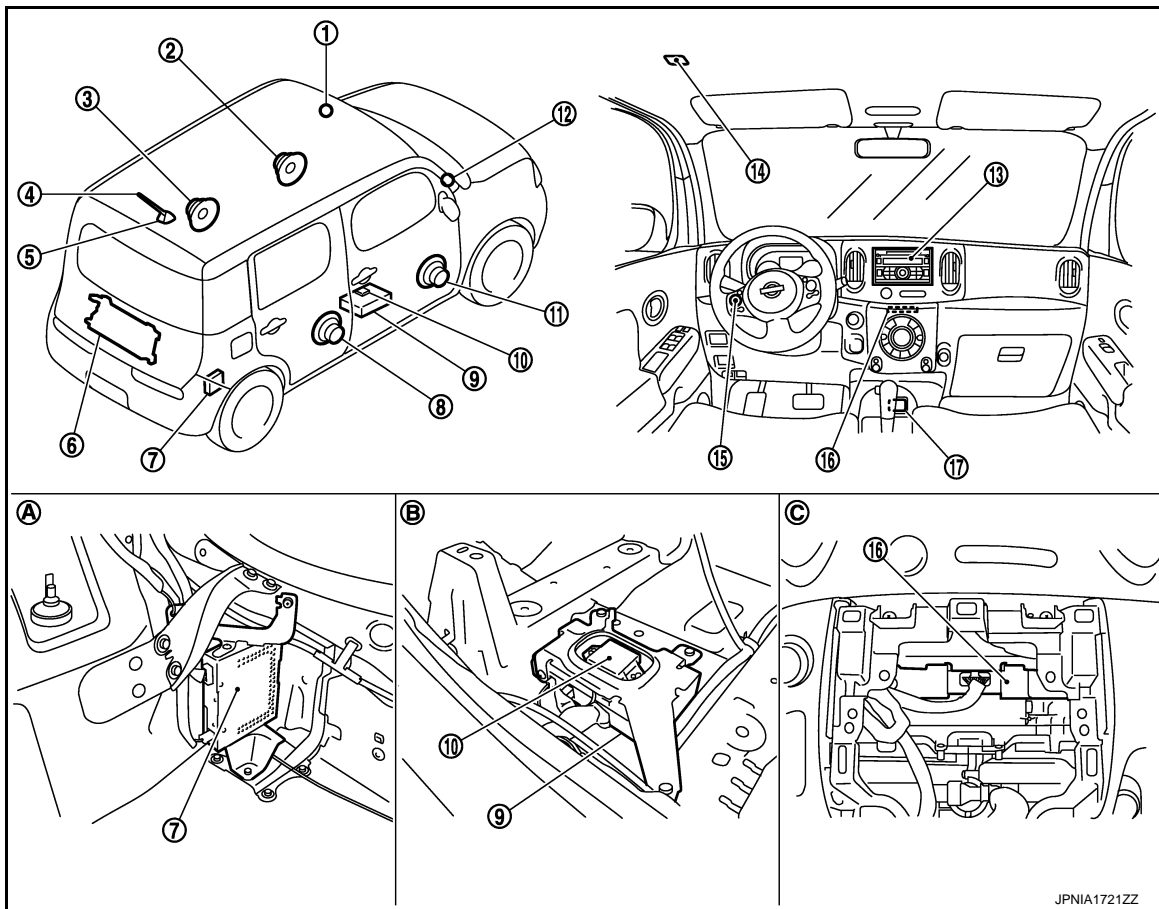
HANDS-FREE PHONE SYSTEM

< SYSTEM DESCRIPTION >

[AUDIO SYSTEM]

Component Parts Location

INFOID:000000004940217



- | | | |
|--------------------------|--|---------------------------------------|
| 1. Tweeter LH | 2. Front door speaker LH | 3. Rear door speaker LH |
| 4. Antenna rod | 5. Antenna base (antenna amp. and satellite antenna) | 6. Woofer |
| 7. Satellite radio tuner | 8. Rear door speaker RH | 9. TEL adapter unit |
| 10. TEL antenna | 11. Front door speaker RH | 12. Tweeter LH |
| 13. Audio unit | 14. Microphone | 15. Steering switch |
| 16. iPod adapter | 17. iPod connector | |
| A. Luggage side RH | B. Floor spacer is removed condition. | C. A/C finisher is removed condition. |

Component Description

INFOID:000000004940218

Part name	Description
Audio unit	<ul style="list-style-type: none"> Inputs TEL voice signal or voice guidance signal from TEL adapter unit and outputs it to the front speaker during reception. Audio unit and TEL adapter unit exchange data by AV communication. Inputs steering switch signal (operation signal) from steering switch and outputs it to TEL adapter unit.
Front door speaker Tweeter	Receives TEL voice and voice guidance signals from audio unit.
Steering switch	<ul style="list-style-type: none"> The hands-free phone system can be operated. Steering switch signal (operation signal) is output to TEL adapter unit through audio unit.

HANDS-FREE PHONE SYSTEM

< SYSTEM DESCRIPTION >

[AUDIO SYSTEM]

Part name	Description
Microphone	<ul style="list-style-type: none">• Uses when operating the hands-free phone.• Outputs microphone signal (TEL voice signal) to the TEL adapter unit.• The power (microphone power supply) is supplied from the TEL adapter unit.
TEL adapter unit	<ul style="list-style-type: none">• Inputs the TEL voice signal from TEL antenna during reception and outputs into the audio unit.• Inputs the TEL voice signal from microphone during speech recognition and outputs it to the TEL antenna.
TEL antenna	Connects with the cellular phone via Bluetooth™ communication and communicates the TEL voice signal.

DIAGNOSIS SYSTEM (AUDIO UNIT) MODELS WITH iPod® CONNECTION FUNCTION

MODELS WITH iPod® CONNECTION FUNCTION : Diagnosis Description INFOID:000000004940219

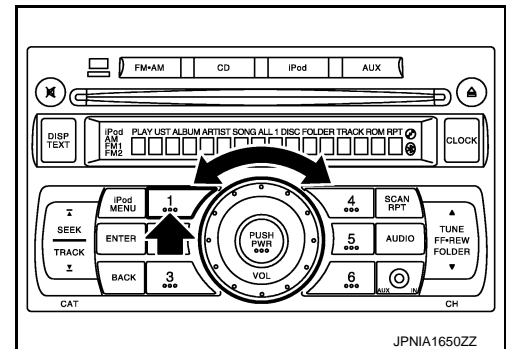
AUDIO UNIT SELF-DIAGNOSIS FUNCTION

Self-diagnosis mode can check the following items.

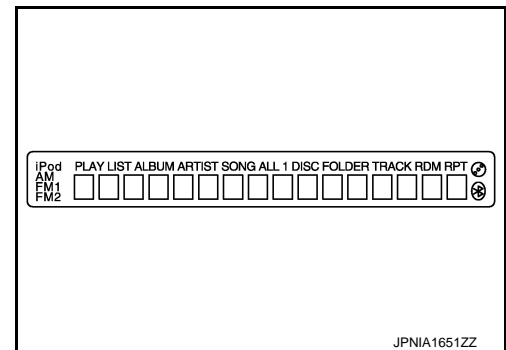
- Display all icons and segments
- Audio unit hardware/software/CD mechanism/EEPROM versions
- Satellite radio version
- Audio CD changer version
- iPod hardware/software versions

Operation Procedure

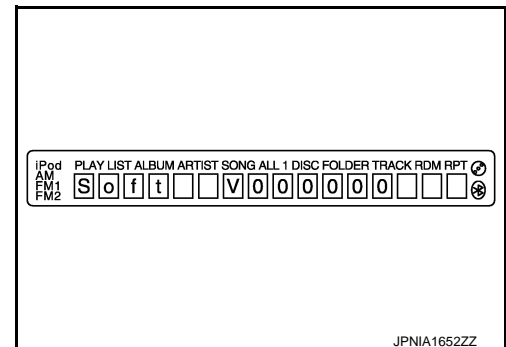
1. Turn ignition switch to the ON position.
2. Turn the audio unit off.
3. While pressing the “1” button, turn the volume control dial clockwise or counterclockwise 30 clicks or more. When the self-diagnosis mode is started, a short beep will be heard.



4. Initially, all display segments will be illuminated.



5. Press the “DISP TEXT” switch to enter version diagnostics. “Soft” (audio software version) is displayed.



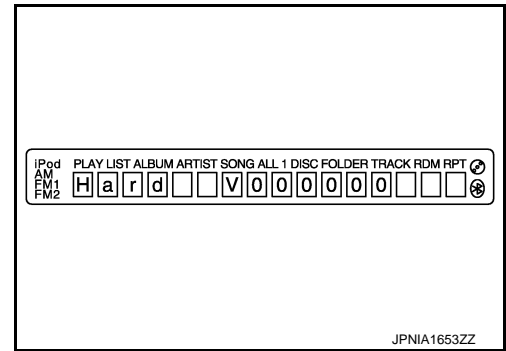
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DIAGNOSIS SYSTEM (AUDIO UNIT)

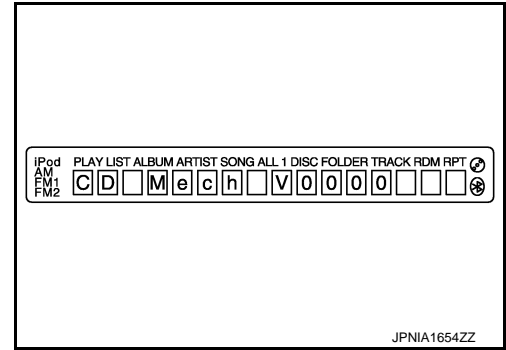
< SYSTEM DESCRIPTION >

[AUDIO SYSTEM]

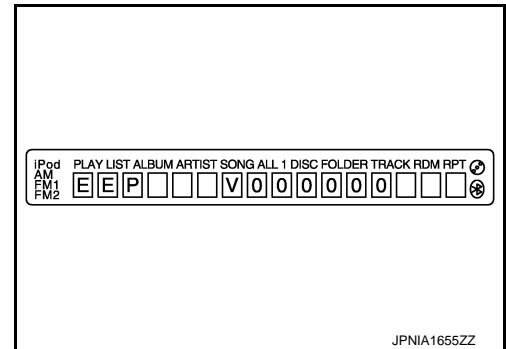
6. Press the "DISP TEXT" switch again to display the "Hard" (audio hardware version).



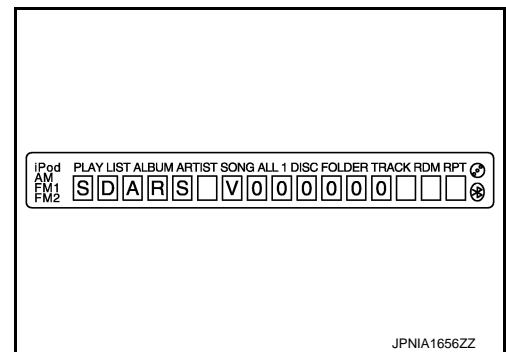
7. Press the "DISP TEXT" switch again to display the "CD Mech" (CD mechanism version).



8. Press the "DISP TEXT" switch again to display the "EEP" (audio unit EEPROM version).



9. Press the "DISP TEXT" switch again to display the "SDARS" (satellite radio version).

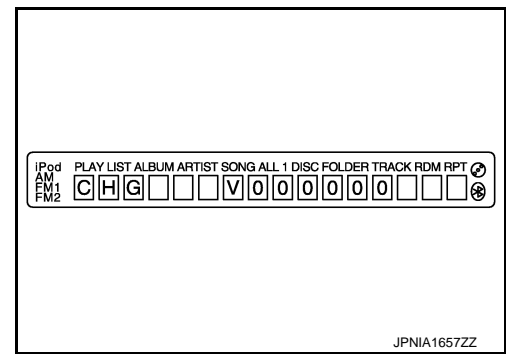


DIAGNOSIS SYSTEM (AUDIO UNIT)

< SYSTEM DESCRIPTION >

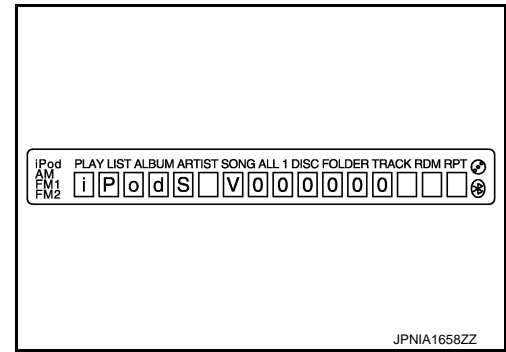
[AUDIO SYSTEM]

10. Press the “DISP TEXT” switch again to display the “CHG” (audio CD changer version). If audio CD changer is not connected, “FFFFFF” is displayed.



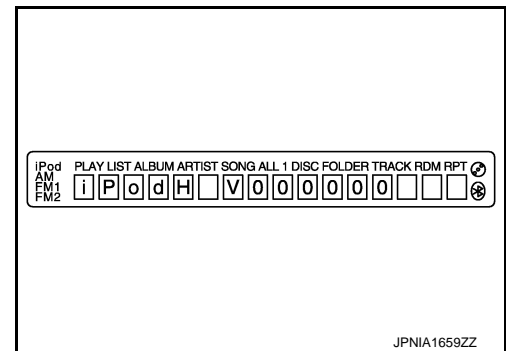
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11. Press the “DISP TEXT” switch again to display the “iPodS” (iPod software version). “FFFFFF” is displayed when communication signals between the audio unit and iPod adapter include a malfunction.



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12. Press the “DISP TEXT” switch again to display the “iPodH” (iPod hardware version). “FFFFFF” is displayed when communication signals between the audio unit and iPod adapter include a malfunction.



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Finishing Self-diagnosis Mode

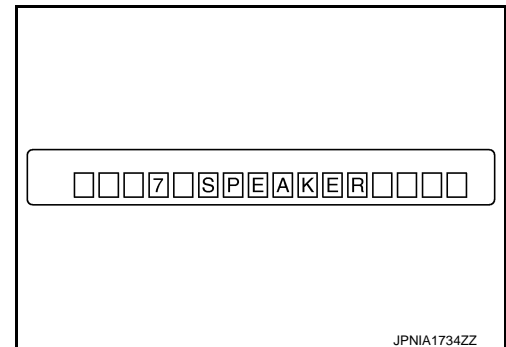
Self-diagnosis Mode is canceled when turning ignition switch OFF.

SWITCHING OF THE SPEAKER SETTING OF THE AUDIO UNIT

The speaker setting of the audio unit is selectable between “7 SPEAKER” (models with woofer) and “6 SPEAKER” (models without woofer).

Operation Procedure

1. Turn ignition switch to the ON position.
2. Turn the audio unit off.
3. While pressing the “1” , “6” , and “AUDIO” buttons. When the speaker setting is changed, setting after a change is displayed.



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MODELS WITHOUT iPod® CONNECTION FUNCTION

MODELS WITHOUT iPod® CONNECTION FUNCTION : Diagnosis Description

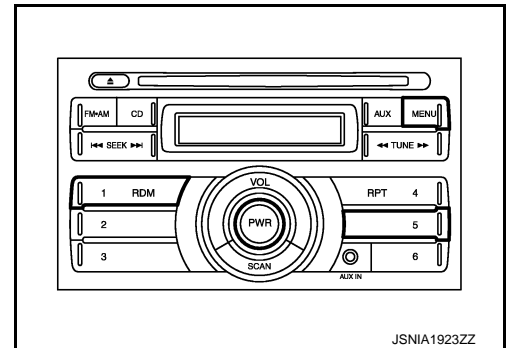
INFOID:000000004941271

Self-diagnosis mode can check the following items.

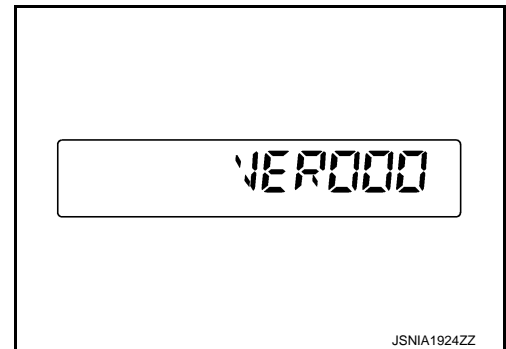
- Audio unit software version
- Audio CD changer version

OPERATION PROCEDURE

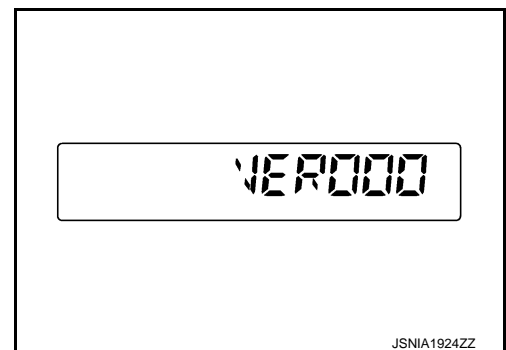
1. Turn ignition switch to the ON position.
2. Turn the audio unit off.
3. Press “PWR” button while pressing “MENU”, “1” and “5” buttons. When the self-diagnosis mode is started, a short beep will be heard.



4. Initially, Audio software version is displayed.



5. Press the “PWR” button to display the audio CD changer version. If audio CD changer is not connected, “FF” is displayed.



Finishing Self-diagnosis Mode

Self-diagnosis mode is canceled when turning ignition switch OFF.

DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

< SYSTEM DESCRIPTION >

[AUDIO SYSTEM]

DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

Diagnosis Description

INFOID:000000004940220

HANDS-FREE PHONE SYSTEM ON BOARD DIAGNOSIS

During on board diagnosis the diagnosis function of TEL adapter unit starts with the operation of the steering switch and performs the diagnosis when ignition switch ACC.

ON BOARD DIAGNOSIS ITEM

The on board diagnosis has 3 modes: the self-diagnosis mode that performs the trouble diagnosis, the speaker adaptation data deleting mode and the hands-free phone system initialization mode.

CAUTION:

- Perform the diagnosis with the vehicle stopped.
- Perform STEP2 if necessary.

STEP	MODE	Description
STEP 1	Self-diagnosis	The self-diagnosis mode performs the microphone test and the diagnosis of TEL adapter unit, TEL antenna and steering switch, and then reads out the results with the sound and indicates them on the audio screen.
STEP 2	Hands-free phone system initialization	Hands-free phone system initialization mode can perform the initialization of hands-free phone system.
	Speaker adaptation data deleting	The speaker adaptation data deleting mode can delete the speaker adaptation data.

SELF-DIAGNOSIS RESULTS

Self-diagnosis mode reads out the self-diagnosis results and indicates DTC on the audio screen.

NOTE:

- Error count is read out simultaneously when reading out the DTC name.
- The errors are read out continuously when some errors occur at the same time. The DTC displays are combined and displayed. For example, DTC 01100 is displayed when DTC 01000 and DTC 00100 are indicated at the same time.

Self-diagnosis results

DTC (Audio screen)	Failure message	Possible causes
DTC 10000	Internal failure	TEL adapter unit
DTC 01000	Bluetooth antenna open	TEL antenna
DTC 00100	Bluetooth antenna shorted	
DTC 00010	Button ladder A is stuck	Steering switch
DTC 00001	Button ladder B is stuck	
DTC 00000	There are no failure records to report	—

The Details of Error Count

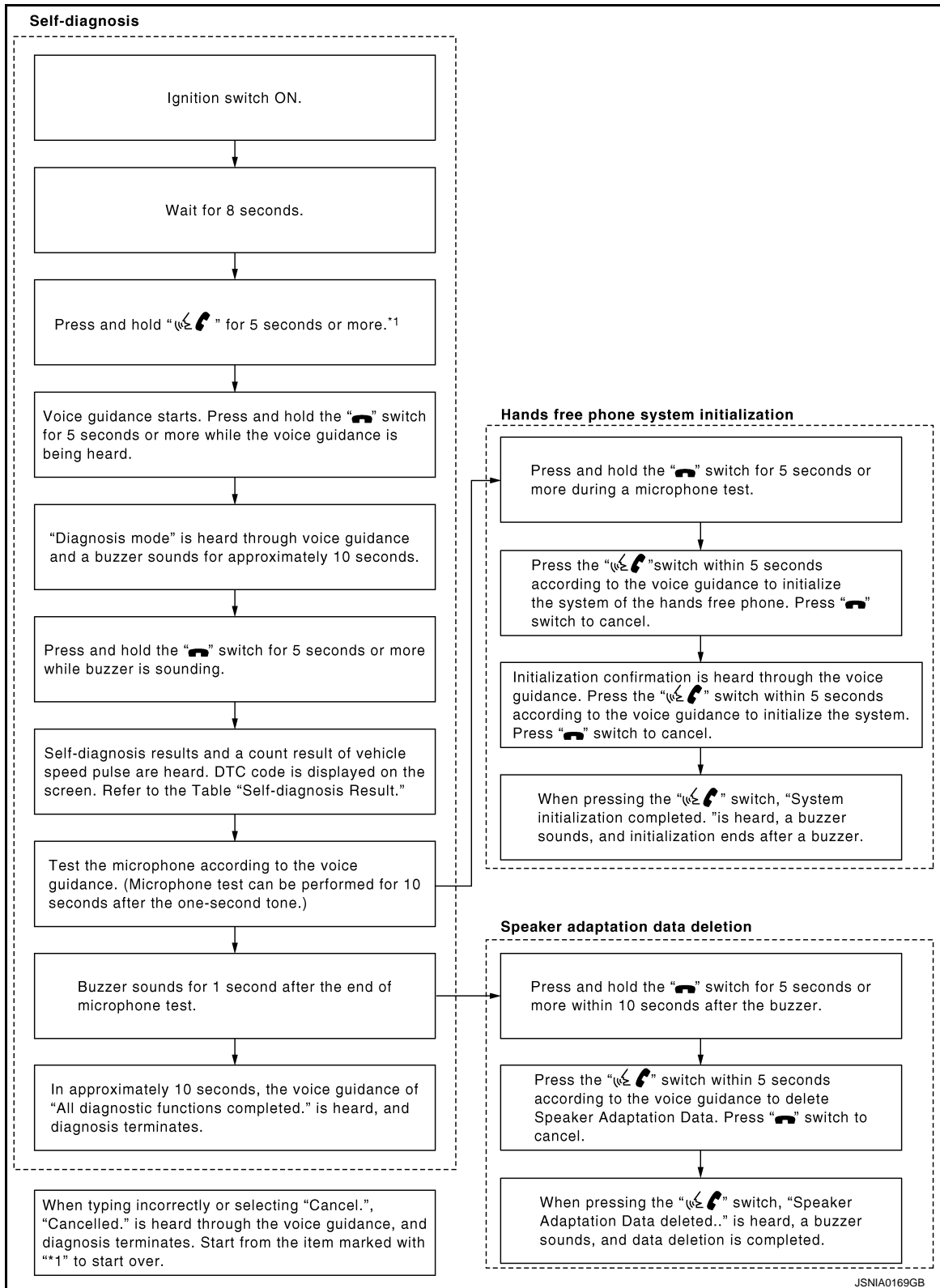
The error count guides "0" when the error occurs. The next time it counts up "1" if it is normal with the ignition switch ON. It continues the count up unless the initialization of hands-free phone system is performed.

DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

< SYSTEM DESCRIPTION >

[AUDIO SYSTEM]

FLOW CHART OF TROUBLE DIAGNOSIS



POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT AUDIO UNIT

AUDIO UNIT : Diagnosis Procedure

INFOID:000000004940221

1.CHECK FUSE

Check that the following fuses of the audio unit are not blown.

Power source	Fuse No.
Battery	34
Ignition switch ACC or ON	20

Is inspection result OK?

YES >> GO TO 2.

NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK AUDIO UNIT POWER SUPPLY CIRCUIT

Check voltage between the audio unit and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Voltage
Battery power supply	M46	19	OFF	Battery voltage
ACC power supply		7	ACC	Battery voltage

Is inspection result OK?

YES >> INSPECTION END

NO >> Check harness between audio unit and fuse.

iPod ADAPTER

iPod ADAPTER : Diagnosis Procedure

INFOID:000000005148283

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	34
Ignition switch ACC or ON	20

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate the cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between iPod adapter harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Voltage
Battery power supply	M99	5	OFF	Battery voltage
ACC power supply		3	ACC	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Check harness between iPod adapter and fuse.

SATELLITE RADIO TUNER

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

SATELLITE RADIO TUNER : Diagnosis Procedure

INFOID:000000004940223

1.CHECK FUSES

Check that the following fuses of the satellite radio tuner are not blown.

Power source	Fuse No.
Battery	34
Ignition switch ACC or ON	20

Is inspection result OK?

YES >> GO TO 2.

NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between the satellite radio tuner and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Voltage
Battery power supply	B73	12	OFF	Battery voltage
ACC power supply		16	ACC	Battery voltage

Is inspection result OK?

YES >> INSPECTION END

NO >> Check harness between satellite radio tuner and fuse.

TEL ADAPTER UNIT

TEL ADAPTER UNIT : Diagnosis Procedure

INFOID:000000004940224

1.CHECK FUSES

Check that the following fuses of the TEL adapter unit are not blown.

Power source	Fuse No.
Battery	34
Ignition switch ACC or ON	20
Ignition switch ON or START	2

Is inspection result OK?

YES >> GO TO 2.

NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between TEL adapter unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Voltage
Battery power supply	B54	1	OFF	Battery voltage
ACC power supply		2	ACC	Battery voltage
Ignition signal		3	ON	Battery voltage

Is inspection result OK?

YES >> GO TO 3.

NO >> Check harness between TEL adapter unit and fuse.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect TEL adapter unit connector.
3. Check continuity between TEL adapter unit harness connector and ground.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B54	4	OFF	Existed

Is inspection result OK?

- YES >> INSPECTION END
- NO >> Repair harness or connector.

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STEERING SWITCH SIGNAL A CIRCUIT (STEERING SWITCH TO AUDIO UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

STEERING SWITCH SIGNAL A CIRCUIT (STEERING SWITCH TO AUDIO UNIT)

Description

INFOID:000000004940225

- Transmits the steering switch signal to audio unit.
- Transmits the steering switch signal to TEL adapter unit through audio unit (models with hands-free phone system).

Diagnosis Procedure

INFOID:000000004940226

1. CHECK STEERING SWITCH SIGNAL A CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect audio unit connector and spiral cable connector.
3. Check continuity between audio unit harness connector and spiral cable harness connector.

Audio unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
M46	6	M33	24	Existed

4. Check continuity between audio unit harness connector and ground.

Audio unit		Ground	Continuity
Connector	Terminal		
M46	6		Not existed

Is the inspection result normal?

- YES >> GO TO 2.
 NO >> Repair harness or connector.

2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

- YES >> GO TO 3.
 NO >> Replace spiral cable.

3. CHECK AUDIO UNIT VOLTAGE

1. Connect AV control unit connector and spiral cable connector.
2. Turn ignition switch ON.
3. Check voltage between audio unit harness connector.

(+)		(-)		Voltage (Approx.)
Audio unit		Audio unit		
Connector	Terminal	Connector	Terminal	
M46	6	M46	15	3.2 V

Is the inspection result normal?

- YES >> GO TO 4.
 NO >> Replace audio unit.

4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-29, "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END
 NO >> Replace steering switch.

STEERING SWITCH SIGNAL A CIRCUIT (STEERING SWITCH TO AUDIO UNIT)

< DTC/CIRCUIT DIAGNOSIS >

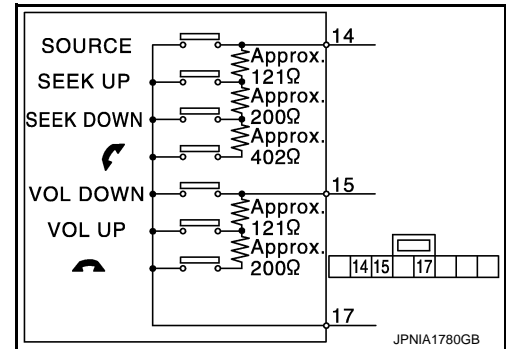
[AUDIO SYSTEM]

Component Inspection

INFOID:000000004940227

MODELS WITH HANDS-FREE PHONE SYSTEM

Measure the resistance between the steering switch connector.

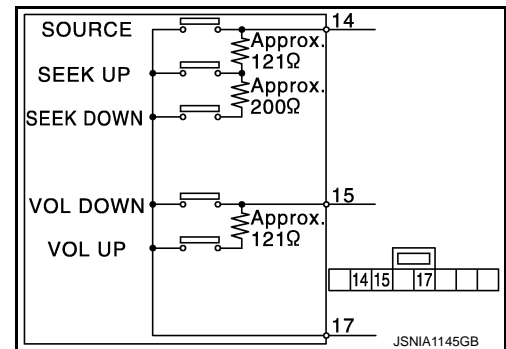


Standard

Steering switch		Condition	Resistance (Approx.) Ω
Terminal	Terminal		
14	17	switch ON	709 – 737
		SEEK DOWN switch ON	315 – 327
		SEEK UP switch ON	119 – 123
		SOURCE switch ON	0
15	17	switch ON	315 – 327
		VOL UP switch ON	119 – 123
		VOL DOWN switch ON	0

MODELS WITHOUT HANDS-FREE PHONE SYSTEM

Measure the resistance between the steering switch connector.



Standard

Steering switch		Condition	Resistance (Approx.) Ω
Terminal	Terminal		
14	17	SEEK DOWN switch ON	315 – 327
		SEEK UP switch ON	119 – 123
		SOURCE switch ON	0
15	17	VOL UP switch ON	119 – 123
		VOL DOWN switch ON	0

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STEERING SWITCH SIGNAL B CIRCUIT (STEERING SWITCH TO AUDIO UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

STEERING SWITCH SIGNAL B CIRCUIT (STEERING SWITCH TO AUDIO UNIT)

Description

INFOID:000000005148285

- Transmits the steering switch signal to audio unit.
- Transmits the steering switch signal to TEL adapter unit through audio unit (models with hands-free phone system).

Diagnosis Procedure

INFOID:000000004940229

1. CHECK STEERING SWITCH SIGNAL B CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect audio unit connector and spiral cable connector.
3. Check continuity between audio unit harness connector and spiral cable harness connector.

Audio unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
M46	16	M33	31	Existed

4. Check continuity between audio unit harness connector and ground.

Audio unit		Ground	Continuity
Connector	Terminal		
M46	16		Not existed

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Repair harness or connector.

2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Replace spiral cable.

3. CHECK AUDIO UNIT VOLTAGE

1. Connect audio unit connector and spiral cable connector.
2. Turn ignition switch ON.
3. Check voltage between audio unit harness connector.

(+)		(-)		Voltage (Approx.)
Audio unit		Audio unit		
Connector	Terminal	Connector	Terminal	
M46	16	M46	15	3.2 V

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Replace audio unit.

4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-31, "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Replace steering switch.

STEERING SWITCH SIGNAL B CIRCUIT (STEERING SWITCH TO AUDIO UNIT)

< DTC/CIRCUIT DIAGNOSIS >

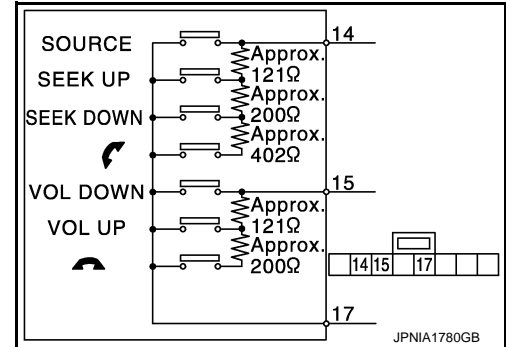
[AUDIO SYSTEM]

Component Inspection

INFOID:000000004940230

MODELS WITH HANDS-FREE PHONE SYSTEM

Measure the resistance between the steering switch connector.

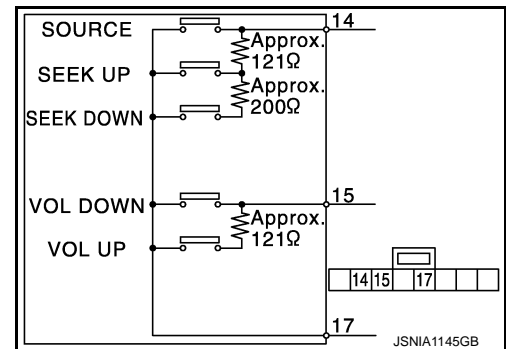


Standard

Steering switch		Condition	Resistance (Approx.) Ω
Terminal	Terminal		
14	17	switch ON	709 – 737
		SEEK DOWN switch ON	315 – 327
		SEEK UP switch ON	119 – 123
		SOURCE switch ON	0
15	17	switch ON	315 – 327
		VOL UP switch ON	119 – 123
		VOL DOWN switch ON	0

MODELS WITHOUT HANDS-FREE PHONE SYSTEM

Measure the resistance between the steering switch connector.



Standard

Steering switch		Condition	Resistance (Approx.) Ω
Terminal	Terminal		
14	17	SEEK DOWN switch ON	315 – 327
		SEEK UP switch ON	119 – 123
		SOURCE switch ON	0
15	17	VOL UP switch ON	119 – 123
		VOL DOWN switch ON	0

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STEERING SWITCH SIGNAL GND CIRCUIT (STEERING SWITCH TO AUDIO UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

STEERING SWITCH SIGNAL GND CIRCUIT (STEERING SWITCH TO AUDIO UNIT)

Description

INFOID:000000004940231

- Transmits the steering switch signal to audio unit.
- Transmits the steering switch signal to TEL adapter unit through audio unit (models with hands-free phone system).

Diagnosis Procedure

INFOID:000000004940232

1. CHECK STEERING SWITCH SIGNAL GND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect audio unit connector and spiral cable connector.
3. Check continuity between audio unit harness connector and spiral cable harness connector.

Audio unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
M46	15	M33	33	Existed

4. Connect audio unit connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace spiral cable.

3. CHECK GROUND CIRCUIT

1. Connect audio unit connector.
2. Check continuity between audio unit harness connector and ground.

Audio unit		Ground	Continuity
Connector	Terminal		
M46	15		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace audio unit.

4. CHECK STEERING SWITCH

Check steering switch. Refer to [AV-32, "Component Inspection"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

Component Inspection

INFOID:000000004940233

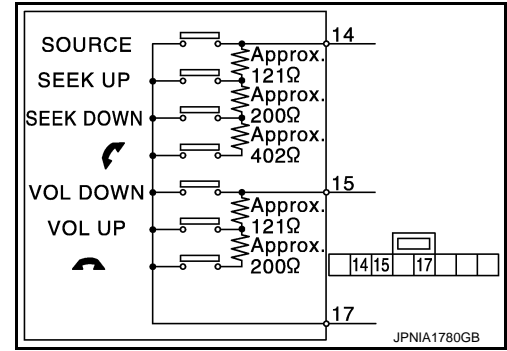
MODELS WITH HANDS-FREE PHONE SYSTEM

STEERING SWITCH SIGNAL GND CIRCUIT (STEERING SWITCH TO AUDIO UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

Measure the the resistance between the steering switch connector.

