

SECTION AV

AUDIO, VISUAL & NAVIGATION SYSTEM

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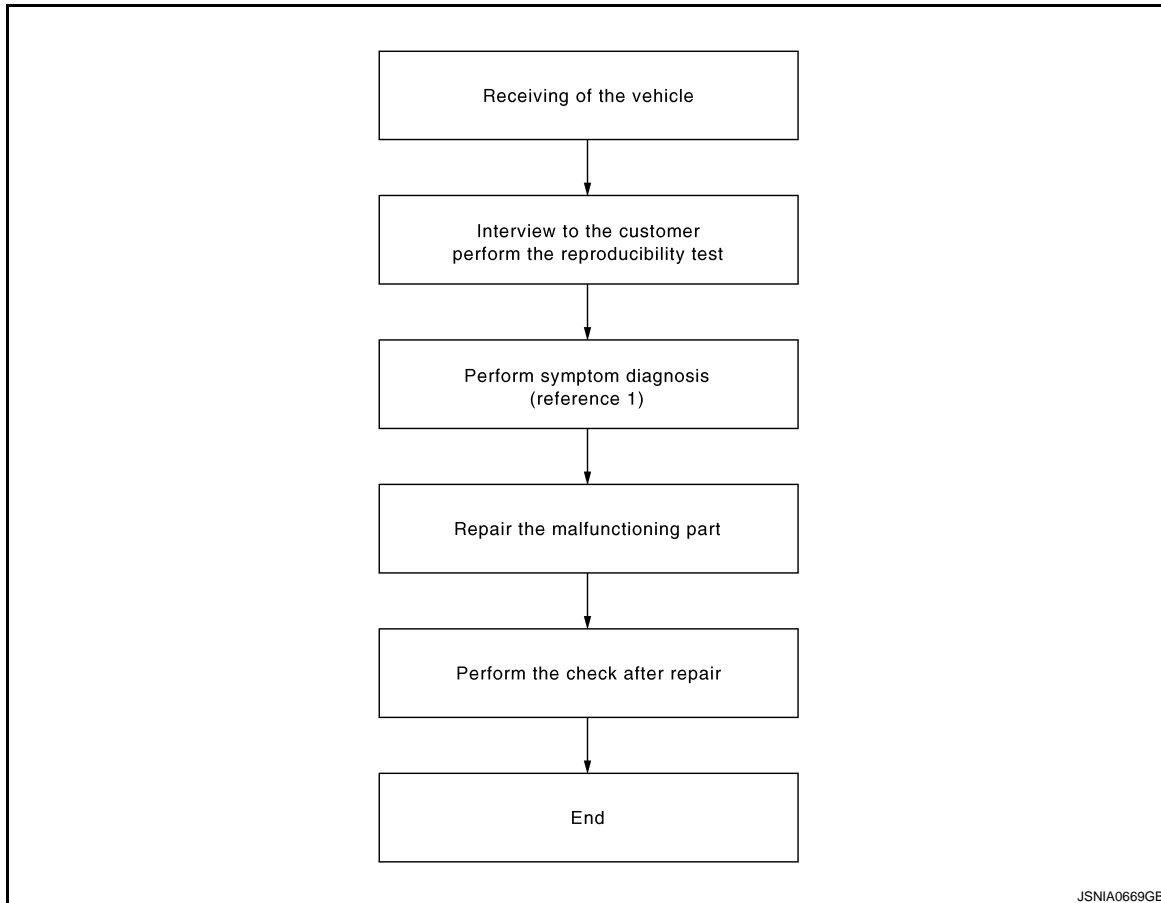
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000005806240

OVERALL SEQUENCE



Reference 1...Refer to [AV-75, "Symptom Table"](#) (audio system) or [AV-77, "Symptom Table"](#) (hands-free phone system).

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-75, "Symptom Table"](#) (audio system) or [AV-77, "Symptom Table"](#) (hands-free phone system).

>> 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

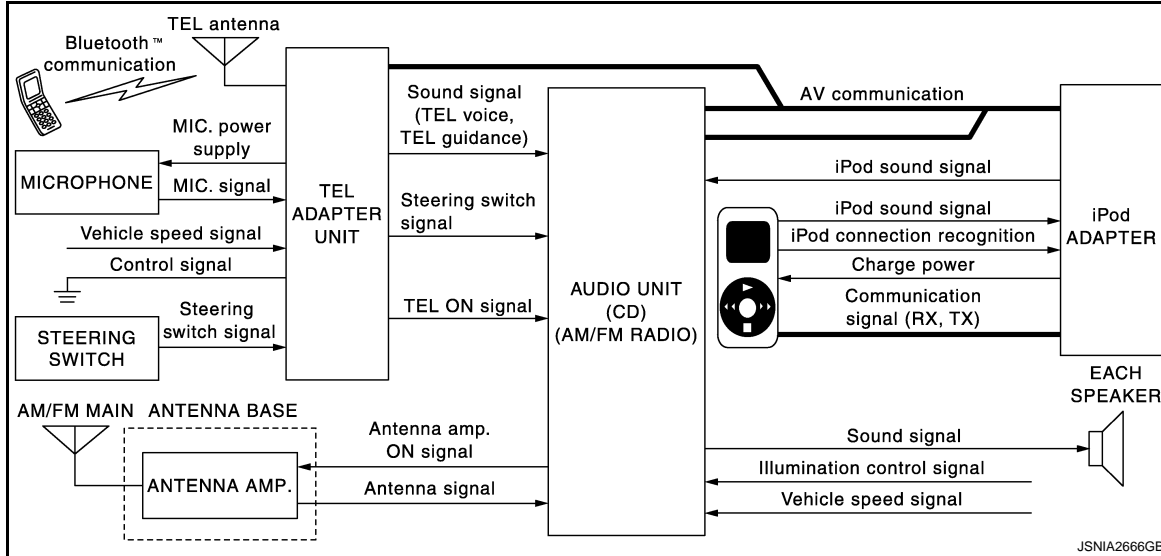
SYSTEM DESCRIPTION

AUDIO SYSTEM

System Diagram

INFOID:000000005490495

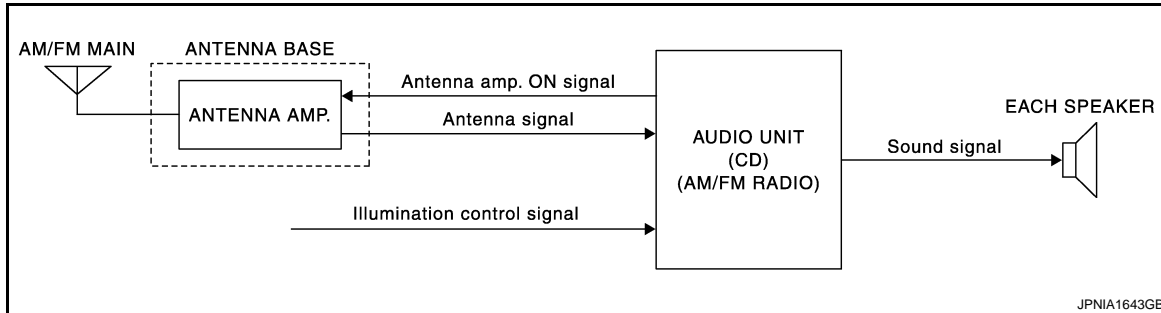
MODELS WITH iPod® CONNECTION FUNCTION AND HANDS-FREE PHONE SYSTEM



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:000000005490496

AUDIO SYSTEM

Audio functions

×: Applicable

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

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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

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 the they are input to audio unit. (Antenna amp. is built into antenna base.)
- Audio unit outputs the sound signal to each speaker.

CD Mode

- CD function is built into audio unit.
- Audio unit outputs sound signal to each speaker when CD is inserted to audio unit.

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.

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.

Speed Sensitive Volume

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

Hands-free phone system

For further information about the hands-free phone system, refer to [AV-11, "System Description"](#).

Component Parts Location

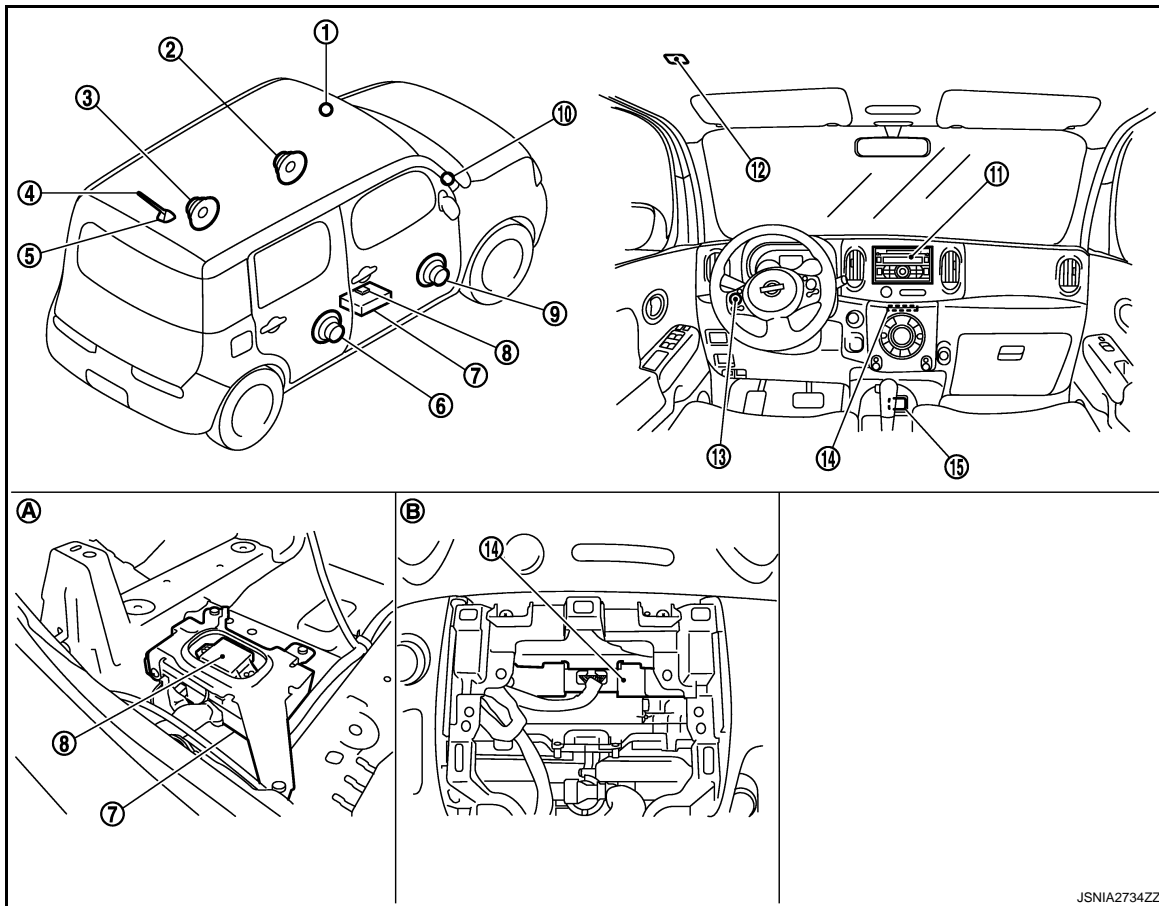
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MODELS WITH iPod® CONNECTION FUNCTION

AUDIO SYSTEM

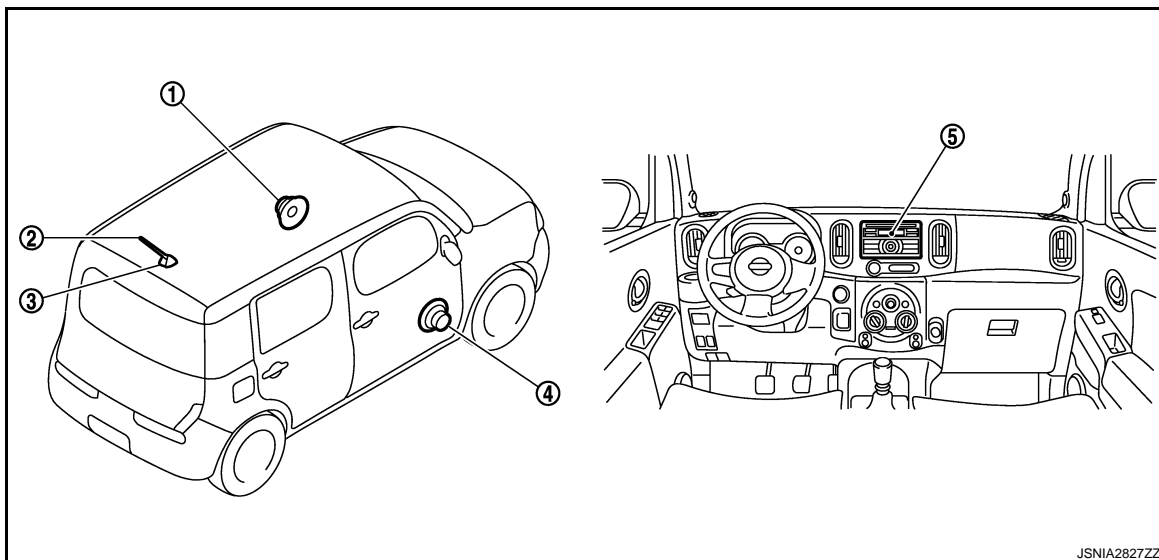
< SYSTEM DESCRIPTION >

[AUDIO SYSTEM]



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

MODELS WITHOUT iPod® CONNECTION FUNCTION



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AUDIO SYSTEM

< SYSTEM DESCRIPTION >

[AUDIO SYSTEM]

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

Component Description

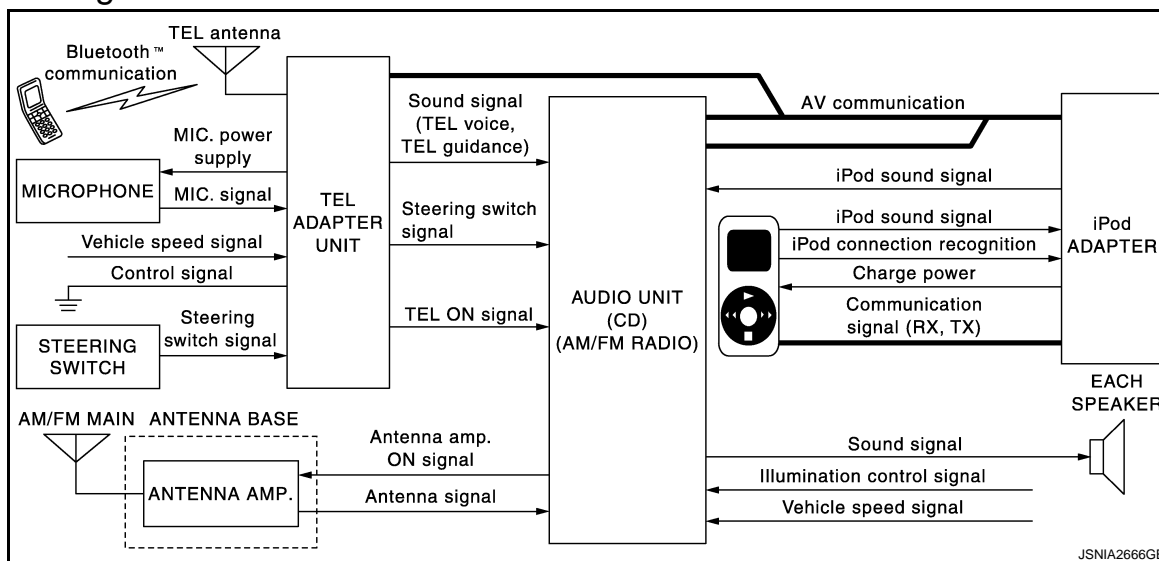
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Part name	Description	
Audio unit	Models with iPod® connection function and hands-free phone system	Controls audio system and hands-free phone system functions.
	Except for above.	Controls audio system function.
Steering switch	<ul style="list-style-type: none">• Operation for audio and hands-free phone are possible.• Steering switch signal (operation signal) is output to TEL adapter unit.• Steering switch signal (operation signal) is output to audio unit through TEL adapter 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.	
Antenna base	<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.	
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:<ul style="list-style-type: none">- between audio unit and iPod adapter: AV communication.- between iPod® and iPod adapter: serial communication.	
TEL adapter unit	<ul style="list-style-type: none">• Inputs the steering switch signal (operation signal) from the steering switch.• Outputs the steering switch signal (operation signal) to 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.	