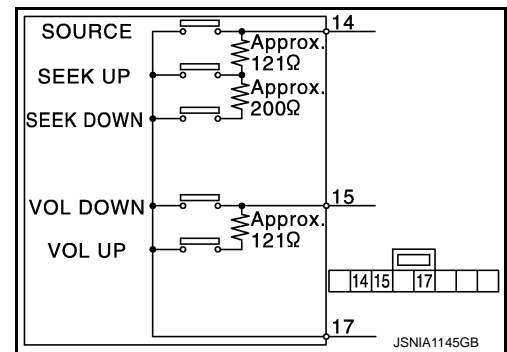


Standard

Steering switch		Condition	Resistance (Approx.) Ω
Terminal	Terminal		
14	17	switch ON	709 – 737
		SEEK DOWN switch ON	315 – 327
		SEEK UP switch ON	119 – 123
		SOURCE switch ON	0
15	17	switch ON	315 – 327
		VOL UP switch ON	119 – 123
		VOL DOWN switch ON	0

MODELS WITHOUT HANDS-FREE PHONE SYSTEM

Measure the the resistance between the steering switch connector.



Standard

Steering switch		Condition	Resistance (Approx.) Ω
Terminal	Terminal		
14	17	SEEK DOWN switch ON	315 – 327
		SEEK UP switch ON	119 – 123
		SOURCE switch ON	0
15	17	VOL UP switch ON	119 – 123
		VOL DOWN switch ON	0

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STEERING SWITCH SIGNAL A CIRCUIT (AUDIO UNIT TO TEL ADAPTER UNIT) [AUDIO SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

STEERING SWITCH SIGNAL A CIRCUIT (AUDIO UNIT TO TEL ADAPTER UNIT)

Description

INFOID:000000004940234

- Transmits the steering switch signal to audio unit.
- Transmits the steering switch signal to TEL adapter unit through audio unit.

Diagnosis Procedure

INFOID:000000004940235

1. CHECK STEERING SWITCH SIGNAL A (AUDIO UNIT TO TEL ADAPTER UNIT) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect audio unit connector and TEL adapter unit connector.
3. Check continuity between audio unit harness connector and TEL adapter unit harness connector.

Audio unit		TEL adapter unit		Continuity
Connector	Terminal	Connector	Terminal	
M49	51	B54	12	Existed

4. Check continuity between audio unit harness connector and ground.

Audio unit		Ground	Continuity
Connector	Terminal		
M49	51		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK AUDIO UNIT VOLTAGE

1. Connect audio unit connector and TEL adapter unit connector.
2. Turn ignition switch ON.
3. Check voltage between audio unit harness connector.

(+)		(-)		Voltage (Approx.)
Audio unit		Audio unit		
Connector	Terminal	Connector	Terminal	
M49	51	M49	53	4.8 V

Is the inspection result normal?

YES >> Replace TEL adapter unit.

NO >> Replace audio unit.

STEERING SWITCH SIGNAL B CIRCUIT (AUDIO UNIT TO TEL ADAPTER UNIT) [AUDIO SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

STEERING SWITCH SIGNAL B CIRCUIT (AUDIO UNIT TO TEL ADAPTER UNIT)

Description

INFOID:000000005154027

- Transmits the steering switch signal to audio unit.
- Transmits the steering switch signal to TEL adapter unit through audio unit.

Diagnosis Procedure

INFOID:000000004940238

1. CHECK STEERING SWITCH SIGNAL B (AUDIO UNIT TO TEL ADAPTER UNIT) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect audio unit connector and TEL adapter unit connector.
3. Check continuity between audio unit harness connector and TEL adapter unit harness connector.

Audio unit		TEL adapter unit		Continuity
Connector	Terminal	Connector	Terminal	
M49	52	B54	13	Existed

4. Check continuity between audio unit harness connector and ground.

Audio unit		Ground	Continuity
Connector	Terminal		
M49	52		Not existed

Is the inspection result normal?

- YES >> GO TO 2.
 NO >> Repair harness or connector.

2. CHECK AUDIO UNIT VOLTAGE

1. Connect audio unit connector and TEL adapter unit connector.
2. Turn ignition switch ON.
3. Check voltage between audio unit harness connector.

(+)		(-)		Voltage (Approx.)
Audio unit		Audio unit		
Connector	Terminal	Connector	Terminal	
M49	52	M49	53	4.8 V

Is the inspection result normal?

- YES >> Replace TEL adapter unit.
 NO >> Replace audio unit.

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STEERING SWITCH SIGNAL GND CIRCUIT (AUDIO UNIT TO TEL ADAPTER UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

STEERING SWITCH SIGNAL GND CIRCUIT (AUDIO UNIT TO TEL ADAPTER UNIT)

Description

INFOID:000000005154028

- Transmits the steering switch signal to audio unit.
- Transmits the steering switch signal to TEL adapter unit through audio unit.

Diagnosis Procedure

INFOID:000000004940241

1. CHECK STEERING SWITCH SIGNAL GND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect audio unit connector and TEL adapter unit connector.
3. Check continuity between audio unit harness connector and TEL adapter unit harness connector.

Audio unit		TEL adapter unit		Continuity
Connector	Terminal	Connector	Terminal	
M49	53	B54	14	Existed

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Repair harness or connector.

2. CHECK GROUND CIRCUIT

1. Connect audio unit connector.
2. Check continuity between audio unit harness connector and ground.

Audio unit		Ground	Continuity
Connector	Terminal		
M49	53		Existed

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Repair harness or connector.

COMMUNICATION SIGNAL CIRCUIT

Description

INFOID:000000004940243

Satellite radio tuner and audio unit are connected with a serial communication. They transmit the operation signal from audio unit to satellite radio tuner.

Diagnosis Procedure

INFOID:000000004940244

1. CHECK CONTINUITY COMMUNICATION SIGNAL (AUDIO-SAT) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect satellite radio tuner connector and audio unit connector.
3. Check continuity between satellite radio tuner harness connector and audio unit harness connector.

Satellite radio tuner		Audio unit		Continuity
Connector	Terminal	Connector	Terminal	
B73	9	M48	39	Existed
	10		40	Existed

4. Check continuity between satellite radio tuner harness connector and ground.

Satellite radio tuner		Ground	Continuity
Connector	Terminal		
B73	9		Not existed
	10		

Is inspection result OK?

- YES >> GO TO 2.
 NO >> Repair harness or connector.

2. CHECK AUDIO UNIT

1. Connect audio unit connector.
2. Turn ignition switch ON.
3. Check voltage between audio unit harness connector and ground.

Audio unit		Ground	Voltage (Approx.)
Connector	Terminal		
M48	39		4.0 V

Is inspection result OK?

- YES >> GO TO 3.
 NO >> Replace audio unit.

3. CHECK SATELLITE RADIO TUNER

1. Turn ignition switch OFF.
2. Disconnect audio unit connector, and connect satellite radio tuner connector.
3. Turn ignition switch ON.
4. Check voltage between satellite radio tuner harness connector and ground.

Satellite radio tuner		Ground	Voltage (Approx)
Connector	Terminal		
M73	10		7.5 V

Is inspection result OK?

- YES >> GO TO 4.
 NO >> Replace satellite radio tuner.

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COMMUNICATION SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

4. CHECK COMMUNICATION SIGNAL (SAT-AUDIO)

1. Turn ignition switch OFF.
2. Connect audio unit connector.
3. Turn ignition switch ON.
4. Check signal between satellite radio tuner harness connector and ground.

Satellite radio tuner		Condition	Reference value
Connector	Terminal		
B73	9	Ground	

Is inspection result OK?

- YES >> GO TO 5.
 NO >> Replace satellite radio tuner.

5. CHECK COMMUNICATION SIGNAL (AUDIO-SAT)

Check signal between audio unit harness connector and ground.

Audio unit		Condition	Reference value
Connector	Terminal		
M48	40	Ground	

Is inspection result OK?

- YES >> INSPECTION END
 NO >> Replace audio unit.

REQUEST SIGNAL CIRCUIT (SAT TO AUDIO)

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

REQUEST SIGNAL CIRCUIT (SAT TO AUDIO)

Description

INFOID:000000004940245

Request signal transmits the signal to recognize the connection of satellite radio tuner from satellite radio tuner to audio unit.

Diagnosis Procedure

INFOID:000000004940246

1. CHECK CONTINUITY REQUEST SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect satellite radio tuner connector and audio unit connector.
3. Check continuity between satellite radio tuner harness connector and audio unit harness connector.

Satellite radio tuner		Audio unit		Continuity
Connector	Terminal	Connector	Terminal	
B73	8	M48	38	Existed

4. Check continuity between satellite radio tuner harness connector and ground.

Satellite radio tuner		Ground	Continuity
Connector	Terminal		
B73	8		Not existed

Is inspection result OK?

- YES >> GO TO 2.
 NO >> Repair harness or connector.

2. CHECK AUDIO UNIT

1. Connect audio unit connector.
2. Turn ignition switch ON.
3. Check voltage between audio unit harness connector and ground.

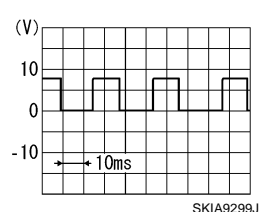
Audio unit		Ground	Voltage (Approx.)
Connector	Terminal		
M48	38		4.0 V

Is inspection result OK?

- YES >> GO TO 3.
 NO >> Replace audio unit.

3. CHECK CONTINUITY REQUEST SIGNAL

1. Turn ignition switch OFF.
2. Connect satellite radio tuner connector.
3. Turn ignition switch ON.
4. Check signal between satellite radio tuner harness connector and ground.

Satellite radio tuner		Ground	Condition	Reference value
Connector	Terminal			
B73	8		When satellite radio mode is selected.	

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REQUEST SIGNAL CIRCUIT (SAT TO AUDIO)

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

Is inspection result OK?

YES >> INSPECTION END

NO >> Replace satellite radio tuner.

WOOFER AMP. ON SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

WOOFER AMP. ON SIGNAL CIRCUIT

Description

INFOID:000000004940249

When the audio system is turned on, a voltage signal is supplied from the audio unit to the woofer. When this signal is received, the woofer will turn on.

Diagnosis Procedure

INFOID:000000004940250

1. CHECK CONTINUITY WOOFER AMP. ON SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect audio unit connector and woofer connector.
3. Check continuity between audio unit harness connector and woofer harness connector.

Audio unit		Woofer		Continuity
Connector	Terminal	Connector	Terminal	
M49	46	D127	4	Existed

4. Check continuity between woofer harness connector and ground.

Woofer		Ground	Continuity
Connector	Terminal		
D127	4		Not existed

Is inspection result OK?

- YES >> GO TO 2.
NO >> Repair harness or connector.

2. CHECK VOLTAGE AMP. ON SIGNAL

1. Connect audio unit connector
2. Turn ignition switch ON.
3. Check voltage between audio unit harness connector and ground.

Audio unit		Ground	Voltage (Approx.)
Connector	Terminal		
M49	46		12.0 V

Is inspection result OK?

- YES >> Replace woofer.
NO >> Replace audio unit.

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MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

MICROPHONE SIGNAL CIRCUIT

Description

INFOID:000000004940251

TEL adapter unit supplies power to microphone. The microphone transmits the sound voice to the TEL adapter unit.

Diagnosis Procedure

INFOID:000000004940252

1. CHECK CONTINUITY BETWEEN TEL ADAPTER UNIT AND MICROPHONE CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect TEL adapter unit connector and microphone connector.
3. Check continuity between TEL adapter unit harness connector and microphone harness connector.

TEL adapter unit		Microphone		Continuity
Connector	Terminal	Connector	Terminal	
B54	7	R21	1	Existed
	8		2	
	29		4	

4. Check continuity between TEL adapter unit harness connector and ground.

TEL adapter unit		Ground	Continuity
Connector	Terminal		
B54	7		Not existed
	29		

Is inspection result OK?

- YES >> GO TO 2.
NO >> Repair harness or connector.

2. CHECK MICROPHONE POWER SUPPLY

1. Connect TEL adapter unit connector.
2. Turn ignition switch ON.
3. Check voltage between TEL adapter unit harness connector and ground.

TEL adapter unit		Ground	Voltage (Approx.)
Connector	Terminal		
B54	29		5.0 V

Is inspection result OK?

- YES >> GO TO 3.
NO >> Replace TEL adapter unit.

3. CHECK MICROPHONE SIGNAL

1. Turn ignition switch OFF.
2. Connect microphone connector.
3. Turn ignition switch ON.
4. Check signal between TEL adapter unit harness connector.

MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

TEL adapter unit		TEL adapter unit		Condition	Reference value
Connector	Terminal	Connector	Terminal		
B54	7	B54	8	Give a voice.	

Is inspection result OK?

- YES >> INSPECTION END
- NO >> Replace microphone.

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TELEPHONE ON SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

TELEPHONE ON SIGNAL CIRCUIT

Description

INFOID:000000004940253

When telephone is being used, TEL adapter unit transmits telephone ON signal to audio unit.

Diagnosis Procedure

INFOID:000000004940254

1. CHECK CONTINUITY TELEPHONE ON SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect TEL adapter unit connector and audio unit connector.
3. Check continuity between TEL adapter unit harness connector and audio unit harness connector.

TEL adapter unit		Audio unit		Continuity
Connector	Terminal	Connector	Terminal	
B54	11	M49	54	Existed

4. Check continuity between TEL adapter unit harness connector and ground.

TEL adapter unit		Ground	Continuity
Connector	Terminal		
B54	11		Not existed

Is inspection result OK?

- YES >> GO TO 2.
NO >> Repair harness or connector.

2. CHECK TELEPHONE ON SIGNAL

1. Connect audio unit connector and TEL adapter unit connector.
2. Turn ignition switch ON.
3. Check voltage between audio unit harness connector and ground.

Audio unit		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M49	54		While using hands-free phone system	0 V
			While not using hands-free phone system	5.0 V

Is inspection result OK?

- YES >> INSPECTION END
NO >> Replace audio unit.

AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

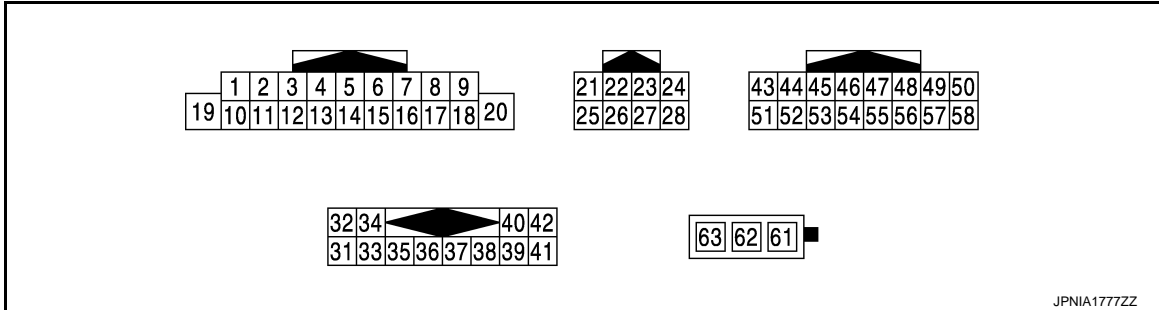
ECU DIAGNOSIS INFORMATION

AUDIO UNIT

Reference Value

INFOID:000000004940255

TERMINAL LAYOUT



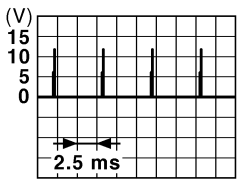
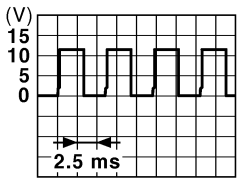
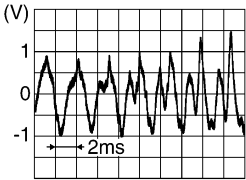
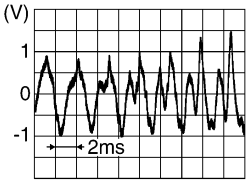

PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/Output			
2 (W)	3 (P)	Sound signal front speaker LH	Output	Ignition switch ON	Sound output	<p>SKIB3609E</p>
4 (V)	5 (R/B)	Sound signal rear speaker LH	Output	Ignition switch ON	Sound output	<p>SKIB3609E</p>
6 (W/L)	15 (L/G)	Steering switch signal A	Input	Ignition switch ON	Keep pressing SOURCE switch	0 V
					Keep pressing SEEK UP switch	0.8 V
					Keep pressing SEEK DOWN switch	1.6 V
					Keep pressing switch*	2.2 V
					Except for above	3.2 V
7 (L/Y)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage

AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

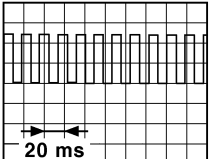
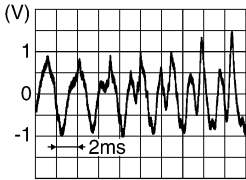
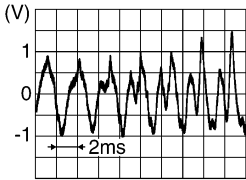
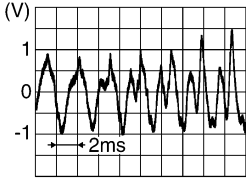
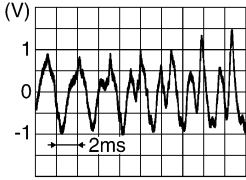
[AUDIO SYSTEM]

Terminal (Wire color)		Description		Condition	Reference value (Approx.)	
+	-	Signal name	Input/ Output			
9 (W)	8 (B/R)	Illumination control signal	Input	Ignition switch ON	<ul style="list-style-type: none"> Lighting switch 1ST When meter illumination is maximum 	
				Ignition switch OFF	<ul style="list-style-type: none"> Lighting switch 1ST When meter illumination is step 11 	
					<ul style="list-style-type: none"> Lighting switch 1ST When meter illumination is minimum <p style="text-align: center;">12.0 V</p>	
11 (G)	12 (R)	Sound signal front speaker RH	Output	Ignition switch ON	Sound output	
13 (LG)	14 (GR)	Sound signal rear speaker RH	Output	Ignition switch ON	Sound output	
15 (L/G)	Ground	Steering switch signal ground	—	Ignition switch ON	—	0 V
16 (GR/R)	15 (L/G)	Steering switch signal B	Input	Ignition switch ON	Keep pressing VOL DOWN switch.	0 V
					Keep pressing VOL UP switch.	0.8 V
					Keep pressing  switch*	1.6 V
					Except for above.	4.8 V

AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
18 (L)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is ap- prox. 40 km/h (25 MPH)	NOTE: The maximum voltage varies de- pending on the specification (destination unit).  <small>JSNIA0012GB</small>
19 (L)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
21 (R)	25 (W)	iPod sound signal LH	Input	Ignition switch ON	When iPod mode is select- ed.	 <small>SKIB3609E</small>
23 (B)	27 (G)	iPod sound signal RH	Input	Ignition switch ON	When iPod mode is select- ed.	 <small>SKIB3609E</small>
28	—	Shield	—	—	—	—
32 (R)	31 (G)	Satellite radio sound signal LH	Input	Ignition switch ON	When satellite radio mode is selected.	 <small>SKIB3609E</small>
34 (B)	33 (W)	Satellite radio sound signal RH	Input	Ignition switch ON	When satellite radio mode is selected.	 <small>SKIB3609E</small>
35	—	Shield	—	—	—	—
36	—	Shield	—	—	—	—
37 (W)	—	Source change	—	—	—	—

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AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

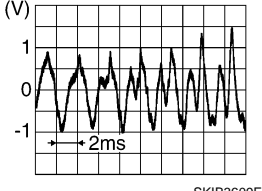
[AUDIO SYSTEM]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
38 (G/Y)	Ground	Request signal (SAT TO AUDIO)	Input	Ignition switch ON	When satellite radio mode is selected.	
39 (G/O)	Ground	Communication signal (SAT TO AUDIO)	Input	Ignition switch ON	When satellite radio mode is selected.	
40 (G/R)	Ground	Communication signal (AUDIO TO SAT)	Output	Ignition switch ON	When satellite radio mode is selected.	
41 (R/B)	—	Control signal	—	—	—	—
42 (Y/W)	—	Request signal (CHG TO AUDIO)	—	—	—	—
45 (P)	44 (L)	Sound signal woofer	Output	Ignition switch ON	Sound output	
46 (Y/B)	Ground	Woofer amp. ON signal	Output	Ignition switch ON	—	12.0 V
47 (W)	—	AV communication signal (H)	Input/ Output	—	—	—
48 (W)	—	AV communication signal (H)	Input/ Output	—	—	—
49 (R)	—	AV communication signal (L)	Input/ Output	—	—	—
51 (W/G)	53 (L/B)	Steering switch signal A	Output	Ignition switch ON	Keep pressing switch	0 V
					Except for above	4.8 V
52 (GR/R)	53 (L/B)	Steering switch signal B	Output	Ignition switch ON	Keep pressing switch	0 V
					Except for above	4.8 V
53 (L/B)	Ground	Steering switch signal ground	—	Ignition switch ON	—	0 V

AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
54 (O)	Ground	TEL ON signal	Input	Ignition switch ON	While using hands-free phone system.	0 V
				—	While not using hands-free phone system.	5.0 V
55 (R)	—	AV communication signal (L)	Input/ Output	—	—	—
56 (BR)	57 (Y)	Sound signal (TEL voice, voice guid- ance)	Input	Ignition switch ON	During voice guide output with the switch pressed.	
58	—	Shield	—	—	—	—
61	Ground	Antenna amp. ON signal	Output	Ignition switch ON	—	12.0 V
62	—	AM-FM main	Input	—	—	—

*: Only for models hands-free phone system.

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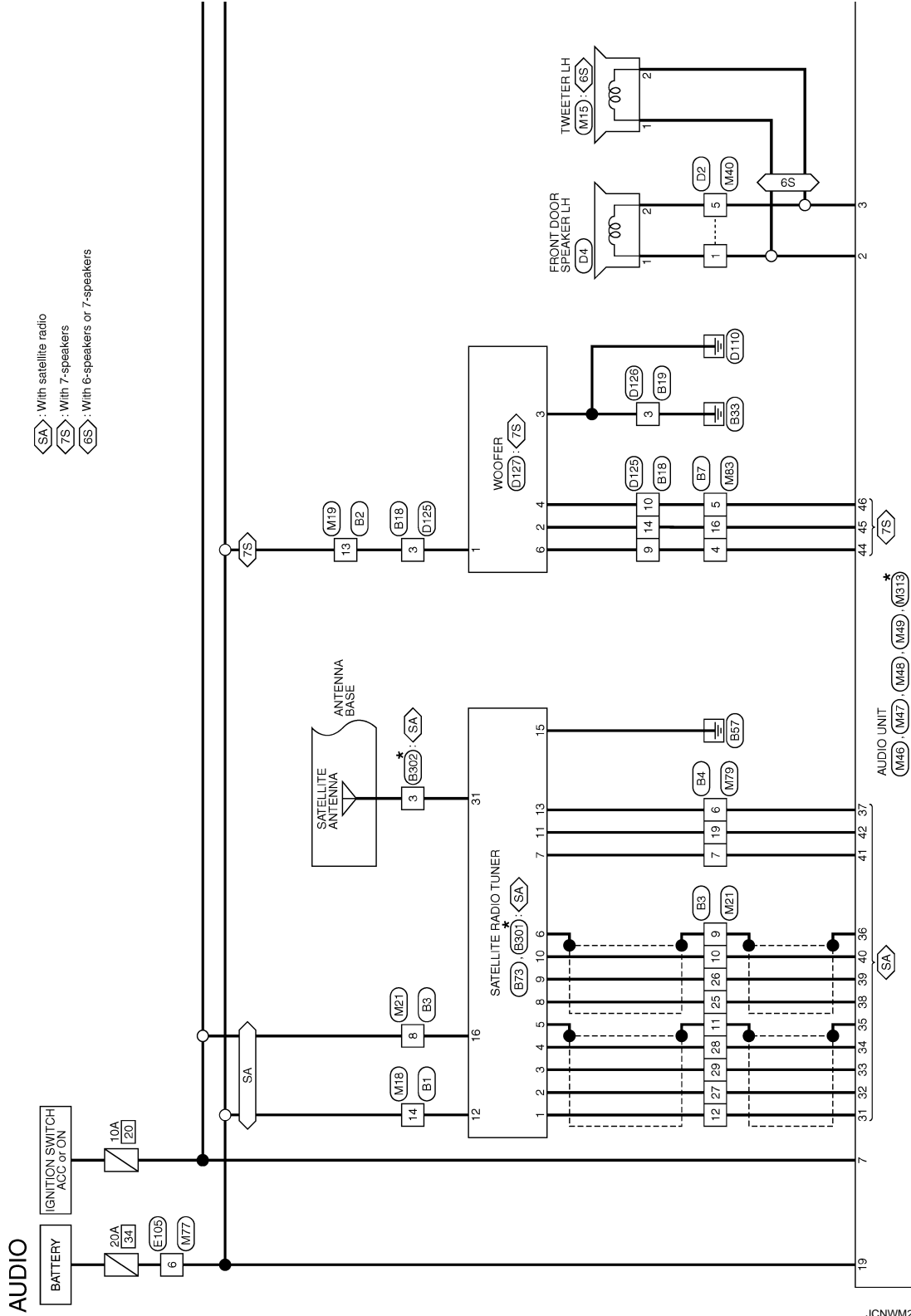
AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

Wiring Diagram - AUDIO -

INFOID:000000004940256



*: This connector is not shown in "Harness Layout".

2009/02/27

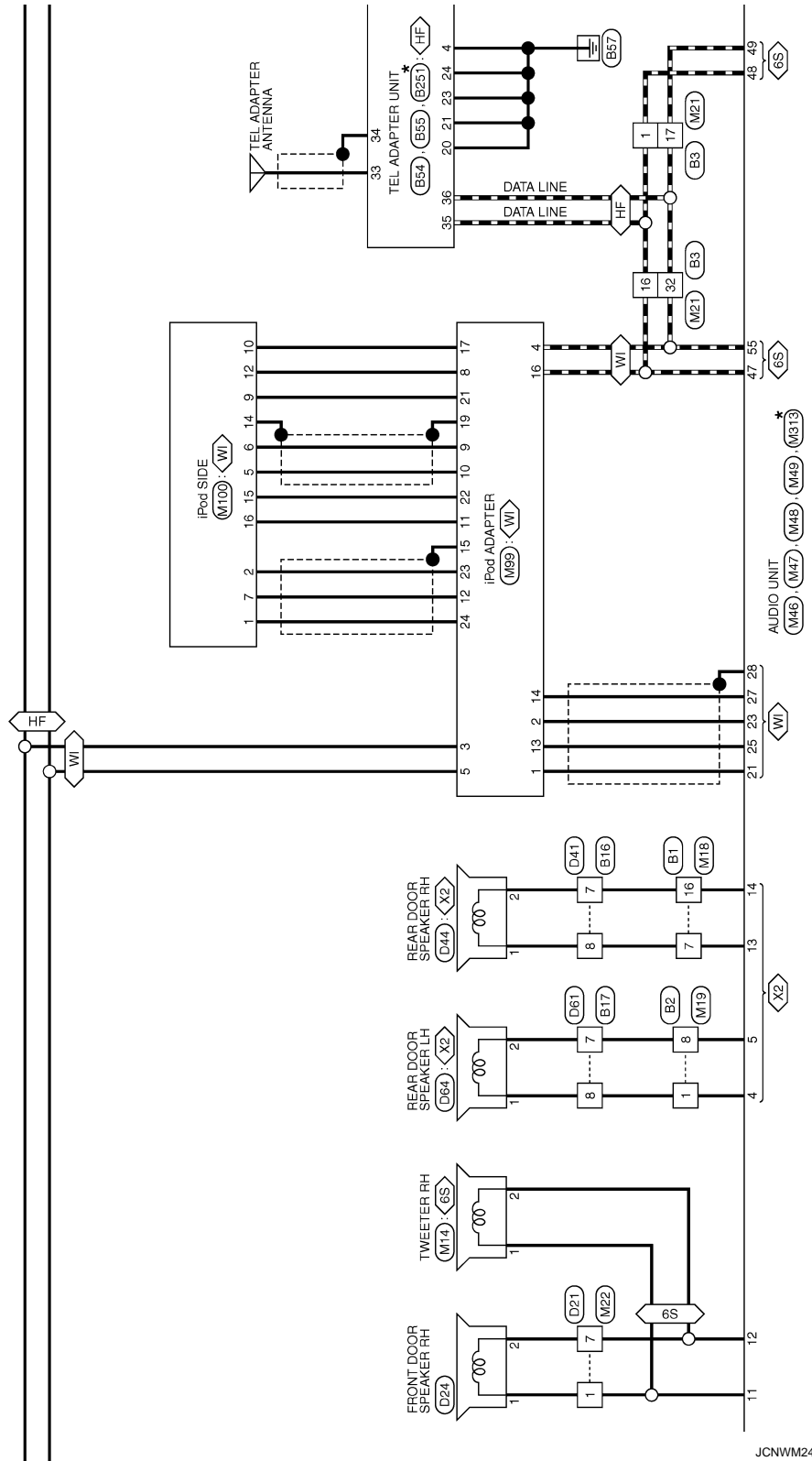
JCNWM2412GB

AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

- X2 : Except with 2-speakers
- 6S : With 6-speakers or 7-speakers
- WI : With iPod
- HF : With telephone



*: This connector is not shown in "Harness Layout".