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

HANDS-FREE PHONE SYSTEM

System Diagram

**NOTE:**

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

System Description

- 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-18, "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.

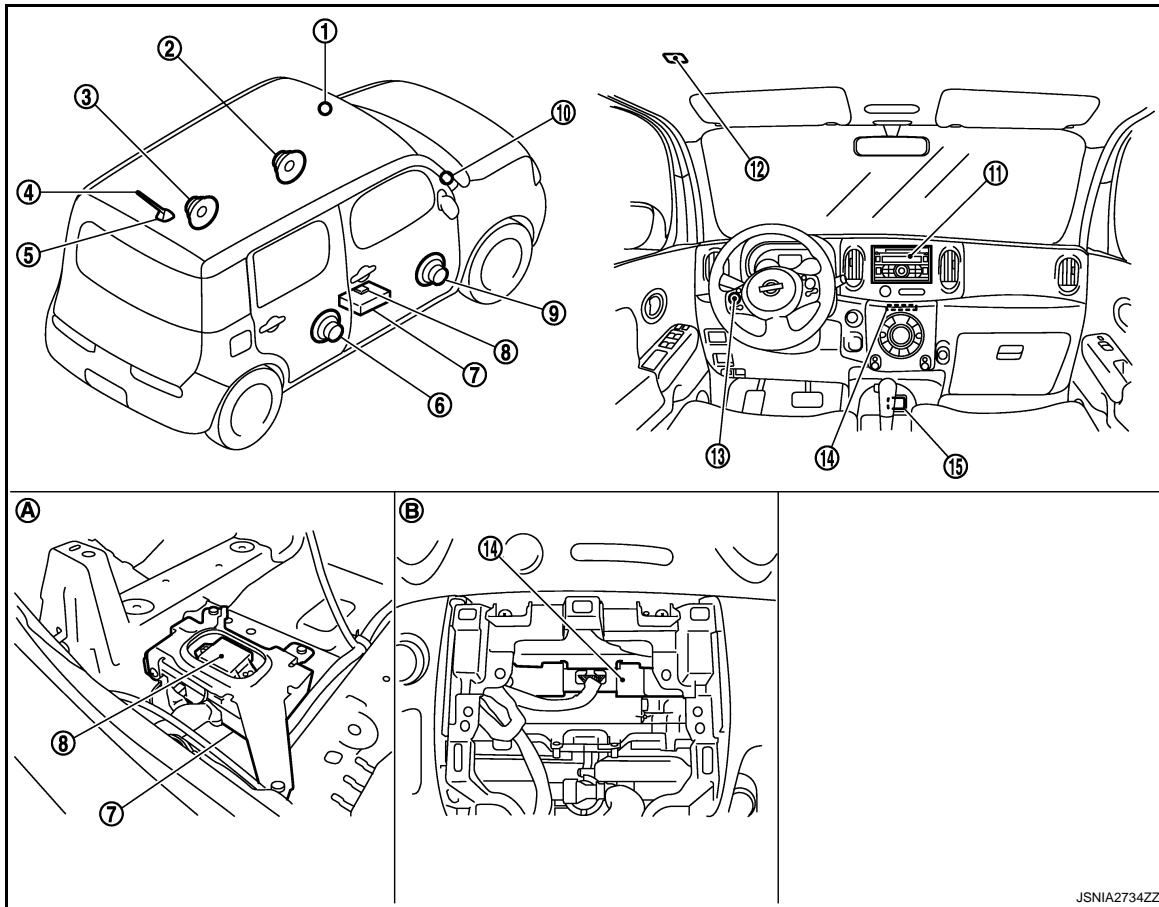
HANDS-FREE PHONE SYSTEM

< SYSTEM DESCRIPTION >

[AUDIO SYSTEM]

Component Parts Location

INFOID:000000005796997



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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.) | 6. Rear door speaker RH |
| 7. TEL adapter unit | 8. TEL antenna | 9. Front door speaker RH |
| 10. Tweeter RH | 11. Audio unit | 12. Microphone |
| 13. Steering switch | 14. iPod adapter | 15. iPod connector |
| A. Floor spacer removed condition | B. A/C finisher removed condition | |

Component Description

INFOID:000000005735291

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 through 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 Steering switch signal (operation signal) is output to audio unit through TEL adapter unit.
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 VCC) is supplied from the TEL adapter unit.

HANDS-FREE PHONE SYSTEM

< SYSTEM DESCRIPTION >

[AUDIO SYSTEM]

Part name	Description
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.

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DIAGNOSIS SYSTEM (AUDIO UNIT)

MODELS WITH iPod® CONNECTION FUNCTION

MODELS WITH iPod® CONNECTION FUNCTION : Diagnosis Description INFOID:000000005490503

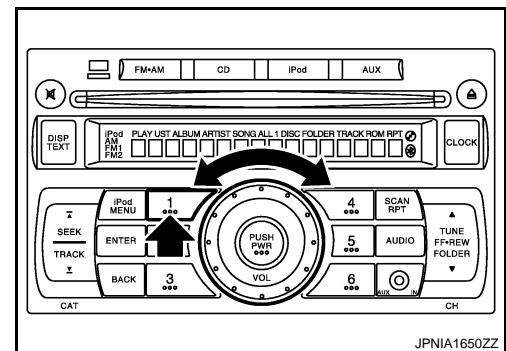
AUDIO UNIT SELF-DIAGNOSIS FUNCTION

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

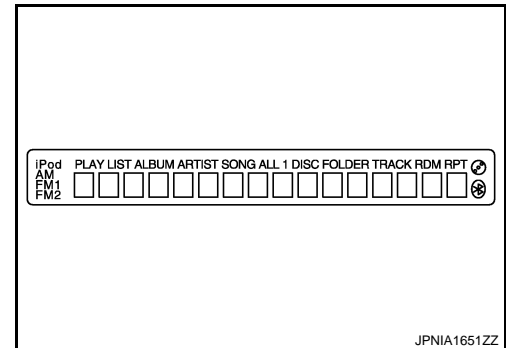
Operation Procedure

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.



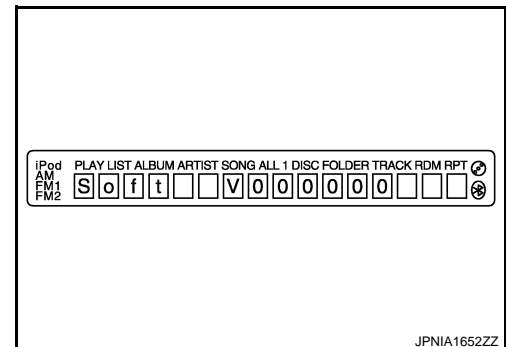
JPNIA1650ZZ

4. Initially, all display segments will be illuminated.



JPNIA1651ZZ

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



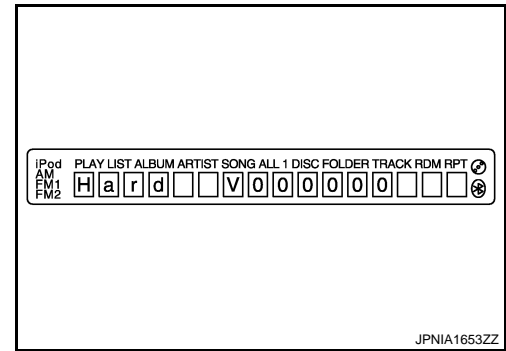
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DIAGNOSIS SYSTEM (AUDIO UNIT)

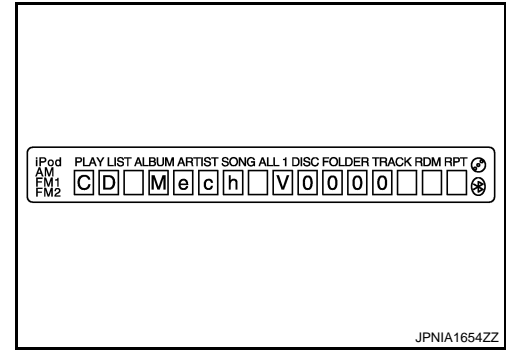
< SYSTEM DESCRIPTION >

[AUDIO SYSTEM]

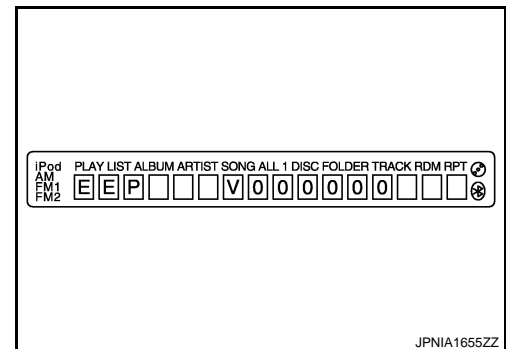
- Press the "DISP TEXT" switch again to display the "Hard" (audio hardware version).



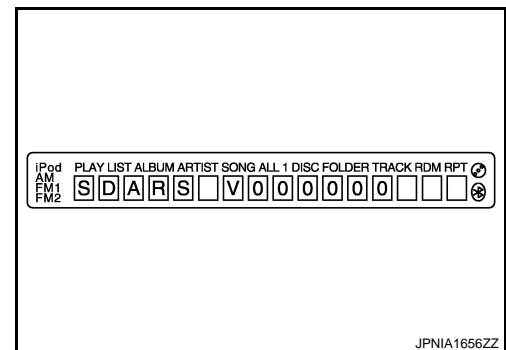
- Press the "DISP TEXT" switch again to display the "CD Mech" (CD mechanism version).



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



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



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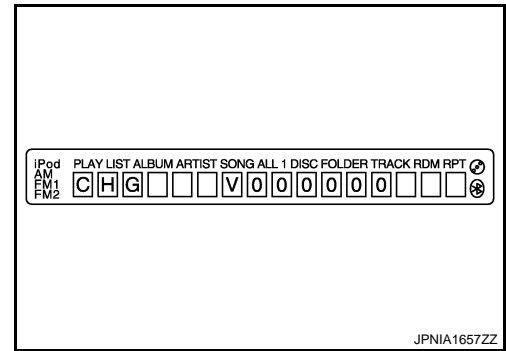
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DIAGNOSIS SYSTEM (AUDIO UNIT)

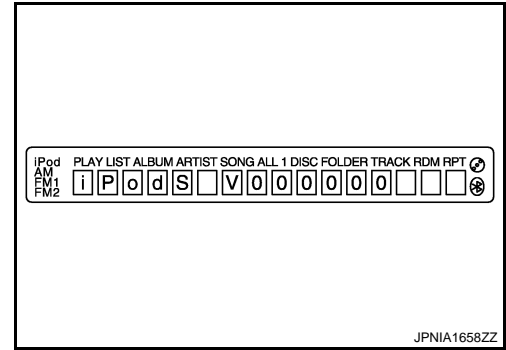
[AUDIO SYSTEM]

< SYSTEM DESCRIPTION >

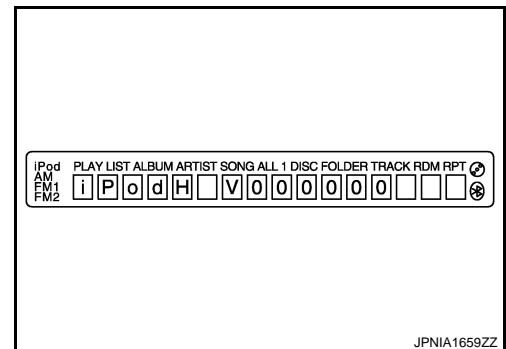
10. Press the "DISP TEXT" switch again to display the "CHG" (audio CD changer version). If audio CD changer is not connected, "FFFFFF" is displayed.



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.



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.



Finishing Self-diagnosis Mode

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

MODELS WITHOUT iPod® CONNECTION FUNCTION

MODELS WITHOUT iPod® CONNECTION FUNCTION : Diagnosis Description

INFOID:000000005490504

Self-diagnosis mode can check the following items.

- Audio unit software version
- Audio CD changer version

OPERATION PROCEDURE

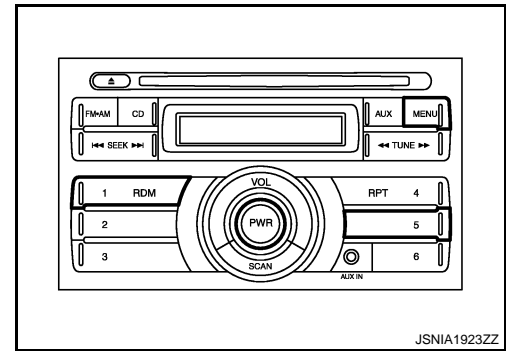
1. Turn ignition switch to the ON position.
2. Turn the audio unit off.

DIAGNOSIS SYSTEM (AUDIO UNIT)

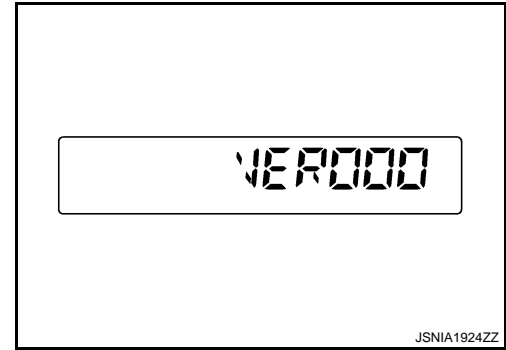
< SYSTEM DESCRIPTION >

[AUDIO SYSTEM]

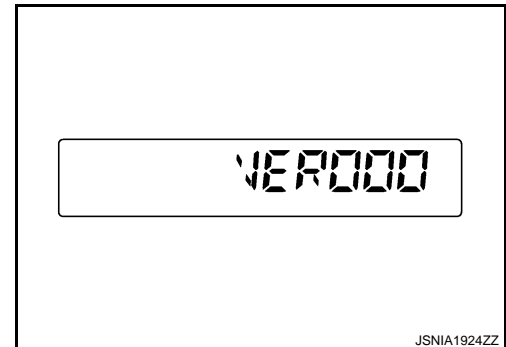
3. Press "PWR" button while pressing "MENU", "1" and "5" buttons. When the self-diagnosis mode is started, a short beep will be heard.



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.

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DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

Diagnosis Description

INFOID:000000005792591

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.