JCNWM2413GB

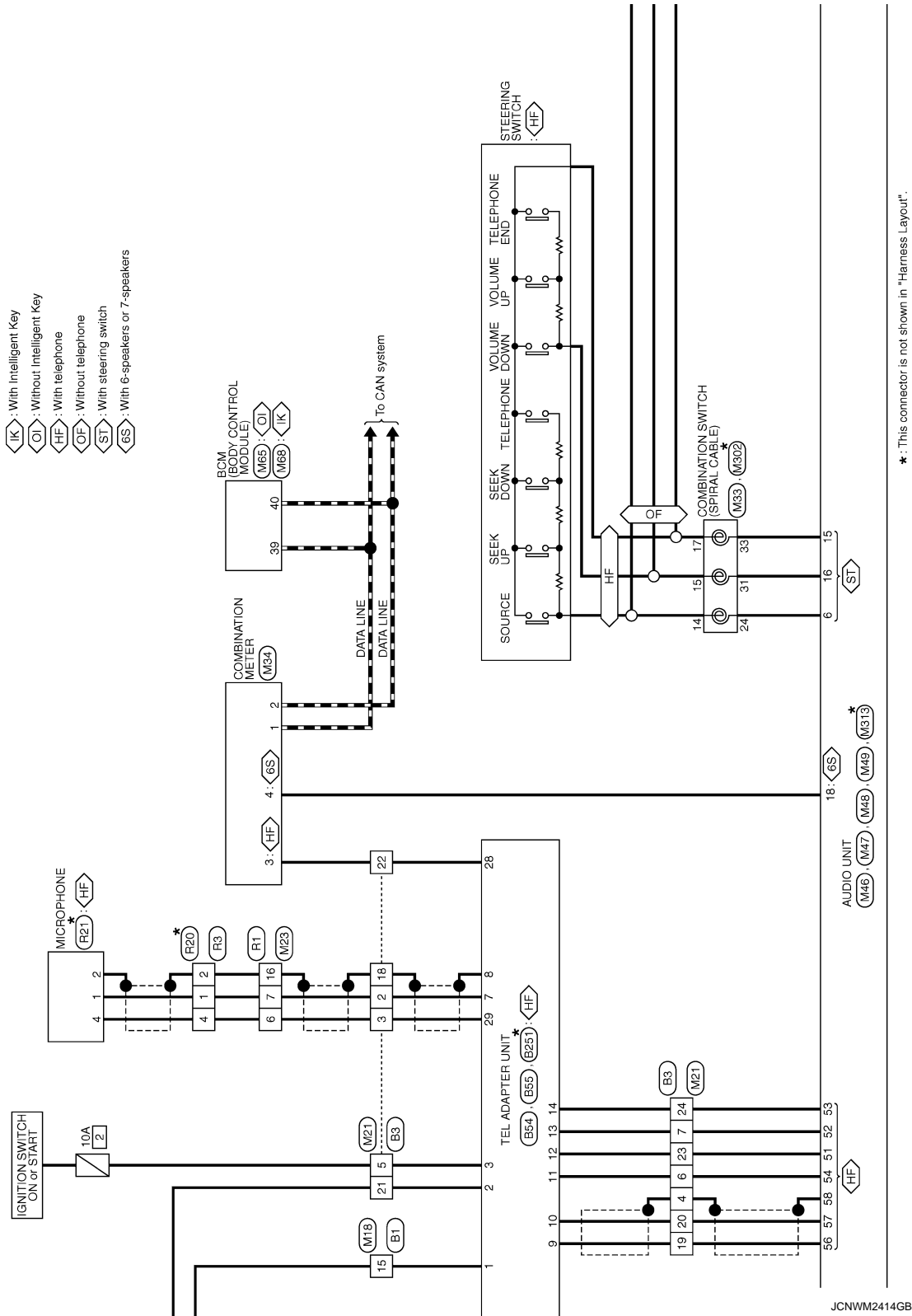
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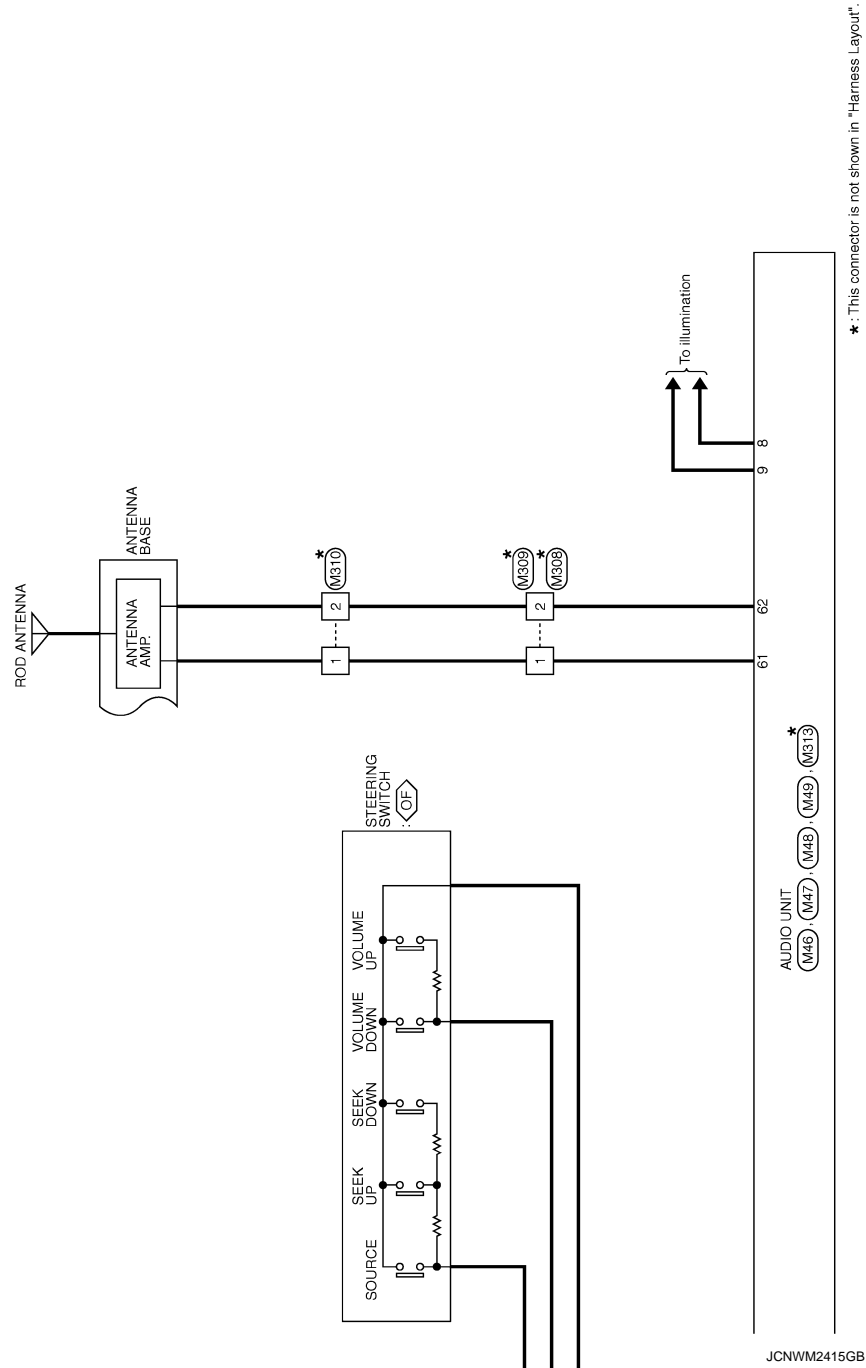
< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]



AUDIO UNIT

⊠: Without telephone



JCNWM2415GB

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AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]


AUDIO

Connector No.	B1	WIRE TO WIRE	NS16MW-CS
Terminal No.	7	LG	
Terminal No.	14	SB	
Terminal No.	15	R	
Terminal No.	16	GR	



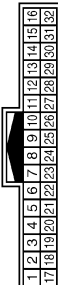
Terminal No.	Color of Wire	Signal Name [Specification]
7	LG	
14	SB	
15	R	
16	GR	

Connector No.	B2	WIRE TO WIRE	NS16MW-CS
Terminal No.	1	V	
Terminal No.	8	L	
Terminal No.	13	BR	




Terminal No.	Color of Wire	Signal Name [Specification]
1	V	
8	L	
13	BR	

Connector No.	B3	WIRE TO WIRE	TH24MW-NH
Terminal No.	1	G	
Terminal No.	2	R	
Terminal No.	3	L	
Terminal No.	4	SHIELD	
Terminal No.	5	LG	
Terminal No.	6	SB	
Terminal No.	7	R	
Terminal No.	8	V	
Terminal No.	9	SHIELD	
Terminal No.	10	R	
Terminal No.	11	SHIELD	




Terminal No.	Color of Wire	Signal Name [Specification]
1	G	
2	R	
3	L	
4	SHIELD	
5	LG	
6	SB	
7	R	
8	V	
9	SHIELD	
10	R	
11	SHIELD	

Connector No.	B4	WIRE TO WIRE	TH24MW-NH
Terminal No.	6	W	
Terminal No.	7	P	
Terminal No.	19	Y	




Terminal No.	Color of Wire	Signal Name [Specification]
6	W	
7	P	
19	Y	

Connector No.	B7	WIRE TO WIRE	TH24MW-NH
Terminal No.	1	3	
Terminal No.	2	4	
Terminal No.	3	5	
Terminal No.	4	6	
Terminal No.	5	7	
Terminal No.	6	8	
Terminal No.	7	9	
Terminal No.	8	10	
Terminal No.	9	11	
Terminal No.	10	12	
Terminal No.	11	13	
Terminal No.	12	14	
Terminal No.	13	15	
Terminal No.	14	16	
Terminal No.	15	17	
Terminal No.	16	18	
Terminal No.	17	19	
Terminal No.	18	20	
Terminal No.	19	21	
Terminal No.	20	22	
Terminal No.	21	23	
Terminal No.	22	24	



Terminal No.	Color of Wire	Signal Name [Specification]
1	3	
2	4	
3	5	
4	6	
5	7	
6	8	
7	9	
8	10	
9	11	
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15	17	
16	18	
17	19	
18	20	
19	21	
20	22	
21	23	
22	24	

Connector No.	B16	WIRE TO WIRE	NS10FW-CS
Terminal No.	7	GR	
Terminal No.	8	LG	



Terminal No.	Color of Wire	Signal Name [Specification]
7	GR	
8	LG	

Connector No.	B17	WIRE TO WIRE	NS10FW-CS
Terminal No.	7	L	
Terminal No.	8	V	



Terminal No.	Color of Wire	Signal Name [Specification]
7	L	
8	V	

JCNWM2416GB

AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

Connector No.	B18	WIRE TO WIRE	WHT0MW-CS10
Connector Name	WIRE TO WIRE		
Connector Type	TH08FW-NH		



1	2	3	4	5	6	
9	10	11	12	13	19	20
7	8	14	15	16	17	18

Terminal No.	Color of Wire	Signal Name [Specification]
3	BR	-
9	R	-
10	Y	-
14	BR	-

Connector No.	B55	TEL ADAPTER UNIT
Connector Name	TEL ADAPTER UNIT	
Connector Type	TH08FW-NH	



35	36
33	34

Terminal No.	Color of Wire	Signal Name [Specification]
35	G	AV COMM (H)
36	R	AV COMM (L)

Connector No.	B19	WIRE TO WIRE	M04MW-LC
Connector Name	WIRE TO WIRE		
Connector Type	M04MW-LC		



1	2
3	4

Terminal No.	Color of Wire	Signal Name [Specification]
3	B	-

Connector No.	B73	SATELLITE RADIO TUNER
Connector Name	SATELLITE RADIO TUNER	
Connector Type	A18FW	



2	4	6	12	16					
1	3	5	7	8	9	10	11	13	15

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	SATELLITE RADIO SOUND SIGNAL LH (-)
2	R	SATELLITE RADIO SOUND SIGNAL LH (+)
3	W	SATELLITE RADIO SOUND SIGNAL RH (-)
4	B	SATELLITE RADIO SOUND SIGNAL RH (+)
5	SHIELD	SHIELD
6	SHIELD	SHIELD
7	P	CONTROL
8	W	REQUEST SIGNAL (SAT—AUDIO)
9	B	COMMUNICATION SIGNAL (SAT—AUDIO)
10	R	COMMUNICATION SIGNAL (AUDIO—SAT)
11	Y	REQUEST SIGNAL (CIG—AUDIO)

Connector No.	B54	TEL ADAPTER UNIT
Connector Name	TEL ADAPTER UNIT	
Connector Type	TH2FW-NH	



2	4	6	10	12	14	20	24	28			
1	3	5	7	9	11	13	17	19	21	23	27

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	BATTERY
2	L	ACC
3	LG	IGNITION
4	B	GND
7	L	MICROPHONE SIGNAL
8	SHIELD	MICROPHONE GND
9	BR	SOUND SIGNAL (+)
10	Y	SOUND SIGNAL (-)
11	SB	TEL ON SIGNAL
12	GR	STRG SW A
13	P	STRG SW B

Connector No.	B251	BAT
Connector Name	SOURCE CHANGER	
Connector Type	GND	



33	34
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Terminal No.	Color of Wire	Signal Name [Specification]
33	-	TEL ANTENNA SIGNAL
34	-	SHIELD

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AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >


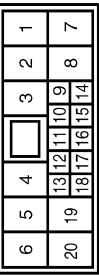


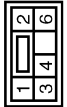

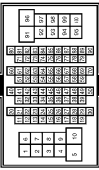

[AUDIO SYSTEM]

AUDIO

Connector No. B301	SATELLITE RADIO TUNER	FAKRA		Terminal No. 31	Color of Wire -	Signal Name [Specification] -
Connector No. B302	ANTENNA BASE	GT16C-1PP-1U		Terminal No. 3	Color of Wire -	Signal Name [Specification] -
Connector No. D2	WIRE TO WIRE	NS10FW-CS		Terminal No. 5	Color of Wire W P	Signal Name [Specification] -
Connector No. D4	FRONT DOOR SPEAKER LH	NS02FW-CS		Terminal No. 1 2	Color of Wire W P	Signal Name [Specification] -
Connector No. D21	WIRE TO WIRE	NH10FW-CS10		Terminal No. 7	Color of Wire G R	Signal Name [Specification] -
Connector No. D24	FRONT DOOR SPEAKER RH	NS02FW-CS		Terminal No. 1 2	Color of Wire G R	Signal Name [Specification] -
Connector No. D41	WIRE TO WIRE	NS10MW-CS		Terminal No. 8	Color of Wire GR LG	Signal Name [Specification] -
Connector No. D44	REAR DOOR SPEAKER RH	NS02FW-CS		Terminal No. 1 2	Color of Wire LG GR	Signal Name [Specification] -

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AUDIO

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>D61</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>NS10MW-CS</td></tr> </table> 	Connector No.	D61	Connector Name	WIRE TO WIRE	Connector Type	NS10MW-CS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>7</td><td>GR</td><td>-</td></tr> <tr><td>8</td><td>LG</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	7	GR	-	8	LG	-	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>D125</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>RH10FW-CS10</td></tr> </table> 	Connector No.	D125	Connector Name	WIRE TO WIRE	Connector Type	RH10FW-CS10	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>3</td><td>SB</td><td>-</td></tr> <tr><td>9</td><td>R</td><td>-</td></tr> <tr><td>10</td><td>Y</td><td>-</td></tr> <tr><td>14</td><td>BR</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	3	SB	-	9	R	-	10	Y	-	14	BR	-			
Connector No.	D61																																									
Connector Name	WIRE TO WIRE																																									
Connector Type	NS10MW-CS																																									
Terminal No.	Color of Wire	Signal Name [Specification]																																								
7	GR	-																																								
8	LG	-																																								
Connector No.	D125																																									
Connector Name	WIRE TO WIRE																																									
Connector Type	RH10FW-CS10																																									
Terminal No.	Color of Wire	Signal Name [Specification]																																								
3	SB	-																																								
9	R	-																																								
10	Y	-																																								
14	BR	-																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>D64</td></tr> <tr><td>Connector Name</td><td>REAR DOOR SPEAKER LH</td></tr> <tr><td>Connector Type</td><td>NS02FW-CS</td></tr> </table> 	Connector No.	D64	Connector Name	REAR DOOR SPEAKER LH	Connector Type	NS02FW-CS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>LG</td><td>-</td></tr> <tr><td>2</td><td>GR</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	LG	-	2	GR	-	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>D126</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>IM04FW-LC</td></tr> </table> 	Connector No.	D126	Connector Name	WIRE TO WIRE	Connector Type	IM04FW-LC	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>3</td><td>B</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	3	B	-												
Connector No.	D64																																									
Connector Name	REAR DOOR SPEAKER LH																																									
Connector Type	NS02FW-CS																																									
Terminal No.	Color of Wire	Signal Name [Specification]																																								
1	LG	-																																								
2	GR	-																																								
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Connector Name	WIRE TO WIRE																																									
Connector Type	IM04FW-LC																																									
Terminal No.	Color of Wire	Signal Name [Specification]																																								
3	B	-																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>D127</td></tr> <tr><td>Connector Name</td><td>WOOFER</td></tr> <tr><td>Connector Type</td><td>NS06FW-CS</td></tr> </table> 	Connector No.	D127	Connector Name	WOOFER	Connector Type	NS06FW-CS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>SB</td><td>BATTERY</td></tr> <tr><td>2</td><td>BR</td><td>SOUND SIGNAL WOOFER (+)</td></tr> <tr><td>3</td><td>B</td><td>GND</td></tr> <tr><td>4</td><td>Y</td><td>WOOFER AMP_ON SIGNAL</td></tr> <tr><td>6</td><td>R</td><td>SOUND SIGNAL WOOFER (-)</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	SB	BATTERY	2	BR	SOUND SIGNAL WOOFER (+)	3	B	GND	4	Y	WOOFER AMP_ON SIGNAL	6	R	SOUND SIGNAL WOOFER (-)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>M14</td></tr> <tr><td>Connector Name</td><td>TWEETER RH</td></tr> <tr><td>Connector Type</td><td>TK02FBR</td></tr> </table> 	Connector No.	M14	Connector Name	TWEETER RH	Connector Type	TK02FBR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>G</td><td>-</td></tr> <tr><td>2</td><td>R</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	G	-	2	R	-
Connector No.	D127																																									
Connector Name	WOOFER																																									
Connector Type	NS06FW-CS																																									
Terminal No.	Color of Wire	Signal Name [Specification]																																								
1	SB	BATTERY																																								
2	BR	SOUND SIGNAL WOOFER (+)																																								
3	B	GND																																								
4	Y	WOOFER AMP_ON SIGNAL																																								
6	R	SOUND SIGNAL WOOFER (-)																																								
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Terminal No.	Color of Wire	Signal Name [Specification]																																								
1	G	-																																								
2	R	-																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>E 05</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH80MW-CS16-TM4</td></tr> </table> 	Connector No.	E 05	Connector Name	WIRE TO WIRE	Connector Type	TH80MW-CS16-TM4	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>6</td><td>R</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	6	R	-	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>M15</td></tr> <tr><td>Connector Name</td><td>TWEETER LH</td></tr> <tr><td>Connector Type</td><td>TK02FBR</td></tr> </table> 	Connector No.	M15	Connector Name	TWEETER LH	Connector Type	TK02FBR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>W</td><td>-</td></tr> <tr><td>2</td><td>P</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	W	-	2	P	-												
Connector No.	E 05																																									
Connector Name	WIRE TO WIRE																																									
Connector Type	TH80MW-CS16-TM4																																									
Terminal No.	Color of Wire	Signal Name [Specification]																																								
6	R	-																																								
Connector No.	M15																																									
Connector Name	TWEETER LH																																									
Connector Type	TK02FBR																																									
Terminal No.	Color of Wire	Signal Name [Specification]																																								
1	W	-																																								
2	P	-																																								

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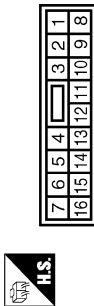
AUDIO UNIT

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[AUDIO SYSTEM]

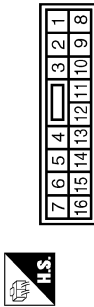
AUDIO

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



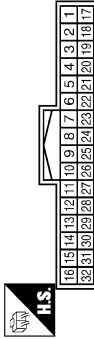
Terminal No.	Color of Wire	Signal Name [Specification]
7	LG	-
14	L	-
15	L	-
16	GR	-

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
8	R/B	-
13	L	-

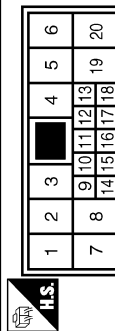
Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	TH42FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	G	-
3	V	-
4	SHIELD	-
5	O	-
6	G/O	-
7	GR/R	-
8	L/Y	-
9	SHIELD	-
10	G/R	-
11	SHIELD	-

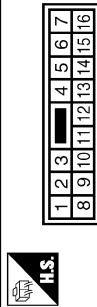
12	G
16	G
17	R
18	SHIELD
19	BR
20	Y
21	L/Y
22	V
23	W/G
24	L/B
25	G/Y
26	G/O
27	R
28	B
29	W
32	R

Connector No.	M22
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
7	R	-

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



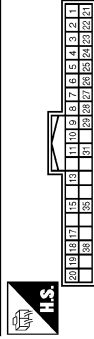
Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
7	G	-
16	SHIELD	-

Connector No.	M33
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V



Terminal No.	Color of Wire	Signal Name [Specification]
24	W/L	-
31	GR/R	-
33	L/G	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	CAN-H
2	P	CAN-L
3	V	VEHICLE SPEED SIGNAL (2-PULSE)
4	Y	VEHICLE SPEED SIGNAL (8-PULSE)

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AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

Connector No.	M44
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
5	P	-

Connector No.	M48
Connector Name	AUDIO UNIT
Connector Type	A12FW



Terminal No.	Color of Wire	Signal Name [Specification]
31	G	SATELLITE RADIO SOUND SIGNAL LH (-)
32	R	SATELLITE RADIO SOUND SIGNAL LH (+)
33	W	SATELLITE RADIO SOUND SIGNAL RH (-)
34	B	SATELLITE RADIO SOUND SIGNAL RH (+)
35	SHIELD	SHIELD
36	SHIELD	SHIELD
37	W	SOURCE CHANGER
38	G/Y	REQUEST SIGNAL (SAT-AUDIO)
39	G/O	COMM (SAT-AUDIO)
40	G/R	COMM (AUDIO-SAT)
41	R/B	CONTROL

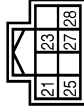
Connector No.	M46
Connector Name	AUDIO UNIT
Connector Type	TH18FW-CSZ



Terminal No.	Color of Wire	Signal Name [Specification]
2	W	SOUND SIGNAL FRONT SPEAKER LH (+)
3	P	SOUND SIGNAL FRONT SPEAKER LH (-)
4	V	SOUND SIGNAL REAR SPEAKER LH (+)
5	R/B	SOUND SIGNAL REAR SPEAKER LH (-)
6	W/B	STRG SW A
7	L/Y	ACC
8	B/R	ILLUMINATION CONTROL SIGNAL (-)
9	W	ILLUMINATION CONTROL SIGNAL (+)
11	G	SOUND SIGNAL FRONT SPEAKER RH (+)
12	R	SOUND SIGNAL FRONT SPEAKER RH (-)
13	LG	SOUND SIGNAL REAR SPEAKER RH (+)

42	Y/W	REQUEST SIGNAL (CHG-AUDIO)
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14	GR	SOUND SIGNAL REAR SPEAKER RH (-)
15	L/G	STRG SW GND
16	GR/R	STRG SW B
18	L	VEHICLE SPEED (PULSE)
19	L	BATTERY



Terminal No.	Color of Wire	Signal Name [Specification]
21	R	IPod SOUND SIGNAL LH (+)
23	B	IPod SOUND SIGNAL RH (+)
25	W	IPod SOUND SIGNAL LH (-)
27	G	IPod SOUND SIGNAL RH (-)
28	SHIELD	SHIELD

56	BR	SOUND SIGNAL (-)
57	Y	SOUND SIGNAL (-)
58	SHIELD	SHIELD

Connector No.	M49
Connector Name	AUDIO UNIT
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
44	L	SOUND SIGNAL WOOFER (-)
45	P	SOUND SIGNAL WOOFER (+)
46	Y/B	WOOFER AMP ON SIGNAL
47	W	AV COMM (H)
48	W	AV COMM (H)
49	R	AV COMM (L)
51	W/G	STRG SW A
52	GR/R	STRG SW B
53	L/B	STRG SW GND
54	O	TELEON SIGNAL
55	R	AV COMM (L)

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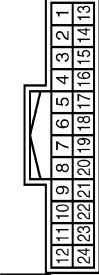
AUDIO UNIT

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[AUDIO SYSTEM]

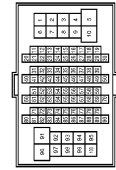
AUDIO

Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



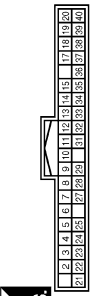
Terminal No.	Color of Wire	Signal Name [Specification]
6	W/G	-
7	R/B	-
19	Y	-

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-CS16-TM4



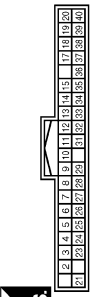
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-

Connector No.	M68
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY)
Connector Type	TH40P-B-NH



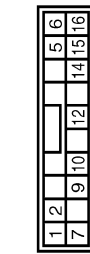
Terminal No.	Color of Wire	Signal Name [Specification]
39	L	CAN-H
40	P	CAN-L

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY)
Connector Type	TH40P-V-NH



Terminal No.	Color of Wire	Signal Name [Specification]
39	L	CAN-H
40	P	CAN-L

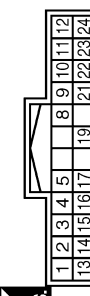
Connector No.	M100
Connector Name	IPOD SIDE
Connector Type	IP18FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	G/O	IPOD SOUND SIGNAL LH (+)
2	G/Y	IPOD SOUND SIGNAL GND
5	L	COMM (IPOD—IPOD ADAPTER)
6	P	COMM (IPOD—IPOD ADAPTER—IPOD)
7	G/R	IPOD SOUND SIGNAL RH (+)
9	W/B	IPOD CONNECTION RECOGNITION GND
12	LG	CHARGE POWER
14	SHIELD	SHIELD
15	G/O	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY


Terminal No.	Color of Wire	Signal Name [Specification]
14	G	IPOD SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	B	GND
19	SHIELD	SHIELD
21	W/B	IPOD CONNECTION RECOGNITION
22	G/O	ACCESSORY DETECT
23	G/Y	IPOD SOUND SIGNAL GND
24	G/O	IPOD SOUND SIGNAL LH (+)

Connector No.	M89
Connector Name	IPOD ADAPTER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	IPOD SOUND SIGNAL LH (+)
2	B	IPOD SOUND SIGNAL RH (+)
3	L/Y	ACC
4	R	AV COMM (L)
5	L	BATTERY
8	LG	CHARGE POWER
9	P	COMM (IPOD—IPOD ADAPTER)
10	L	COMM (IPOD—IPOD ADAPTER)
11	O	ACCESSORY IDENTIFY
12	G/R	IPOD SOUND SIGNAL RH (+)
13	W	IPOD SOUND SIGNAL LH (-)

Connector No.	M83
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	L	-
5	Y/B	-
16	P	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	G/O	IPOD SOUND SIGNAL LH (+)
2	G/Y	IPOD SOUND SIGNAL GND
5	L	COMM (IPOD—IPOD ADAPTER)
6	P	COMM (IPOD—IPOD ADAPTER—IPOD)
7	G/R	IPOD SOUND SIGNAL RH (+)
9	W/B	IPOD CONNECTION RECOGNITION GND
10	B	CHARGE POWER
12	LG	CHARGE POWER
14	SHIELD	SHIELD
15	G/O	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	IPOD SOUND SIGNAL LH (+)
2	B	IPOD SOUND SIGNAL RH (+)
3	L/Y	ACC
4	R	AV COMM (L)
5	L	BATTERY
8	LG	CHARGE POWER
9	P	COMM (IPOD—IPOD ADAPTER)
10	L	COMM (IPOD—IPOD ADAPTER)
11	O	ACCESSORY IDENTIFY
12	G/R	IPOD SOUND SIGNAL RH (+)
13	W	IPOD SOUND SIGNAL LH (-)

Terminal No.	Color of Wire	Signal Name [Specification]
4	L	-
5	Y/B	-
16	P	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	G/O	IPOD SOUND SIGNAL LH (+)
2	G/Y	IPOD SOUND SIGNAL GND
5	L	COMM (IPOD—IPOD ADAPTER)
6	P	COMM (IPOD—IPOD ADAPTER—IPOD)
7	G/R	IPOD SOUND SIGNAL RH (+)
9	W/B	IPOD CONNECTION RECOGNITION GND
10	B	CHARGE POWER
12	LG	CHARGE POWER
14	SHIELD	SHIELD
15	G/O	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

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AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

Connector No.	M302
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY



Terminal No.	Color of Wire	Signal Name [Specification]
14	Y	- [With telephone]
14	W	- [Without telephone]
15	P	- [With telephone]
15	L	- [Without telephone]
17	W	- [With telephone]
17	BR	- [Without telephone]

Connector No.	M308
Connector Name	WIRE TO WIRE
Connector Type	GT15SCN-1/PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	M309
Connector Name	WIRE TO WIRE
Connector Type	GT15SC-1/IS-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	M310
Connector Name	ANTENNA BASE
Connector Type	GT15SN-1/PP-HU



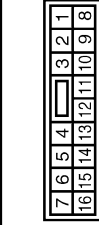
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	ANTENNA AMP. ON SIGNAL
2	-	AM-FM MAIN

Connector No.	M313
Connector Name	AUDIO UNIT
Connector Type	GT13SH-2/IS-HU



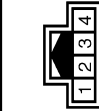
Terminal No.	Color of Wire	Signal Name [Specification]
61	-	ANTENNA AMP. ON SIGNAL
62	-	AM-FM MAIN

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-GS



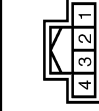
Terminal No.	Color of Wire	Signal Name [Specification]
6	Y	-
7	L	-
16	G	-

Connector No.	R3
Connector Name	WIRE TO WIRE
Connector Type	TR04MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
4	Y	-

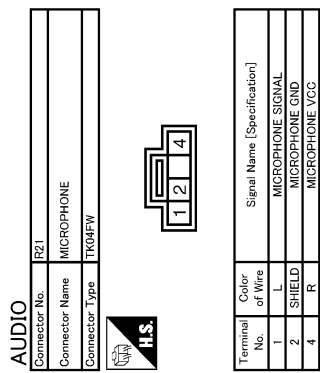
Connector No.	R20
Connector Name	WIRE TO WIRE
Connector Type	TR04FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	SHIELD	-
4	R	-

JCNWM2423GB

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JCNWM2424GB

WOOFER

< ECU DIAGNOSIS INFORMATION >

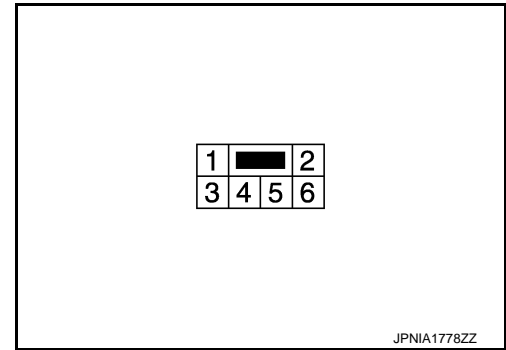
[AUDIO SYSTEM]

WOOFER

Reference Value

INFOID:000000004940259

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (SB)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
2 (BR)	6 (R)	Sound signal woofer	Output	Ignition switch ON	Voice output	
3 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
4 (Y)	Ground	Woofer amp. ON signal	Input	Ignition switch ON	Voice output	12.0 V

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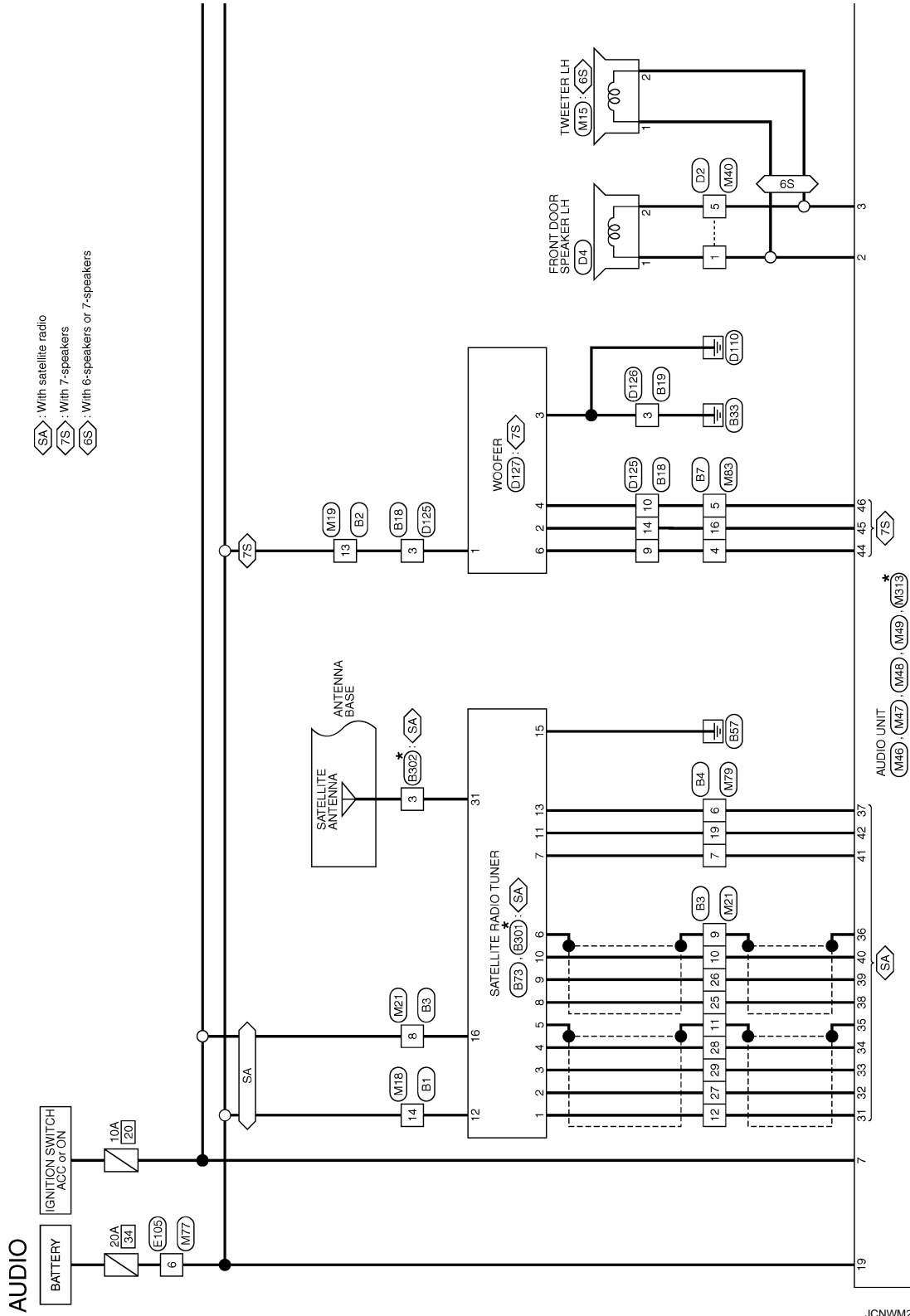
AV

O
P

WOOFER

Wiring Diagram - AUDIO -

INFOID:000000004940260



- ◁SA : With satellite radio
- ◁7S : With 7-speakers
- ◁6S : With 6-speakers or 7-speakers

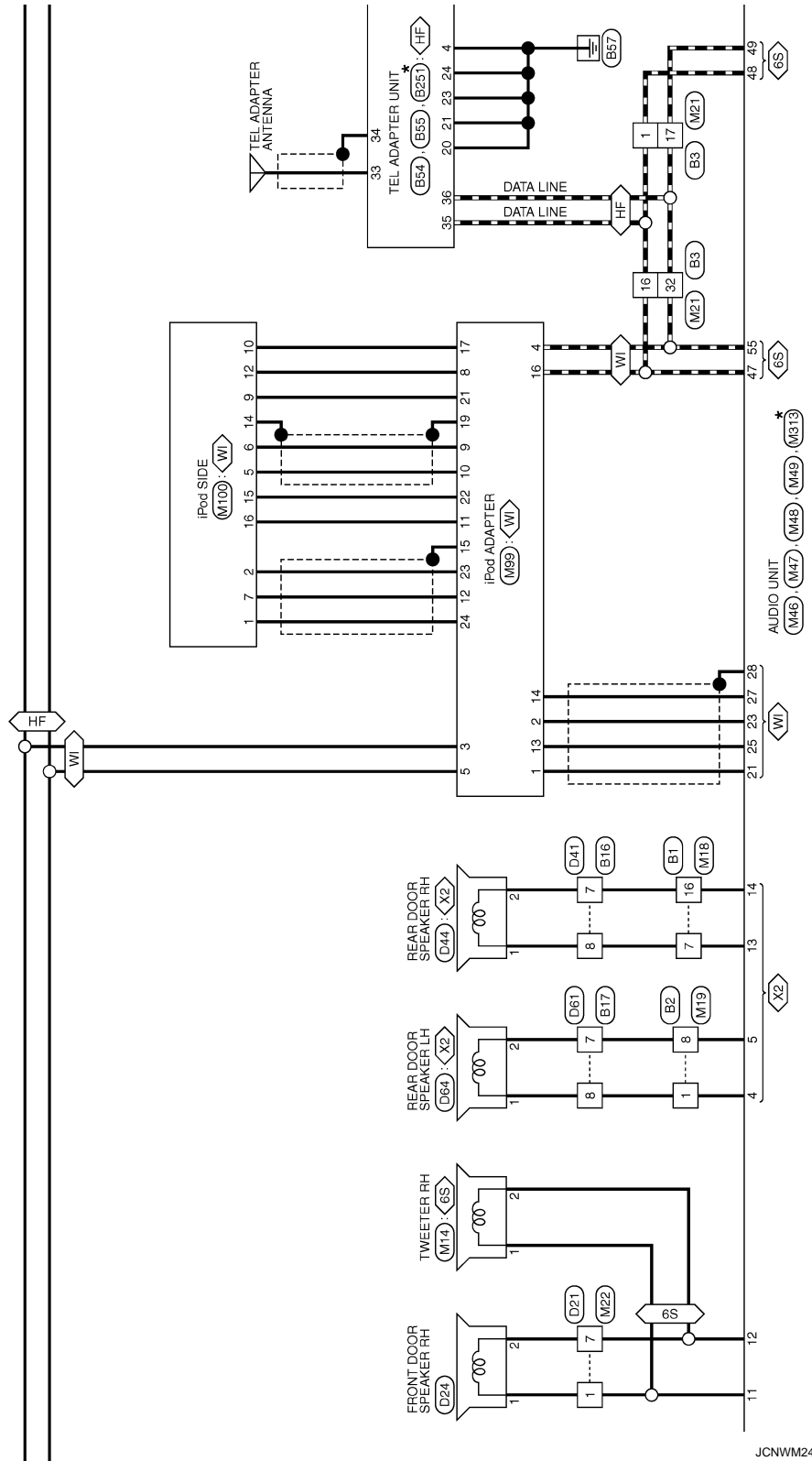
*: This connector is not shown in "Harness Layout".

2009/02/27

JCNWM2412GB

WOOFER

- X2 : Except with 2-speakers
- 6S : With 6-speakers or 7-speakers
- WI : With iPod
- HF : With telephone

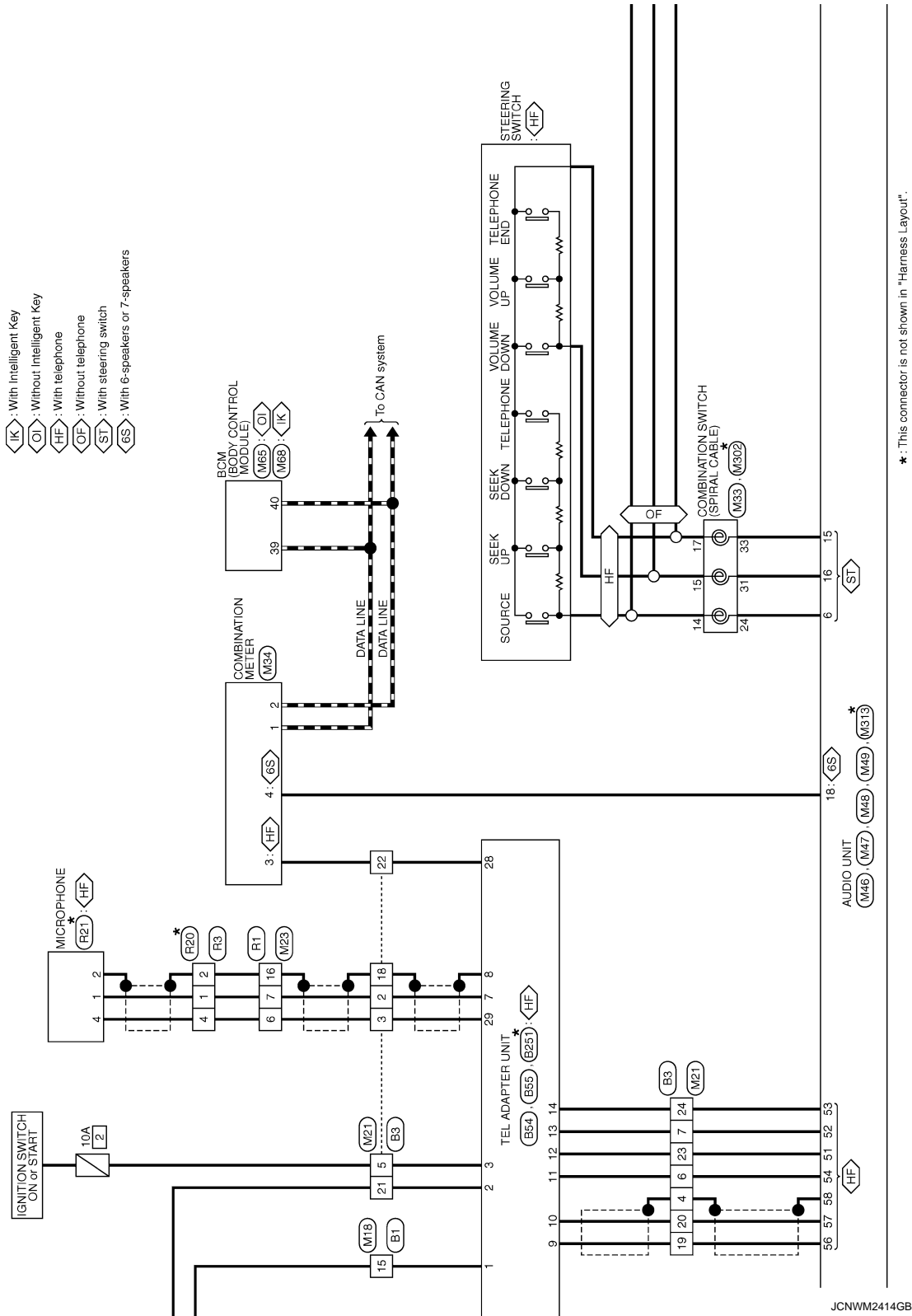


JCNWM2413GB

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WOOFER

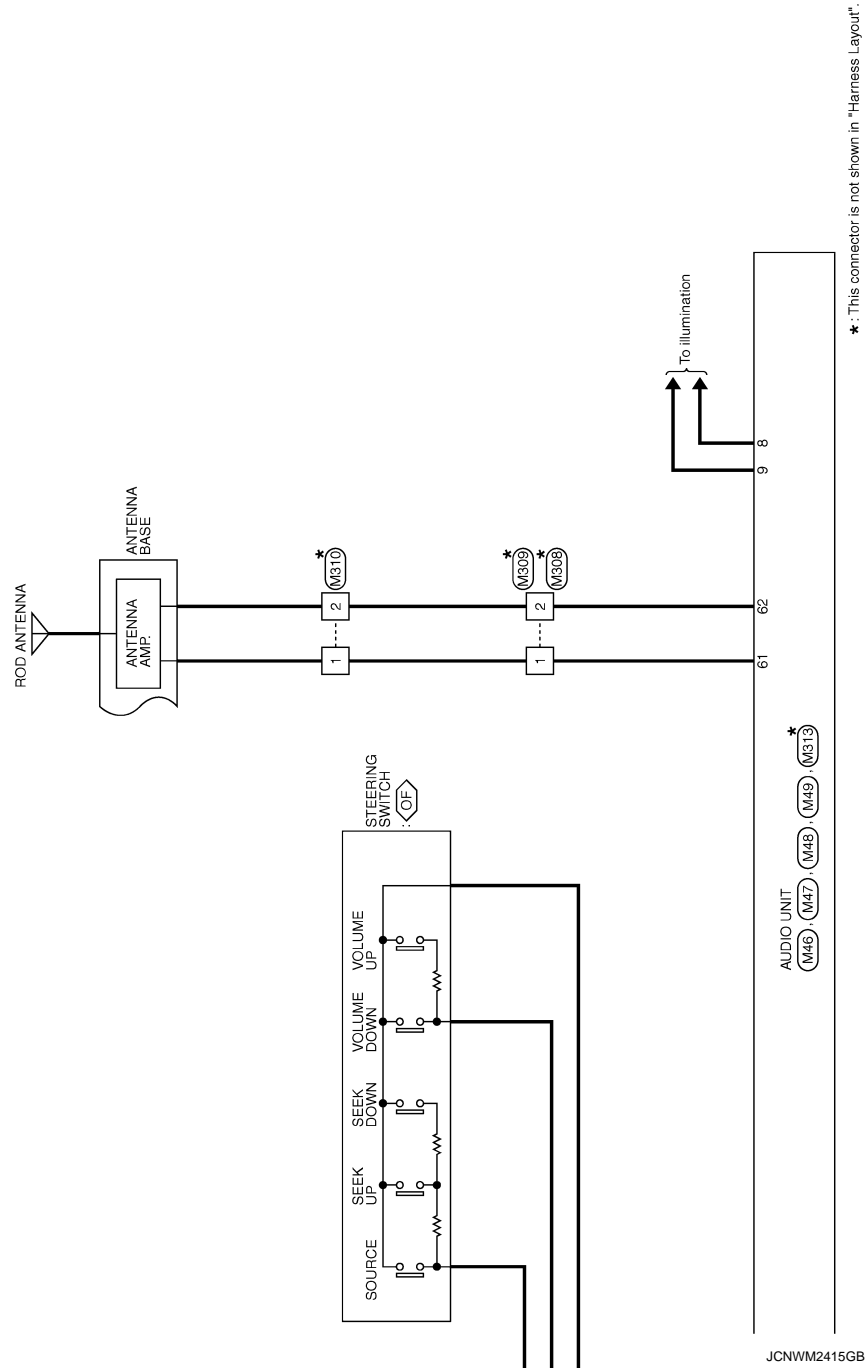


*: This connector is not shown in "Harness Layout".

JCNWM2414GB

WOOFER

⊠: Without telephone





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AUDIO

Connector No.	B1	WIRE TO WIRE	
Connector Name	NS16MW-CS		
Connector Type			



Terminal No.	Color of Wire	Signal Name [Specification]
7	LG	
14	SB	
15	R	
16	GR	

Connector No.	B2	WIRE TO WIRE	
Connector Name	NS16MW-CS		
Connector Type			



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	
8	L	
13	BR	

Connector No.	B3	WIRE TO WIRE	
Connector Name	TH24MW-NH		
Connector Type			


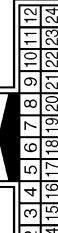
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	
2	L	
3	R	
4	SHIELD	
5	LG	
6	SB	
7	P	
8	V	
9	SHIELD	
10	R	
11	SHIELD	

Connector No.	B4	WIRE TO WIRE	
Connector Name	TH24MW-NH		
Connector Type			



Terminal No.	Color of Wire	Signal Name [Specification]
7	LG	
14	SB	
15	R	
16	GR	

Connector No.	B7	WIRE TO WIRE	
Connector Name	TH24MW-NH		
Connector Type			



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	
8	L	
13	BR	

Connector No.	B17	WIRE TO WIRE	
Connector Name	NS10FW-CS		
Connector Type			



Terminal No.	Color of Wire	Signal Name [Specification]
7	L	
8	V	

Connector No.	B16	WIRE TO WIRE	
Connector Name	NS10FW-CS		
Connector Type			

Terminal No.	Color of Wire	Signal Name [Specification]
7	GR	
8	LG	

Connector No.	B18	WIRE TO WIRE	
Connector Name	NS10FW-CS		
Connector Type			

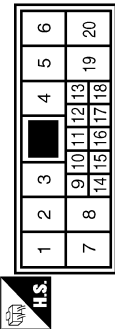



Terminal No.	Color of Wire	Signal Name [Specification]
6	W	
7	P	
19	Y	

JCNWM2416GB

AUDIO

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TH10MW-CS10



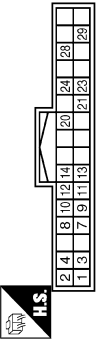
Terminal No.	Color of Wire	Signal Name [Specification]
3	BR	-
9	R	-
10	Y	-
14	BR	-

Connector No.	B19
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC



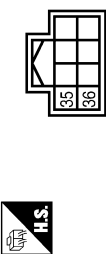
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	-

Connector No.	B54
Connector Name	TEL ADAPTER UNIT
Connector Type	TH2FW-NH



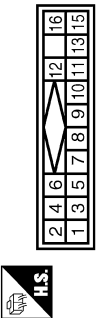
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	BATTERY
2	L	ACC
3	LG	IGNITION
4	B	GND
7	L	MICROPHONE SIGNAL
8	SHIELD	MICROPHONE GND
9	BR	SOUND SIGNAL (+)
10	Y	SOUND SIGNAL (-)
11	SB	TEL ON SIGNAL
12	GR	STRG SW A
13	P	STRG SW B

Connector No.	B55
Connector Name	TEL ADAPTER UNIT
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
35	G	AV COMM (H)
36	R	AV COMM (L)

Connector No.	B73
Connector Name	SATELLITE RADIO TUNER
Connector Type	A18FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	SATELLITE RADIO SOUND SIGNAL LH (-)
2	R	SATELLITE RADIO SOUND SIGNAL LH (+)
3	W	SATELLITE RADIO SOUND SIGNAL RH (-)
4	B	SATELLITE RADIO SOUND SIGNAL RH (+)
5	SHIELD	SHIELD
6	SHIELD	SHIELD
7	P	CONTROL
8	W	REQUEST SIGNAL (SAT—AUDIO)
9	B	COMMUNICATION SIGNAL (SAT—AUDIO)
10	R	COMMUNICATION SIGNAL (AUDIO—SAT)
11	Y	REQUEST SIGNAL (CIG—AUDIO)

Connector No.	B251
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
33	-	TEL ANTENNA SIGNAL
34	-	SHIELD

14	L	STRG SW GND
20	B	CONTROL SIGNAL
21	B	CONTROL SIGNAL
23	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
28	O	VEHICLE SPEED (2-PULSE)
29	R	MICROPHONE VCC

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WOOFER

AUDIO

Connector No. B301	SATELLITE RADIO TUNER	FAKRA		Terminal No. 31	Color of Wire -	Signal Name [Specification] -
Connector No. B302	ANTENNA BASE	GT16C-1PP-7U		Terminal No. 3	Color of Wire -	Signal Name [Specification] -
Connector No. D2	WIRE TO WIRE	NS10FW-CS		Terminal No. 5	Color of Wire W P	Signal Name [Specification] -
Connector No. D4	FRONT DOOR SPEAKER LH	NS02FW-CS		Terminal No. 1 2	Color of Wire W P	Signal Name [Specification] -
Connector No. D21	WIRE TO WIRE	NH10FW-CS10		Terminal No. 7	Color of Wire G R	Signal Name [Specification] -
Connector No. D24	FRONT DOOR SPEAKER RH	NS02FW-CS		Terminal No. 1 2	Color of Wire G R	Signal Name [Specification] -
Connector No. D41	WIRE TO WIRE	NS10MW-CS		Terminal No. 8	Color of Wire GR LG	Signal Name [Specification] -
Connector No. D44	REAR DOOR SPEAKER RH	NS02FW-CS		Terminal No. 1 2	Color of Wire LG GR	Signal Name [Specification] -

JCNWM2418GB

AUDIO

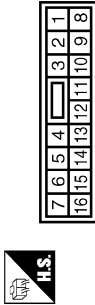
Connector No. D61	WIRE TO WIRE NS10MW-CS		<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>7</td><td>GR</td><td>-</td></tr> <tr><td>8</td><td>LG</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	7	GR	-	8	LG	-									
Terminal No.	Color of Wire	Signal Name [Specification]																			
7	GR	-																			
8	LG	-																			
Connector No. D64	REAR DOOR SPEAKER LH NS02FW-CS		<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>LG</td><td>-</td></tr> <tr><td>2</td><td>GR</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	LG	-	2	GR	-									
Terminal No.	Color of Wire	Signal Name [Specification]																			
1	LG	-																			
2	GR	-																			
Connector No. D125	WIRE TO WIRE NH10FW-CS10		<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>3</td><td>SB</td><td>-</td></tr> <tr><td>9</td><td>R</td><td>-</td></tr> <tr><td>10</td><td>Y</td><td>-</td></tr> <tr><td>14</td><td>BR</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	3	SB	-	9	R	-	10	Y	-	14	BR	-			
Terminal No.	Color of Wire	Signal Name [Specification]																			
3	SB	-																			
9	R	-																			
10	Y	-																			
14	BR	-																			
Connector No. D126	WIRE TO WIRE MMAFW-LC		<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>3</td><td>B</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	3	B	-												
Terminal No.	Color of Wire	Signal Name [Specification]																			
3	B	-																			
Connector No. D127	WOOFER NS06FW-CS		<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>SB</td><td>BATTERY</td></tr> <tr><td>2</td><td>BR</td><td>SOUND SIGNAL WOOFER (+)</td></tr> <tr><td>3</td><td>B</td><td>GND</td></tr> <tr><td>4</td><td>Y</td><td>WOOFER AMP_ON SIGNAL</td></tr> <tr><td>6</td><td>R</td><td>SOUND SIGNAL WOOFER (-)</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	SB	BATTERY	2	BR	SOUND SIGNAL WOOFER (+)	3	B	GND	4	Y	WOOFER AMP_ON SIGNAL	6	R	SOUND SIGNAL WOOFER (-)
Terminal No.	Color of Wire	Signal Name [Specification]																			
1	SB	BATTERY																			
2	BR	SOUND SIGNAL WOOFER (+)																			
3	B	GND																			
4	Y	WOOFER AMP_ON SIGNAL																			
6	R	SOUND SIGNAL WOOFER (-)																			
Connector No. E 05	WIRE TO WIRE TH80MW-CS16-TM4		<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>6</td><td>R</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	6	R	-												
Terminal No.	Color of Wire	Signal Name [Specification]																			
6	R	-																			
Connector No. M14	TWEETER RH TK02FBR		<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>G</td><td>-</td></tr> <tr><td>2</td><td>R</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	G	-	2	R	-									
Terminal No.	Color of Wire	Signal Name [Specification]																			
1	G	-																			
2	R	-																			
Connector No. M15	TWEETER LH TK02FBR		<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>W</td><td>-</td></tr> <tr><td>2</td><td>P</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	W	-	2	P	-									
Terminal No.	Color of Wire	Signal Name [Specification]																			
1	W	-																			
2	P	-																			

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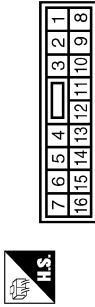
AUDIO

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



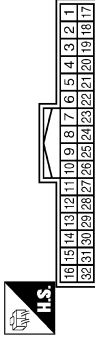
Terminal No.	Color of Wire	Signal Name [Specification]
7	LG	-
14	L	-
15	L	-
16	GR	-

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



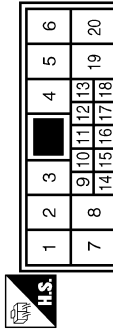
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
8	R/B	-
13	L	-

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	TH42FW-NH



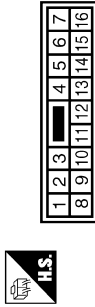
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	G	-
3	V	-
4	SHIELD	-
5	O	-
6	G/O	-
7	GR/R	-
8	L/Y	-
9	SHIELD	-
10	G/R	-
11	SHIELD	-

Connector No.	M22
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
7	R	-

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
7	G	-
16	SHIELD	-

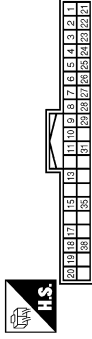
Connector No.	M33
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V



Terminal No.	Color of Wire	Signal Name [Specification]
24	W/L	-
31	GR/R	-
33	L/G	-

12	G	-
16	G	-
17	R	-
18	SHIELD	-
19	BR	-
20	Y	-
21	L/Y	-
22	V	-
23	W/G	-
24	L/B	-
25	G/Y	-
26	G/O	-
27	R	-
28	B	-
29	W	-
32	R	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH

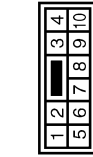


Terminal No.	Color of Wire	Signal Name [Specification]
1	L	CAN-H
2	P	CAN-L
3	V	VEHICLE SPEED SIGNAL (2-PULSE)
4	Y	VEHICLE SPEED SIGNAL (8-PULSE)

WOOFER

AUDIO

Connector No.	M44
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
5	P	-

Connector No.	M48
Connector Name	AUDIO UNIT
Connector Type	A12FW



Terminal No.	Color of Wire	Signal Name [Specification]
31	G	SATELLITE RADIO SOUND SIGNAL LH (-)
32	R	SATELLITE RADIO SOUND SIGNAL LH (+)
33	W	SATELLITE RADIO SOUND SIGNAL RH (-)
34	B	SATELLITE RADIO SOUND SIGNAL RH (+)
35	SHIELD	SHIELD
36	SHIELD	SHIELD
37	W	SOURCE CHANGER
38	G/Y	REQUEST SIGNAL (SAT-AUDIO)
39	G/O	COMM (SAT-AUDIO)
40	G/R	COMM (AUDIO-SAT)
41	R/B	CONTROL

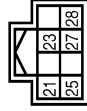
Connector No.	M46
Connector Name	AUDIO UNIT
Connector Type	TH18FW-CSZ



Terminal No.	Color of Wire	Signal Name [Specification]
2	W	SOUND SIGNAL FRONT SPEAKER LH (+)
3	P	SOUND SIGNAL FRONT SPEAKER LH (-)
4	V	SOUND SIGNAL REAR SPEAKER LH (+)
5	R/B	SOUND SIGNAL REAR SPEAKER LH (-)
6	W/B	STRG SW A
7	L/Y	ACC
8	B/R	ILLUMINATION CONTROL SIGNAL (-)
9	W	ILLUMINATION CONTROL SIGNAL (+)
11	G	SOUND SIGNAL FRONT SPEAKER RH (+)
12	R	SOUND SIGNAL FRONT SPEAKER RH (-)
13	LG	SOUND SIGNAL REAR SPEAKER RH (+)

42	Y/W	REQUEST SIGNAL (CHG-AUDIO)
----	-----	----------------------------

14	GR	SOUND SIGNAL REAR SPEAKER RH (-)
15	L/G	STRG SW GND
16	GR/R	STRG SW B
18	L	VEHICLE SPEED (PULSE)
19	L	BATTERY



Terminal No.	Color of Wire	Signal Name [Specification]
21	R	IPod SOUND SIGNAL LH (+)
23	B	IPod SOUND SIGNAL RH (+)
25	W	IPod SOUND SIGNAL LH (-)
27	G	IPod SOUND SIGNAL RH (-)
28	SHIELD	SHIELD

56	BR	SOUND SIGNAL (-)
57	Y	SOUND SIGNAL (-)
58	SHIELD	SHIELD

Connector No.	M49
Connector Name	AUDIO UNIT
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
44	L	SOUND SIGNAL WOOFER (-)
45	P	SOUND SIGNAL WOOFER (+)
46	Y/B	WOOFER AMP ON SIGNAL
47	W	AV COMM (H)
48	W	AV COMM (H)
49	R	AV COMM (L)
51	W/G	STRG SW A
52	GR/R	STRG SW B
53	L/B	STRG SW GND
54	O	TELEON SIGNAL
55	R	AV COMM (L)

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AUDIO

Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
6	W/G	-
7	R/B	-
19	Y	-

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-

Connector No.	M68
Connector Name	ECM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY)
Connector Type	TH40P-B-NH

Terminal No.	Color of Wire	Signal Name [Specification]
39	L	CAN-H
40	P	CAN-L

Connector No.	M65
Connector Name	ECM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY)
Connector Type	TH40P-V-NH

Terminal No.	Color of Wire	Signal Name [Specification]
39	L	CAN-H
40	P	CAN-L

Connector No.	M100
Connector Name	IPOD SIDE
Connector Type	IP18FGY

Terminal No.	Color of Wire	Signal Name [Specification]
14	G	IPOD SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	B	GND
19	SHIELD	SHIELD
21	W/B	IPOD CONNECTION RECOGNITION
22	G/O	ACCESSORY DETECT
23	G/Y	IPOD SOUND SIGNAL GND
24	G/O	IPOD SOUND SIGNAL LH (+)

Connector No.	M99
Connector Name	IPOD ADAPTER
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	IPOD SOUND SIGNAL LH (+)
2	B	IPOD SOUND SIGNAL RH (+)
3	L/Y	ACC
4	R	AV COMM (L)
5	L	BATTERY
8	LG	CHARGE POWER
9	P	COMM (IPOD ADAPTER-IPOD)
10	L	COMM (IPOD-IPOD ADAPTER)
11	O	ACCESSORY IDENTIFY
12	G/R	IPOD SOUND SIGNAL RH (+)
13	W	IPOD SOUND SIGNAL LH (-)

Connector No.	M83
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
4	L	-
5	Y/B	-
16	P	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	G/O	IPOD SOUND SIGNAL LH (+)
2	G/Y	IPOD SOUND SIGNAL GND
5	L	COMM (IPOD-IPOD ADAPTER)
6	P	COMM (IPOD ADAPTER-IPOD)
7	G/R	IPOD SOUND SIGNAL RH (+)
9	W/B	IPOD CONNECTION RECOGNITION
10	B	GND
12	LG	CHARGE POWER
14	SHIELD	SHIELD
15	G/O	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

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AUDIO

Connector No.	M302
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY



Terminal No.	Color of Wire	Signal Name [Specification]
14	Y	- [With telephone]
14	W	- [Without telephone]
15	P	- [With telephone]
15	L	- [Without telephone]
17	W	- [With telephone]
17	BR	- [Without telephone]

Connector No.	M308
Connector Name	WIRE TO WIRE
Connector Type	GT15SCN-1/PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	M309
Connector Name	WIRE TO WIRE
Connector Type	GT15SC-1/IS-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	M310
Connector Name	ANTENNA BASE
Connector Type	GT15SSN-1/PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	ANTENNA AMP. ON SIGNAL
2	-	AM-FM MAIN

Connector No.	M313
Connector Name	AUDIO UNIT
Connector Type	GT13SH-2/IS-HU



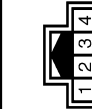
Terminal No.	Color of Wire	Signal Name [Specification]
61	-	ANTENNA AMP. ON SIGNAL
62	-	AM-FM MAIN

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-GS



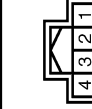
Terminal No.	Color of Wire	Signal Name [Specification]
6	Y	-
7	L	-
16	G	-

Connector No.	R3
Connector Name	WIRE TO WIRE
Connector Type	TR04MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
4	Y	-

Connector No.	R20
Connector Name	WIRE TO WIRE
Connector Type	TR04FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	SHIELD	-
4	R	-



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AUDIO

Connector No.	R21
Connector Name	MICROPHONE
Connector Type	TK64FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	MICROPHONE SIGNAL
2	SHIELD	MICROPHONE GND
4	R	MICROPHONE VCC

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SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

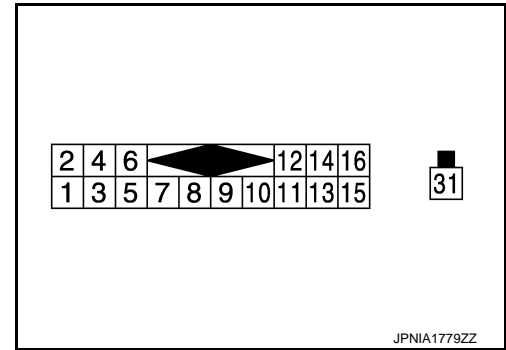
[AUDIO SYSTEM]

SATELLITE RADIO TUNER

Reference Value

INFOID:000000004940261

TERMINAL LAYOUT



PHYSICAL VALUES

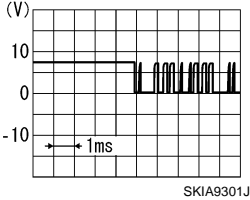
Terminal		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/Output			
2 (R)	1 (G)	Satellite radio sound signal LH	Output	Ignition switch ON	When satellite radio mode is selected.	
4 (B)	3 (W)	Satellite radio sound signal RH	Output	Ignition switch ON	When satellite radio mode is selected.	
5	—	Shield	—	—	—	—
6	—	Shield	—	—	—	—
7 (P)	—	Control signal	—	—	—	—
8 (W)	Ground	Request signal (SAT TO AUDIO)	Output	Ignition switch ON	When satellite radio mode is selected.	
9 (B)	Ground	Communication signal (SAT→AUDIO)	Output	Ignition switch ON	When satellite radio mode is selected.	

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SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

Terminal		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
10 (R)	Ground	Communication signal (AUDIO→SAT)	Input	Ignition switch ON	When satellite radio mode is selected.	
11 (Y)	—	Request signal (CHG TO AUDIO)	—	—	—	—
12 (SB)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
13 (W)	—	Source change	—	—	—	—
16 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
31	—	Satellite radio antenna sig- nal	Input	—	—	—

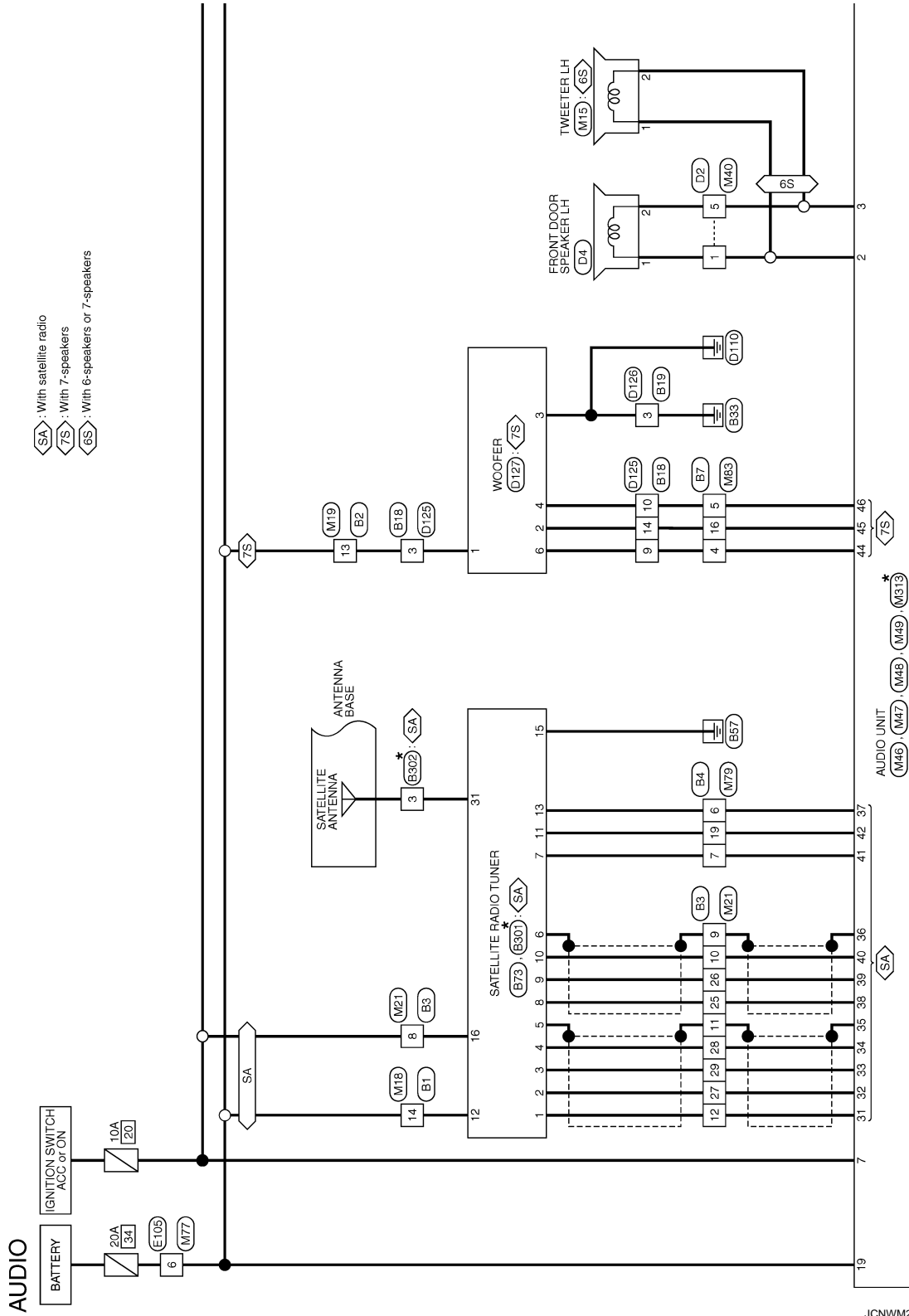
SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

Wiring Diagram - AUDIO -

INFOID:000000004940262



*: This connector is not shown in "Harness Layout".