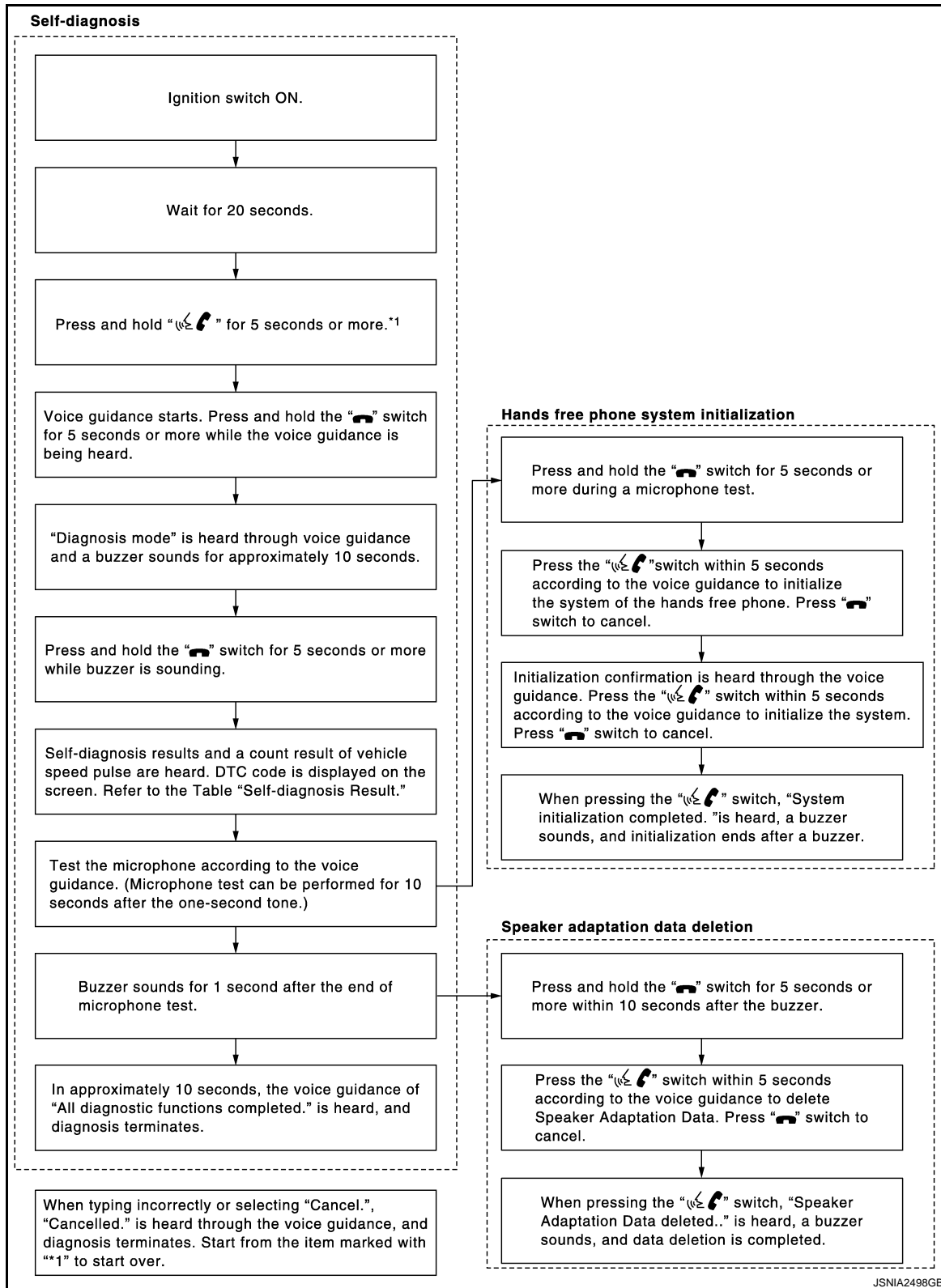
Self-diagnosis results

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.

FLOW CHART OF TROUBLE DIAGNOSIS



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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:000000005797813

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:000000005799746

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.

TEL ADAPTER UNIT

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

TEL ADAPTER UNIT : Diagnosis Procedure

INFOID:000000005797815

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

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

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.

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 TEL ADAPTER UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

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

Description

INFOID:000000005797816

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

Diagnosis Procedure

INFOID:000000005797817

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

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

TEL adapter unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
B54	12	M33	24	Existed

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

TEL adapter unit		Ground	Continuity
Connector	Terminal		
B54	12		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 TEL ADAPTER UNIT VOLTAGE

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

(+)		(-)		Voltage (Approx.)
TEL adapter unit				
Connector	Terminal	Connector	Terminal	
B54	12	B54	14	5.0 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace TEL adapter unit. Refer to [AV-89, "Exploded View"](#).

4.CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-23, "Component Inspection"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch. Refer to [ST-9, "Exploded View"](#).

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

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

Component Inspection

INFOID:000000005797818


Measure the resistance between the steering switch connector terminals 14 to 17 and 15 to 17.

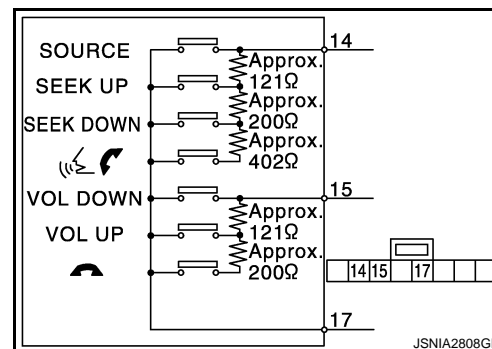
Standard

Between terminals 14 and 17

 switch ON	: Approx. 709 – 737 Ω
SEEK DOWN switch ON	: Approx. 315 – 327 Ω
SEEK UP switch ON	: Approx. 119 – 123 Ω
SOURCE switch ON	: Approx. 0 Ω

Between terminals 15 and 17

 switch ON	: Approx. 315 – 327 Ω
VOL UP switch ON	: Approx. 119 – 123 Ω
VOL DOWN switch ON	: Approx. 0 Ω



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

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

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

Description

INFOID:000000005797819

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

Diagnosis Procedure

INFOID:000000005797820

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

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

TEL adapter unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
B54	13	M33	31	Existed

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

TEL adapter unit		Ground	Continuity
Connector	Terminal		
B54	13		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 TEL ADAPTER UNIT VOLTAGE

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

(+)		(-)		Voltage (Approx.)
TEL adapter unit				
Connector	Terminal	Connector	Terminal	
B54	13	B54	14	5.0 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace TEL adapter unit. Refer to [AV-89, "Exploded View"](#).

4.CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-25, "Component Inspection"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch. Refer to [ST-9, "Exploded View"](#).

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

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

Component Inspection

INFOID:000000005797821

Measure the resistance between the steering switch connector terminals 14 to 17 and 15 to 17.

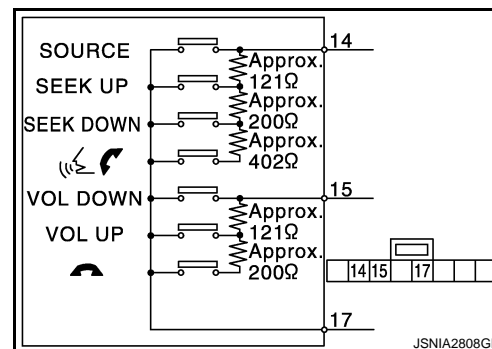
Standard

Between terminals 14 and 17

 switch ON	: Approx. 709 – 737 Ω
SEEK DOWN switch ON	: Approx. 315 – 327 Ω
SEEK UP switch ON	: Approx. 119 – 123 Ω
SOURCE switch ON	: Approx. 0 Ω

Between terminals 15 and 17

 switch ON	: Approx. 315 – 327 Ω
VOL UP switch ON	: Approx. 119 – 123 Ω
VOL DOWN switch ON	: Approx. 0 Ω



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

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

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

Description

INFOID:000000005797822

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

Diagnosis Procedure

INFOID:000000005797823

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

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

TEL adapter unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
B54	14	M33	33	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 GROUND CIRCUIT

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

TEL adapter unit		Ground	Continuity
Connector	Terminal		
B54	14		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace TEL adapter unit. Refer to [AV-89, "Exploded View"](#)

4.CHECK STEERING SWITCH

Check steering switch. Refer to [AV-26, "Component Inspection"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch. Refer to [ST-9, "Exploded View"](#)

Component Inspection

INFOID:000000005797824

Measure the resistance between the steering switch connector terminals 14 to 17 and 15 to 17.

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

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

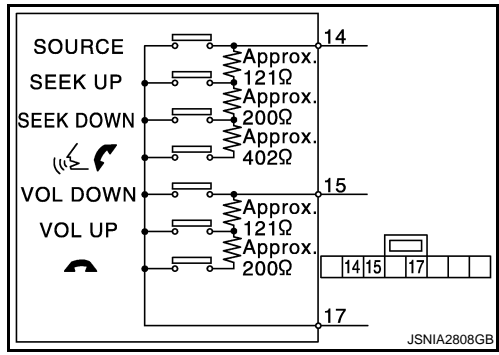
Standard

Between terminals 14 and 17

 switch ON	: Approx. 709 – 737 Ω
SEEK DOWN switch ON	: Approx. 315 – 327 Ω
SEEK UP switch ON	: Approx. 119 – 123 Ω
SOURCE switch ON	: Approx. 0 Ω

Between terminals 15 and 17

 switch ON	: Approx. 315 – 327 Ω
VOL UP switch ON	: Approx. 119 – 123 Ω
VOL DOWN switch ON	: Approx. 0 Ω



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

< DTC/CIRCUIT DIAGNOSIS > [AUDIO SYSTEM]

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

Description

INFOID:000000005797825

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

Diagnosis Procedure

INFOID:000000005797826

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

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	
M46	6	B54	17	Existed

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

Audio unit		Ground	Continuity
Connector	Terminal		
M46	6		Not existed

Is 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 terminals.

(+) (+)		(-) (-)		Voltage (Approx.)
Audio unit				
Connector	Terminal	Connector	Terminal	
M46	6	M46	15	3.3 V

Is inspection result normal?

- YES >> Replace TEL adapter unit. Refer to [AV-89, "Exploded View"](#).
NO >> Replace audio unit. Refer to [AV-84, "Exploded View"](#).

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

< DTC/CIRCUIT DIAGNOSIS > [AUDIO SYSTEM]

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

Description

INFOID:000000005797827

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

Diagnosis Procedure

INFOID:000000005797828

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

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	
M46	16	B54	18	Existed

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

Audio unit		Ground	Continuity
Connector	Terminal		
M46	16		Not existed

Is 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 terminals.

(+)		(-)		Voltage (Approx.)
Audio unit				
Connector	Terminal	Connector	Terminal	
M46	16	M46	15	3.3 V

Is inspection result normal?

YES >> Replace TEL adapter unit. Refer to [AV-89, "Exploded View"](#).

NO >> Replace audio unit. Refer to [AV-84, "Exploded View"](#).

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

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

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

Description

INFOID:000000005797829

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

Diagnosis Procedure

INFOID:000000005797830

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

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	
M46	15	B54	19	Existed

Is 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		
M46	15		Existed

Is inspection result normal?

YES >> Replace TEL adapter unit. Refer to [AV-89, "Exploded View"](#).

NO >> Replace audio unit. Refer to [AV-84, "Exploded View"](#).

MICROPHONE SIGNAL CIRCUIT

Description

INFOID:000000005797837

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

Diagnosis Procedure

INFOID:000000005797838

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. Refer to [AV-89, "Exploded View"](#).

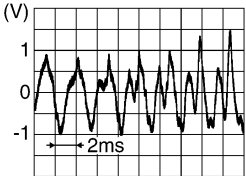
3.CHECK MICROPHONE SIGNAL

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.	 <p>SKIB3609E</p>

Is inspection result OK?

YES >> INSPECTION END

NO >> Replace microphone. Refer to [AV-90, "Exploded View"](#).

TELEPHONE ON SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[AUDIO SYSTEM]

TELEPHONE ON SIGNAL CIRCUIT

Description

INFOID:000000005797840

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

Diagnosis Procedure

INFOID:000000005797841

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. Refer to [AV-84. "Exploded View"](#).

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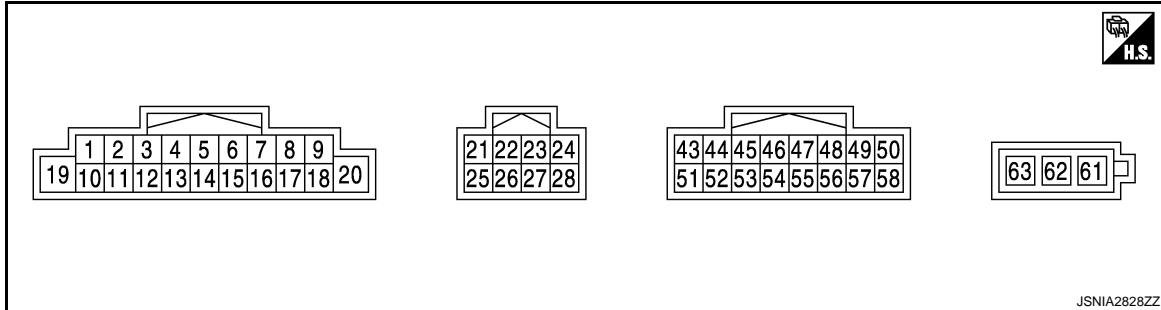
ECU DIAGNOSIS INFORMATION

AUDIO UNIT

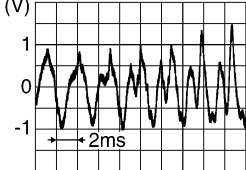
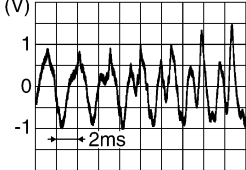
Reference Value

INFOID:000000005490535

TERMINAL LAYOUT



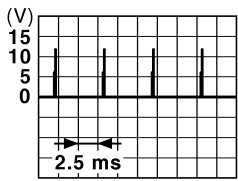
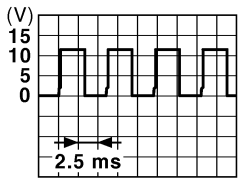
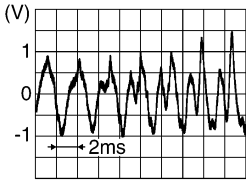
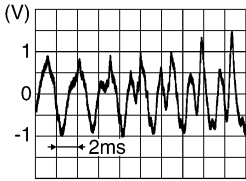
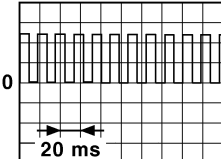
PHYSICAL VALUES

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	 SKIB3609E
4 (V)	5 (R/B)	Sound signal rear speaker LH	Output	Ignition switch ON	Sound output	 SKIB3609E
6 (W/G)	15 (L/B)	Steering switch signal A	Input	Ignition switch ON	Keep pressing SOURCE switch	0 V
					Keep pressing SEEK UP switch	0.9 V
					Keep pressing SEEK DOWN switch	1.6 V
					Except for above	3.3 V
7 (L/Y)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage

AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

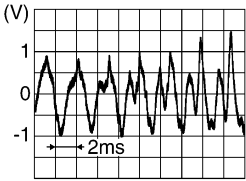
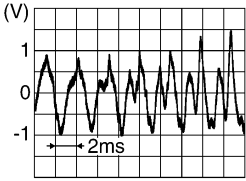

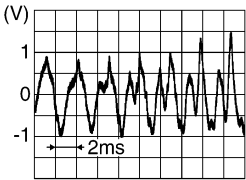
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
9 (W)	8 (B/R)	Illumination control signal	Input	Ignition switch OFF	<ul style="list-style-type: none"> Lighting switch 1ST When meter illumination is maximum 	 <p>JPNIA1687GB</p>
					<ul style="list-style-type: none"> Lighting switch 1ST When meter illumination is step 11 	 <p>JPNIA1686GB</p>
					<ul style="list-style-type: none"> Lighting switch 1ST When meter illumination is minimum 	12.0 V
11 (G)	12 (R)	Sound signal front speaker RH	Output	Ignition switch ON	Sound output	 <p>SKIB3609E</p>
13 (LG)	14 (GR)	Sound signal rear speaker RH	Output	Ignition switch ON	Sound output	 <p>SKIB3609E</p>
16 (GR/R)	15 (L/B)	Steering switch signal B	Input	Ignition switch ON	Keep pressing VOL DOWN switch	0 V
					Keep pressing VOL UP switch	0.9 V
					Except for above	3.3 V
18 (L)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is ap- prox. 40 km/h (25 MPH)	<p>NOTE: The maximum voltage varies de- pending on the specification (destination unit).</p>  <p>JSNIA0012GB</p>
19 (L)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage

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AUDIO UNIT

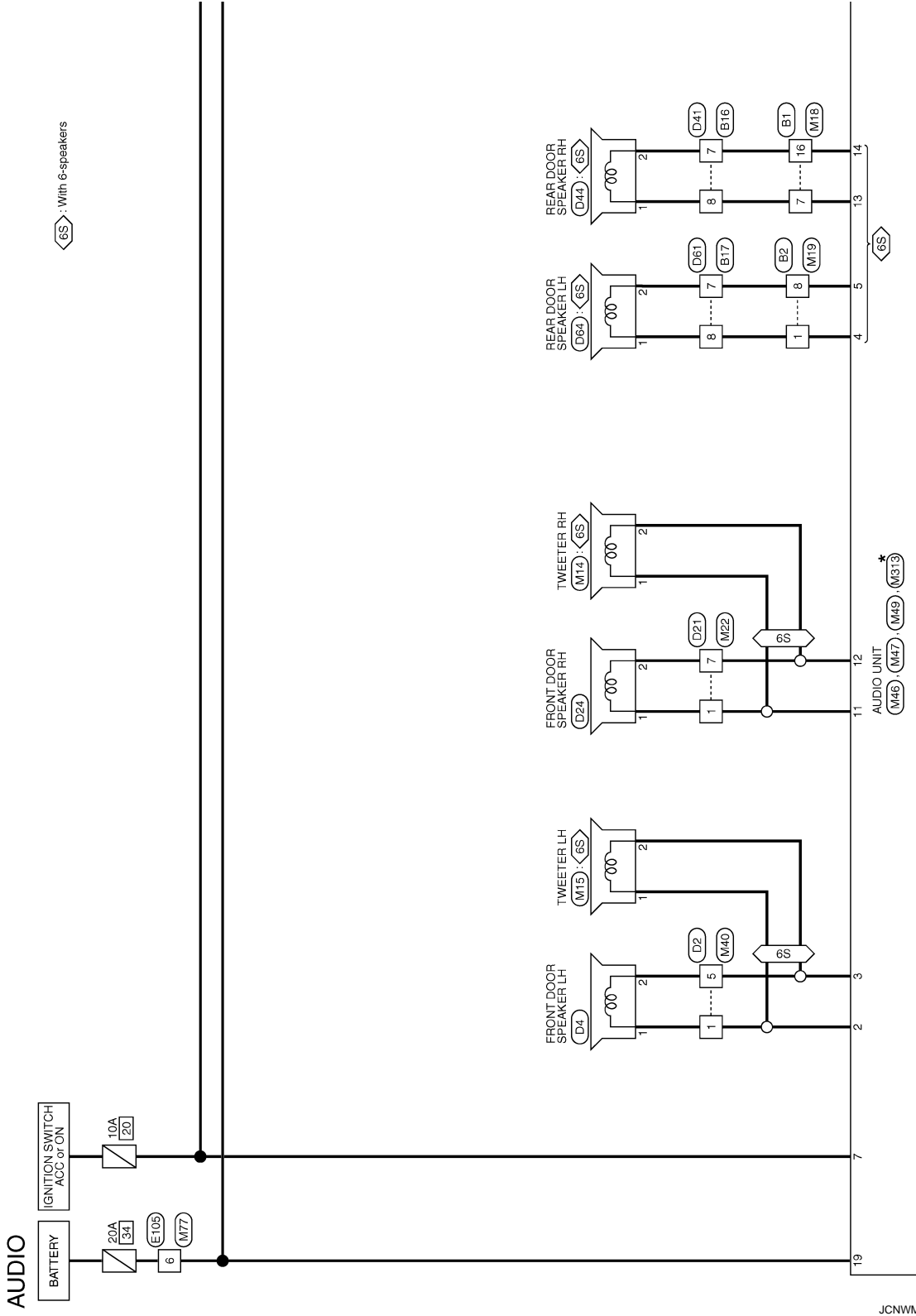
< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	—	Signal name	Input/ Output			
21 (R)	25 (W)	iPod sound signal LH	Input	Ignition switch ON	When iPod mode is select- ed	 SKIB3609E
23 (B)	27 (G)	iPod sound signal RH	Input	Ignition switch ON	When iPod mode is select- ed	 SKIB3609E
28	—	Shield	—	—	—	—
47 (SB)	—	AV communication signal (H)	Input/ Output	—	—	—
48 (SB)	—	AV communication signal (H)	Input/ Output	—	—	—
49 (LG)	—	AV communication signal (L)	Input/ Output	—	—	—
54 (G/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 (LG)	—	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	 SKIB3609E
58	—	Shield	—	—	—	—
61	Ground	Antenna amp. ON signal	Output	Ignition switch ON	—	12.0 V
62	—	AM-FM main	Input	—	—	—

Wiring Diagram - AUDIO -

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

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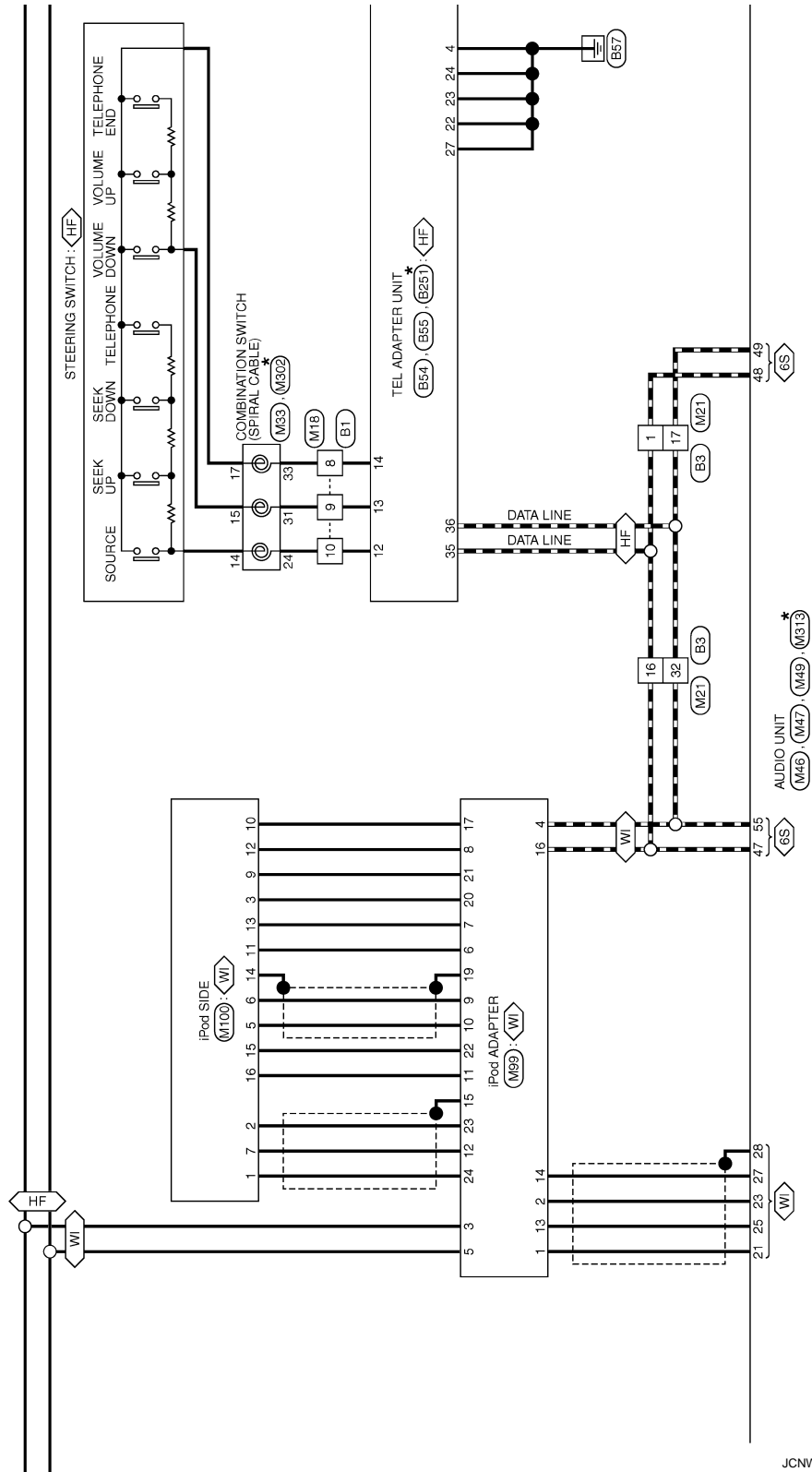
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AUDIO UNIT

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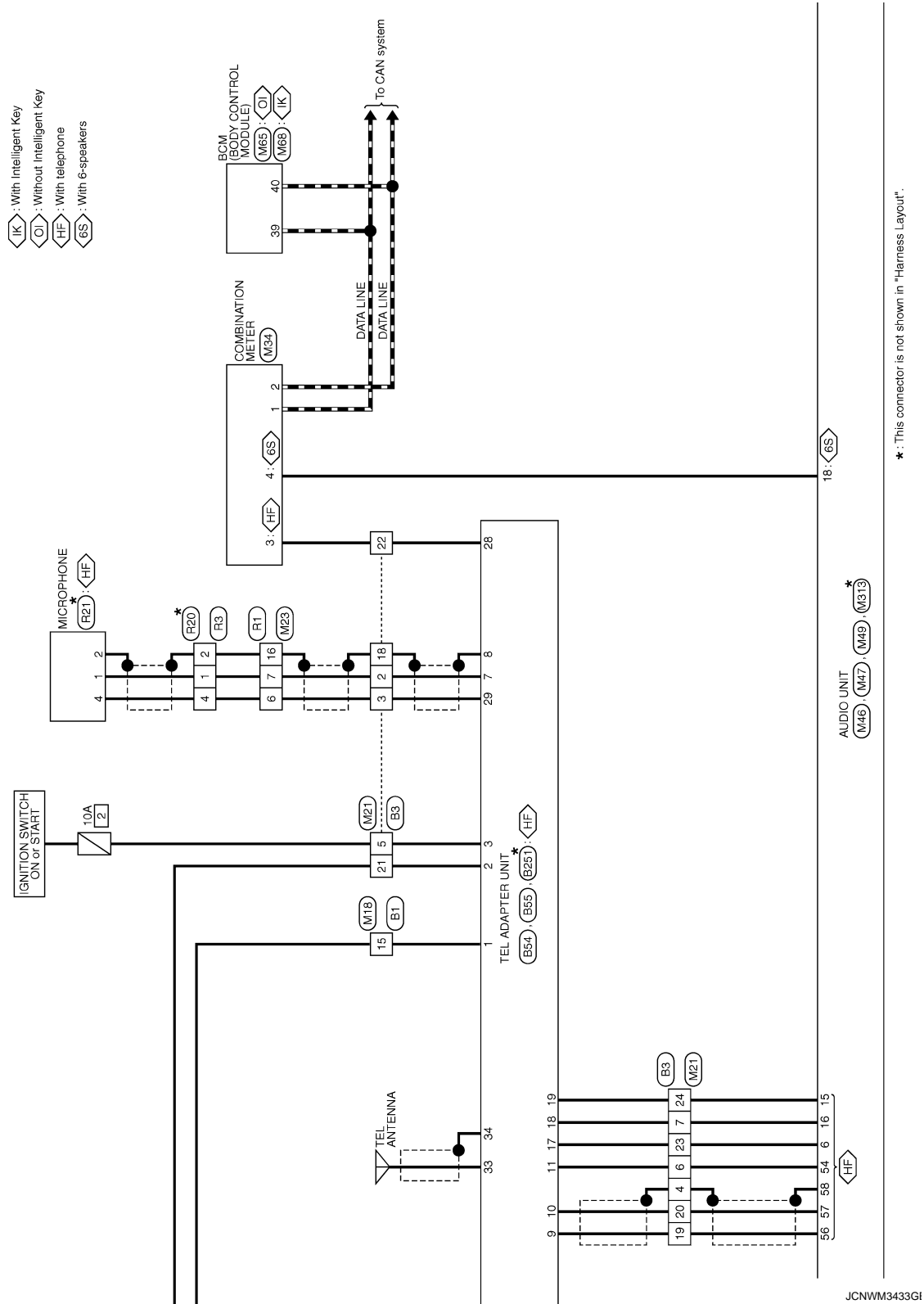
[AUDIO SYSTEM]

WI : With iPod
HF : With telephone
6S : With 6-speakers



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

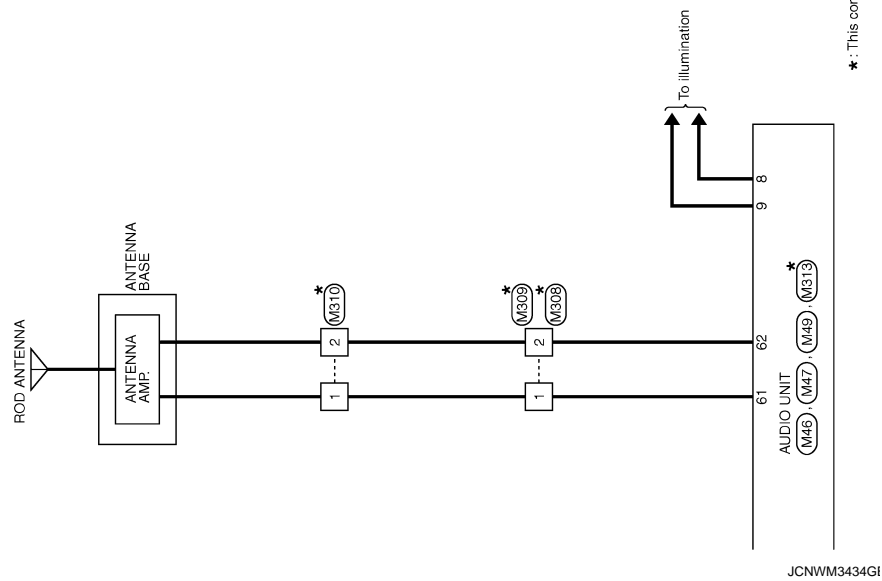
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*: This connector is not shown in "Harness Layout".

AUDIO

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



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	V	-
4	L	-
5	Y	-
6	W	-
7	LG	-
8	GR	-
9	SB	-
10	W	-
11	G	-
12	V	-
13	BR	-
14	SB	-
15	R	-
16	GR	-

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



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
5	O	-
6	R	-
7	L	-
8	L	-
9	G	-
10	V	-

11	P	-
12	LG	-
14	R	-
15	Y	-
16	B	-

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	L	-
3	R	-
4	SHIELD	-
5	LG	-
6	SB	-
7	P	-
8	V	-
9	SHIELD	-
10	R	-
11	SHIELD	-
12	G	-
13	SHIELD	-
14	G	-
15	SB	-
16	SB	-
17	LG	-
18	SHIELD	-
19	BR	-
20	Y	-
21	L	-
22	O	-
23	GR	-
24	L	-
25	W	-
26	B	-
27	R	-
28	B	-
29	W	-
30	R	-
31	LG	-

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



4	3	2	1
10	9	8	7
6	5		

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	L	-
5	G	-
7	GR	-
8	LG	-
9	W	-
10	Y	-

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



4	3	2	1
10	9	8	7
6	5		

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	L	-
5	G	-
7	L	-
8	V	-
9	R	-
10	O	-

Connector No.	B54
Connector Name	TEL ADAPTER UNIT
Connector Type	TH32FW-NH



2	4	8	10	12	14	18	20	22	24	28
1	3	7	9	11	13	17	19	21	23	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 SIGNAL GND
9	BR	SOUND SIGNAL (*)
10	Y	SOUND SIGNAL (*)
11	SB	TEL ON SIGNAL
12	W	STRG SW A
13	SB	STRG SW B
14	GR	STRG SW GND
17	GR	STRG SW A
18	P	STRG SW B
19	L	STRG SW GND
20	B	CONTROL SIGNAL
21	B	CONTROL SIGNAL
22	B	CONTROL SIGNAL
23	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
27	B	CONTROL SIGNAL
28	O	VEHICLE SPEED (2-PULSE)
29	R	MICROPHONE VCC

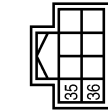
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AUDIO

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



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

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

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



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

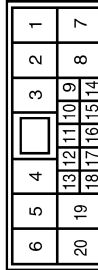
3	R	-
4	G	-
5	P	-
6	SB	-
8	GR	-
9	BR	-
10	B	-

Connector No.	D4
Connector Name	FRONT DOOR SPEAKER LH
Connector Type	NS10FW-CS



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

Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	Y	-
4	B	-
5	L	-
6	SB	-
7	R	-
8	V	-
9	R	-
10	W	-
11	L	-
12	LG	-

13	P	-
14	B	-
15	G	-
16	GR	-
17	BR	-
18	V	-
20	W	-

Connector No.	D24
Connector Name	FRONT DOOR SPEAKER RH
Connector Type	NS10FW-CS



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

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
4	L	-
5	P	-
7	GR	-
8	LG	-
9	BR	-
10	O	-

Connector No.	D44
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS10FW-CS



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

Connector No.	D61
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	L	-
5	G	-
7	GR	-
8	LG	-
9	BR	-
10	O	-

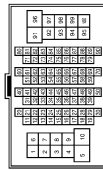
AUDIO

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	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	W	-
3	SB	-
4	G	-
5	P	-
6	R	-
7	Y	-
8	O	-
9	W	-
10	SB	-
31	V	-
32	R	-
33	GR	-
34	P	-
35	Y	-
36	BR	-
39	SB	-
44	R	-
45	V	-
46	P	-