2009/02/27

JCNWM2412GB

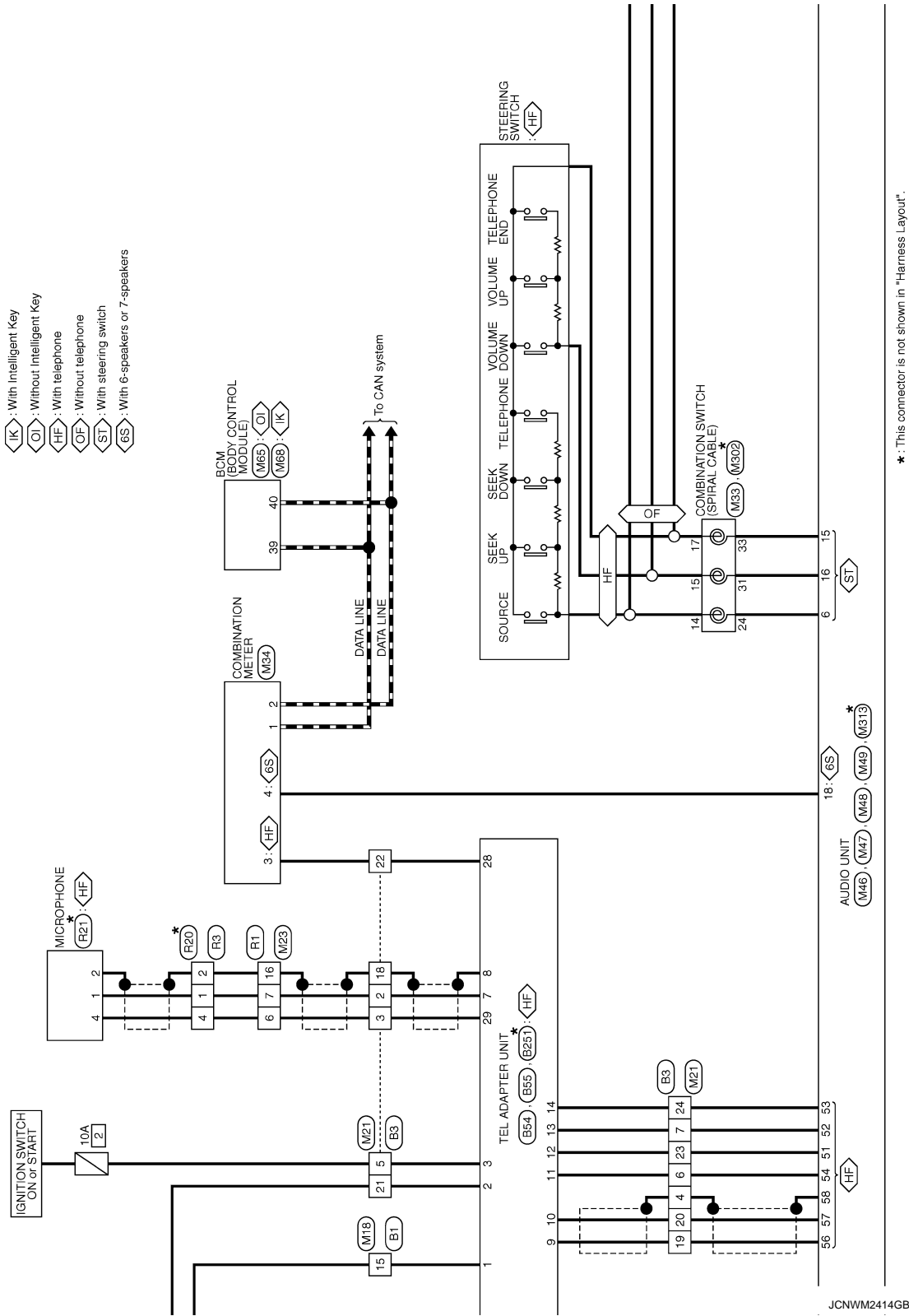
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SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

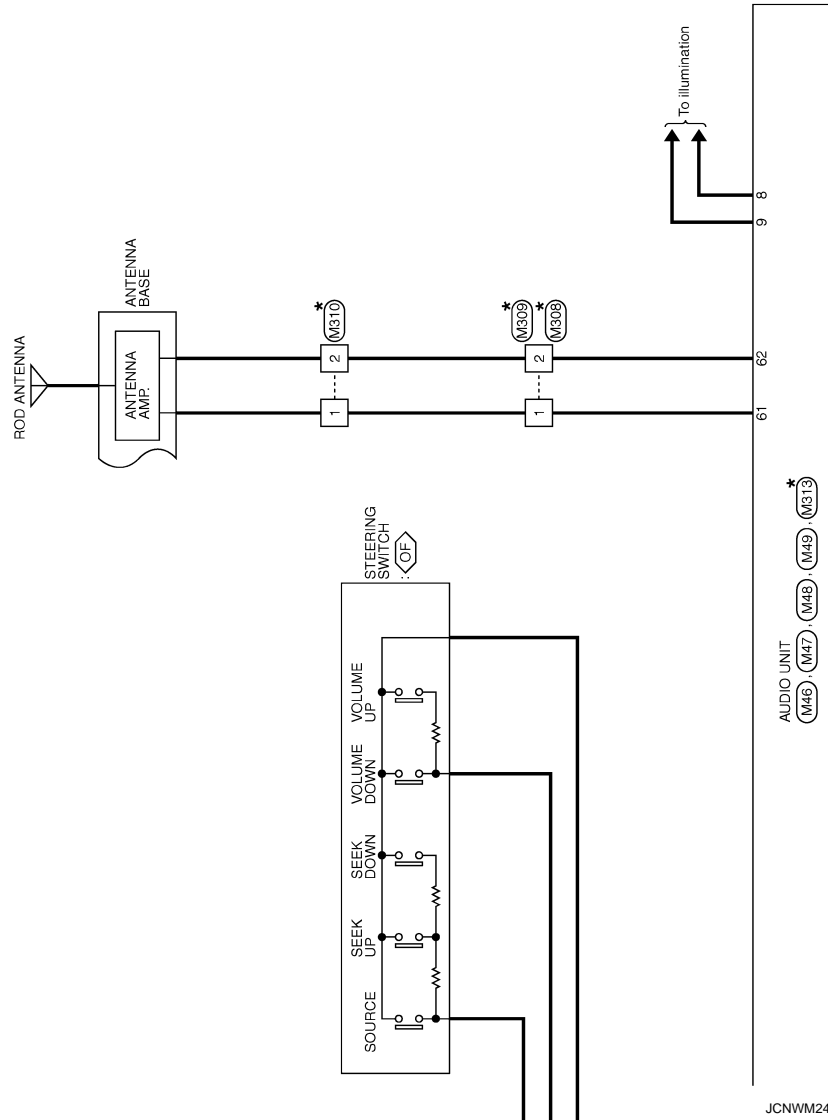


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SATELLITE RADIO TUNER

⊠: Without telephone



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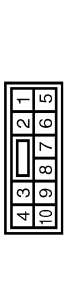
[AUDIO SYSTEM]

AUDIO

Connector No.	Connector Name	Connector Type	Color of Wire	Signal Name [Specification]
B1	WIRE TO WIRE	NS16MW-CS	LG	
B2	WIRE TO WIRE	NS16MW-CS	V	
B3	WIRE TO WIRE	TH24MW-NH	R	
B4	WIRE TO WIRE	TH24MW-NH	P	
B7	WIRE TO WIRE	TH24MW-NH	Y	
B17	WIRE TO WIRE	NS10FW-CS	R	



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	
2	L	
3	R	
4	SHIELD	
5	LG	
8	SB	
7	P	
9	V	
10	SHIELD	
11	SHIELD	



Terminal No.	Color of Wire	Signal Name [Specification]
6	W	
7	P	
19	Y	

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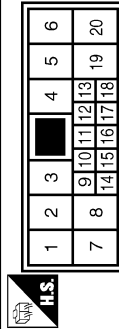
SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

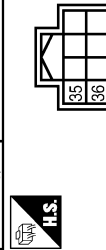
AUDIO

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	RHT0MW-CS10



Terminal No.	Color of Wire	Signal Name [Specification]
3	BR	-
9	R	-
10	Y	-
14	BR	-

Connector No.	B55
Connector Name	TEL ADAPTER UNIT
Connector Type	TH08FV-NH



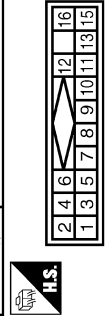
Terminal No.	Color of Wire	Signal Name [Specification]
35	G	AV COMM (H)
36	R	AV COMM (L)

Connector No.	B19
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC



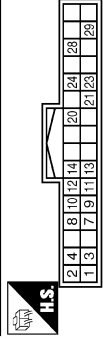
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	-

Connector No.	B73
Connector Name	SATELLITE RADIO TUNER
Connector Type	A16FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	SATELLITE RADIO SOUND SIGNAL LH (-)
2	R	SATELLITE RADIO SOUND SIGNAL LH (+)
3	W	SATELLITE RADIO SOUND SIGNAL RH (-)
4	B	SATELLITE RADIO SOUND SIGNAL RH (+)
5	SHIELD	SHIELD
6	SHIELD	SHIELD
7	P	CONTROL
8	W	REQUEST SIGNAL (SAT—AUDIO)
9	B	COMMUNICATION SIGNAL (SAT—AUDIO)
10	R	COMMUNICATION SIGNAL (AUDIO—SAT)
11	Y	REQUEST SIGNAL (CHG—AUDIO)

Connector No.	B54
Connector Name	TEL ADAPTER UNIT
Connector Type	TH22FV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	BATTERY
2	L	ACC
3	LG	IGNITION
4	B	GND
7	L	MICROPHONE SIGNAL
8	SHIELD	MICROPHONE GND
9	BR	SOUND SIGNAL (+)
10	Y	SOUND SIGNAL (-)
11	SB	TEL ON SIGNAL
12	GR	STRG SW A
13	P	STRG SW B

Connector No.	B251
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
33	-	TEL ANTENNA SIGNAL
34	-	SHIELD

SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

Connector No. B301	SATELLITE RADIO TUNER	Connector No. D4	FRONT DOOR SPEAKER LH
Connector Name FAKRA		Connector Name NS02FW-CS	
Connector Type [Image]		Connector Type [Image]	
Terminal No. 31	Color -	Terminal No. 1	Color W
	Signal Name [Specification] -	Terminal No. 2	Color P
			Signal Name [Specification] -

Connector No. B302	ANTENNA BASE	Connector No. D2	WIRE TO WIRE
Connector Name GT1EC-1FP-4U		Connector Name NS1DFW-CS	
Connector Type [Image]		Connector Type [Image]	
Terminal No. 3	Color -	Terminal No. 1	Color W
	Signal Name [Specification] -	Terminal No. 5	Color P
			Signal Name [Specification] -

Connector No. B302	ANTENNA BASE	Connector No. D41	WIRE TO WIRE
Connector Name GT1EC-1FP-4U		Connector Name NS1DMW-CS	
Connector Type [Image]		Connector Type [Image]	
Terminal No. 1	Color G	Terminal No. 7	Color GR
	Signal Name [Specification] -	Terminal No. 8	Color LG
			Signal Name [Specification] -

Connector No. D21	WIRE TO WIRE	Connector No. D44	REAR DOOR SPEAKER RH
Connector Name NH1DFW-CS10		Connector Name NS02FW-CS	
Connector Type [Image]		Connector Type [Image]	
Terminal No. 1	Color G	Terminal No. 1	Color LG
	Signal Name [Specification] -	Terminal No. 2	Color GR
			Signal Name [Specification] -




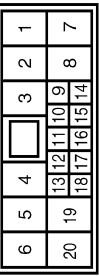







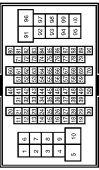


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SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

Connector No.	D61	Connector No.	D125	Connector No.	D64	Connector No.	D126
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	REAR DOOR SPEAKER LH	Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS	Connector Type	NH10FW-CS10	Connector Type	NS02FW-CS	Connector Type	MSA4FW-LC
							
Terminal No.	7	Terminal No.	3	Terminal No.	1	Terminal No.	3
Color of Wire	GR	Color of Wire	SB	Color of Wire	LG	Color of Wire	B
Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-
Terminal No.	8	Terminal No.	9	Terminal No.	2	Terminal No.	3
Color of Wire	LG	Color of Wire	R	Color of Wire	GR	Color of Wire	B
Signal Name [Specification]	-	Color of Wire	Y	Color of Wire	-	Color of Wire	-
Signal Name [Specification]	-	Color of Wire	BR	Color of Wire	-	Color of Wire	-
Terminal No.	1	Connector No.	M14	Connector No.	E 05	Connector No.	M15
Color of Wire	SB	Connector Name	TWEEETER RH	Connector Name	WIRE TO WIRE	Connector Name	TWEEETER LH
Signal Name [Specification]	-	Connector Type	TK02FBR	Connector Type	TH80MW-CS16-TM4	Connector Type	TK02FBR
Terminal No.	2						
Color of Wire	BR	Terminal No.	2	Terminal No.	6	Terminal No.	2
Signal Name [Specification]	-	Color of Wire	R	Color of Wire	R	Color of Wire	P
Terminal No.	3	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-
Color of Wire	W	Terminal No.	1	Terminal No.	1	Terminal No.	1
Signal Name [Specification]	-	Color of Wire	G	Color of Wire	-	Color of Wire	W
Terminal No.	4	Color of Wire	R	Color of Wire	-	Color of Wire	W
Color of Wire	Y	Color of Wire	-	Color of Wire	-	Color of Wire	P
Signal Name [Specification]	WOOFER AMP_ON SIGNAL	Color of Wire	-	Color of Wire	-	Color of Wire	-
Terminal No.	6	Color of Wire	-	Color of Wire	-	Color of Wire	-
Color of Wire	R	Color of Wire	-	Color of Wire	-	Color of Wire	-
Signal Name [Specification]	SOUND SIGNAL WOOFER (-)	Color of Wire	-	Color of Wire	-	Color of Wire	-
Terminal No.	1	Color of Wire	-	Color of Wire	-	Color of Wire	-
Color of Wire	SB	Color of Wire	-	Color of Wire	-	Color of Wire	-
Signal Name [Specification]	BATTERY	Color of Wire	-	Color of Wire	-	Color of Wire	-
Terminal No.	2	Color of Wire	-	Color of Wire	-	Color of Wire	-
Color of Wire	BR	Color of Wire	-	Color of Wire	-	Color of Wire	-
Signal Name [Specification]	SOUND SIGNAL WOOFER (+)	Color of Wire	-	Color of Wire	-	Color of Wire	-
Terminal No.	3	Color of Wire	-	Color of Wire	-	Color of Wire	-
Color of Wire	B	Color of Wire	-	Color of Wire	-	Color of Wire	-
Signal Name [Specification]	GND	Color of Wire	-	Color of Wire	-	Color of Wire	-
Terminal No.	4	Color of Wire	-	Color of Wire	-	Color of Wire	-
Color of Wire	Y	Color of Wire	-	Color of Wire	-	Color of Wire	-
Signal Name [Specification]	WOOFER AMP_ON SIGNAL	Color of Wire	-	Color of Wire	-	Color of Wire	-
Terminal No.	6	Color of Wire	-	Color of Wire	-	Color of Wire	-
Color of Wire	R	Color of Wire	-	Color of Wire	-	Color of Wire	-
Signal Name [Specification]	SOUND SIGNAL WOOFER (-)	Color of Wire	-	Color of Wire	-	Color of Wire	-

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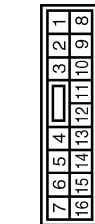
SATELLITE RADIO TUNER

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[AUDIO SYSTEM]

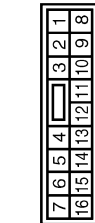
AUDIO

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



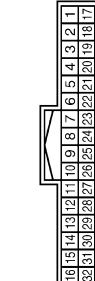
Terminal No.	Color of Wire	Signal Name [Specification]
7	LG	-
14	L	-
15	L	-
16	GR	-

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



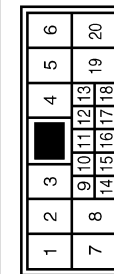
Terminal No.	Color of Wire	Signal Name [Specification]
7	V	-
8	R/B	-
13	L	-

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	TH42FW-NH



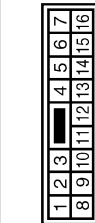
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	G	-
3	V	-
4	SHIELD	-
5	G	-
6	G/O	-
7	GR/R	-
8	L/Y	-
9	SHIELD	-
10	G/R	-
11	SHIELD	-

Connector No.	M22
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
7	R	-

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
7	G	-
16	SHIELD	-

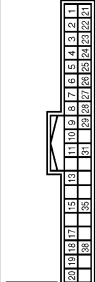
Connector No.	M33
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V



Terminal No.	Color of Wire	Signal Name [Specification]
24	W/L	-
31	GR/R	-
33	L/G	-

12	G	-
16	G	-
17	R	-
18	SHIELD	-
19	BR	-
20	L/Y	-
21	L/Y	-
22	V	-
23	W/G	-
24	L/B	-
25	G/Y	-
26	G/O	-
27	R	-
28	B	-
29	W	-
32	R	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	CAN-H
2	P	CAN-L
3	V	VEHICLE SPEED SIGNAL (2-PULSE)
4	Y	VEHICLE SPEED SIGNAL (8-PULSE)

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[AUDIO SYSTEM]

AUDIO

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	HS10MW-CS



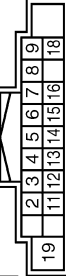
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
5	P	-

Connector No.	M48
Connector Name	AUDIO UNIT
Connector Type	A12FW



Terminal No.	Color of Wire	Signal Name [Specification]
31	G	SATELLITE RADIO SOUND SIGNAL LH (-)
32	R	SATELLITE RADIO SOUND SIGNAL LH (+)
33	W	SATELLITE RADIO SOUND SIGNAL RH (-)
34	B	SATELLITE RADIO SOUND SIGNAL RH (+)
35	SHIELD	SHIELD
36	SHIELD	SHIELD
37	W	SOURCE CHANGER
38	G/Y	REQUEST SIGNAL (SAT-AUDIO)
39	G/O	COMM (SAT-AUDIO)
40	G/R	COMM (AUDIO-SAT)
41	R/B	CONTROL

Connector No.	M46
Connector Name	AUDIO UNIT
Connector Type	TH18FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
2	W	SOUND SIGNAL FRONT SPEAKER LH (+)
3	P	SOUND SIGNAL FRONT SPEAKER LH (-)
4	V	SOUND SIGNAL REAR SPEAKER LH (+)
5	R/B	SOUND SIGNAL REAR SPEAKER LH (-)
6	W/L	STRG SW A
7	L/Y	ACC
8	B/R	ILLUMINATION CONTROL SIGNAL (-)
9	W	ILLUMINATION CONTROL SIGNAL (+)
11	G	SOUND SIGNAL FRONT SPEAKER RH (+)
12	R	SOUND SIGNAL FRONT SPEAKER RH (-)
13	LG	SOUND SIGNAL REAR SPEAKER RH (+)

42	Y/W	REQUEST SIGNAL (CHG-AUDIO)
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14	GR	SOUND SIGNAL REAR SPEAKER RH (-)
15	L/G	STRG SW GND
16	GR/R	STRG SW B
18	L	VEHICLE SPEED (P-PULSE)
19	L	BATTERY

Connector No.	M47
Connector Name	AUDIO UNIT
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
21	R	iPod SOUND SIGNAL LH (+)
23	B	iPod SOUND SIGNAL RH (+)
25	W	iPod SOUND SIGNAL LH (-)
27	G	iPod SOUND SIGNAL RH (-)
28	SHIELD	SHIELD

Connector No.	M49
Connector Name	AUDIO UNIT
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
44	L	SOUND SIGNAL WOOFER (-)
45	P	SOUND SIGNAL WOOFER (+)
46	Y/B	WOOFER AMP ON SIGNAL
47	W	AV COMM (H)
48	W	AV COMM (H)
48	R	AV COMM (L)
51	W/G	STRG SW A
52	GR/R	STRG SW B
53	L/B	STRG SW GND
54	O	TELO N SIGNAL
55	R	AV COMM (L)

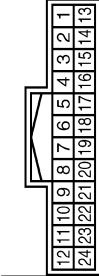
SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]


AUDIO

Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



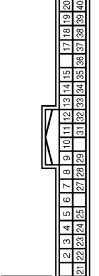
Terminal No.	Color of Wire	Signal Name [Specification]
6	W/G	-
7	R/B	-
19	Y	-

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



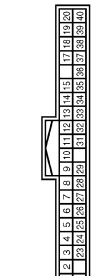
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-

Connector No.	M88
Connector Name	ECM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY)
Connector Type	TH40FP-NH



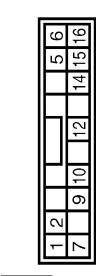
Terminal No.	Color of Wire	Signal Name [Specification]
39	L	CAN-H
40	P	CAN-L

Connector No.	M85
Connector Name	ECM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY)
Connector Type	TH40FP-NH



Terminal No.	Color of Wire	Signal Name [Specification]
39	L	CAN-H
40	P	CAN-L

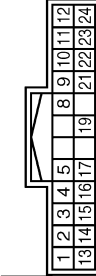
Connector No.	M100
Connector Name	IPod SIDE
Connector Type	IP18FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	G/O	IPod SOUND SIGNAL LH (+)
2	G/Y	IPod SOUND SIGNAL GND
5	L	COMM (IPod-IPod ADAPTER)
6	P	COMM (IPod-IPod ADAPTER)
7	G/R	IPod SOUND SIGNAL RH (+)
9	W/B	IPod CONNECTION RECOGNITION GND
10	B	CHARGE POWER
12	LG	SHIELD
14	G/O	ACCESSORY DETECT
15	G/O	ACCESSORY IDENTIFY
16	O	ACCESSORY IDENTIFY

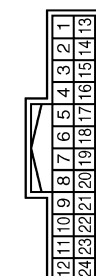
Terminal No.	Color of Wire	Signal Name [Specification]
14	G	IPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	B	GND
19	SHIELD	SHIELD
21	W/B	IPod CONNECTION RECOGNITION
22	G/O	ACCESSORY DETECT
23	G/Y	IPod SOUND SIGNAL GND
24	G/O	IPod SOUND SIGNAL LH (+)

Connector No.	M89
Connector Name	IPod ADAPTER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	IPod SOUND SIGNAL LH (+)
2	B	IPod SOUND SIGNAL RH (+)
3	L/Y	ACC
4	R	AV COMM (L)
5	L	BATTERY
8	LG	CHARGE POWER
9	P	COMM (IPod-IPod ADAPTER)
10	L	COMM (IPod-IPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	G/R	IPod SOUND SIGNAL RH (+)
13	W	IPod SOUND SIGNAL LH (-)

Connector No.	M83
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	L	-
5	Y/B	-
16	P	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	G/O	IPod SOUND SIGNAL LH (+)
2	G/Y	IPod SOUND SIGNAL GND
5	L	COMM (IPod-IPod ADAPTER)
6	P	COMM (IPod-IPod ADAPTER)
7	G/R	IPod SOUND SIGNAL RH (+)
9	W/B	IPod CONNECTION RECOGNITION GND
10	B	CHARGE POWER
12	LG	SHIELD
14	G/O	ACCESSORY DETECT
15	G/O	ACCESSORY IDENTIFY
16	O	ACCESSORY IDENTIFY

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	IPod SOUND SIGNAL LH (+)
2	B	IPod SOUND SIGNAL RH (+)
3	L/Y	ACC
4	R	AV COMM (L)
5	L	BATTERY
8	LG	CHARGE POWER
9	P	COMM (IPod-IPod ADAPTER)
10	L	COMM (IPod-IPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	G/R	IPod SOUND SIGNAL RH (+)
13	W	IPod SOUND SIGNAL LH (-)

Terminal No.	Color of Wire	Signal Name [Specification]
4	L	-
5	Y/B	-
16	P	-

JCNWM2422GB










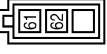






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SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

Connector No.	M302	Connector No.	M308	Connector No.	M309	Connector No.	M310
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	ANTENNA BASE
Connector Type	TK0BEFY	Connector Type	GT13SON-1/IPP-HU	Connector Type	GT13SC-1/IS-HU	Connector Type	GT13SSN-1/IPP-HU
							
Terminal No.	14	Terminal No.	1	Terminal No.	1	Terminal No.	1
Color of Wire	Y	Color of Wire	-	Color of Wire	-	Color of Wire	-
Signal Name [Specification]	[With telephone] -[Without telephone]	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	ANTENNA AMP. ON SIGNAL AM-FM MAIN
Terminal No.	14	Terminal No.	2	Terminal No.	2	Terminal No.	2
Color of Wire	W	Color of Wire	-	Color of Wire	-	Color of Wire	-
Signal Name [Specification]	[With telephone] -[Without telephone]	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	ANTENNA AMP. ON SIGNAL AM-FM MAIN
Terminal No.	15	Terminal No.	1	Terminal No.	1	Terminal No.	1
Color of Wire	P	Color of Wire	-	Color of Wire	-	Color of Wire	-
Signal Name [Specification]	[With telephone] -[Without telephone]	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	ANTENNA AMP. ON SIGNAL AM-FM MAIN
Terminal No.	15	Terminal No.	2	Terminal No.	2	Terminal No.	2
Color of Wire	L	Color of Wire	-	Color of Wire	-	Color of Wire	-
Signal Name [Specification]	[With telephone] -[Without telephone]	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	ANTENNA AMP. ON SIGNAL AM-FM MAIN
Terminal No.	17	Terminal No.	1	Terminal No.	1	Terminal No.	1
Color of Wire	W	Color of Wire	-	Color of Wire	-	Color of Wire	-
Signal Name [Specification]	[With telephone] -[Without telephone]	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	ANTENNA AMP. ON SIGNAL AM-FM MAIN
Terminal No.	17	Terminal No.	2	Terminal No.	2	Terminal No.	2
Color of Wire	BR	Color of Wire	-	Color of Wire	-	Color of Wire	-
Signal Name [Specification]	[With telephone] -[Without telephone]	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	ANTENNA AMP. ON SIGNAL AM-FM MAIN
Connector No.	M313	Connector No.	R1	Connector No.	R3	Connector No.	R20
Connector Name	AUDIO UNIT	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	GT13SH-2/IS-HU	Connector Type	NS16FW-CS	Connector Type	TR04MW-NH	Connector Type	TR04FW-NH
							
Terminal No.	61	Terminal No.	6	Terminal No.	1	Terminal No.	1
Color of Wire	-	Color of Wire	Y	Color of Wire	L	Color of Wire	L
Signal Name [Specification]	ANTENNA AMP. ON SIGNAL AM-FM MAIN	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-
Terminal No.	62	Terminal No.	7	Terminal No.	2	Terminal No.	2
Color of Wire	-	Color of Wire	L	Color of Wire	G	Color of Wire	SHIELD
Signal Name [Specification]	ANTENNA AMP. ON SIGNAL AM-FM MAIN	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-
Terminal No.	62	Terminal No.	16	Terminal No.	4	Terminal No.	4
Color of Wire	-	Color of Wire	G	Color of Wire	Y	Color of Wire	R
Signal Name [Specification]	ANTENNA AMP. ON SIGNAL AM-FM MAIN	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-

JCNWM2423GB

SATELLITE RADIO TUNER

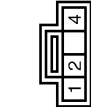
< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

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AUDIO

Connector No.	R21
Connector Name	MICROPHONE
Connector Type	TKCAF7W



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	MICROPHONE SIGNAL
2	SHIELD	MICROPHONE GND
4	R	MICROPHONE VCC

JCNWM2424GB

TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

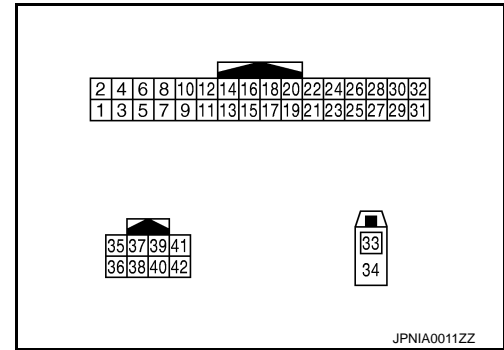
[AUDIO SYSTEM]

TEL ADAPTER UNIT

Reference Value

INFOID:000000004940263

TERMINAL LAYOUT



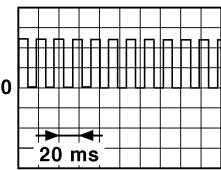
PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (R)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
2 (L)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
3 (LG)	Ground	Ignition signal	Input	Ignition switch ON	—	Battery voltage
4 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
7 (L)	8	Microphone signal	Input	Ignition switch ON	Give a voice	<p style="text-align: right;">SKIB3609E</p>
8	—	Shield (microphone signal ground)	—	—	—	—
9 (BR)	10 (Y)	Sound signal (TEL voice, voice guid- ance)	Output	Ignition switch ON	During voice guide output with the switch pressed.	<p style="text-align: right;">SKIB3609E</p>
11 (SB)	Ground	TEL ON signal	Output	Ignition switch ON	While using hands-free phone system.	0 V
					While not using hands-free phone system.	5.0 V

TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
12 (GR)	14 (L)	Steering switch signal A	Input	Ignition switch ON	Keep pressing switch	0 V
					Except for above	4.8 V
13 (P)	14 (L)	Steering switch signal B	Input	Ignition switch ON	Keep pressing switch	0 V
					Except for above.	4.8 V
14 (L)	Ground	Steering switch signal ground	—	Ignition switch ON	—	0 V
20 (B)	Ground	Control signal	—	Ignition switch ON	—	0 V
21 (B)	Ground	Control signal	—	Ignition switch ON	—	0 V
23 (B)	Ground	Control signal	—	Ignition switch ON	—	0 V
24 (B)	Ground	Control signal	—	Ignition switch ON	—	0 V
28 (O)	Ground	Vehicle speed signal (2-pulse)	Input	Ignition switch ON	When vehicle speed is approx. 40 km/h (25MPH)	<p>NOTE: The maximum voltage varies depending on the specification (destination unit).</p>  <p style="text-align: right; font-size: small;">JSNIA0012GB</p>
29 (R)	Ground	Microphone power supply	Output	Ignition switch ON	—	5.0 V
33	—	TEL antenna signal	Input	—	Not connected to TEL antenna connector.	5.0 V
34	—	Shield	—	—	—	—
35 (G)	—	AV communication signal (H)	Input/ Output	—	—	—
36 (R)	—	AV communication signal (L)	Input/ Output	—	—	—

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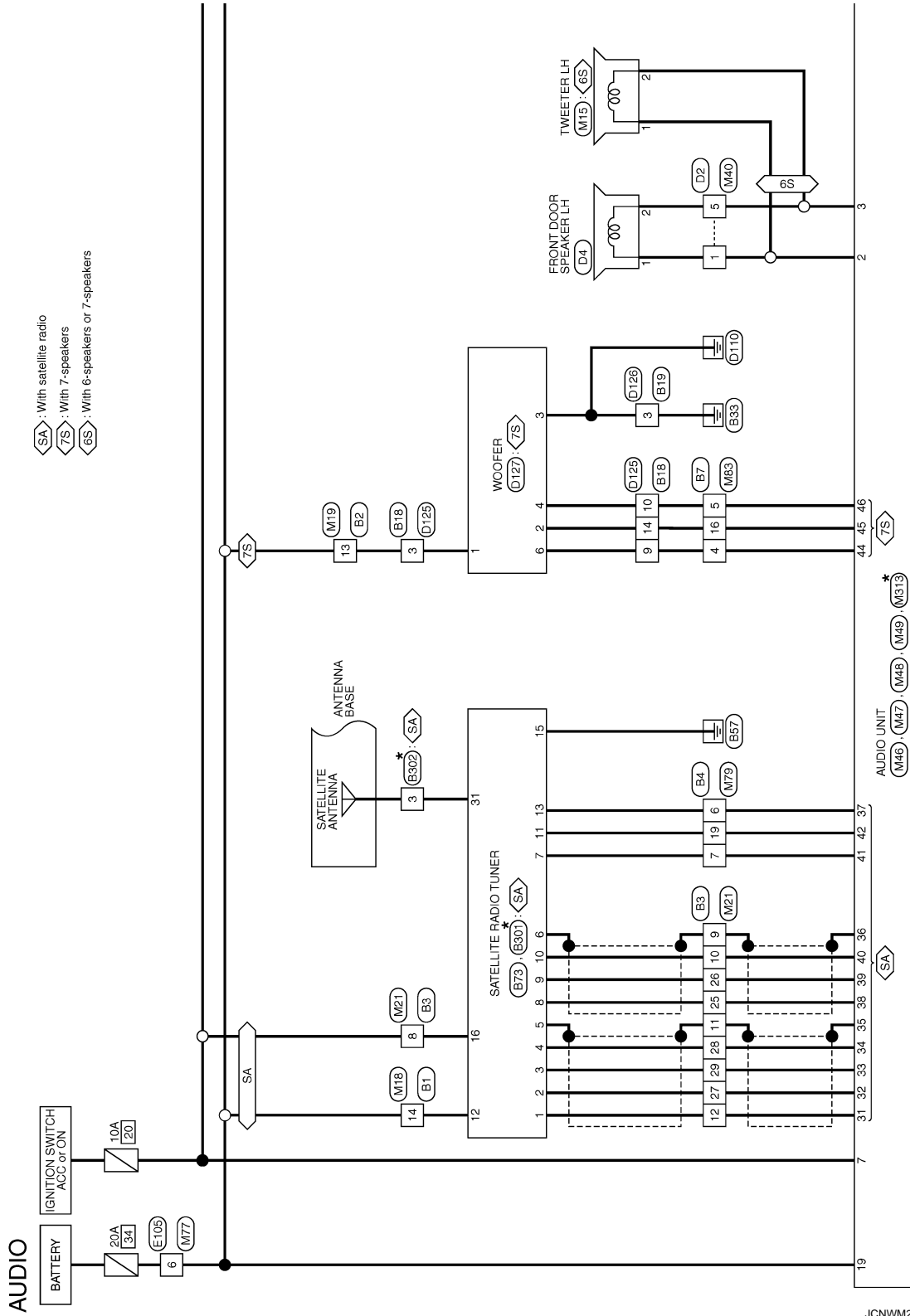
TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

Wiring Diagram - AUDIO -

INFOID:000000004940264



- ◊SA : With satellite radio
- ◊7S : With 7-speakers
- ◊6S : With 6-speakers or 7-speakers

*: This connector is not shown in "Harness Layout".

2009/02/27

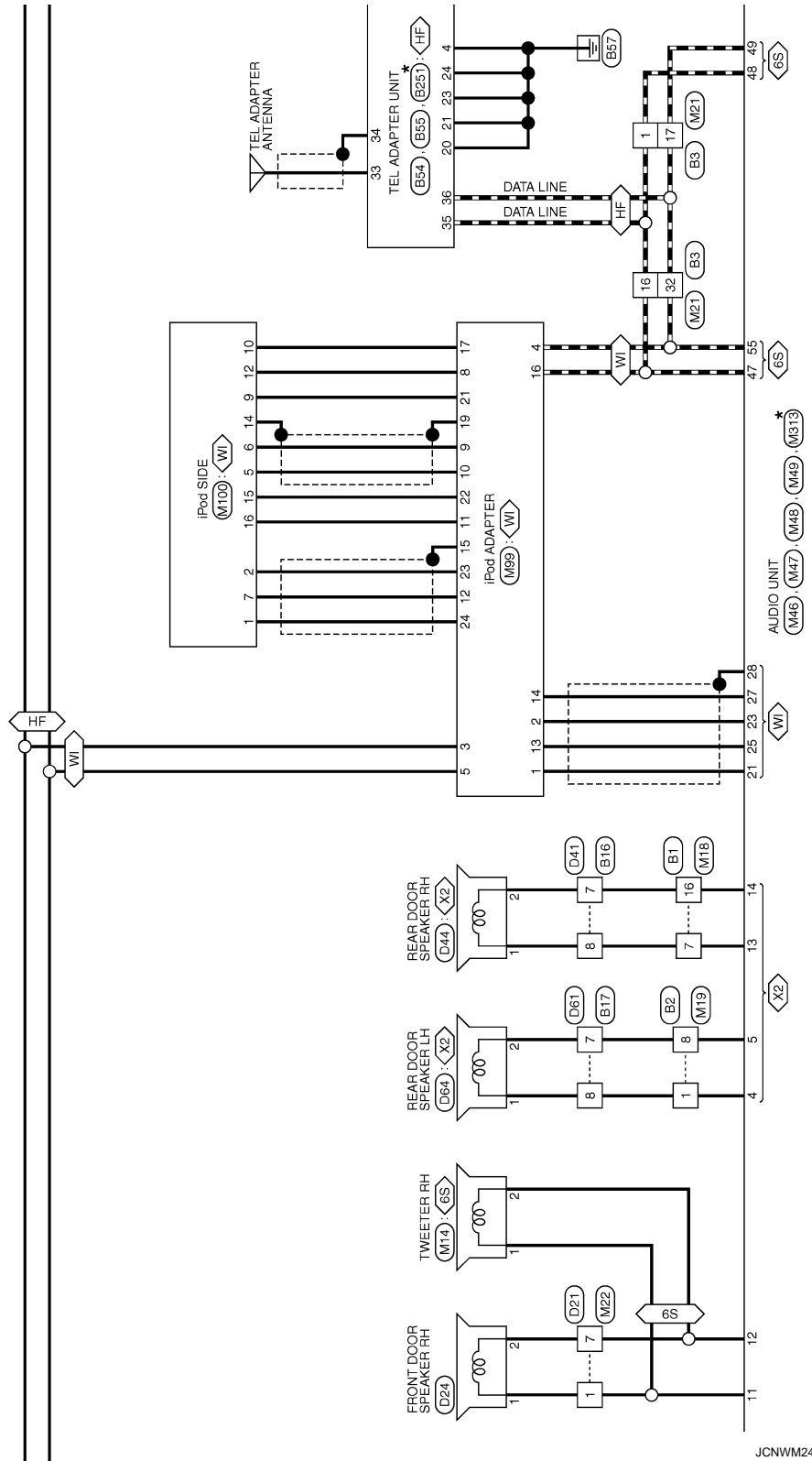
JCNWM2412GB

TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

- X2 : Except with 2-speakers
- 6S : With 6-speakers or 7-speakers
- WI : With iPod
- HF : With telephone



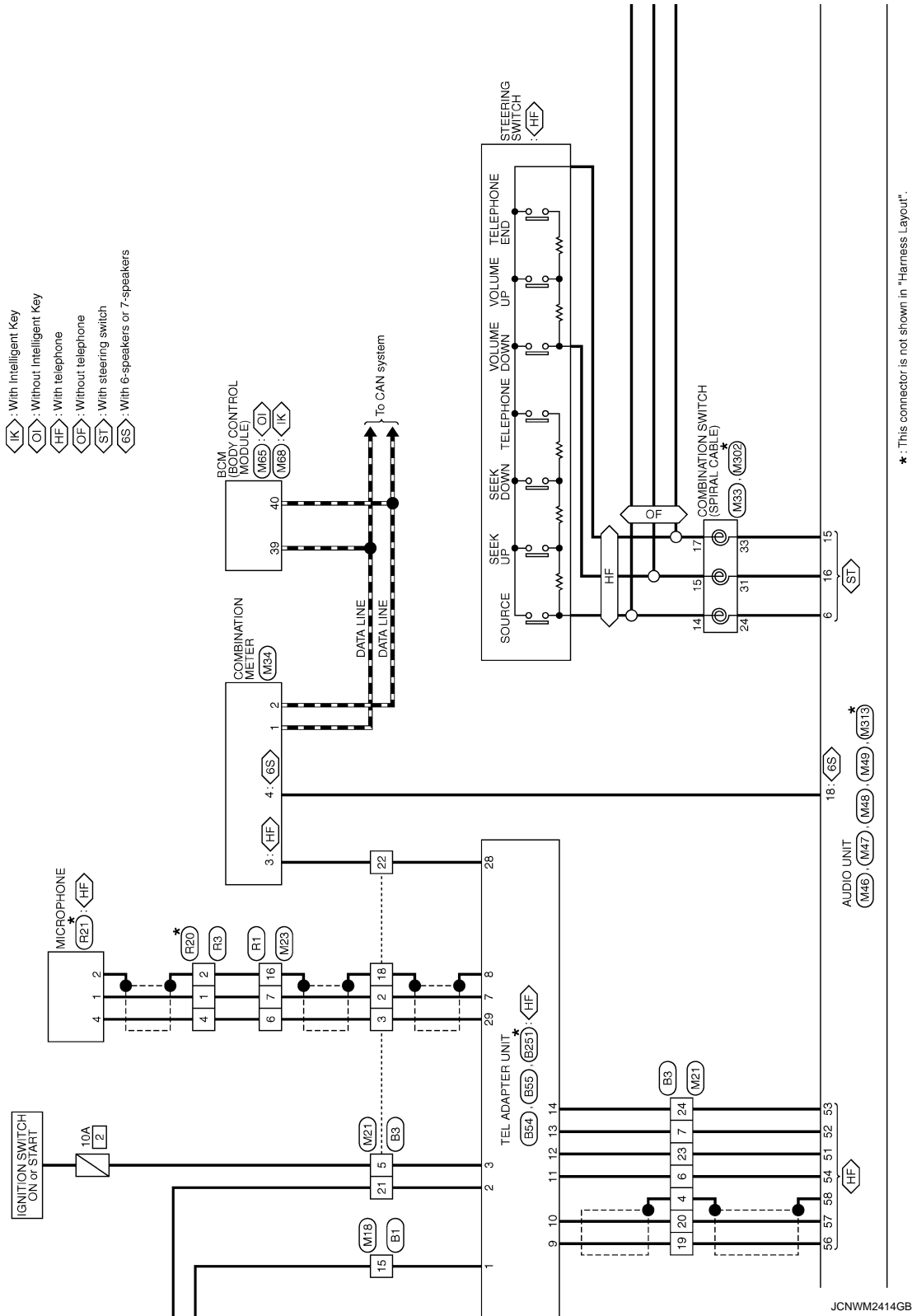
*: This connector is not shown in "Harness Layout".

JCNWM2413GB

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TEL ADAPTER UNIT

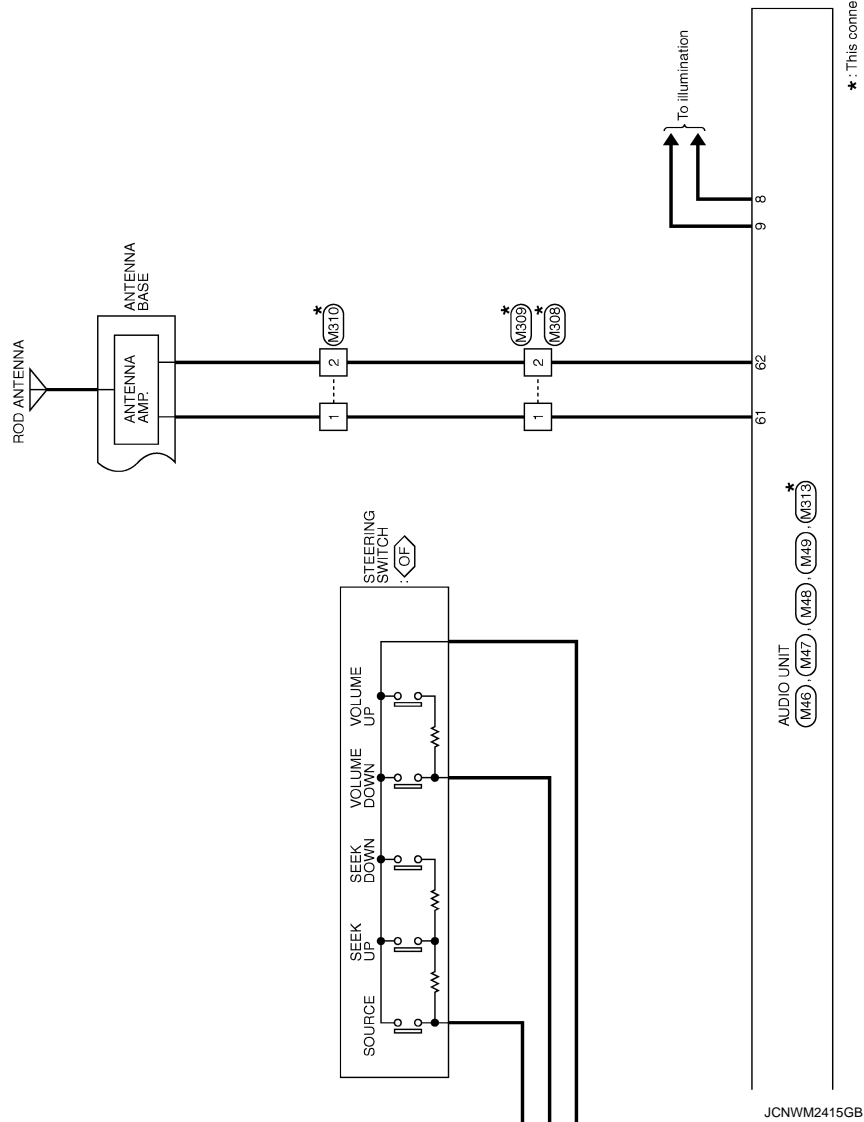


TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

⊠: Without telephone



*: This connector is not shown in "Harness Layout".

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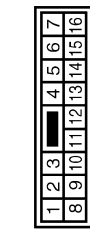
TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

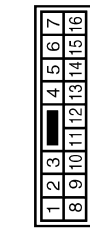
AUDIO

Connector No.	B1	WIRE TO WIRE	NS16MW-CS
Terminal No.	7	LG	
Terminal No.	14	SB	
Terminal No.	15	R	
Terminal No.	16	GR	



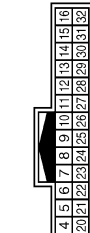
Terminal No.	Color of Wire	Signal Name [Specification]
7	LG	
14	SB	
15	R	
16	GR	

Connector No.	B2	WIRE TO WIRE	NS16MW-CS
Terminal No.	1	V	
Terminal No.	8	L	
Terminal No.	13	BR	



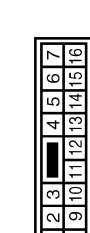
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	
8	L	
13	BR	

Connector No.	B3	WIRE TO WIRE	TH24MW-NH
Terminal No.	1	G	
Terminal No.	2	L	
Terminal No.	3	R	
Terminal No.	4	SHIELD	
Terminal No.	5	LG	
Terminal No.	6	SB	
Terminal No.	7	P	
Terminal No.	8	V	
Terminal No.	9	SHIELD	
Terminal No.	10	R	
Terminal No.	11	SHIELD	



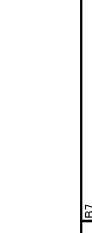
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	
2	L	
3	R	
4	SHIELD	
5	LG	
6	SB	
7	P	
8	V	
9	SHIELD	
10	R	
11	SHIELD	

Connector No.	B4	WIRE TO WIRE	TH24MW-NH
Terminal No.	6	W	
Terminal No.	7	P	
Terminal No.	19	Y	



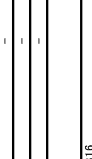
Terminal No.	Color of Wire	Signal Name [Specification]
6	W	
7	P	
19	Y	

Connector No.	B7	WIRE TO WIRE	TH24MW-NH
Terminal No.	1	3	
Terminal No.	2	4	
Terminal No.	3	5	
Terminal No.	4	6	
Terminal No.	5	7	
Terminal No.	6	8	
Terminal No.	7	9	
Terminal No.	8	10	
Terminal No.	9	11	
Terminal No.	10	12	
Terminal No.	11	13	
Terminal No.	12	14	
Terminal No.	13	15	
Terminal No.	14	16	
Terminal No.	15	17	
Terminal No.	16	18	
Terminal No.	17	19	
Terminal No.	18	20	
Terminal No.	19	21	
Terminal No.	20	22	
Terminal No.	21	23	
Terminal No.	22	24	



Terminal No.	Color of Wire	Signal Name [Specification]
1	3	
2	4	
3	5	
4	6	
5	7	
6	8	
7	9	
8	10	
9	11	
10	12	
11	13	
12	14	
13	15	
14	16	
15	17	
16	18	
17	19	
18	20	
19	21	
20	22	
21	23	
22	24	

Connector No.	B16	WIRE TO WIRE	NS10FW-CS
Terminal No.	7	GR	
Terminal No.	8	LG	



Terminal No.	Color of Wire	Signal Name [Specification]
7	GR	
8	LG	

Connector No.	B17	WIRE TO WIRE	NS10FW-CS
Terminal No.	7	L	
Terminal No.	8	V	



Terminal No.	Color of Wire	Signal Name [Specification]
7	L	
8	V	

JCNWM2416GB

TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TH10MW-CS10

1	2	3	4	5	6
9	10	11	12	13	19
7	8	14	15	16	17
18					20

Terminal No.	Color of Wire	Signal Name [Specification]
3	BR	-
9	R	-
10	Y	-
14	BR	-

Connector No.	B55
Connector Name	TEL ADAPTER UNIT
Connector Type	TH08FW-NH

35	36
35	36

Terminal No.	Color of Wire	Signal Name [Specification]
35	G	AV COMM (H)
36	R	AV COMM (L)

Connector No.	B19
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC

1	2
3	4

Terminal No.	Color of Wire	Signal Name [Specification]
3	B	-

Connector No.	B73
Connector Name	SATELLITE RADIO TUNER
Connector Type	A18FW

2	4	6	12	16
1	3	5	7	8
9	10	11	13	15

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	SATELLITE RADIO SOUND SIGNAL LH (-)
2	R	SATELLITE RADIO SOUND SIGNAL LH (+)
3	W	SATELLITE RADIO SOUND SIGNAL RH (-)
4	B	SATELLITE RADIO SOUND SIGNAL RH (+)
5	SHIELD	SHIELD
6	SHIELD	SHIELD
7	P	CONTROL
8	W	REQUEST SIGNAL (SAT—AUDIO)
9	B	COMMUNICATION SIGNAL (SAT—AUDIO)
10	R	COMMUNICATION SIGNAL (AUDIO—SAT)
11	Y	REQUEST SIGNAL (CIG—AUDIO)

Connector No.	B54
Connector Name	TEL ADAPTER UNIT
Connector Type	TH52FW-NH

2	4	6	10	12	14	20	24	28
1	3	5	7	9	11	13	17	19
21	22	23	25	26	27	29		

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	BATTERY
2	L	ACC
3	LG	IGNITION
4	B	GND
7	L	MICROPHONE SIGNAL
8	SHIELD	MICROPHONE GND
9	BR	SOUND SIGNAL (+)
10	Y	SOUND SIGNAL (-)
11	SB	TEL ON SIGNAL
12	GR	STRG SW A
13	P	STRG SW B

Connector No.	B251
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-1S-HU

33	34
33	34

Terminal No.	Color of Wire	Signal Name [Specification]
33	-	TEL ANTENNA SIGNAL
34	-	SHIELD

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TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

Connector No. B301	SATELLITE RADIO TUNER	FAKRA		Terminal No. 31	Color of Wire -	Signal Name [Specification] -
Connector No. B302	ANTENNA BASE	GT16C-1PP-1U		Terminal No. 3	Color of Wire -	Signal Name [Specification] -
Connector No. D2	WIRE TO WIRE	NS10FW-CS		Terminal No. 5	Color of Wire W P	Signal Name [Specification] -
Connector No. D4	FRONT DOOR SPEAKER LH	NS02FW-CS		Terminal No. 1 2	Color of Wire W P	Signal Name [Specification] -
Connector No. D21	WIRE TO WIRE	NH10FW-CS10		Terminal No. 7	Color of Wire G R	Signal Name [Specification] -
Connector No. D24	FRONT DOOR SPEAKER RH	NS02FW-CS		Terminal No. 1 2	Color of Wire G R	Signal Name [Specification] -
Connector No. D41	WIRE TO WIRE	NS10MW-CS		Terminal No. 8	Color of Wire GR LG	Signal Name [Specification] -
Connector No. D44	REAR DOOR SPEAKER RH	NS02FW-CS		Terminal No. 1 2	Color of Wire LG GR	Signal Name [Specification] -

JCNWM2418GB

TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

Connector No. D61	WIRE TO WIRE NS10MW-CS		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name			7	GR	
Connector Type			8	LG	
Connector No. D64	REAR DOOR SPEAKER LH NS02FW-CS		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name			1	LG	
Connector Type			2	GR	
Connector No. D125	WIRE TO WIRE NH10FW-CS10		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name			3	SB	
Connector Type			9	R	
			10	Y	
			14	BR	
Connector No. D126	WIRE TO WIRE MMAFW-LC		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name			3	B	
Connector Type					
Connector No. E105	WIRE TO WIRE TH80MW-CS16-TM4		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name			6	R	
Connector Type					
Connector No. D127	WOOFER NS06FW-CS		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name			1	SB	BATTERY
Connector Type			2	BR	SOUND SIGNAL WOOFER (+)
			3	B	GND
			4	Y	WOOFER AMP_ON SIGNAL
			6	R	SOUND SIGNAL WOOFER (-)
Connector No. M14	TWEETER RH TK02FBR		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name			1	G	
Connector Type			2	R	
Connector No. M15	TWEETER LH TK02FBR		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name			1	W	
Connector Type			2	P	

JCNWM2419GB

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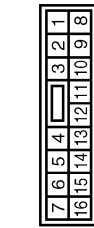
TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

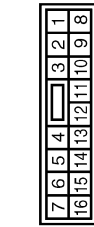
AUDIO

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



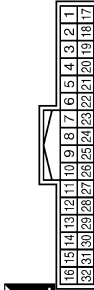
Terminal No.	Color of Wire	Signal Name [Specification]
7	LG	-
14	L	-
15	L	-
16	GR	-

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



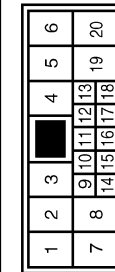
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
8	R/B	-
13	L	-

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	TH42FW-NH



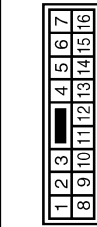
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	G	-
3	V	-
4	SHIELD	-
5	O	-
6	G/O	-
7	GR/R	-
8	L/Y	-
9	SHIELD	-
10	G/R	-
11	SHIELD	-

Connector No.	M22
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



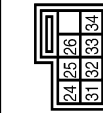
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
7	R	-

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
7	G	-
16	SHIELD	-

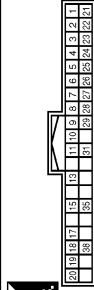
Connector No.	M33
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-IV



Terminal No.	Color of Wire	Signal Name [Specification]
24	W/L	-
31	GR/R	-
33	L/G	-

12	G	-
16	G	-
17	R	-
18	SHIELD	-
19	BR	-
20	Y	-
21	L/Y	-
22	V	-
23	W/G	-
24	L/B	-
25	G/Y	-
26	G/O	-
27	R	-
28	B	-
29	W	-
32	R	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	CAN-H
2	P	CAN-L
3	V	VEHICLE SPEED SIGNAL (2-PULSE)
4	Y	VEHICLE SPEED SIGNAL (8-PULSE)

JCNWM2420GB

TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

Connector No.	M44
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



1	2	3	4
5	6	7	8
9	10		

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
5	P	-

Connector No.	M48
Connector Name	AUDIO UNIT
Connector Type	A12FW



32	34	40	42
31	33	35	36
37	38	39	41

Terminal No.	Color of Wire	Signal Name [Specification]
31	G	SATELLITE RADIO SOUND SIGNAL LH (-)
32	R	SATELLITE RADIO SOUND SIGNAL LH (+)
33	W	SATELLITE RADIO SOUND SIGNAL RH (-)
34	B	SATELLITE RADIO SOUND SIGNAL RH (+)
35	SHIELD	SHIELD
36	SHIELD	SHIELD
37	W	SOURCE CHANGER
38	G/Y	REQUEST SIGNAL (SAT-AUDIO)
39	G/O	COMM (SAT-AUDIO)
40	G/R	COMM (AUDIO-SAT)
41	R/B	CONTROL

Connector No.	M46
Connector Name	AUDIO UNIT
Connector Type	TH18FW-CSZ



2	3	4	5	6	7	8	9
11	12	13	14	15	16	18	

Terminal No.	Color of Wire	Signal Name [Specification]
2	W	SOUND SIGNAL FRONT SPEAKER LH (+)
3	P	SOUND SIGNAL FRONT SPEAKER LH (-)
4	V	SOUND SIGNAL REAR SPEAKER LH (+)
5	R/B	SOUND SIGNAL REAR SPEAKER LH (-)
6	W/B	STRG SW A
7	L/Y	ACC
8	B/R	ILLUMINATION CONTROL SIGNAL (-)
9	W	ILLUMINATION CONTROL SIGNAL (+)
11	G	SOUND SIGNAL FRONT SPEAKER RH (+)
12	R	SOUND SIGNAL FRONT SPEAKER RH (-)
13	LG	SOUND SIGNAL REAR SPEAKER RH (+)

42	Y/W	REQUEST SIGNAL (CHG-AUDIO)
----	-----	----------------------------

14	GR	SOUND SIGNAL REAR SPEAKER RH (-)
15	L/G	STRG SW GND
16	GR/R	STRG SW B
18	L	VEHICLE SPEED (PULSE)
19	L	BATTERY



21	23
25	27
28	

Terminal No.	Color of Wire	Signal Name [Specification]
21	R	IPod SOUND SIGNAL LH (+)
23	B	IPod SOUND SIGNAL RH (+)
25	W	IPod SOUND SIGNAL LH (-)
27	G	IPod SOUND SIGNAL RH (-)
28	SHIELD	SHIELD

56	BR	SOUND SIGNAL (-)
57	Y	SOUND SIGNAL (-)
58	SHIELD	SHIELD

Connector No.	M49
Connector Name	AUDIO UNIT
Connector Type	TH18FW-NH



44	45	46	47	48	49
51	52	53	54	55	57
58	59	60	61	62	63

Terminal No.	Color of Wire	Signal Name [Specification]
44	L	SOUND SIGNAL WOOFER (-)
45	P	SOUND SIGNAL WOOFER (+)
46	Y/B	WOOFER AMP ON SIGNAL
47	W	AV COMM (H)
48	W	AV COMM (H)
49	R	AV COMM (L)
51	W/G	STRG SW A
52	GR/R	STRG SW B
53	L/B	STRG SW GND
54	O	TELEON SIGNAL
55	R	AV COMM (L)

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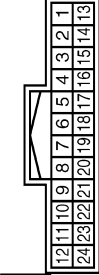
TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

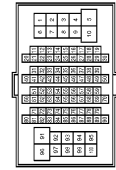
AUDIO

Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



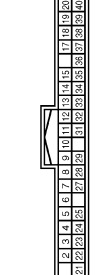
Terminal No.	Color of Wire	Signal Name [Specification]
6	W/G	-
7	R/B	-
19	Y	-

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-CS16-TM4



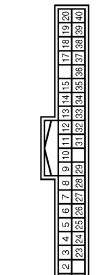
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-

Connector No.	M68
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY)
Connector Type	TH40P-B-NH



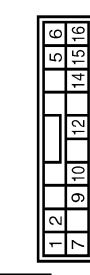
Terminal No.	Color of Wire	Signal Name [Specification]
39	L	CAN-H
40	P	CAN-L

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY)
Connector Type	TH40P-V-NH



Terminal No.	Color of Wire	Signal Name [Specification]
39	L	CAN-H
40	P	CAN-L

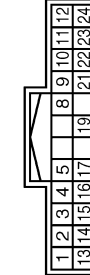
Connector No.	M100
Connector Name	IPOD SIDE
Connector Type	IP18FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	G/O	IPOD SOUND SIGNAL LH (+)
2	G/Y	IPOD SOUND SIGNAL GND
5	L	COMM (IPOD-IPOD ADAPTER)
6	P	COMM (IPOD-IPOD ADAPTER)
7	G/R	IPOD SOUND SIGNAL RH (+)
9	W/B	IPOD CONNECTION RECOGNITION GND
12	LG	CHARGE POWER
14	SHIELD	SHIELD
15	G/O	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY


Terminal No.	Color of Wire	Signal Name [Specification]
14	G	IPOD SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	B	GND
19	SHIELD	SHIELD
21	W/B	IPOD CONNECTION RECOGNITION
22	G/O	ACCESSORY DETECT
23	G/Y	IPOD SOUND SIGNAL GND
24	G/O	IPOD SOUND SIGNAL LH (+)

Connector No.	M89
Connector Name	IPOD ADAPTER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	IPOD SOUND SIGNAL LH (+)
2	B	IPOD SOUND SIGNAL RH (+)
3	L/Y	ACC
4	R	AV COMM (L)
5	L	BATTERY
8	LG	CHARGE POWER
9	P	COMM (IPOD-IPOD ADAPTER)
10	L	COMM (IPOD-IPOD ADAPTER)
11	O	ACCESSORY IDENTIFY
12	G/R	IPOD SOUND SIGNAL RH (+)
13	W	IPOD SOUND SIGNAL LH (-)

Connector No.	M83
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	L	-
5	Y/B	-
16	P	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	G/O	IPOD SOUND SIGNAL LH (+)
2	G/Y	IPOD SOUND SIGNAL GND
5	L	COMM (IPOD-IPOD ADAPTER)
6	P	COMM (IPOD-IPOD ADAPTER)
7	G/R	IPOD SOUND SIGNAL RH (+)
9	W/B	IPOD CONNECTION RECOGNITION GND
10	B	CHARGE POWER
12	LG	CHARGE POWER
14	SHIELD	SHIELD
15	G/O	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	IPOD SOUND SIGNAL LH (+)
2	B	IPOD SOUND SIGNAL RH (+)
3	L/Y	ACC
4	R	AV COMM (L)
5	L	BATTERY
8	LG	CHARGE POWER
9	P	COMM (IPOD-IPOD ADAPTER)
10	L	COMM (IPOD-IPOD ADAPTER)
11	O	ACCESSORY IDENTIFY
12	G/R	IPOD SOUND SIGNAL RH (+)
13	W	IPOD SOUND SIGNAL LH (-)

Terminal No.	Color of Wire	Signal Name [Specification]
4	L	-
5	Y/B	-
16	P	-

Terminal No.	Color of Wire	Signal Name [Specification]
4	L	-
5	Y/B	-
16	P	-










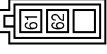

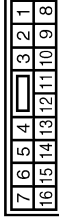




JCNWM2422GB

TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

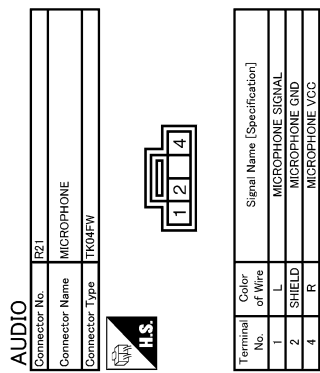
[AUDIO SYSTEM]

AUDIO

Connector No. M302	COMBINATION SWITCH (SPIRAL CABLE)	Connector No. M308	WIRE TO WIRE	Connector No. M309	WIRE TO WIRE	Connector No. M310	ANTENNA BASE
Connector Name TK0BFGY		Connector Name GT1SSCN-1/PP-HU		Connector Name GT1SSC-1/IS-HU		Connector Name GT1SSSN-1/PP-HU	
Connector Type		Connector Type		Connector Type		Connector Type	
							
Terminal No.	Color of Wire	Terminal No.	Color of Wire	Terminal No.	Color of Wire	Terminal No.	Color of Wire
14	Y	1	-	1	-	1	-
15	W	2	-	2	-	2	-
16	P						
17	L						
17	W						
17	BR						
	Signal Name [Specification]		Signal Name [Specification]		Signal Name [Specification]		Signal Name [Specification]
	-[With telephone]						ANTENNA AMP. ON SIGNAL
	-[Without telephone]						AM-FM MAIN
Connector No. M313	AUDIO UNIT	Connector No. R1	WIRE TO WIRE	Connector No. R3	WIRE TO WIRE	Connector No. R20	WIRE TO WIRE
Connector Name		Connector Name	NS10FW-GS	Connector Name	TR04MW-NH	Connector Name	TR04FW-NH
Connector Type		Connector Type		Connector Type		Connector Type	
							
Terminal No.	Color of Wire	Terminal No.	Color of Wire	Terminal No.	Color of Wire	Terminal No.	Color of Wire
61	-	6	Y	1	L	1	L
62	-	7	L	2	G	2	SHIELD
		16	G	4	Y	4	R
	Signal Name [Specification]		Signal Name [Specification]		Signal Name [Specification]		Signal Name [Specification]
	ANTENNA AMP. ON SIGNAL						
	AM-FM MAIN						

JCNWM2423GB

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JCNWM2424GB

IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

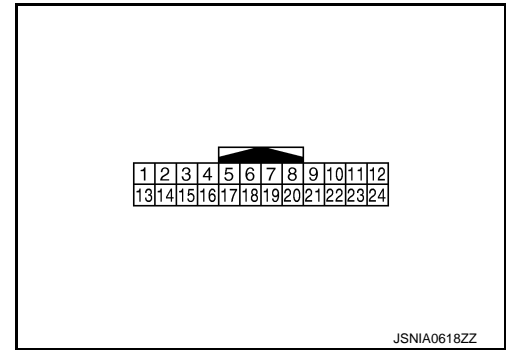
[AUDIO SYSTEM]

IPOD ADAPTER

Reference Value

INFOID:000000004960354

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (R)	13 (W)	iPod sound signal LH	Output	Ignition switch ON	When iPod mode is select- ed.	 SKIB3609E
2 (B)	14 (G)	iPod sound signal RH	Output	Ignition switch ON	When iPod mode is select- ed.	 SKIB3609E
3 (L/Y)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
4 (R)	—	AV communication signal (L)	Input/ Output	—	—	—
5 (L)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
8 (LG)	Ground	iPod battery charge	Output	Ignition switch ON	Connected to iPod®	12.0 V

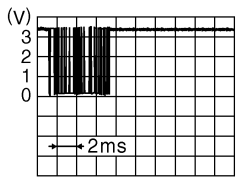
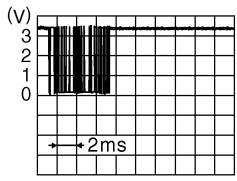
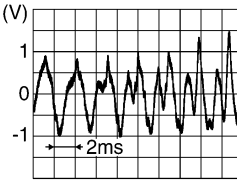
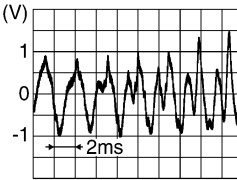
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AV

IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output	Ignition switch ON		
9 (P)	Ground	Communication signal (iPod adapter→iPod®)	Output	Ignition switch ON	The wave pattern is displayed just after iPod connection.	 <p style="text-align: right; font-size: small;">JPNIA0462GB</p> <p>NOTE: After the wave pattern display, the value continues Approx 3.3 V</p>
10 (L)	Ground	Communication signal (iPod®→iPod adapter)	Input	Ignition switch ON	Connected to iPod®	 <p style="text-align: right; font-size: small;">JPNIA0462GB</p>
11 (O)	Ground	ACCESSORY-IDENTIFY	—	Ignition switch ON	Connected to iPod®	0 V
12 (G/R)	23 (G/Y)	iPod sound signal RH	Input	Ignition switch ON	When iPod mode is selected.	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
16 (G)	—	AV communication signal (H)	Input/ Output	—	—	—
17 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
19	—	Shield	—	—	—	—
21 (W/B)	Ground	iPod connection recognition signal	Input	Ignition switch ON	Not connected to iPod®	4.0 V
					Connected to iPod®	0 V
22 (G/O)	Ground	ACCESSORY-DETECT	—	Ignition switch ON	Connected to iPod®	0 V
24 (G/O)	23 (G/Y)	iPod sound signal LH	Input	Ignition switch ON	When iPod mode is selected.	 <p style="text-align: right; font-size: small;">SKIB3609E</p>

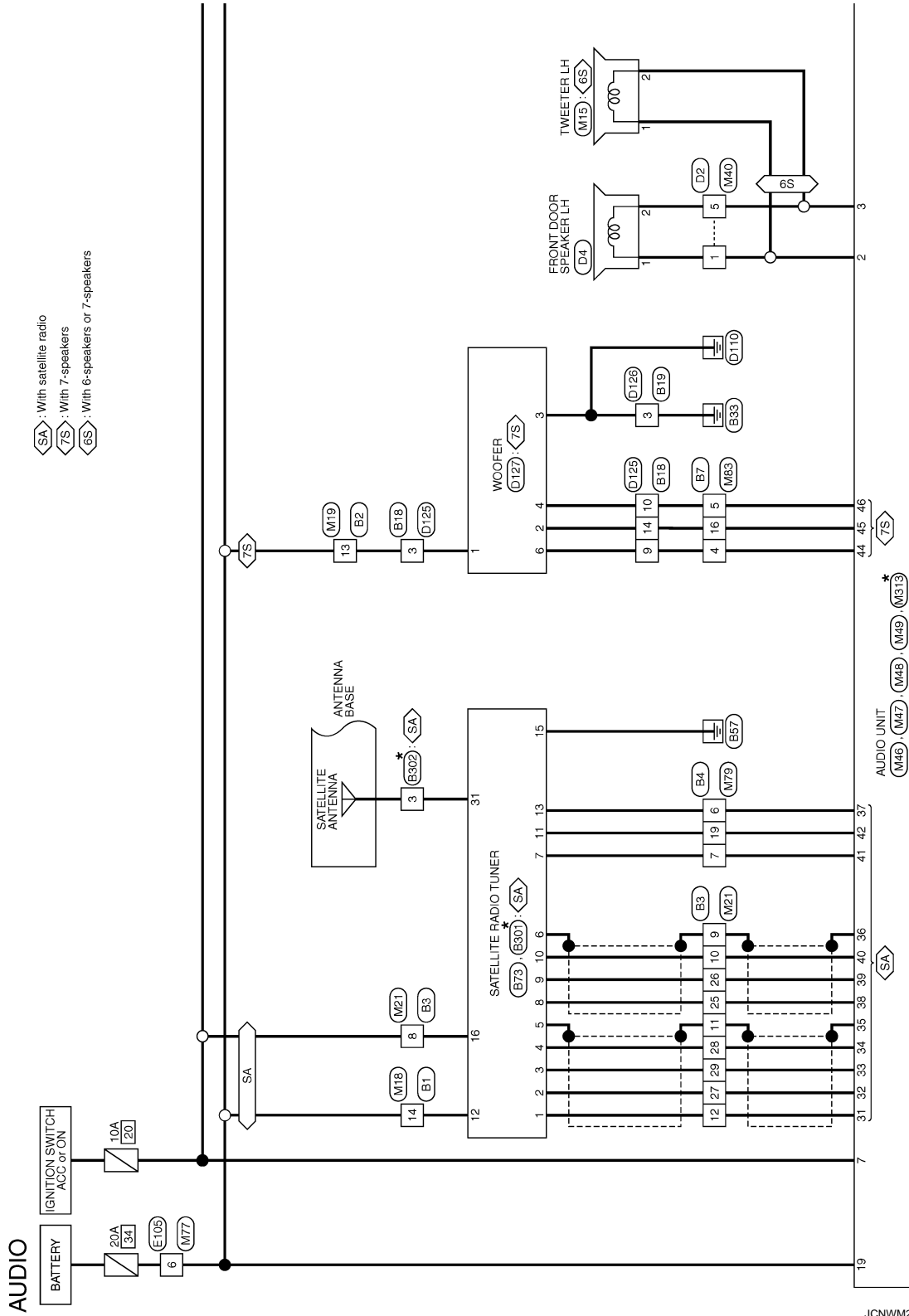
IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

Wiring Diagram - AUDIO -

INFOID:000000005175755



*: This connector is not shown in "Harness Layout".