47	W	-
48	L	-
49	Y	-
50	W	-
51	BR	- [With CVT]
53	SB	- [With M/T]
54	W	- [With CVT]
55	O	- [With M/T]
57	LG	-
59	L	-
60	O	-
61	G	-
62	W	-
63	L	-
67	GR	- [With CVT]
67	V	- [With M/T]
69	P	-
70	SHIELD	-
71	GR	-
72	LG	-
73	P	-
74	V	-
76	Y	-
77	LG	-
78	O	-
79	G	-
80	P	-
81	L	-
82	W	-
83	BR	-
84	B	-
87	GR	-
91	W	-
92	Y	-
93	Y	-
94	R	-
95	V	-
96	LG	-
97	R	-
98	SB	-
99	G	-
100	P	-

Connector No.	M14
Connector Name	TWEEETER RH
Connector Type	TK02FBR



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

Connector No.	M15
Connector Name	TWEEETER LH
Connector Type	TK02FBR



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	G/R	-
3	L/W	-

4	L	-
5	Y	-
8	L/B	-
7	LG	-
8	L/G	-
9	GR/B	-
10	W/L	-
11	G	-
12	V	-
13	L	-
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	-
5	L/R	-
6	R	-
7	L	-
8	R/B	-
9	G	-
10	V	-
11	L/W	-
12	LG	-
14	R	-
15	Y/R	-
16	B/R	-

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AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	TH22FW-NH

16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
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	-
13	SHIELD	-
14	L	-
15	SB	-
16	SB	-
17	LG	-
18	SHIELD	-
19	BR	-
20	Y	-
21	L/Y	-
22	V	-
23	W/O	-
24	L/B	-
25	G/Y	-
26	G/O	-
27	R	-
28	B	-
29	W	-
30	P	-
31	LG	-
32	LG	-

Connector No.	M22
Connector Name	WIRE TO WIRE
Connector Type	NH10MH-CS10

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	G	-
4	B	-
5	L	-
6	W/R	-
7	R	-
8	V	-
9	G/R	-
10	LG	-
11	R	-
12	G	-
13	BR/Y	-
14	B	-
15	G/B	-
16	GR	-
17	BR	-
18	L/Y	-
20	Y/R	-

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	NS10MH-CS

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

Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
7	G	-
8	L	-
9	BR	-

10	B	-
16	SHIELD	-

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

24	25	26
31	32	33
34		

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

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

20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
38	36	35	34	33	32	31	29	28	27	26	25	24	23	22	21				

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	CAN-L
2	P	CAN-H
3	V	VEHICLE SPEED SIGNAL (2-PULSE)
4	L	VEHICLE SPEED SIGNAL (8-PULSE)
6	BR/Y	FUEL LEVEL SENSOR SIGNAL
7	R/G	AIR BAG SIGNAL
8	P	OVERDRIVE CONTROL SWITCH SIGNAL
9	O	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
10	SB	PARKING BRAKE SWITCH SIGNAL
11	G/R	BRAKE FLUID LEVEL SWITCH SIGNAL
13	B/R	ILLUMINATION CONTROL SIGNAL

15	L/Y	ACC POWER SUPPLY
17	G	WASHER LEVEL SWITCH SIGNAL
18	R/Y	SECURITY SIGNAL
19	V/W	AMBIENT SENSOR SIGNAL
20	R/W	AMBIENT SENSOR GROUND
21	B	GROUND
22	B	GROUND
23	B	GROUND
24	V	FUEL LEVEL SENSOR GROUND
25	B	VDC GROUND
27	LG	BATTERY POWER SUPPLY
28	GR	IGNITION SIGNAL
29	BR	PASSENGER SEAT BELT WARNING SIGNAL
31	R	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
35	BR	ENGINE COOLANT TEMPERATURE SIGNAL
38	GR	ALTERNATOR SIGNAL

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	NS10MH-CS



1	2	3	4
5	6	7	8
9	10		

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	V	-
4	G/R	-
5	P	-
6	L/B	-
8	GR	-
9	BR	-
10	B	-

AUDIO

Connector No.	M46
Connector Name	AUDIO UNIT
Connector Type	TH18PW-CS2



19	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/G	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 (+)
14	GR	SOUND SIGNAL REAR SPEAKER RH (-)
15	L/B	STRG SW GND
16	GR/R	STRG SW B
18	L	VEHICLE SPEED (8-PULSE)
19	L	BATTERY

Connector No.	M47
Connector Name	AUDIO UNIT
Connector Type	TH08PW-NH



21	23
25	27 28

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

Connector No.	M49
Connector Name	AUDIO UNIT
Connector Type	TH18PW-NH



44	45	46	47	48	49
51	52	53	54	55	56 57 58

Terminal No.	Color of Wire	Signal Name [Specification]
47	SB	AV COMM (H)
48	SB	AV COMM (H)
49	LG	AV COMM (L)
54	G/O	TEL ON SIGNAL
55	LG	AV COMM (L)
56	BR	SOUND SIGNAL (+)
57	Y	SOUND SIGNAL (-)
58	SHIELD	SHIELD

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40PW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name [Specification]
2	BR/W	COMBI SW INPUT 5
3	GR	COMBI SW INPUT 4
4	L/Y	COMBI SW INPUT 3
5	G	COMBI SW INPUT 2
6	L/R	COMBI SW INPUT 1
7	W/R	KEY CYL UNLOCK SW
8	W/B	KEY CYL LOCK SW
9	R	STOP LAMP SW
10	W/L	REAR WINDOW DEFOGGER SW
11	L/Y	ACC
12	SB	PASSENGER DOOR SW
13	GR/L	REAR RH DOOR SW
14	L/B	OPTICAL SENSOR
15	V/W	TIRE PRESS WARNING CHECK SW

17	R/G	OPTICAL SENSOR POWER SUPPLY
18	V	RECEIVER/SENSOR GND
19	BR	KEYLESS ENTRY RECEIVER POWER SUPPLY
20	G/Y	KEYLESS ENTRY RECEIVER POWER SUPPLY
21	P/L	NATS ANTENNA AMP
23	R/Y	SECURITY INDICATOR LAMP
24	GR/R	DONGLE LINK
25	LG	NATS ANTENNA AMP
26	GR	THERMO CONTROL AMP
27	Y/G	A/C SW [With auto A/C]
27	Y/R	A/C SW [With manual A/C]
28	G/W	BLOWER FAN SW
29	L/W	HAZARD SW
31	G/Y	FR DEFROSTER SW
32	LG	COMBI SW OUTPUT 5
33	Y/L	COMBI SW OUTPUT 4
34	W	COMBI SW OUTPUT 3
35	R/L	COMBI SW OUTPUT 2
36	L/O	COMBI SW OUTPUT 1
37	R/W	KEY SWITCH
38	O	IGN
39	L	CAN-H
40	P	CAN-L

Connector No.	M68
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name [Specification]
2	BR/W	COMBI SW INPUT 5
3	GR	COMBI SW INPUT 4
4	L/Y	COMBI SW INPUT 3
5	G	COMBI SW INPUT 2
6	L/R	COMBI SW INPUT 1
7	W/R	KEY CYL UNLOCK SW
8	W/B	KEY CYL LOCK SW
9	R	STOP LAMP SW 1
10	V/W	TIRE PRESS WARNING CHECK SW
11	L/Y	ACC F/B
12	SB	PASSENGER DOOR SW
13	GR/L	REAR RH DOOR SW
14	L/B	OPTICAL SENSOR

AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80PW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	B/O	-
2	R	-
3	G/R	-
4	G/B	-
5	L	-
6	L	-
7	W/R	-
8	G/W	-
9	Y/L	-
10	W	-
31	GR/L	-
32	L/B	-
33	R/Y	-
34	SB	-
35	BR	-
36	G	-
39	L/R	-
44	G/O	-
45	LG/R	-
46	GR/W	-
47	BR/Y	-
48	L/O	-
49	L/W	-
50	P/L	-
51	B/W	-
53	R/L	-
54	O	-
57	GR	-
59	V	-
60	R/W	-
61	V/W	-
62	W/L	-
63	W/B	-
67	Y/R	-
69	LG	-
70	SHIELD	-
71	P/B	-
72	R/G	-

73	R	-
74	L/Y	-
76	W/G	-
77	GR/R	-
78	O	-
79	LG	-
80	P	-
81	L	-
82	GR	-
83	G/R	-
84	B	-
87	G	-
91	R	-
92	O	-
93	Y	-
94	R/B	-
95	L/W	-
96	Y	-
97	L	-
98	BR/W	-
99	W	-
100	G/R	-

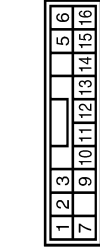
Connector No.	M99
Connector Name	iPod ADAPTER
Connector Type	TH24FW-NH



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	LG	AV COMM (L)
5	L	BATTERY
6	GR	USB D+ SIGNAL
7	LG	USB D- SIGNAL
8	LG	iPod BATTERY CHARGE 12V
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 (-)
14	G	iPod SOUND SIGNAL RH (-)

15	SHIELD	SHIELD
16	SB	AV COMM (H)
17	B	SHIELD
19	SHIELD	SHIELD
20	BR	iPod BATTERY CHARGE 5V
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.	M100
Connector Name	iPod SIDE
Connector Type	JP16FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	G/O	iPod SOUND SIGNAL LH (+)
2	G/Y	iPod SOUND SIGNAL GND
3	BR	iPod BATTERY CHARGE 5V
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
11	GR	USB D+ SIGNAL
12	LG	iPod BATTERY CHARGE 12V
13	LG	USB D- SIGNAL
14	SHIELD	SHIELD
15	G/O	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M202
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY



Terminal No.	Color of Wire	Signal Name [Specification]
13	R	-
14	Y	-
15	P	-
16	B	-
17	W	-
18	G	-
19	P	-
20	R	-

Connector No.	M208
Connector Name	WIRE TO WIRE
Connector Type	GT13SON-1/PPF-HU



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

JCNWM3440GI

AUDIO

Connector No.	M309
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/IS-HU



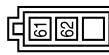
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	M310
Connector Name	ANTENNA BASE
Connector Type	GT13SSH-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	NS16FH-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	Y	-
7	L	-
8	Y	-
9	BR	-
10	B	-
16	G	-

Connector No.	R3
Connector Name	WIRE TO WIRE
Connector Type	TH04MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	-	-
4	Y	-

Connector No.	R20
Connector Name	WIRE TO WIRE
Connector Type	TH04FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	SHIELD	-
3	-	-
4	R	-

Connector No.	R21
Connector Name	MICROPHONE
Connector Type	TK04FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	MICROPHONE SIGNAL
2	SHIELD	MICROPHONE GND
3	-	-
4	R	MICROPHONE VCC

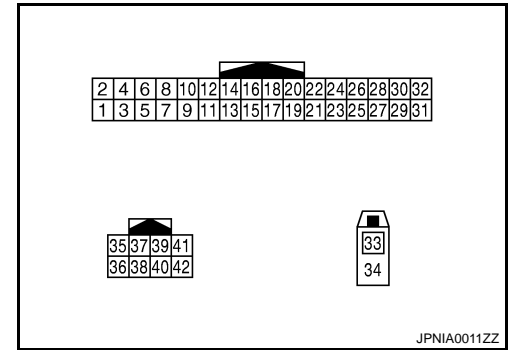
JCNWM3441GI

TEL ADAPTER UNIT

Reference Value

INFOID:000000005735685

TERMINAL LAYOUT





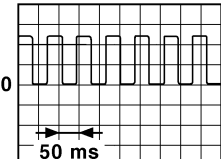
PHYSICAL VALUES

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>SKIB3609E</p>
9 (BR)	10 (Y)	Sound signal (TEL voice, voice guid- ance)	Output	Ignition switch ON	During voice guide output with the switch pressed.	<p>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 (W)	14 (GR)	Steering switch signal A	Input	Ignition switch ON	Keep pressing SOURCE switch.	0 V
					Keep pressing SEEK UP switch.	1.3 V
					Keep pressing SEEK DOWN switch.	2.5 V
					Keep pressing  switch.	3.4 V
					Except for above.	5.0 V
13 (SB)	14 (GR)	Steering switch signal B	Input	Ignition switch ON	Keep pressing VOL DOWN switch.	0 V
					Keep pressing VOL UP switch.	1.3 V
					Keep pressing  switch.	2.5 V
					Except for above.	5.0 V
17 (GR)	19 (L)	Steering switch signal A	Output	Ignition switch ON	Keep pressing SOURCE switch.	0 V
					Keep pressing SEEK UP switch.	0.9 V
					Keep pressing SEEK DOWN switch.	1.6 V
					Except for above.	3.3 V
18 (P)	19 (L)	Steering switch signal B	Output	Ignition switch ON	Keep pressing VOL DOWN switch.	0 V
					Keep pressing VOL UP switch.	0.9 V
					Except for above.	3.3 V
22 (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
27 (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 ap- prox. 40 km/h (25 MPH)	<p>NOTE: The maximum voltage varies de- pending on the specification (destination unit).</p> 

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TEL ADAPTER UNIT

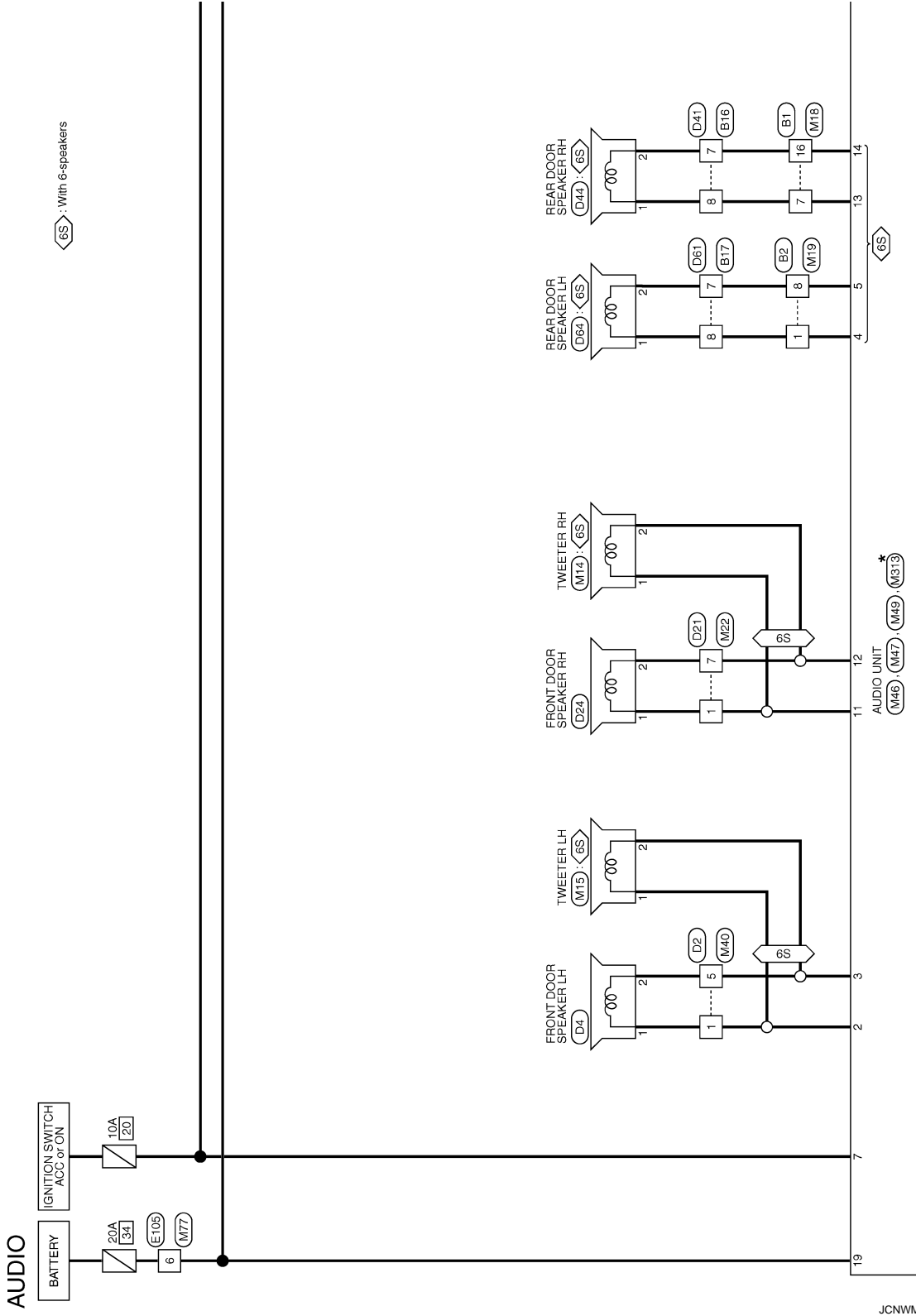
< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	—	Signal name	Input/ Output			
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 (SB)	—	AV communication signal (H)	Input/ Output	—	—	—
36 (LG)	—	AV communication signal (L)	Input/ Output	—	—	—

Wiring Diagram - AUDIO -

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

2009/10/02

JCNWM3431G1

A
B
C
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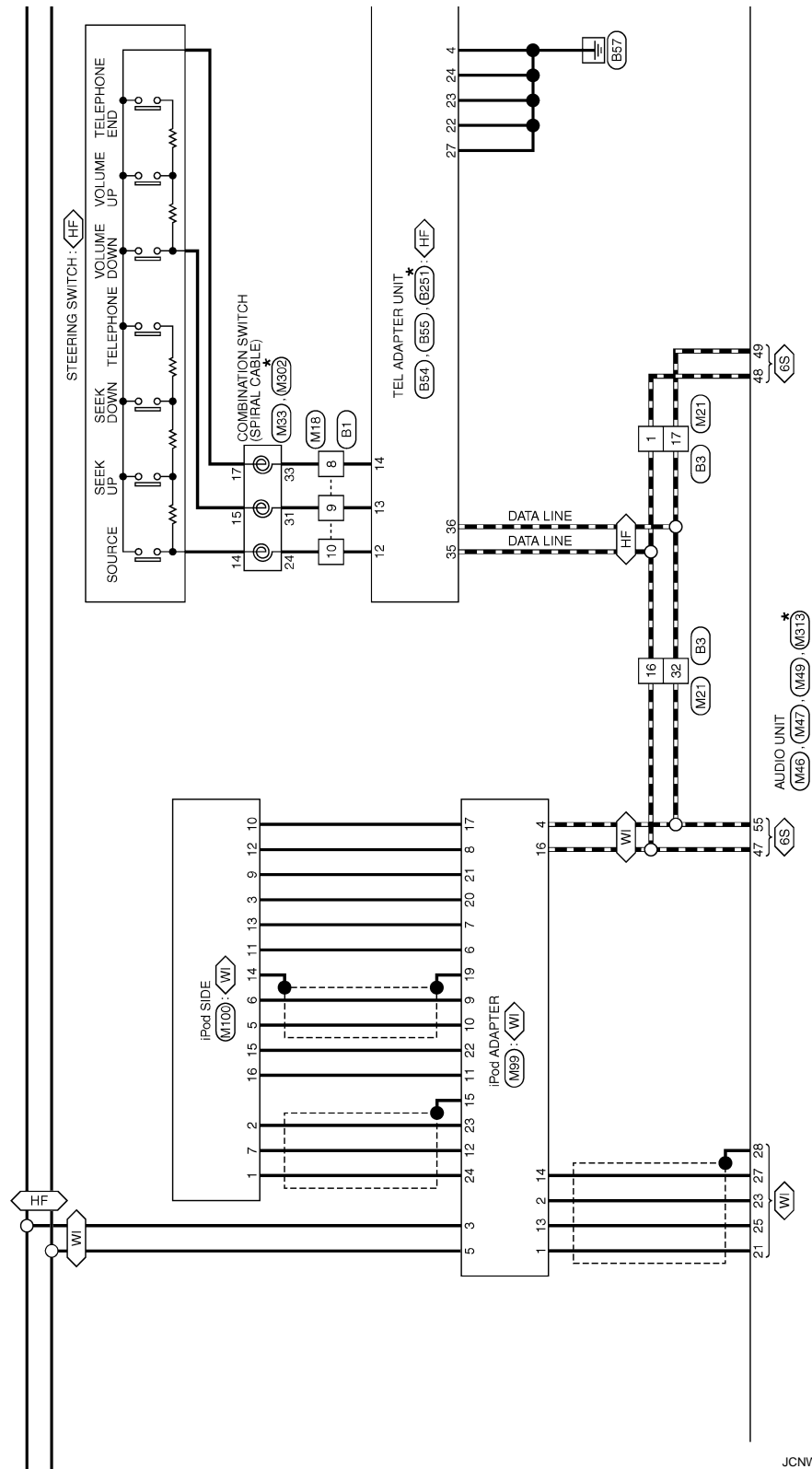
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TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

WI : With iPod
HF : With telephone
6S : With 6-speakers



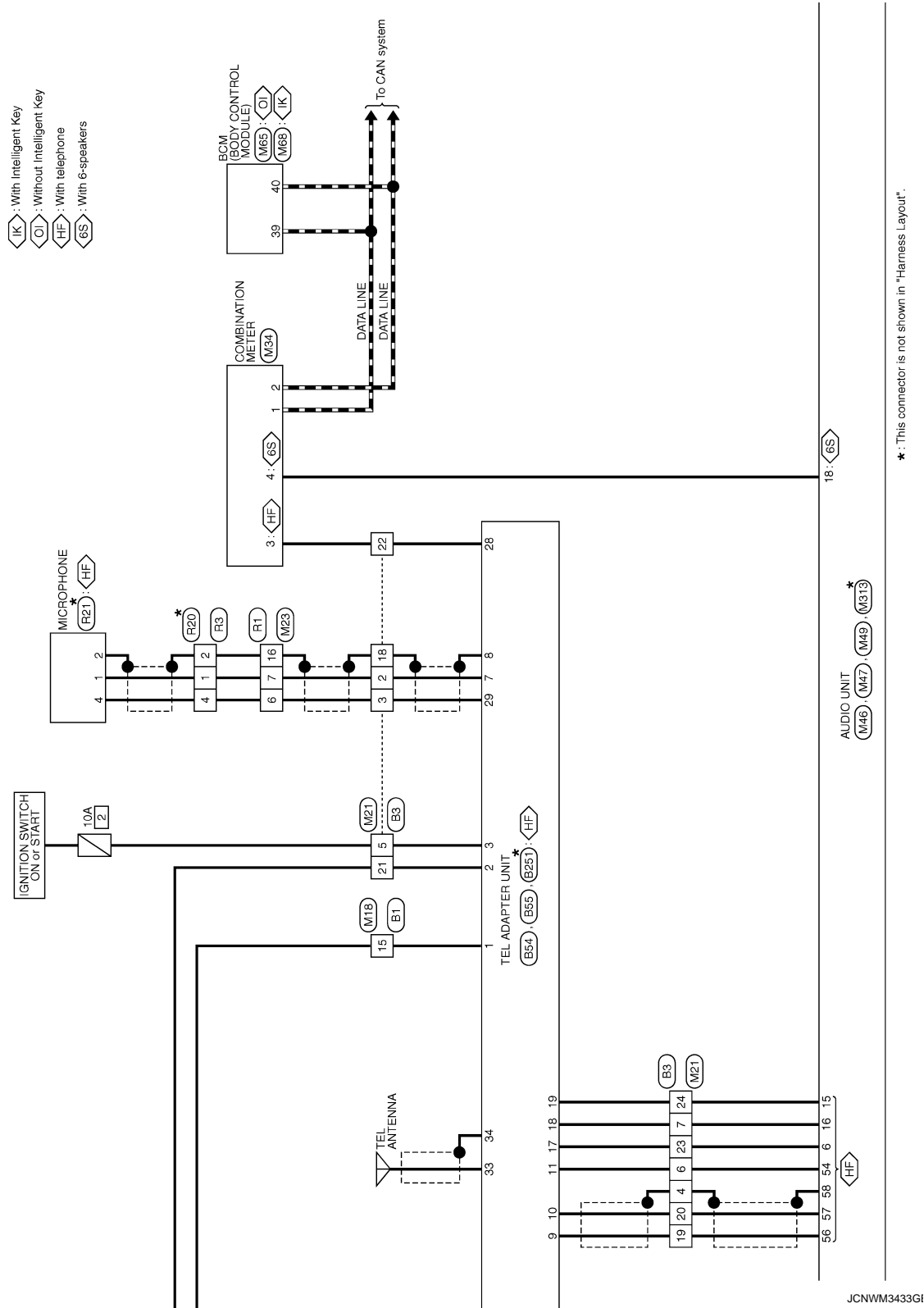
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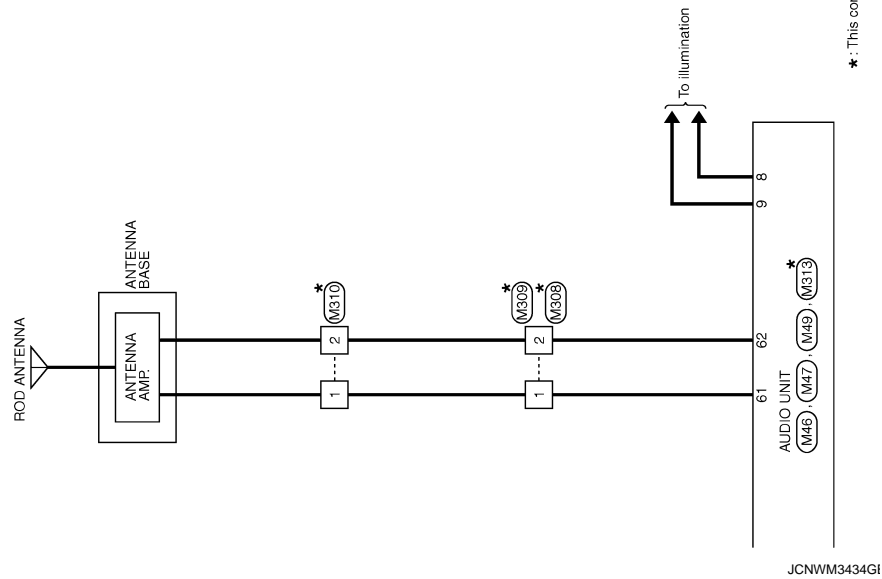
TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]



JCNWM3433GI



TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

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



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	V	-
4	L	-
5	Y	-
6	W	-
7	LG	-
8	GR	-
9	SB	-
10	W	-
11	G	-
12	V	-
13	BR	-
14	SB	-
15	R	-
16	GR	-

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



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
5	O	-
6	R	-
7	L	-
8	L	-
9	G	-
10	V	-

11	P	-
12	LG	-
14	R	-
15	Y	-
16	B	-

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	L	-
3	R	-
4	SHIELD	-
5	LG	-
6	SB	-
7	P	-
8	V	-
9	SHIELD	-
10	R	-
11	SHIELD	-
12	G	-
13	SHIELD	-
14	G	-
15	SB	-
16	SB	-
17	LG	-
18	SHIELD	-
19	BR	-
20	Y	-
21	L	-
22	O	-
23	GR	-
24	L	-
25	W	-
26	B	-
27	R	-
28	B	-
29	W	-
30	R	-
31	LG	-

32	LG	-
----	----	---

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



4	3	2	1
10	9	8	7
6	5		

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	L	-
5	G	-
7	GR	-
8	LG	-
9	W	-
10	Y	-

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



4	3	2	1
10	9	8	7
6	5		

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	L	-
5	G	-
7	L	-
8	V	-
9	R	-
10	O	-

Connector No.	B54
Connector Name	TEL ADAPTER UNIT
Connector Type	TH32FW-NH



2	4	8	10	12	14	18	20	22	24	28
1	3	7	9	11	13	17	19	21	23	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 SIGNAL GND
9	BR	SOUND SIGNAL (*)
10	Y	SOUND SIGNAL (*)
11	SB	TEL ON SIGNAL
12	W	STRG SW A
13	SB	STRG SW B
14	GR	STRG SW GND
17	GR	STRG SW A
18	P	STRG SW B
19	L	STRG SW GND
20	B	CONTROL SIGNAL
21	B	CONTROL SIGNAL
22	B	CONTROL SIGNAL
23	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
27	B	CONTROL SIGNAL
28	O	VEHICLE SPEED (2-PULSE)
29	R	MICROPHONE VCC

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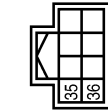
TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

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



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

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	-	SIELD

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



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

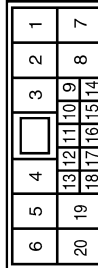
3	R	-
4	G	-
5	P	-
6	SB	-
8	GR	-
9	BR	-
10	B	-

Connector No.	D4
Connector Name	FRONT DOOR SPEAKER LH
Connector Type	NS02FW-CS



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

Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	Y	-
4	B	-
5	L	-
6	SB	-
7	R	-
8	V	-
9	R	-
10	W	-
11	L	-
12	LG	-

13	P	-
14	B	-
15	G	-
16	GR	-
17	BR	-
18	V	-
20	W	-

Connector No.	D24
Connector Name	FRONT DOOR SPEAKER RH
Connector Type	NS02FW-CS



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

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
4	L	-
5	P	-
7	GR	-
8	LG	-
9	BR	-
10	O	-

Connector No.	D44
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS02FW-CS



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

Connector No.	D61
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	L	-
5	G	-
7	GR	-
8	LG	-
9	BR	-
10	O	-

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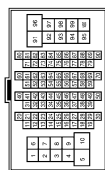
AUDIO

Connector No.	D64
Connector Name	REAR DOOR SPEAKER LH
Connector Type	NS22FW-CS



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

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	W	-
3	SB	-
4	G	-
5	P	-
6	R	-
7	Y	-
8	O	-
9	W	-
10	SB	-
31	V	-
32	R	-
33	GR	-
34	P	-
35	Y	-
36	BR	-
39	SB	-
44	R	-
45	V	-
46	P	-

47	W	-
48	L	-
49	Y	-
50	W	-
51	BR	- [With CVT]
53	SB	- [With M/T]
54	W	- [With CVT]
55	O	- [With M/T]
57	LG	-
59	L	-
60	O	-
61	G	-
62	W	-
63	L	-
67	GR	- [With CVT]
67	V	- [With M/T]
69	P	-
70	SHIELD	-
71	GR	-
72	LG	-
73	P	-
74	V	-
76	Y	-
77	LG	-
78	O	-
79	G	-
80	P	-
81	L	-
82	W	-
83	BR	-
84	B	-
87	GR	-
91	W	-
92	Y	-
93	Y	-
94	R	-
95	V	-
96	LG	-
97	R	-
98	SB	-
99	G	-
100	P	-

Connector No.	M14
Connector Name	TWEETER RH
Connector Type	TK02FBR



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

Connector No.	M15
Connector Name	TWEETER LH
Connector Type	TK02FBR



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	G/R	-
3	L/W	-

4	L	-
5	Y	-
8	L/B	-
7	LG	-
8	L/G	-
9	GR/B	-
10	W/L	-
11	G	-
12	V	-
13	L	-
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	-
5	L/R	-
6	R	-
7	L	-
8	R/B	-
9	G	-
10	V	-
11	L/W	-
12	LG	-
14	R	-
15	Y/R	-
16	B/R	-

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TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	TH22FW-NH



16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
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	-
13	SHIELD	-
14	L	-
15	SB	-
16	SB	-
17	LG	-
18	SHIELD	-
19	BR	-
20	Y	-
21	L/Y	-
22	V	-
23	W/O	-
24	L/B	-
25	G/Y	-
26	G/O	-
27	R	-
28	B	-
29	W	-
30	P	-
31	LG	-
32	LG	-

Connector No.	M22
Connector Name	WIRE TO WIRE
Connector Type	NH10MH-CS10



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	G	-
4	B	-
5	L	-
6	W/R	-
7	R	-
8	V	-
9	G/R	-
10	L/G	-
11	R	-
12	G	-
13	BR/Y	-
14	B	-
15	G/B	-
16	GR	-
17	BR	-
18	L/Y	-
20	Y/R	-

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	NS10MH-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
7	G	-
8	L	-
9	BR	-

10	B	-
18	SHIELD	-

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



24	25	26
31	32	33
34		

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

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



20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
38	36	35	34	33	32	31	29	28	27	26	25	24	23	22	21				