2009/02/27

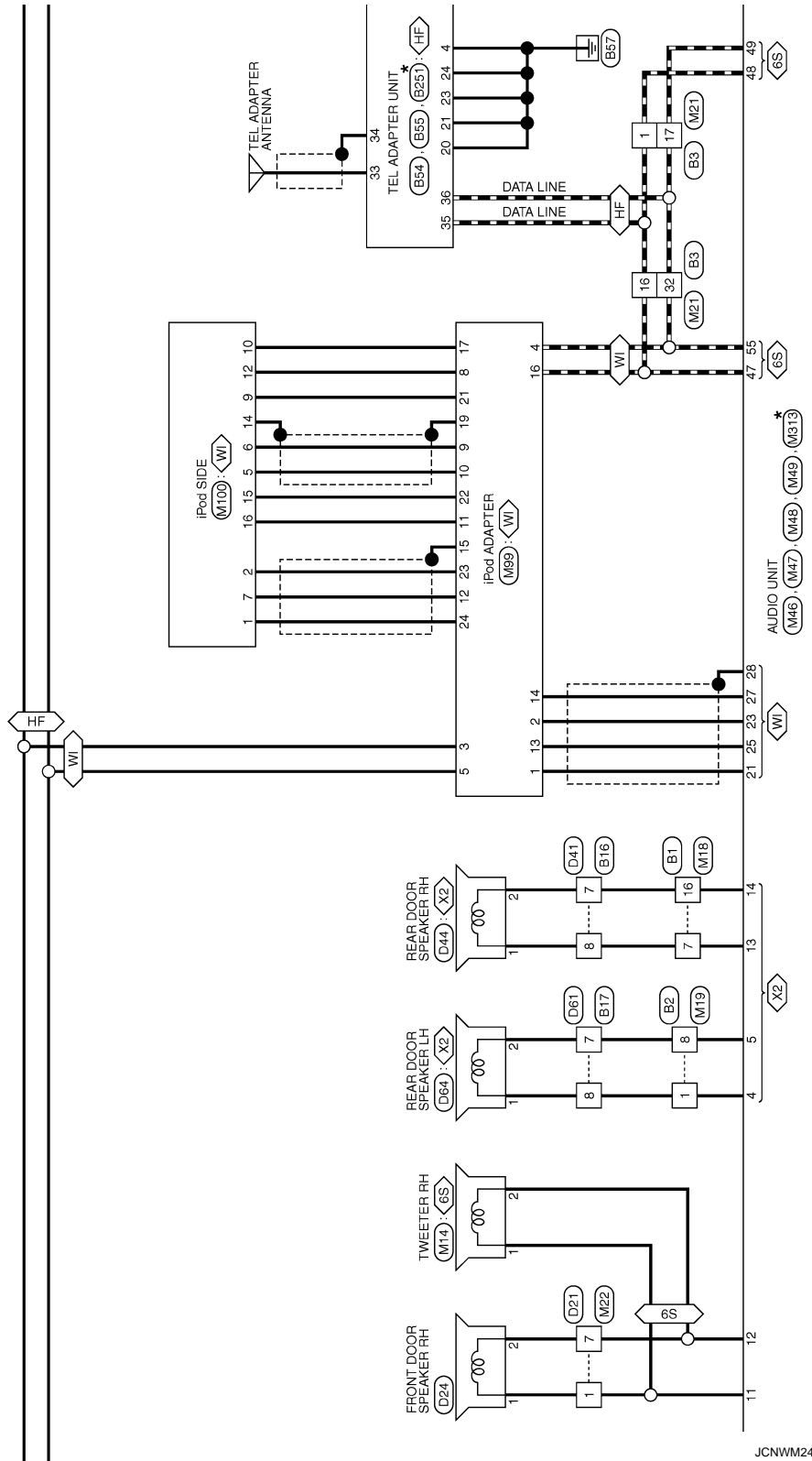
JCNWM2412GB

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IPOD ADAPTER

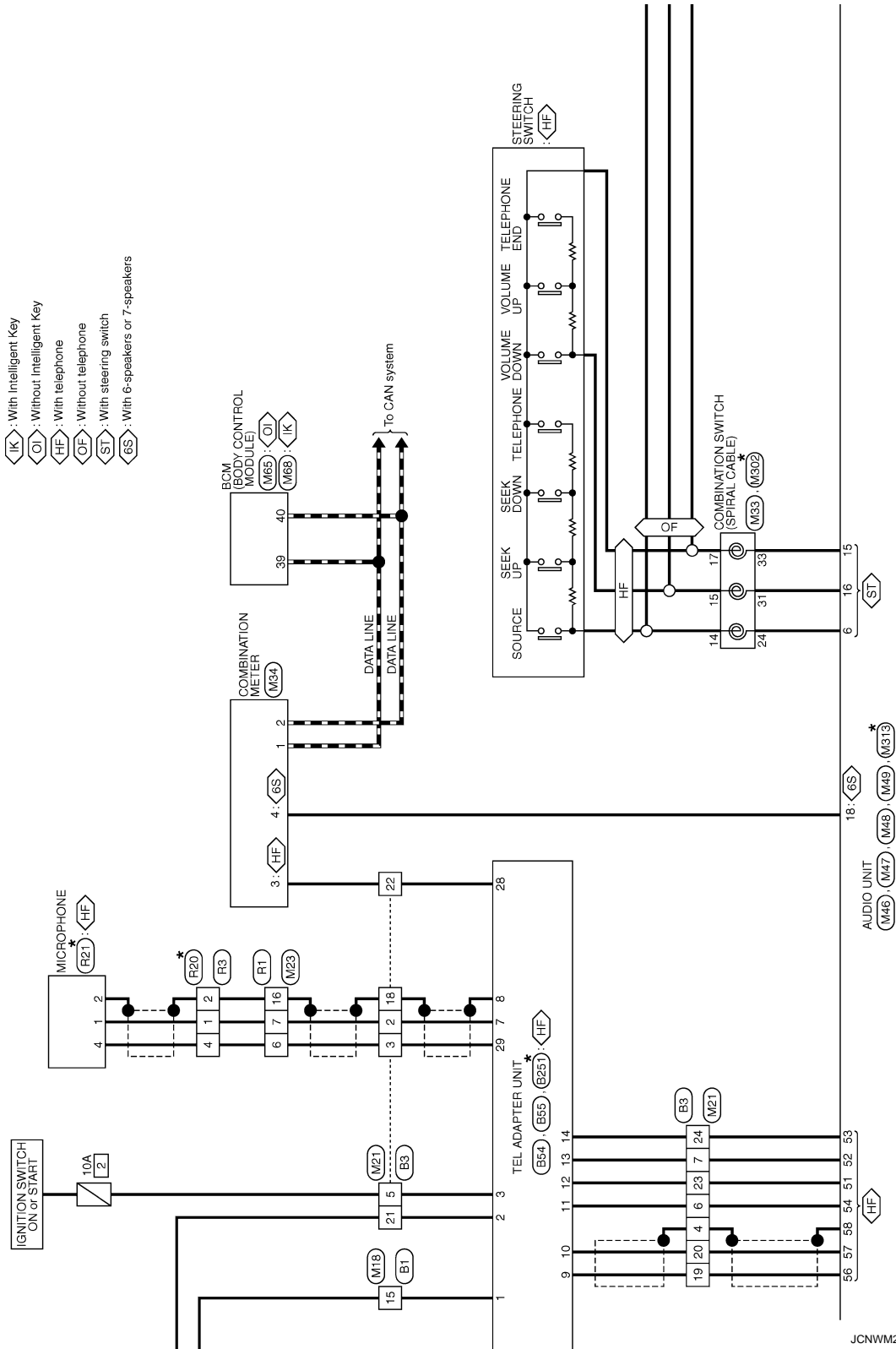
- X2 : Except with 2-speakers
- 6S : With 6-speakers or 7-speakers
- WI : With iPod
- HF : With telephone



*: This connector is not shown in "Harness Layout".

JCNWM2413GB

IPOD ADAPTER



- ◊ IK : With Intelligent Key
- ◊ OL : Without Intelligent Key
- ◊ HF : With telephone
- ◊ OF : Without telephone
- ◊ ST : With steering switch
- ◊ GS : With 6-speakers or 7-speakers

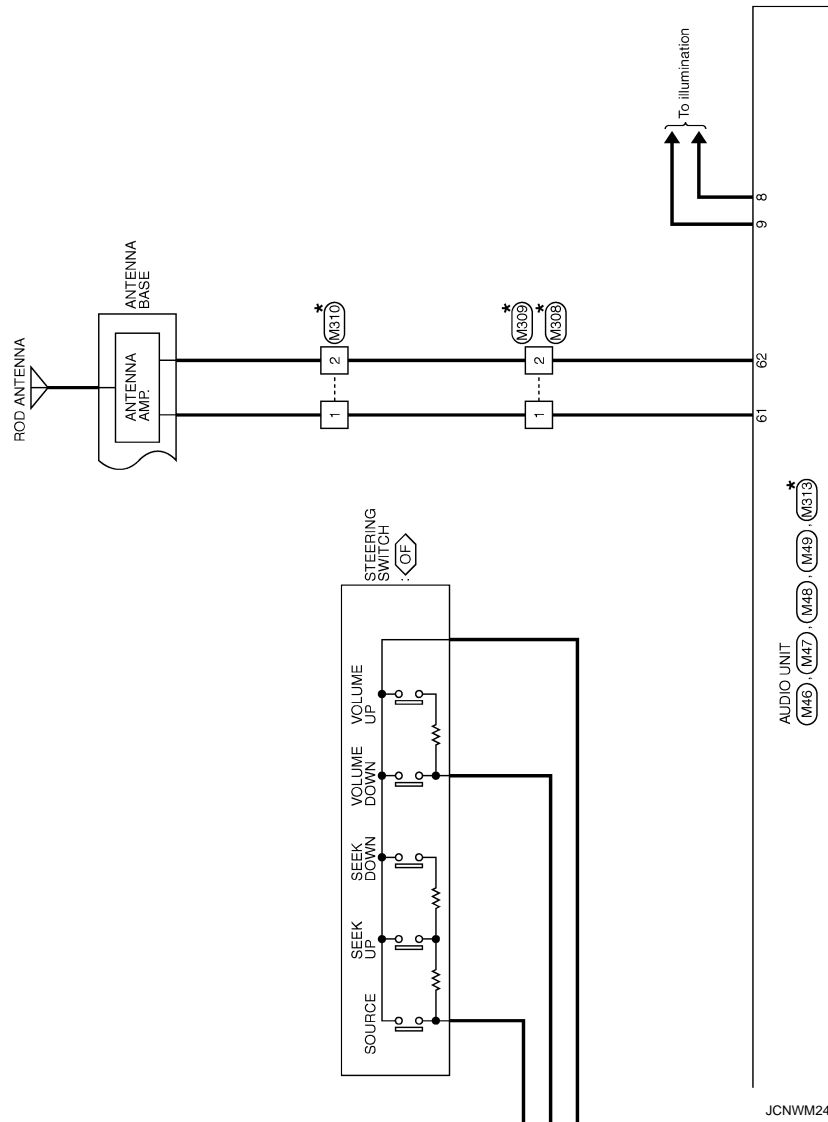
*: This connector is not shown in "Harness Layout".

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IPOD ADAPTER

OF: Without telephone



*: This connector is not shown in "Harness Layout".

JCNWM2415GB

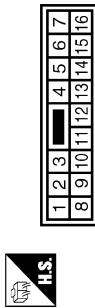
IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

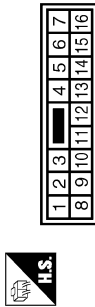
AUDIO

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
7	LG	
14	SB	
15	R	
16	GR	

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	
8	L	
13	BR	

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	
2	L	
3	R	
4	SHIELD	
5	LG	
8	SB	
7	P	
8	V	
9	SHIELD	
10	R	
11	SHIELD	

12	G	
16	G	
17	R	
18	SHIELD	
19	BR	
20	Y	
21	L	
22	O	
23	GR	
24	L	
25	W	
26	B	
27	R	
28	B	
29	W	
32	R	

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
6	W	
7	P	
19	Y	

Connector No.	B7
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



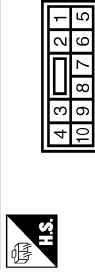
Terminal No.	Color of Wire	Signal Name [Specification]
4	R	
5	Y	
16	BR	

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
7	GR	
8	LG	

Connector No.	B17
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
7	L	
8	V	

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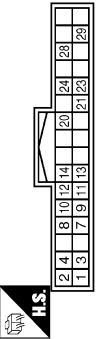
IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

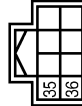
AUDIO

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	RHT0MW-CS10



Terminal No.	Color of Wire	Signal Name [Specification]
3	BR	-
9	R	-
10	Y	-
14	BR	-

Connector No.	B55
Connector Name	TEL ADAPTER UNIT
Connector Type	TH08FV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
35	G	AV COMM (H)
36	R	AV COMM (L)

Connector No.	B19
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC



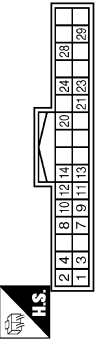
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	-

Connector No.	B73
Connector Name	SATELLITE RADIO TUNER
Connector Type	A16FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	SATELLITE RADIO SOUND SIGNAL LH (-)
2	R	SATELLITE RADIO SOUND SIGNAL LH (+)
3	W	SATELLITE RADIO SOUND SIGNAL RH (-)
4	B	SATELLITE RADIO SOUND SIGNAL RH (+)
5	SHIELD	SHIELD
6	SHIELD	SHIELD
7	P	CONTROL
8	W	REQUEST SIGNAL (SAT—AUDIO)
9	B	COMMUNICATION SIGNAL (SAT—AUDIO)
10	R	COMMUNICATION SIGNAL (AUDIO—SAT)
11	Y	REQUEST SIGNAL (CHG—AUDIO)

Connector No.	B54
Connector Name	TEL ADAPTER UNIT
Connector Type	TH22FV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	BATTERY
2	L	ACC
3	LG	IGNITION
4	B	GND
7	L	MICROPHONE SIGNAL
8	SHIELD	MICROPHONE GND
9	BR	SOUND SIGNAL (+)
10	Y	SOUND SIGNAL (-)
11	SB	TEL ON SIGNAL
12	GR	STRG SW A
13	P	STRG SW B

Connector No.	B251
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-1S-HU









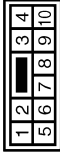









Terminal No.	Color of Wire	Signal Name [Specification]
33	-	TEL ANTENNA SIGNAL
34	-	SHIELD

IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

Connector No. B301	SATELLITE RADIO TUNER	FAKRA			Terminal No. 31	Color of Wire	Signal Name [Specification]	
Connector No.	ANTENNA BASE	GT1EC-1FP-HU			Terminal No. 3	Color of Wire	Signal Name [Specification]	
Connector No.	WIRE TO WIRE	NS10FW-CS			Terminal No. 1	Color of Wire	Signal Name [Specification]	
Connector No.	WIRE TO WIRE	NS10MW-CS			Terminal No. 1	Color of Wire	Signal Name [Specification]	
Connector No.	FRONT DOOR SPEAKER	NS02FW-CS			Terminal No. 1	Color of Wire	Signal Name [Specification]	
Connector No.	FRONT DOOR SPEAKER RH	NS02FW-CS			Terminal No. 1	Color of Wire	Signal Name [Specification]	
Connector No.	REAR DOOR SPEAKER	NS02FW-CS			Terminal No. 2	Color of Wire	Signal Name [Specification]	
Connector No.	REAR DOOR SPEAKER RH	NS02FW-CS			Terminal No. 2	Color of Wire	Signal Name [Specification]	

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IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

Connector No. D61	WIRE TO WIRE NS10MW-CS		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name			7	GR	-
Connector Type			8	LG	-
Connector No. D64	REAR DOOR SPEAKER LH NS02FW-CS		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name			1	LG	-
Connector Type			2	GR	-
Connector No. D125	WIRE TO WIRE NH10FW-CS10		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name			3	SB	-
Connector Type			9	R	-
			10	Y	-
			14	BR	-
Connector No. D126	WIRE TO WIRE IM04FW-LC		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name			3	B	-
Connector Type					
Connector No. E05	WIRE TO WIRE TH80MW-CS16-TM4		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name			6	R	-
Connector Type					
Connector No. D127	WOOFER NS06FW-CS		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name			1	SB	BATTERY
Connector Type			2	BR	SOUND SIGNAL WOOFER (+)
			3	B	GND
			4	Y	WOOFER AMP_ON SIGNAL
			6	R	SOUND SIGNAL WOOFER (-)
Connector No. M14	TWEETER RH TK02FBR		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name			1	G	-
Connector Type			2	R	-
Connector No. M15	TWEETER LH TK02FBR		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name			1	W	-
Connector Type			2	P	-

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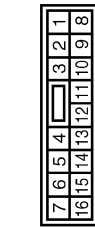
IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

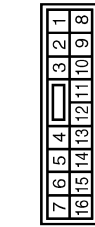
AUDIO

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



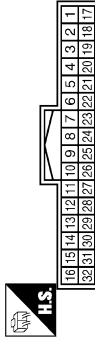
Terminal No.	Color of Wire	Signal Name [Specification]
7	LG	-
14	L	-
15	L	-
16	GR	-

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
8	R/B	-
13	L	-

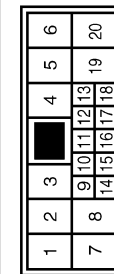
Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	TH42FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	G	-
3	V	-
4	SHIELD	-
5	G	-
6	G/O	-
7	GR/R	-
8	L/Y	-
9	SHIELD	-
10	G/R	-
11	SHIELD	-

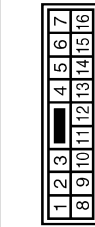
12	G	-
16	G	-
17	R	-
18	SHIELD	-
19	BR	-
20	L/Y	-
21	L/Y	-
22	V	-
23	W/G	-
24	L/B	-
25	G/Y	-
26	G/O	-
27	R	-
28	B	-
29	W	-
32	R	-

Connector No.	M22
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



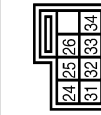
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
7	R	-

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



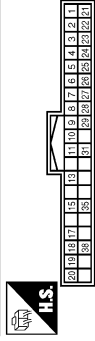
Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
7	G	-
16	SHIELD	-

Connector No.	M33
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V



Terminal No.	Color of Wire	Signal Name [Specification]
24	W/L	-
31	GR/R	-
33	L/G	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	CAN-H
2	P	CAN-L
3	V	VEHICLE SPEED SIGNAL (2-PULSE)
4	Y	VEHICLE SPEED SIGNAL (8-PULSE)

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IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	HS10MW-CS



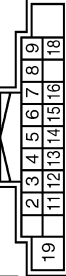
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
5	P	-



Connector No.	M48
Connector Name	AUDIO UNIT
Connector Type	A12FW

Terminal No.	Color of Wire	Signal Name [Specification]
31	G	SATELLITE RADIO SOUND SIGNAL LH (-)
32	R	SATELLITE RADIO SOUND SIGNAL LH (+)
33	W	SATELLITE RADIO SOUND SIGNAL RH (-)
34	B	SATELLITE RADIO SOUND SIGNAL RH (+)
35	SHIELD	SHIELD
36	SHIELD	SHIELD
37	W	SOURCE CHANGER
38	G/Y	REQUEST SIGNAL (SAT-AUDIO)
39	G/O	COMM (SAT-AUDIO)
40	G/R	COMM (AUDIO-SAT)
41	R/B	CONTROL

Connector No.	M46
Connector Name	AUDIO UNIT
Connector Type	TH18FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
2	W	SOUND SIGNAL FRONT SPEAKER LH (+)
3	P	SOUND SIGNAL FRONT SPEAKER LH (-)
4	V	SOUND SIGNAL REAR SPEAKER LH (+)
5	R/B	SOUND SIGNAL REAR SPEAKER LH (-)
6	W/L	STRG SW A
7	L/Y	ACC
8	B/R	ILLUMINATION CONTROL SIGNAL (-)
9	W	ILLUMINATION CONTROL SIGNAL (+)
11	G	SOUND SIGNAL FRONT SPEAKER RH (+)
12	R	SOUND SIGNAL FRONT SPEAKER RH (-)
13	LG	SOUND SIGNAL REAR SPEAKER RH (+)

42	Y/W	REQUEST SIGNAL (CHG-AUDIO)
----	-----	----------------------------

14	GR	SOUND SIGNAL REAR SPEAKER RH (-)
15	L/G	STRG SW GND
16	GR/R	STRG SW B
18	L	VEHICLE SPEED (P-PULSE)
19	L	BATTERY



Connector No.	M49
Connector Name	AUDIO UNIT
Connector Type	TH18FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
44	L	SOUND SIGNAL WOOFER (-)
45	P	SOUND SIGNAL WOOFER (+)
46	Y/B	WOOFER AMP ON SIGNAL
47	W	AV COMM (H)
48	W	AV COMM (H)
48	R	AV COMM (L)
51	W/G	STRG SW A
52	GR/R	STRG SW B
53	L/B	STRG SW GND
54	O	TELO N SIGNAL
55	R	AV COMM (L)

Connector No.	M47
Connector Name	AUDIO UNIT
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
21	R	iPod SOUND SIGNAL LH (+)
23	B	iPod SOUND SIGNAL RH (+)
25	W	iPod SOUND SIGNAL LH (-)
27	G	iPod SOUND SIGNAL RH (-)
28	SHIELD	SHIELD

56	BR	SOUND SIGNAL (+)
57	Y	SOUND SIGNAL (-)
58	SHIELD	SHIELD

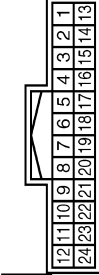
IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

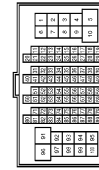
AUDIO

Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



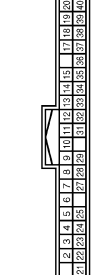
Terminal No.	Color of Wire	Signal Name [Specification]
6	W/G	-
7	R/B	-
19	Y	-

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



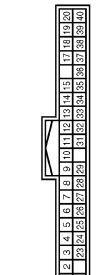
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-

Connector No.	M88
Connector Name	ECM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY)
Connector Type	TH40FP-NH



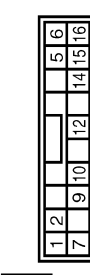
Terminal No.	Color of Wire	Signal Name [Specification]
39	L	CAN-H
40	P	CAN-L

Connector No.	M85
Connector Name	ECM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY)
Connector Type	TH40FP-NH



Terminal No.	Color of Wire	Signal Name [Specification]
39	L	CAN-H
40	P	CAN-L

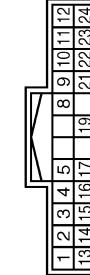
Connector No.	M100
Connector Name	IPOD SIDE
Connector Type	IP18FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	G/O	IPOD SOUND SIGNAL LH (+)
2	G/Y	IPOD SOUND SIGNAL GND
5	L	COMM (IPod-IPOD ADAPTER)
6	P	COMM (IPod-IPOD ADAPTER-IPOD)
7	G/R	IPOD SOUND SIGNAL RH (+)
9	W/B	IPOD CONNECTION RECOGNITION GND
10	B	CHARGE POWER
12	LG	SHIELD
14	G/O	ACCESSORY DETECT
15	G/O	ACCESSORY IDENTIFY
16	O	ACCESSORY IDENTIFY


Terminal No.	Color of Wire	Signal Name [Specification]
14	G	IPOD SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	B	GND
19	SHIELD	SHIELD
21	W/B	IPOD CONNECTION RECOGNITION
22	G/O	ACCESSORY DETECT
23	G/Y	IPOD SOUND SIGNAL GND
24	G/O	IPOD SOUND SIGNAL LH (+)

Connector No.	M89
Connector Name	IPOD ADAPTER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	IPOD SOUND SIGNAL LH (+)
2	B	IPOD SOUND SIGNAL RH (+)
3	L/Y	ACC
4	R	AV COMM (L)
5	L	BATTERY
8	LG	CHARGE POWER
9	P	COMM (IPod ADAPTER-IPOD)
10	L	COMM (IPod-IPOD ADAPTER)
11	O	ACCESSORY IDENTIFY
12	G/R	IPOD SOUND SIGNAL RH (+)
13	W	IPOD SOUND SIGNAL LH (-)

Connector No.	M83
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	L	-
5	Y/B	-
16	P	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	G/O	IPOD SOUND SIGNAL LH (+)
2	G/Y	IPOD SOUND SIGNAL GND
5	L	COMM (IPod-IPOD ADAPTER)
6	P	COMM (IPod-IPOD ADAPTER-IPOD)
7	G/R	IPOD SOUND SIGNAL RH (+)
9	W/B	IPOD CONNECTION RECOGNITION GND
10	B	CHARGE POWER
12	LG	SHIELD
14	G/O	ACCESSORY DETECT
15	G/O	ACCESSORY IDENTIFY
16	O	ACCESSORY IDENTIFY

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	IPOD SOUND SIGNAL LH (+)
2	B	IPOD SOUND SIGNAL RH (+)
3	L/Y	ACC
4	R	AV COMM (L)
5	L	BATTERY
8	LG	CHARGE POWER
9	P	COMM (IPod ADAPTER-IPOD)
10	L	COMM (IPod-IPOD ADAPTER)
11	O	ACCESSORY IDENTIFY
12	G/R	IPOD SOUND SIGNAL RH (+)
13	W	IPOD SOUND SIGNAL LH (-)

Terminal No.	Color of Wire	Signal Name [Specification]
4	L	-
5	Y/B	-
16	P	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	G/O	IPOD SOUND SIGNAL LH (+)
2	G/Y	IPOD SOUND SIGNAL GND
5	L	COMM (IPod-IPOD ADAPTER)
6	P	COMM (IPod-IPOD ADAPTER-IPOD)
7	G/R	IPOD SOUND SIGNAL RH (+)
9	W/B	IPOD CONNECTION RECOGNITION GND
10	B	CHARGE POWER
12	LG	SHIELD
14	G/O	ACCESSORY DETECT
15	G/O	ACCESSORY IDENTIFY
16	O	ACCESSORY IDENTIFY

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IPOD ADAPTER

AUDIO

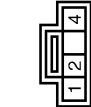
Connector No. M302	COMBINATION SWITCH (SPIRAL CABLE)	TK0BEFY		Terminal No.	Color of Wire	Signal Name [Specification]
14	Y	[With telephone]				
14	W	[Without telephone]				
15	P	[With telephone]				
15	L	[Without telephone]				
17	W	[With telephone]				
17	BR	[Without telephone]				
Connector No. M303	WIRE TO WIRE	GT13SON-1/1PP-HU		Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-				
2	-	-				
Connector No. M308	WIRE TO WIRE	GT13SON-1/1PP-HU		Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-				
2	-	-				
Connector No. M309	WIRE TO WIRE	GT13SC-1/1S-HU		Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-				
2	-	-				
Connector No. M310	ANTENNA BASE	GT13SSN-1/1PP-HU		Terminal No.	Color of Wire	Signal Name [Specification]
1	-	ANTENNA AMP. ON SIGNAL				
2	-	AM-FM MAIN				
Connector No. R1	WIRE TO WIRE	NS16FW-CS		Terminal No.	Color of Wire	Signal Name [Specification]
6	Y	-				
7	L	-				
16	G	-				
Connector No. M313	AUDIO UNIT	GT13SH-2/1S-HU		Terminal No.	Color of Wire	Signal Name [Specification]
61	-	ANTENNA AMP. ON SIGNAL				
62	-	AM-FM MAIN				
Connector No. R3	WIRE TO WIRE	TR4MMW-NH		Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-				
2	G	-				
3	Y	-				
4	-	-				
Connector No. R20	WIRE TO WIRE	TR4QFW-NH		Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-				
2	SHIELD	-				
3	-	-				
4	R	-				

JCNWM2423GB

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AUDIO

Connector No.	R21
Connector Name	MICROPHONE
Connector Type	TKCAF7W



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	MICROPHONE SIGNAL
2	SHIELD	MICROPHONE GND
4	R	MICROPHONE VCC

JCNWM2424GB

SYMPTOM DIAGNOSIS

AUDIO SYSTEM SYMPTOMS

Symptom Table

INFOID:000000004940265

AUDIO SYSTEM

Symptoms	Check items	Possible malfunction location / Action to take
Audio sound is not heard.	No sound from all speakers.	<ul style="list-style-type: none"> Audio unit power supply and ground circuit. Refer to AV-25, "AUDIO UNIT : Diagnosis Procedure".
	Sound is not heard from woofer.	<ul style="list-style-type: none"> Change the speaker setting of the audio unit. Refer to AV-19, "MODELS WITH iPod® CONNECTION FUNCTION : Diagnosis Description". Sound signal woofer circuit Woofer amp. ON signal circuit. Refer to AV-41, "Diagnosis Procedure".
	Sound is not heard only from the specific places.	Sound signal circuit of malfunctioning system.
Satellite radio is not received.	When "AUX" switch is pressed, it change to satellite radio mode.	<ul style="list-style-type: none"> Satellite radio sound signal circuit Satellite radio antenna
	When "AUX" switch is pressed, it does not change to satellite radio mode.	<ul style="list-style-type: none"> Satellite radio tuner power supply and ground circuit. Refer to AV-26, "SATELLITE RADIO TUNER : Diagnosis Procedure". Request signal circuit. Refer to AV-39, "Diagnosis Procedure". Communication circuit between audio unit and satellite radio tuner. Refer to AV-37, "Diagnosis Procedure".

RELATED TO iPod®

Trouble Diagnosis Chart by Symptom

Connect another iPod® and check if the symptom is reproduced or not. If the symptom is reproduced, diagnose the vehicle. If no malfunction is detected, replace the iPod harness.

NOTE:

- It is unable to read a connection between iPod® and iPod harness.
- The iPod Touch and iPod Classic may not charge properly in some cases.
- As for iPod released concurrently with and after iPhone 3G (iPod Touch, iPod Nano 4th generation, iPod Classic 2nd generation, etc.) , 12 V charging circuit is deleted from iPod®.

Trouble diagnosis chart by symptom

Symptoms	Check items	Possible malfunction location / Action to take
There is no sound from the iPod®.	Other audio sounds are normal.	<ul style="list-style-type: none"> iPod sound signal circuit between audio unit and iPod adapter. iPod sound signal circuit between iPod® and iPod adapter.
"iPod No connect" is displayed when "iPod" switch is pressed.	<ul style="list-style-type: none"> iPod battery charging is normal. iPod software and hardware version are displayed when performing audio unit self-diagnosis. 	Communication circuit between iPod® and iPod adapter.
	<ul style="list-style-type: none"> iPod battery charging is normal. iPod software and hardware version are not displayed when performing audio unit self-diagnosis. 	AV communication circuit between audio unit and iPod adapter.
	iPod battery charge does not work.	iPod adapter power supply and ground circuit. Refer to AV-25, "iPod ADAPTER : Diagnosis Procedure" .
iPod® cannot charge the battery.	Not chargeable even when connecting other iPod®. Refer to above.	iPod battery charge circuit between iPod® and iPod adapter.



AUDIO SYSTEM SYMPTOMS

[AUDIO SYSTEM]

< SYMPTOM DIAGNOSIS >

iPod® is a trademark of Apple inc., registered in the U.S. and other countries.

RELATED TO STEERING SWITCH (MODELS WITH HANDS-FREE PHONE)

Symptoms	Possible malfunction location / Action to take
All steering switches are not operated.	Steering switch signal ground circuit. Refer to AV-32, "Diagnosis Procedure" .
Only specified switch cannot be operated.	Steering switch
“  ”, “SEEK UP”, “SEEK DOWN” and “SOURCE” switches are not operated.	Steering switch signal A circuit (steering switch to audio unit). Refer to AV-28, "Diagnosis Procedure" .
“  ”, “VOL UP” and “VOL DOWN” switches are not operated.	Steering switch signal B circuit (steering switch to audio unit). Refer to AV-30, "Diagnosis Procedure" .

RELATED TO STEERING SWITCH (MODELS WITHOUT HANDS-FREE PHONE)

Symptoms	Possible malfunction location / Action to take
All steering switches are not operated.	Steering switch signal ground circuit. Refer to AV-32, "Diagnosis Procedure" .
Only specified switch cannot be operated.	Steering switch
“SEEK UP”, “SEEK DOWN” and “SOURCE” switches are not operated.	Steering switch signal A circuit. Refer to AV-28, "Diagnosis Procedure" .
“VOL UP” and “VOL DOWN” switches are not operated.	Steering switch signal B circuit. Refer to AV-30, "Diagnosis Procedure" .

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AV

HANDS-FREE PHONE SYMPTOMS

Symptom Table

INFOID:000000004940266

RELATED TO HANDS-FREE PHONE

- Check that the cellular phone is corresponding type (Bluetooth™ enabled) when the hands-free related malfunction vehicle is in service before performing a diagnosis.
- There is a case that malfunction occurs due to the version change of the phone type, etc. even though it is a corresponding type. Therefore, confirm it by changing the cellular phone to another corresponding type phone, and check that it operates normally. It is necessary to distinguish whether the cause is the vehicle or cellular phone. Check to ensure the customer's phone is supported by checking the phone compatibility for the hands-free system.

Simple Check for Bluetooth™ Communication

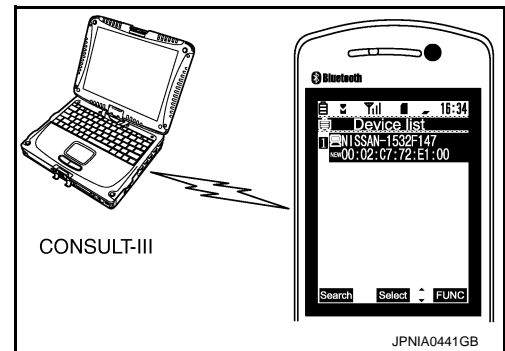
If cellular phone and TEL adapter unit cannot be connected with Bluetooth™ communication, following procedure allows the technician to judge which device has malfunction.

1. Turn on a cellular phone, not connecting Bluetooth™ communication.
2. Start CONSULT-III, then start Windows®.
3. Set CONSULT-III near a cellular phone.
4. When operated Bluetooth™ registration by cellular phone, check if CONSULT-III* would be displayed on the device name.
(If other Bluetooth™ device is located near cellular phone, a name of the device would be displayed also.)

NOTE:

*:Displayed device name is "NISSAN-*****".

- If no device name is displayed, cellular phone is malfunction. Repair the cellular phone first, then perform diagnosis.
- If CONSULT-III is displayed on device name, cellular phone is normal. Perform diagnosis as per the following table.



Trouble Diagnosis Chart by Symptom







Symptoms	Check items	Possible malfunction location/Action to take
Does not recognize cellular phone connection.	Repeat the registration of cellular phone.	TEL adapter unit
Hands-free phone cannot be established.	Both the reception and the speech cannot be performed.	<ul style="list-style-type: none"> • TEL adapter unit power supply and ground circuit. Refer to AV-26. "TEL ADAPTER UNIT : Diagnosis Procedure". • Control signal circuit • AV communication circuit between audio unit and TEL adapter unit.
	<ul style="list-style-type: none"> • Both the reception and the speech cannot be performed. • Audio can be operated by steering switch. 	TEL ON signal circuit. Refer to AV-44. "Diagnosis Procedure" .
The other party's voice cannot be heard by hands-free phone.	Audio system sound is normal.	Sound signal (telephone voice, telephone guidance) circuit
	Audio system sound does not sound.	Refer to AV-122. "Symptom Table" .
Originating sound is not heard by the other party with hands-free phone communication.	Sound operation function is normal.	TEL adapter unit
	Sound operation function does not work.	Microphone signal circuit. Refer to AV-42. "Diagnosis Procedure" .

RELATED TO STEERING SWITCH

HANDS-FREE PHONE SYMPTOMS

< SYMPTOM DIAGNOSIS >

[AUDIO SYSTEM]

Symptoms	Possible malfunction location / Action to take
All steering switches are not operated.	Steering switch signal ground circuit (steering switch to audio unit). Refer to AV-32, "Diagnosis Procedure" .
Only specified switch cannot be operated.	Steering switch
"  , "SEEK UP", "SEEK DOWN" and "SOURCE" switches are not operated.	Steering switch signal A circuit (steering switch to audio unit). Refer to AV-28, "Diagnosis Procedure" .
"  , "VOL UP" and "VOL DOWN" switches are not operated.	Steering switch signal B circuit (steering switch to audio unit). Refer to AV-30, "Diagnosis Procedure" .
"  " switch is not operated.	Steering switch signal A circuit (audio unit to TEL adapter unit). Refer to AV-28, "Diagnosis Procedure" .
"  " switch is not operated.	Steering switch signal B circuit (audio unit to TEL adapter unit). Refer to AV-28, "Diagnosis Procedure" .
"  " and "  " switches are not operated.	Steering switch signal ground circuit (audio unit to TEL adapter unit). Refer to AV-32, "Diagnosis Procedure" .