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	CAN-H
2	P	CAN-L
3	V	VEHICLE SPEED SIGNAL (2-PULSE)
4	L	VEHICLE SPEED SIGNAL (8-PULSE)
6	BR/Y	FUEL LEVEL SENSOR SIGNAL
7	R/G	AIR BAG SIGNAL
8	P	OVERDRIVE CONTROL SWITCH SIGNAL
9	O	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
10	SB	PARKING BRAKE SWITCH SIGNAL
11	G/R	BRAKE FLUID LEVEL SWITCH SIGNAL
13	B/R	ILLUMINATION CONTROL SIGNAL

15	L/Y	ACC POWER SUPPLY
17	G	WASHER LEVEL SWITCH SIGNAL
18	R/Y	SECURITY SIGNAL
19	V/W	AMBIENT SENSOR SIGNAL
20	R/W	AMBIENT SENSOR GROUND
21	B	GROUND
22	B	GROUND
23	B	GROUND
24	V	FUEL LEVEL SENSOR GROUND
25	B	VDC GROUND
27	LG	BATTERY POWER SUPPLY
28	GR	IGNITION SIGNAL
29	BR	PASSENGER SEAT BELT WARNING SIGNAL
31	R	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
35	BR	ENGINE COOLANT TEMPERATURE SIGNAL
38	GR	ALTERNATOR SIGNAL

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	NS10MH-CS



1	2	3	4
5	6	7	8
9	10		

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	V	-
4	G/R	-
5	P	-
6	L/B	-
8	GR	-
9	BR	-
10	B	-

TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

Connector No.	M46
Connector Name	AUDIO UNIT
Connector Type	TH18PW-CS2



19	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/G	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 (+)
14	GR	SOUND SIGNAL REAR SPEAKER RH (-)
15	L/B	STRG SW B
16	GR/R	STRG SW B
18	L	VEHICLE SPEED (8-PULSE)
19	L	BATTERY

Connector No.	M47
Connector Name	AUDIO UNIT
Connector Type	TH08PW-NH



21	23
25	27 28

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

Connector No.	M49
Connector Name	AUDIO UNIT
Connector Type	TH18PW-NH



44	45	46	47	48	49
51	52	53	54	55	56 57 58

Terminal No.	Color of Wire	Signal Name [Specification]
47	SB	AV COMM (H)
48	SB	AV COMM (H)
49	LG	AV COMM (L)
54	G/O	TEL ON SIGNAL
55	LG	AV COMM (L)
56	BR	SOUND SIGNAL (+)
57	Y	SOUND SIGNAL (-)
58	SHIELD	SHIELD

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40PW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name [Specification]
2	BR/W	COMBI SW INPUT 5
3	GR	COMBI SW INPUT 4
4	L/Y	COMBI SW INPUT 3
5	G	COMBI SW INPUT 2
6	L/R	COMBI SW INPUT 1
7	W/R	KEY CYL UNLOCK SW
8	W/B	KEY CYL LOCK SW
9	R	STOP LAMP SW
10	W/L	REAR WINDOW DEFOGGER SW
11	L/Y	ACC
12	SB	PASSENGER DOOR SW
13	GR/L	REAR RH DOOR SW
14	L/B	OPTICAL SENSOR
15	V/W	TIRE PRESS WARNING CHECK SW

17	R/G	OPTICAL SENSOR POWER SUPPLY
18	V	RECEIVER/SENSOR GND
19	BR	KEYLESS ENTRY RECEIVER POWER SUPPLY
20	G/Y	KEYLESS ENTRY RECEIVER POWER SUPPLY
21	P/L	NATS ANTENNA AMP
23	R/Y	SECURITY INDICATOR LAMP
24	GR/R	DONGLE LINK
25	LG	NATS ANTENNA AMP
26	GR	THERMO CONTROL AMP
27	Y/G	A/C SW [With auto A/C]
27	Y/R	A/C SW [With manual A/C]
28	G/W	BLOWER FAN SW
29	L/W	HAZARD SW
31	G/Y	FR DEFROSTER SW
32	LG	COMBI SW OUTPUT 5
33	Y/L	COMBI SW OUTPUT 4
34	W	COMBI SW OUTPUT 3
35	R/L	COMBI SW OUTPUT 2
36	L/O	COMBI SW OUTPUT 1
37	R/W	KEY SWITCH
38	O	IGN
39	L	CAN-H
40	P	CAN-L

Connector No.	M68
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name [Specification]
2	BR/W	COMBI SW INPUT 5
3	GR	COMBI SW INPUT 4
4	L/Y	COMBI SW INPUT 3
5	G	COMBI SW INPUT 2
6	L/R	COMBI SW INPUT 1
7	W/R	KEY CYL UNLOCK SW
8	W/B	KEY CYL LOCK SW
9	R	STOP LAMP SW 1
10	V/W	TIRE PRESS WARNING CHECK SW
11	L/Y	ACC F/B
12	SB	PASSENGER DOOR SW
13	GR/L	REAR RH DOOR SW
14	L/B	OPTICAL SENSOR

TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

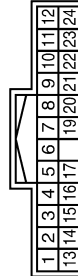
Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80YW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	B/O	-
2	R	-
3	G/R	-
4	G/B	-
5	L	-
6	L	-
7	W/R	-
8	G/W	-
9	Y/L	-
10	W	-
31	GR/L	-
32	L/B	-
33	R/Y	-
34	SB	-
35	BR	-
36	G	-
39	L/R	-
44	G/O	-
45	LG/R	-
46	GR/W	-
47	BR/Y	-
48	L/O	-
49	L/W	-
50	P/L	-
51	B/W	-
53	R/L	-
54	O	-
57	GR	-
59	V	-
60	R/W	-
61	V/W	-
62	W/L	-
63	W/B	-
67	Y/R	-
69	LG	-
70	SHIELD	-
71	P/B	-
72	R/G	-

73	R	-
74	L/Y	-
76	W/G	-
77	GR/R	-
78	O	-
79	LG	-
80	P	-
81	L	-
82	GR	-
83	G/R	-
84	B	-
87	G	-
91	R	-
92	O	-
93	Y	-
94	R/B	-
95	L/W	-
96	Y	-
97	L	-
98	BR/W	-
99	W	-
100	G/R	-

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	LG	AV COMM (L)
5	L	BATTERY
6	GR	USB D+ SIGNAL
7	LG	USB D- SIGNAL
8	LG	iPod BATTERY CHARGE 12V
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 (-)
14	G	iPod SOUND SIGNAL RH (-)

15	SHIELD	SHIELD
16	SB	AV COMM (H)
17	B	SHIELD
19	SHIELD	SHIELD
20	BR	iPod BATTERY CHARGE 5V
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.	M100
Connector Name	iPod SIDE
Connector Type	JP16FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	G/O	iPod SOUND SIGNAL LH (+)
2	G/Y	iPod SOUND SIGNAL GND
3	BR	iPod BATTERY CHARGE 5V
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	SHIELD
11	GR	USB D+ SIGNAL
12	LG	iPod BATTERY CHARGE 12V
13	LG	USB D- SIGNAL
14	SHIELD	SHIELD
15	G/O	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M202
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY



Terminal No.	Color of Wire	Signal Name [Specification]
13	R	-
14	Y	-
15	P	-
16	B	-
17	W	-
18	G	-
19	P	-
20	R	-

Connector No.	M208
Connector Name	WIRE TO WIRE
Connector Type	GT13SON-1/PPF-HU



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

AUDIO

Connector No.	M309
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/IS-HU



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

Connector No.	M310
Connector Name	ANTENNA BASE
Connector Type	GT13SSH-1/1PP-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	NS16FH-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	Y	-
7	L	-
8	Y	-
9	BR	-
10	B	-
16	G	-

Connector No.	R3
Connector Name	WIRE TO WIRE
Connector Type	TH04MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	-	-
4	Y	-

Connector No.	R20
Connector Name	WIRE TO WIRE
Connector Type	TH04FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	SHIELD	-
3	-	-
4	R	-

Connector No.	R21
Connector Name	MICROPHONE
Connector Type	TK04FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	MICROPHONE SIGNAL
2	SHIELD	MICROPHONE GND
3	-	-
4	R	MICROPHONE VCC

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IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

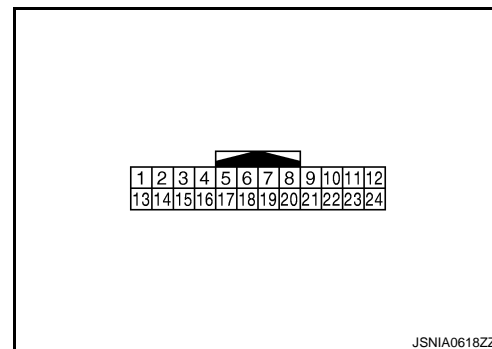
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IPOD ADAPTER

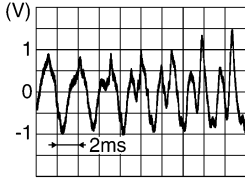
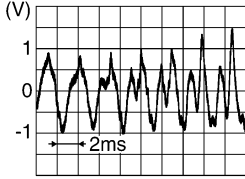
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TERMINAL LAYOUT



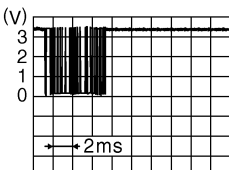
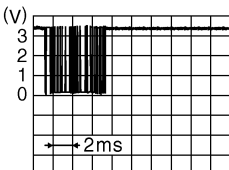
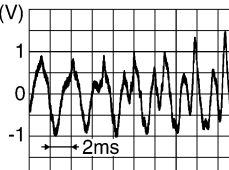
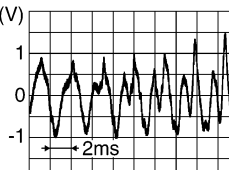
PHYSICAL VALUES

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 (LG)	—	AV communication signal (L)	Input/ Output	—	—	—
5 (L)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
6 (GR)	—	USB D– signal	—	—	—	—
7 (LG)	—	USB D+ signal	—	—	—	—
8 (LG)	Ground	iPod battery charge 12 V	Output	Ignition switch ON	Connected to iPod®	12.0 V

IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	—	Signal name	Input/ Output			
9 (P)	Ground	Communication signal (iPod adapter→iPod®)	Output	Ignition switch ON	The wave pattern is displayed just after iPod connection.	 <p>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>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>SKIB3609E</p>
15	—	Shield	—	—	—	—
16 (SB)	—	AV communication signal (H)	Input/ Output	—	—	—
17 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
19	—	Shield	—	—	—	—
20 (BR)	Ground	iPod battery charge 5 V	Output	Ignition switch ON	Connected to iPod®	5.0 V
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>SKIB3609E</p>

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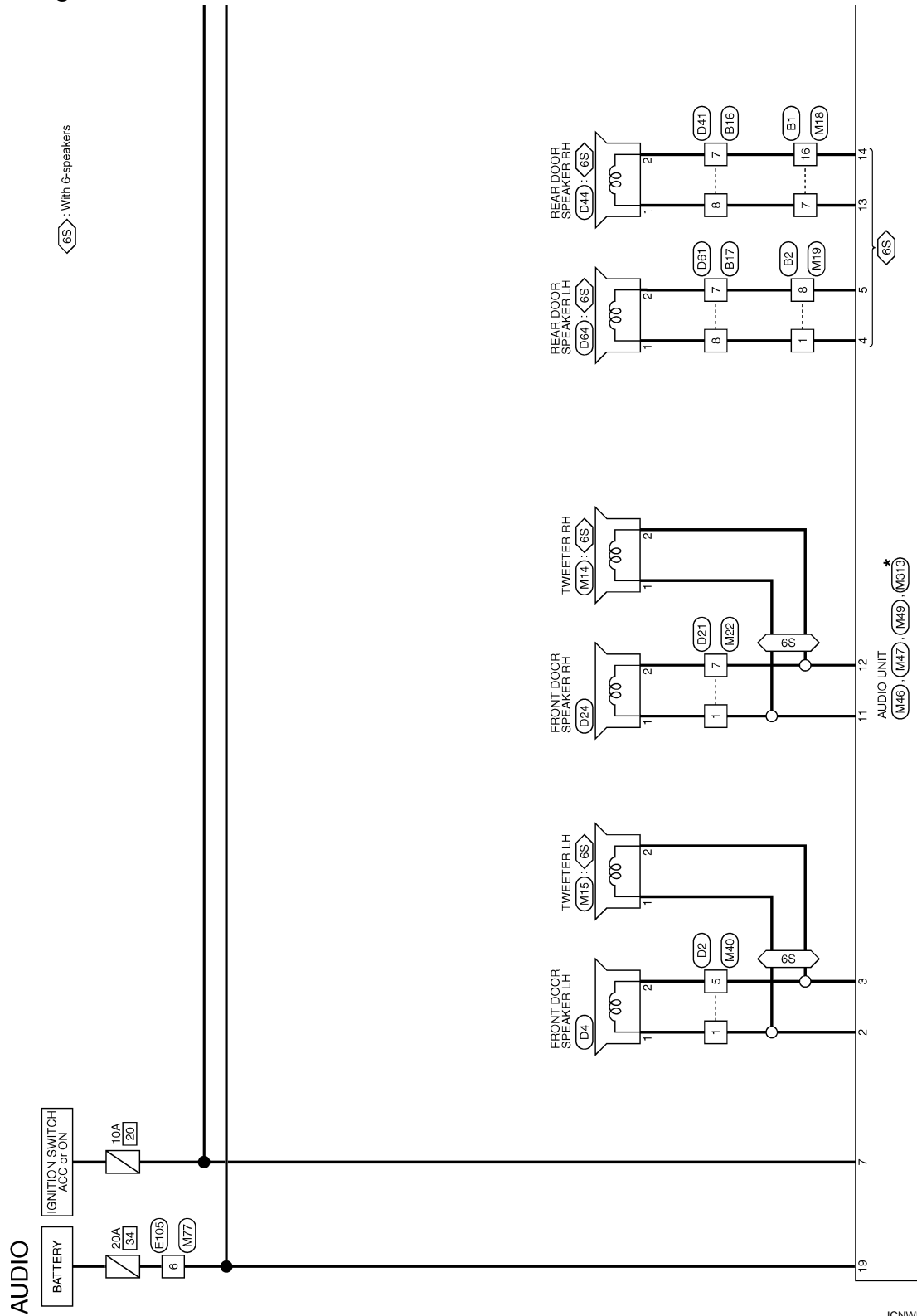
IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