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AV

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[AUDIO SYSTEM]

NORMAL OPERATING CONDITION

Description

INFOID:000000004940267

RELATED TO AUDIO

- The majority of the audio malfunctions are the result of outside causes (bad CD, electromagnetic interference, etc.). Check the symptoms below to diagnose the malfunction.
- The vehicle itself can be a source of noise if noise prevention parts or electrical equipment is malfunctioning. Check that noise is caused and/or changed by engine speed, ignition switch turned to each position, and operation of each piece of electrical equipment. Then determine the cause.

NOTE:

- CD-R is not guaranteed to play because they can contain compressed audio (MP3, WMA) or could be incorrectly mastered by the customer on a computer.
- Check that the CDs carry the Compact Disc Logo. If not, the disc is not mastered to the red book Compact Disc Standard and may not play.

Symptoms	Cause and Counter measure
Cannot play	Check that the disc was inserted correctly.
	Check that the disc is scratched or dirty.
	Check if there is condensation inside the player. If there is, wait until the condensation is gone (about 1 hour) before using the player.
	If there is a temperature increase error, the CD player will play correctly after it returns to the normal temperature.
	Files with extensions other than “.MP3”, “.WMA”, “.mp3”, or “.wma” cannot be played. In addition, the character codes and number of characters for folder names and file names should be in compliance with the specifications.
	Check if the disc or the file is generated in an irregular format. This may occur depending on the variation or the setting of MP3/WMA writing applications or other text editing applications.
	Check if the finalization process, such as session close and disc close, is done for the disc.
Poor sound quality	Check if the disc is scratched or dirty.
	Bit rate may be too low.
It takes a relatively long time before the music starts playing.	If there are many folder or file levels on the MP3/WMA CD, or if it is a multisession disc, some time may be required before the music starts playing.
Music cuts off or skips	The writing software and hardware combination might not match, or the writing speed, writing depth, writing width, etc., might not match the specifications. Try using the slowest writing speed.
Skipping with high bit rate files	Skipping may occur with large quantities of data, such as for high bit rate data.
Move immediately to the next song when playing.	When a non-MP3/WMA file has been given an extension of “.MP3”, “.WMA”, “.mp3” or “.wma”, or when play is prohibited by copyright protection, there will be approximately 5 seconds of no sound and then the player will skip to the next song.
The songs do not play back in the desired order.	The playback order is the order in which the files were written by the writing software. Therefore, the files might not play in the desired order.

Noise resulting from variations in field strength, such as fading noise and multi-path noise, or external noise from trains and other sources, is not a malfunction.

NOTE:

- Fading noise: This noise occurs because of variations in the field strength in a narrow range due to mountains or buildings blocking the signal.
- Multi-path noise: This noise results from a time difference between the broadcast waves directly from the station arriving at the antenna and the waves reflected by mountains or buildings.

RELATED TO TELEPHONE

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[AUDIO SYSTEM]

Symptoms	Cause and Counter measure	A
System fails to interpret the command correctly.	1. Ensure that the command format is valid.	A
	2. Ensure that the command is spoken after the tone.	B
	3. Speak clearly without pausing between words and at a level appropriate to the ambient noise level in the vehicle.	B
	4. Ensure that the ambient noise level is not excessive (for example, windows open or defroster on). NOTE: If it is too noisy to use the phone, it is likely that the voice commands will not be recognized.	C
	5. If more than one command was said at a time, try saying the commands separately.	D
	6. If the system consistently fails to recognize commands, the voice training procedure should be carried out to improve the recognition response for the speaker. Refer to AV-23. "Diagnosis Description" .	E
The system consistently selects the wrong entry from the phone book.	1. Ensure that the phone book entry name requested matches what was originally stored. This can be confirmed by using the "List Names" command.	F
	2. Replace one of the names being confused with a new name.	F

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PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000005167696

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIR BAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

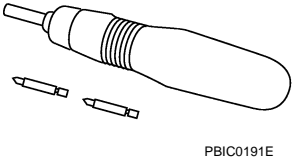
- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000004940270

Tool name	Description
<p>Power tool</p>  <p>PBIC0191E</p>	<p>Loosening bolts and nuts</p>

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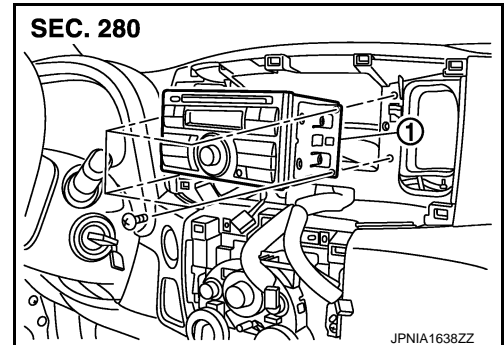
REMOVAL AND INSTALLATION

AUDIO UNIT

Exploded View

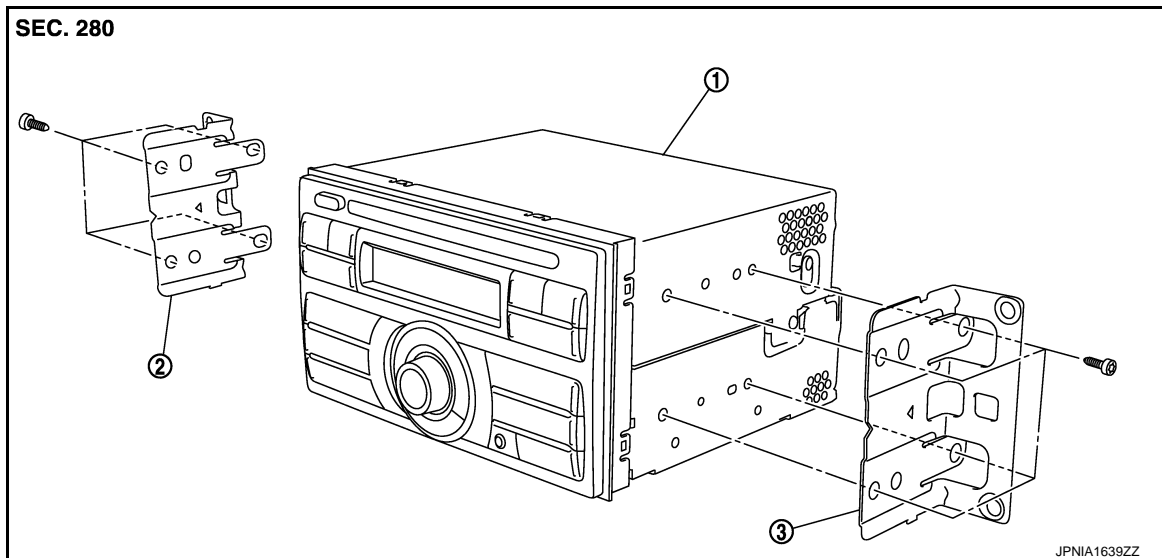
REMOVAL

INFOID:000000004940271



1. Audio unit

DISASSEMBLY



1. Audio unit
2. Bracket LH
3. Bracket RH

Removal and Installation

INFOID:000000004940272

REMOVAL

1. Remove cluster lid C. Refer to [IP-12, "Exploded View"](#).
2. Remove audio unit screws, then disconnect audio unit connector and remove audio unit.
3. Remove bracket screws to remove audio unit.

INSTALLATION

Install in the reverse order of removal.

FRONT DOOR SPEAKER

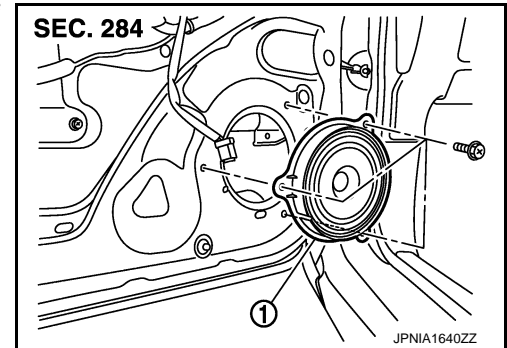
< REMOVAL AND INSTALLATION >

[AUDIO SYSTEM]

FRONT DOOR SPEAKER

Exploded View

INFOID:000000004940273



1. Front door speaker

Removal and Installation

INFOID:000000004940274

REMOVAL

1. Remove front door finisher. Refer to [INT-11, "Exploded View"](#).
2. Remove front door speaker screws, then disconnect front door speaker connector and remove front door speaker.

INSTALLATION

Install in the reverse order of removal.

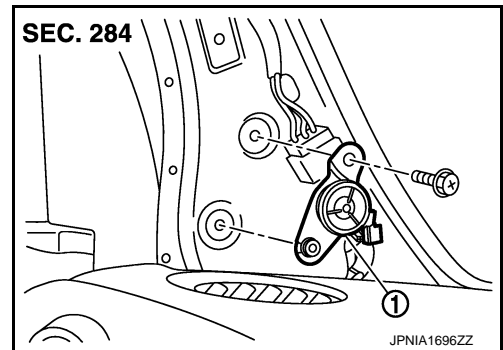
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AV

TWEETER

Exploded View

INFOID:000000004940275



1. Tweeter

Removal and Installation

INFOID:000000004940276

REMOVAL

1. Remove front pillar garnish. Refer to [INT-15. "Exploded View"](#).
2. Remove tweeter screw and clip, then disconnect tweeter connector and remove tweeter.

INSTALLATION

Install in the reverse order of removal.

REAR DOOR SPEAKER

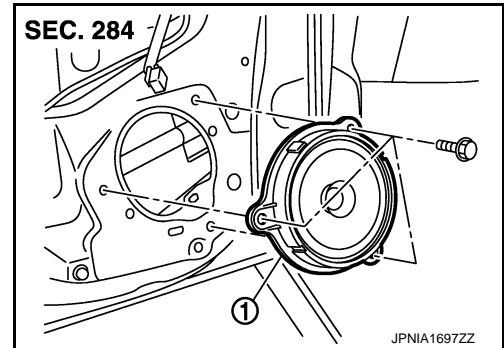
< REMOVAL AND INSTALLATION >

[AUDIO SYSTEM]

REAR DOOR SPEAKER

Exploded View

INFOID:000000004940277



1. Rear door speaker

Removal and Installation

INFOID:000000004940278

REMOVAL

1. Remove rear door finisher. Refer to [INT-13. "Exploded View"](#).
2. Remove rear door speaker screws, then disconnect rear door speaker connector and remove rear door speaker.

INSTALLATION

Install in the reverse order of removal.

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WOOFER

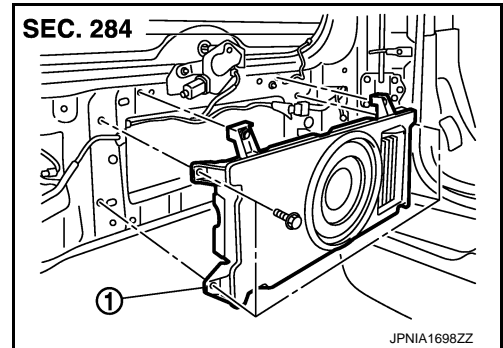
< REMOVAL AND INSTALLATION >

[AUDIO SYSTEM]

WOOFER

Exploded View

INFOID:000000004940281



1. Woofer

Removal and Installation

INFOID:000000004940282

REMOVAL

1. Remove back door finisher lower. Refer to [INT-26. "Exploded View"](#).
2. Remove screws and clips, then disconnect woofer connector and remove the woofer.

INSTALLATION

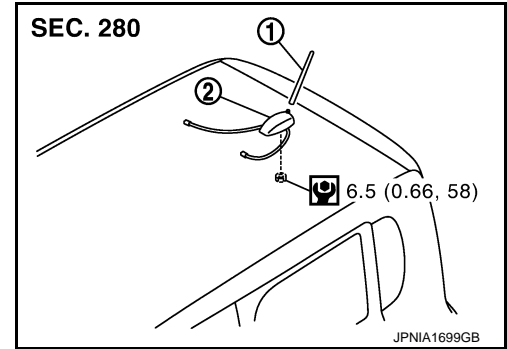
Install in the reverse order of removal.

ANTENNA BASE

MODELS WITH SATELLITE RADIO SYSTEM

MODELS WITH SATELLITE RADIO SYSTEM : Exploded View

INFOID:000000004960651



1. Antenna rod
2. Antenna base

Refer to [GI-4. "Components"](#) for symbols in the figure.

MODELS WITH SATELLITE RADIO SYSTEM : Removal and Installation

INFOID:000000005087559

REMOVAL

1. Remove luggage side upper finisher. Refer to [INT-23. "Exploded View"](#).
2. Remove assist grip and headlining clips. Refer to [INT-20. "Exploded View"](#).
3. Pull headlining (rear). Obtain a service area.
4. Remove antenna base mounting nut.
5. Remove antenna base.

INSTALLATION

Install in the reverse order of removal.

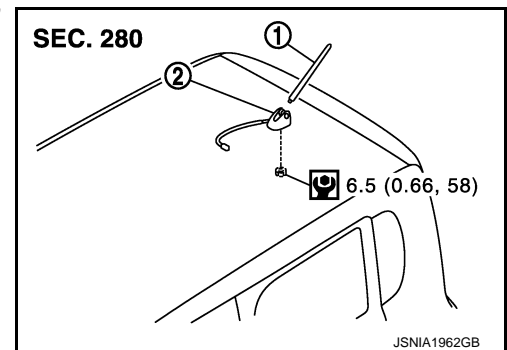
CAUTION:

Be careful about tightening torque. Antenna sensitivity becomes poor, and when it is excessive, roof panel may be deformed, when antenna base mounting nut tightening torque is loose.

MODELS WITHOUT SATELLITE RADIO SYSTEM

MODELS WITHOUT SATELLITE RADIO SYSTEM : Exploded View

INFOID:000000005087549



1. Antenna rod
2. Antenna base

Refer to [GI-4. "Components"](#) for symbols in the figure.

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MODELS WITHOUT SATELLITE RADIO SYSTEM : Removal and Installation

INFOID:000000005087550

REMOVAL

1. Remove luggage side upper finisher. Refer to [INT-23, "Exploded View"](#).
2. Remove assist grip and headlining clips. Refer to [INT-20, "Exploded View"](#).
3. Pull headlining (rear). Obtain a service area.
4. Remove antenna base mounting nut.
5. Remove antenna base.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be careful about tightening torque. Antenna sensitivity becomes poor, and when it is excessive, roof panel may be deformed, when antenna base mounting nut tightening torque is loose.

SATELLITE RADIO TUNER

< REMOVAL AND INSTALLATION >

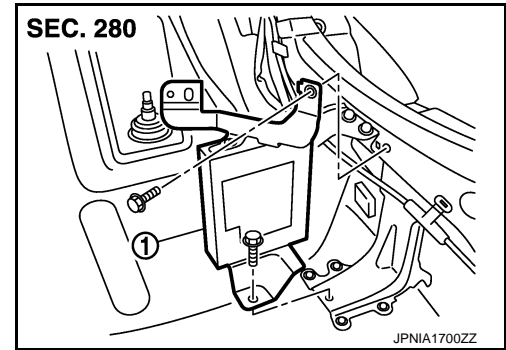
[AUDIO SYSTEM]

SATELLITE RADIO TUNER

Exploded View

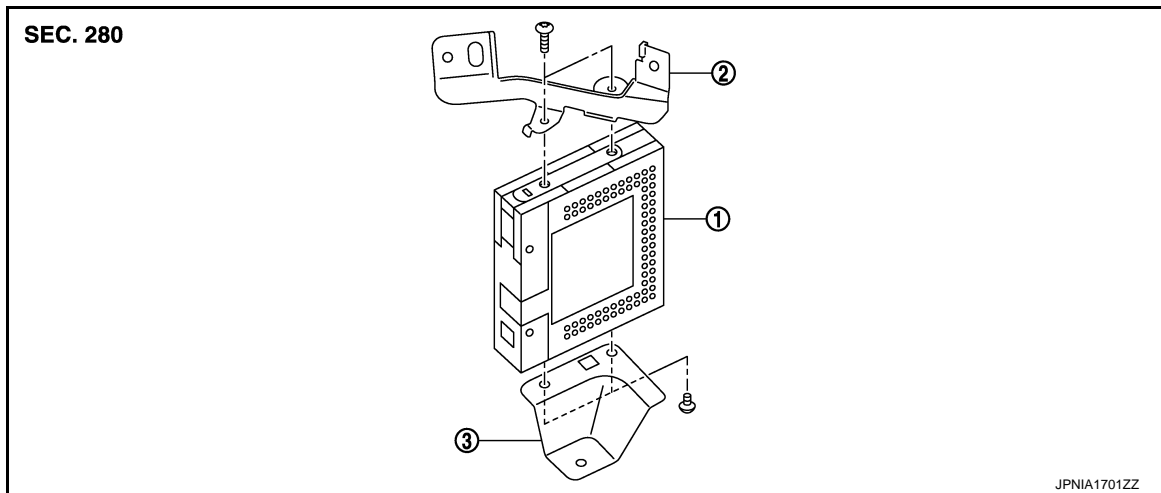
INFOID:000000004940285

REMOVAL



1. Satellite radio tuner

DISASSEMBLY



1. Satellite radio tuner
2. Bracket A
3. Bracket B

Removal and Installation

INFOID:000000004940286

REMOVAL

1. Remove luggage side lower finisher RH. Refer to [INT-23, "Exploded View"](#).
2. Disconnect satellite radio tuner connector.
3. Remove satellite radio tuner screws, harness clip, and antenna feeder clip.
4. Remove satellite radio tuner and bracket from the vehicle as a single unit.
5. Remove bracket screws to remove satellite radio tuner.

INSTALLATION

Install in the reverse order of removal.

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TEL ADAPTER UNIT

< REMOVAL AND INSTALLATION >

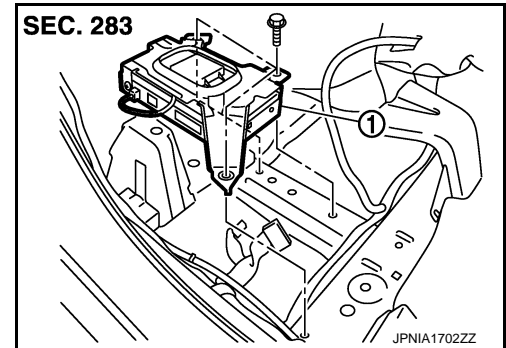
[AUDIO SYSTEM]

TEL ADAPTER UNIT

Exploded View

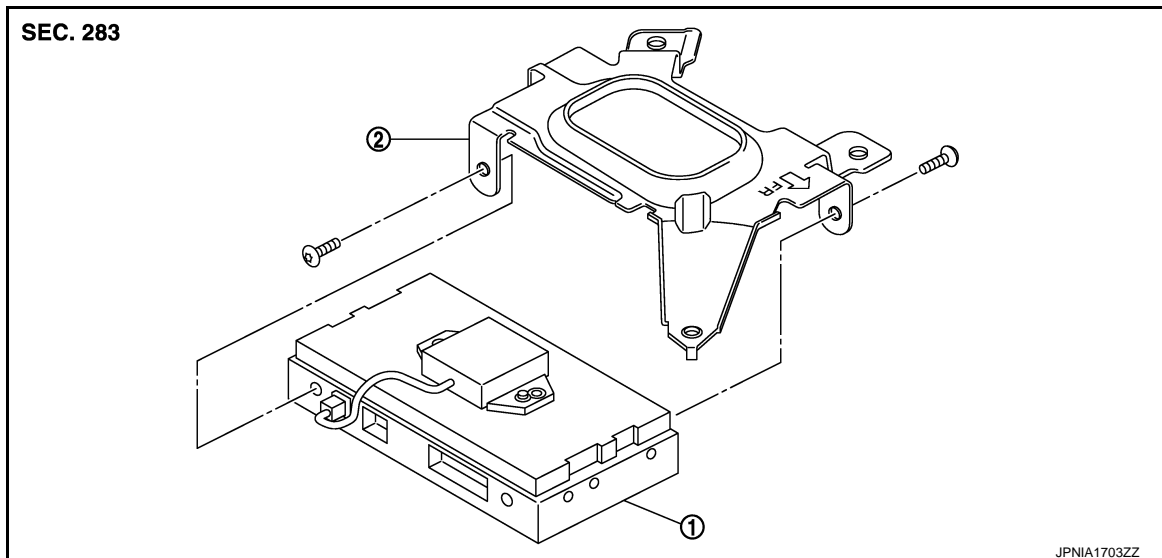
INFOID:000000004940291

REMOVAL



1. TEL adapter unit

DISASSEMBLY



1. TEL adapter unit
2. Bracket

Removal and Installation

INFOID:000000004940292

REMOVAL

1. Remove rear floor spacer RH. Refer to [INT-18, "Exploded View"](#).
2. Disconnect TEL adapter unit connector.
3. Remove TEL adapter unit screws, then remove TEL adapter unit.
4. Remove bracket screws, and then remove TEL adapter unit.

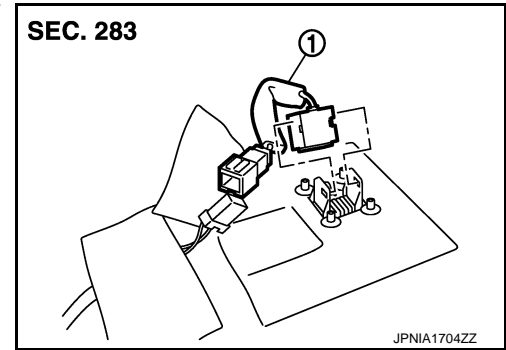
INSTALLATION

Install in the reverse order of removal.

MICROPHONE

Exploded View

INFOID:000000005096253



1. Microphone

Removal and Installation

INFOID:000000005096254

REMOVAL

1. Remove front pillar garnish LH and center pillar upper garnish LH. Refer to [INT-15. "Exploded View"](#).
2. Remove sun visor assy, map lamp assy, assist grip LH, and inside mirror cover. Refer to [INT-20. "Exploded View"](#).
3. Pull headlining (left front). Obtain a service area.
4. Remove microphone connector and pawl to remove microphone.

INSTALLATION

Install in the reverse order of removal.

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IPOD ADAPTER

< REMOVAL AND INSTALLATION >

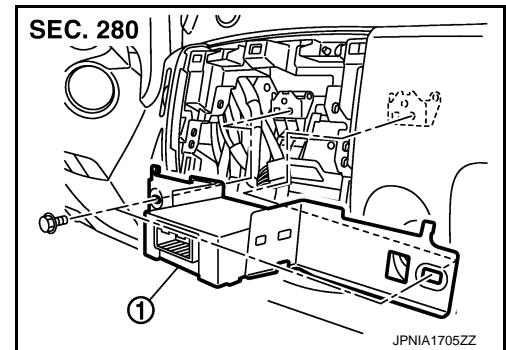
[AUDIO SYSTEM]

IPOD ADAPTER

Exploded View

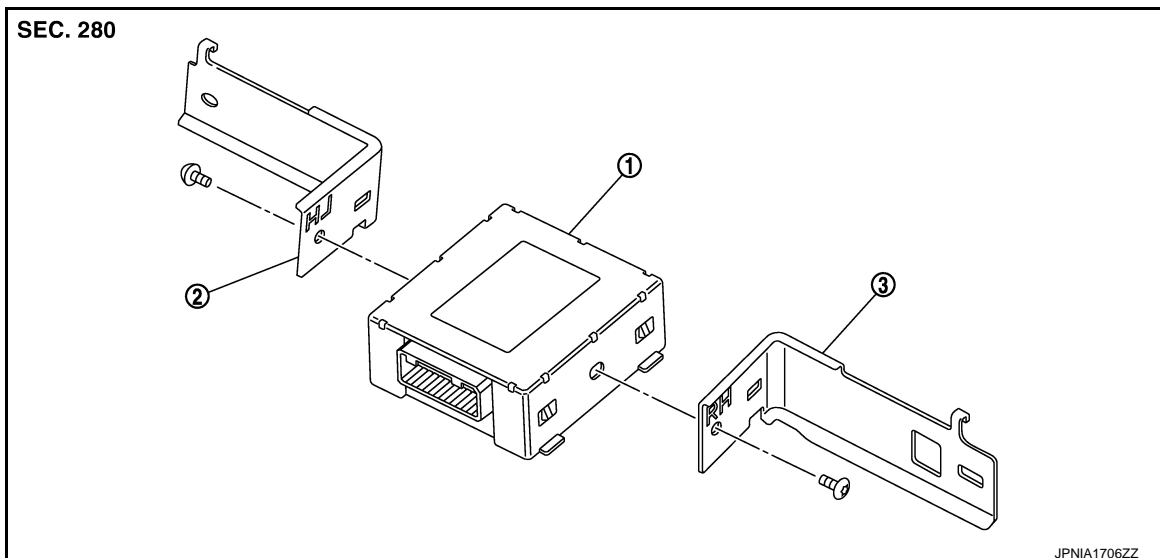
INFOID:000000005096980

REMOVAL



1. iPod adapter

DISASSEMBLY



1. iPod adapter

2. Bracket LH

3. Bracket RH

Removal and Installation

INFOID:000000005096981

REMOVAL

1. Remove A/C finisher. Refer to [IP-12. "Exploded View"](#).
2. Remove iPod adapter connector and screws to remove iPod adapter.

INSTALLATION

Install in the reverse order of removal.

IPOD CONNECTOR

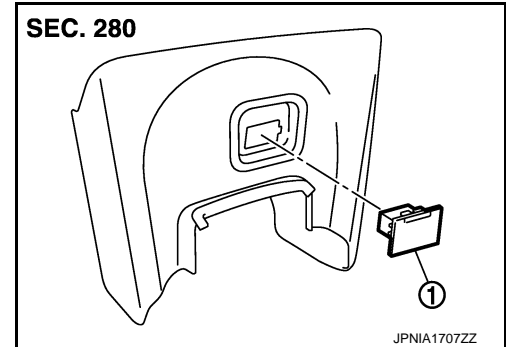
Exploded View

INFOID:000000005096982

REMOVAL

Refer to [IP-12, "Exploded View"](#).

DISASSEMBLY



1. iPod connector

Removal and Installation

INFOID:000000005096983

REMOVAL

1. Remove instrument lower cover. Refer to [IP-12, "Exploded View"](#).
2. Push the pawl from the back of instrument lower cover to remove iPod connector.

INSTALLATION

Install in the reverse order of removal.

A
B
C
D
E
F
G
H
I
J
K
L
M
O
P

AV

ANTENNA FEEDER

< REMOVAL AND INSTALLATION >

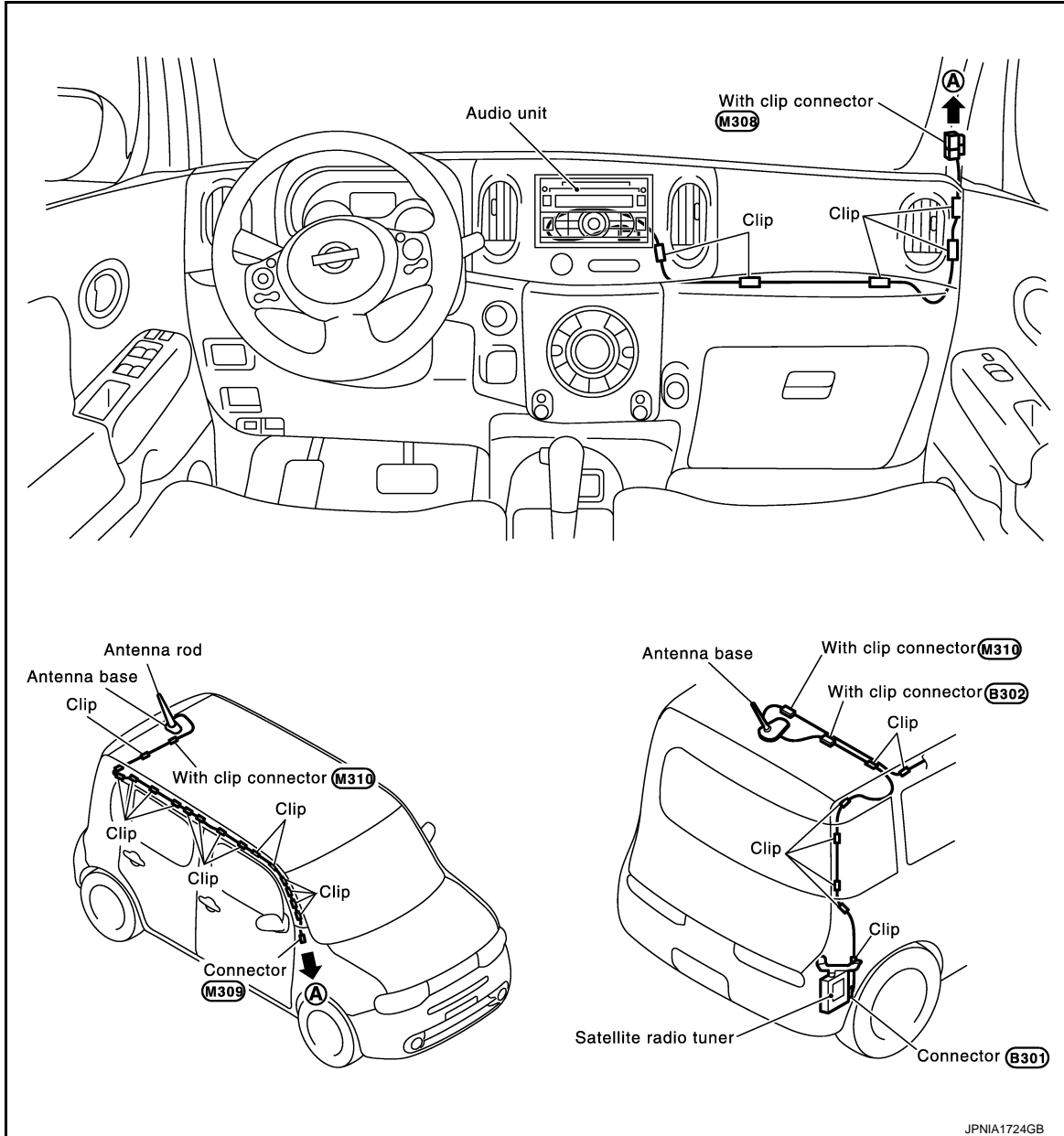
[AUDIO SYSTEM]

ANTENNA FEEDER

MODELS WITH SATELLITE RADIO SYSTEM

MODELS WITH SATELLITE RADIO SYSTEM : Harness Layout

INFOID:000000004940293



MODELS WITHOUT SATELLITE RADIO SYSTEM

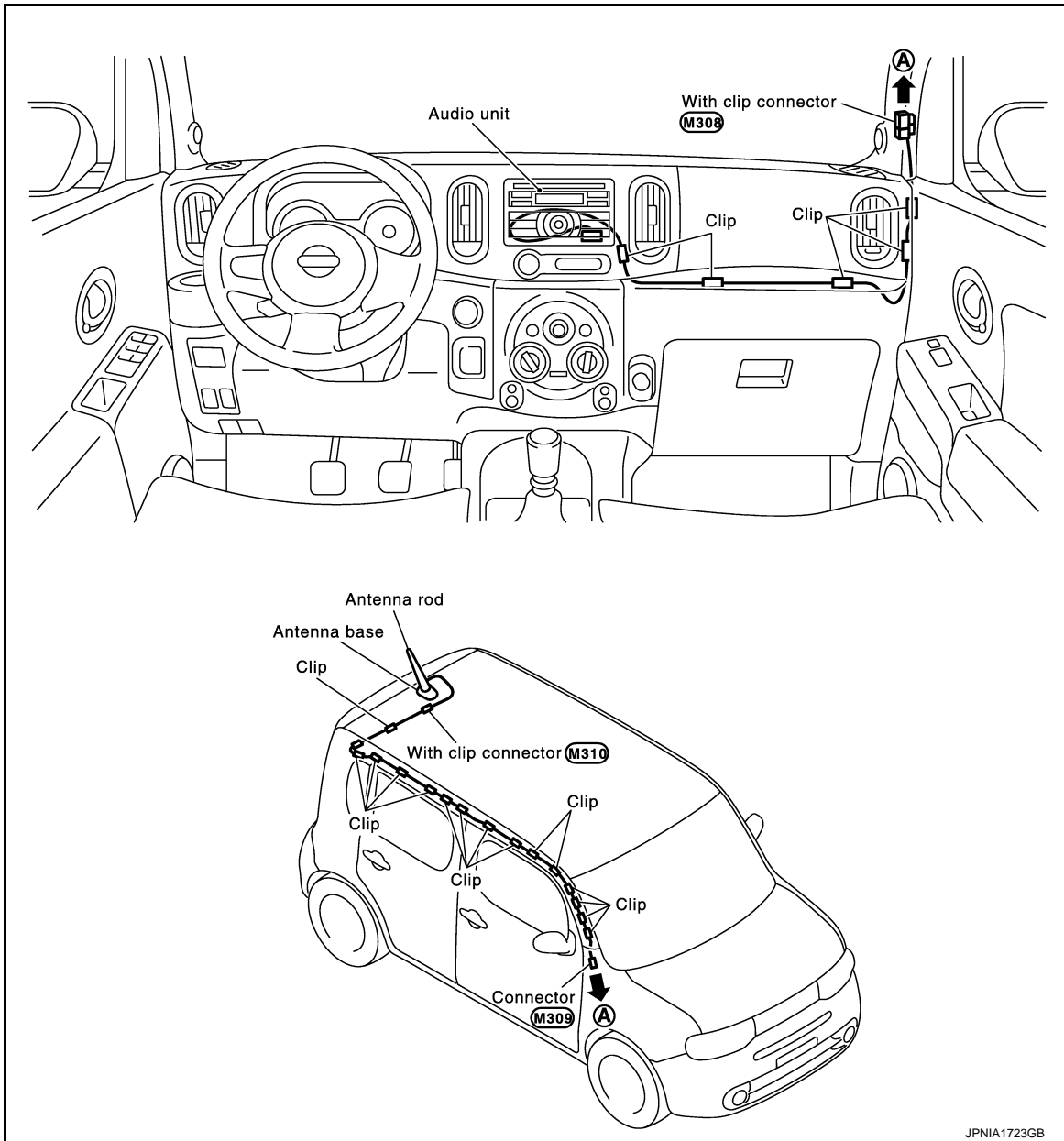
ANTENNA FEEDER

< REMOVAL AND INSTALLATION >

[AUDIO SYSTEM]

MODELS WITHOUT SATELLITE RADIO SYSTEM : Harness Layout

INFOID:000000005096212



A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

AV