Wiring Diagram - AUDIO -

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

2009/10/02

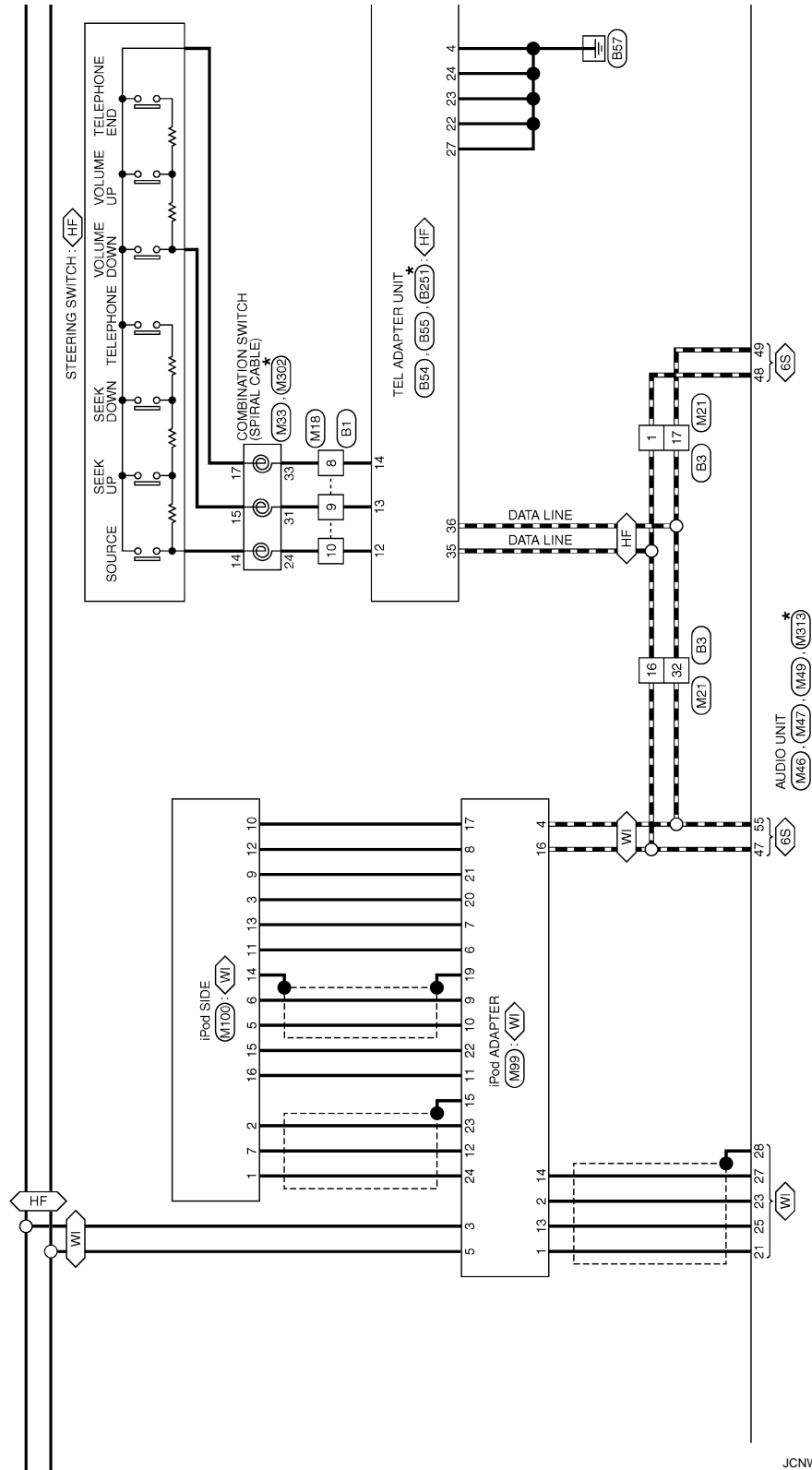
JCNWM3431GI

IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

WI : With iPod
HF : With telephone
6S : With 6-speakers



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

JCNWM3432GI

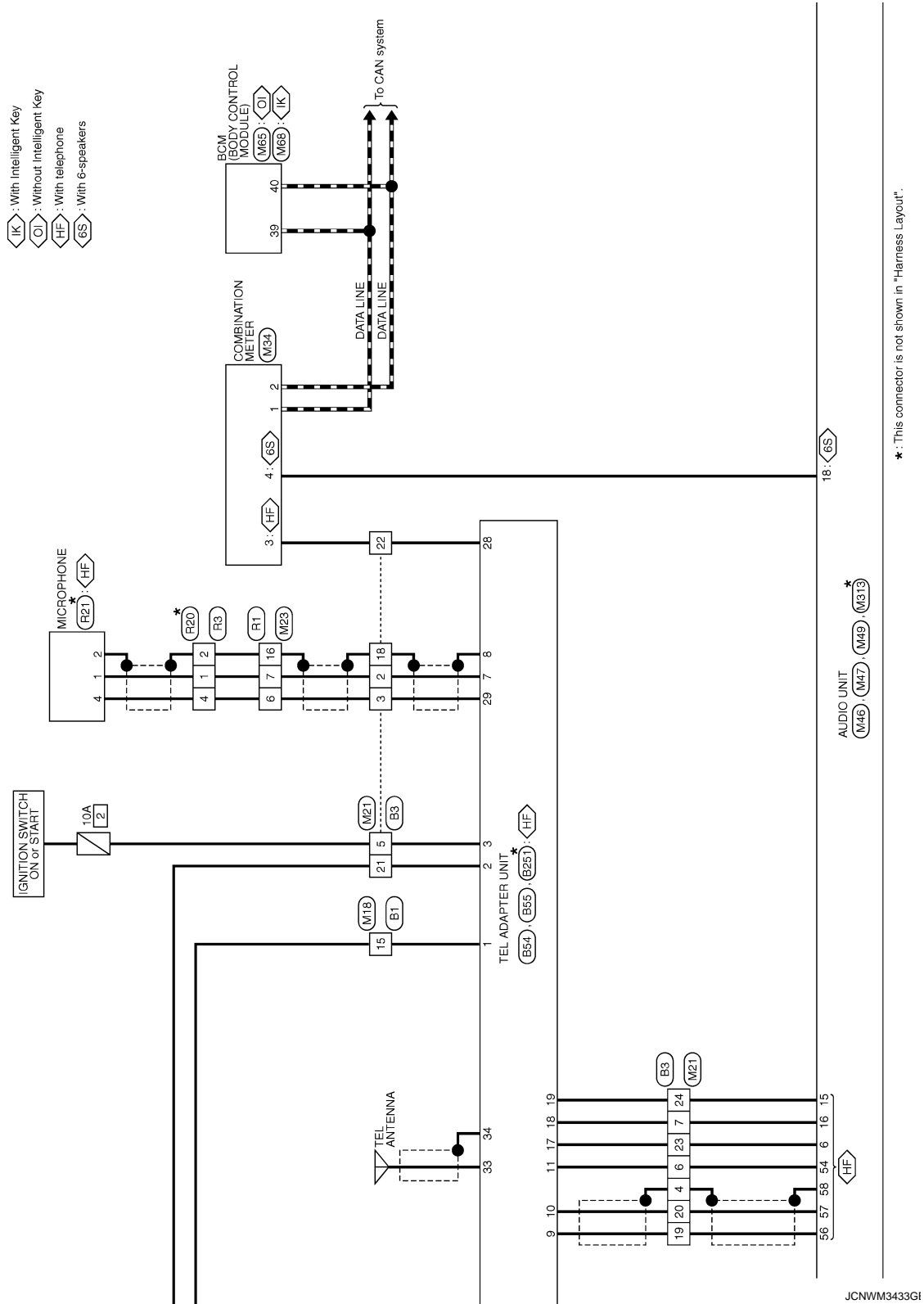
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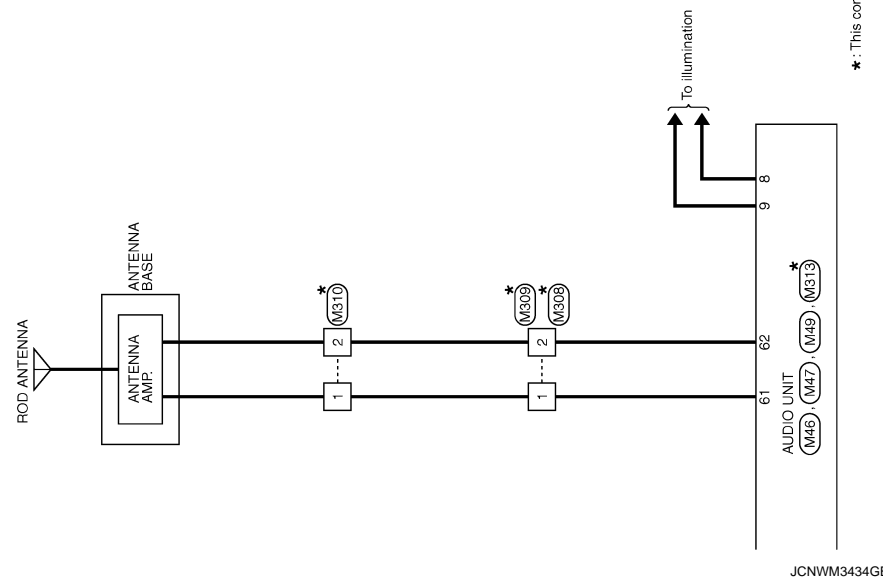
AV

IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]



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IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

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



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	V	-
4	L	-
5	Y	-
6	W	-
7	LG	-
8	GR	-
9	SB	-
10	W	-
11	G	-
12	V	-
13	BR	-
14	SB	-
15	R	-
16	GR	-

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



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
5	O	-
6	R	-
7	L	-
8	L	-
9	G	-
10	V	-

11	P	-
12	LG	-
14	R	-
15	Y	-
16	B	-

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	L	-
3	R	-
4	SHIELD	-
5	LG	-
6	SB	-
7	P	-
8	V	-
9	SHIELD	-
10	R	-
11	SHIELD	-
12	G	-
13	SHIELD	-
14	G	-
15	SB	-
16	SB	-
17	LG	-
18	SHIELD	-
19	BR	-
20	Y	-
21	L	-
22	O	-
23	GR	-
24	L	-
25	W	-
26	B	-
27	R	-
28	B	-
29	W	-
30	R	-
31	LG	-

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



4	3	2	1
10	9	8	7
6	5		

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	L	-
5	G	-
7	GR	-
8	LG	-
9	W	-
10	Y	-

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



4	3	2	1
10	9	8	7
6	5		

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	L	-
5	G	-
7	L	-
8	V	-
9	R	-
10	O	-

Connector No.	B54
Connector Name	TEL ADAPTER UNIT
Connector Type	TH32FW-NH



2	4	8	10	12	14	18	20	22	24	26
1	3	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 SIGNAL GND
9	BR	SOUND SIGNAL (*)
10	Y	SOUND SIGNAL (*)
11	SB	TEL ON SIGNAL
12	W	STRG SW A
13	SB	STRG SW B
14	GR	STRG SW GND
17	GR	STRG SW A
18	P	STRG SW B
19	L	STRG SW GND
20	B	CONTROL SIGNAL
21	B	CONTROL SIGNAL
22	B	CONTROL SIGNAL
23	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
27	B	CONTROL SIGNAL
28	O	VEHICLE SPEED (2-PULSE)
29	R	MICROPHONE VCC

JCNWM34356I

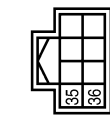
IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

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



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

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

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



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

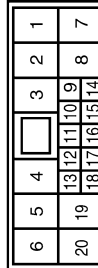
3	R	-
4	G	-
5	P	-
6	SB	-
8	GR	-
9	BR	-
10	B	-

Connector No.	D4
Connector Name	FRONT DOOR SPEAKER LH
Connector Type	NS02FW-CS



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

Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	Y	-
4	B	-
5	L	-
6	SB	-
7	R	-
8	V	-
9	R	-
10	W	-
11	L	-
12	LG	-

13	P	-
14	B	-
15	G	-
16	GR	-
17	BR	-
18	V	-
20	W	-

Connector No.	D24
Connector Name	FRONT DOOR SPEAKER RH
Connector Type	NS02FW-CS



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

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
4	L	-
5	P	-
7	GR	-
8	LG	-
9	BR	-
10	O	-

Connector No.	D44
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS02FW-CS



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

Connector No.	D61
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	L	-
5	G	-
7	GR	-
8	LG	-
9	BR	-
10	O	-

JCNWM3436GI

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IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

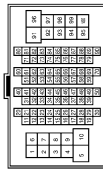
AUDIO

Connector No.	D64
Connector Name	REAR DOOR SPEAKER LH
Connector Type	NS22FW-CS



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

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	W	-
3	SB	-
4	G	-
5	P	-
6	R	-
7	Y	-
8	O	-
9	W	-
10	SB	-
31	V	-
32	R	-
33	GR	-
34	P	-
35	Y	-
36	BR	-
39	SB	-
44	R	-
45	V	-
46	P	-

47	W	-
48	L	-
49	Y	-
50	W	-
51	BR	- [With CVT]
51	B	- [With M/T]
53	SB	-
54	W	- [With CVT]
54	O	- [With M/T]
57	LG	-
59	L	-
60	O	-
61	G	-
62	W	-
63	L	-
67	GR	- [With CVT]
67	V	- [With M/T]
69	P	-
70	SHIELD	-
71	GR	-
72	LG	-
73	P	-
74	V	-
76	Y	-
77	LG	-
78	O	-
79	G	-
80	P	-
81	L	-
82	W	-
83	BR	-
84	B	-
87	GR	-
91	W	-
92	Y	-
93	Y	-
94	R	-
95	V	-
96	LG	-
97	R	-
98	SB	-
99	G	-
100	P	-

Connector No.	M14
Connector Name	TWEETER RH
Connector Type	TK02FBR



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

Connector No.	M15
Connector Name	TWEETER LH
Connector Type	TK02FBR



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	G/R	-
3	L/W	-

4	L	-
5	Y	-
6	L/B	-
7	LG	-
8	L/G	-
9	GR/B	-
10	W/L	-
11	G	-
12	V	-
13	L	-
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	-
5	L/R	-
6	R	-
7	L	-
8	R/B	-
9	G	-
10	V	-
11	L/W	-
12	LG	-
14	R	-
15	Y/R	-
16	B/R	-

IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	TH2PW-NH



16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	G	-
3	V	-
4	SHIELD	-
5	DO	-
6	G/O	-
7	GR/R	-
8	L/Y	-
9	SHIELD	-
10	G/R	-
11	SHIELD	-
12	G	-
13	SHIELD	-
14	L	-
15	SB	-
16	SB	-
17	LG	-
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	-
30	P	-
31	LG	-
32	LG	-

Connector No.	M22
Connector Name	WIRE TO WIRE
Connector Type	NH1DMH-CS10



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	G	-
3	B	-
4	L	-
5	W/L	-
6	W/R	-
7	R	-
8	V	-
9	G/R	-
10	LG	-
11	R	-
12	G	-
13	BR/Y	-
14	B	-
15	G/B	-
16	GR	-
17	BR	-
18	L/Y	-
20	Y/R	-

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	NS1DMH-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
7	G	-
8	L	-
9	BR	-

10	B	-
16	SHIELD	-

Connector No.	M33
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08GY-IV



24	25	26
31	32	33
34		

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

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



20	19	18	17	16	15	14	13	12	11
10	9	8	7	6	5	4	3	2	1
36	35	34	33	32	31	30	29	28	27
26	25	24	23	22	21				

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	CAN-H
2	P	CAN-L
3	V	VEHICLE SPEED SIGNAL (2-PULSE)
4	L	VEHICLE SPEED SIGNAL (8-PULSE)
6	BR/Y	FUEL LEVEL SENSOR SIGNAL
7	R/G	AIR BAG SIGNAL
8	P	OVERDRIVE CONTROL SWITCH SIGNAL
9	O	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
10	SB	PARKING BRAKE SWITCH SIGNAL
11	G/R	BRAKE FLUID LEVEL SWITCH SIGNAL
13	B/R	ILLUMINATION CONTROL SIGNAL

15	L/Y	ACC POWER SUPPLY
17	G	WASHER LEVEL SWITCH SIGNAL
18	P/V	SECURITY SIGNAL
19	V/W	AMBIENT SENSOR SIGNAL
20	R/W	AMBIENT SENSOR GROUND
21	B	GROUND
22	B	GROUND
23	B	GROUND
24	V	FUEL LEVEL SENSOR GROUND
25	B	VDC GROUND
27	LG	BATTERY POWER SUPPLY
28	GR	IGNITION SIGNAL
29	BR	PASSENGER SEAT BELT WARNING SIGNAL
31	R	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
35	BR	ENGINE COOLANT TEMPERATURE SIGNAL
38	GR	ALTERNATOR SIGNAL

Connector No.	M40
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	-
2	V	-
3	V	-
4	G/R	-
5	P	-
6	L/B	-
8	GR	-
9	BR	-
10	B	-

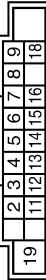
JCNWM3438GI

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AUDIO

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



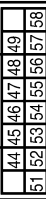
Terminal No.	Color of Wire	Signal Name [Specification]
2	W	SOUND SIGNAL FRONT SPEAKER LH (+)
3	P	SOUND SIGNAL FRONT SPEAKER LH (-)
4	V	SOUND SIGNAL REAR SPEAKER LH (+)
5	R/B	SOUND SIGNAL REAR SPEAKER LH (-)
6	W/G	STRG SW A
7	L/Y	ACC
8	B/R	ILLUMINATION CONTROL SIGNAL (-)
9	W	ILLUMINATION CONTROL SIGNAL (+)
11	G	SOUND SIGNAL FRONT SPEAKER RH (+)
12	R	SOUND SIGNAL FRONT SPEAKER RH (-)
13	LG	SOUND SIGNAL REAR SPEAKER RH (+)
14	GR	SOUND SIGNAL REAR SPEAKER RH (-)
15	L/B	STRG SW GND
16	GR/R	STRG SW B
18	L	VEHICLE SPEED (8-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	Pod SOUND SIGNAL LH (+)
23	B	Pod SOUND SIGNAL LH (-)
25	W	Pod SOUND SIGNAL RH (+)
27	G	Pod 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]
47	SB	AV COMM (H)
48	SB	AV COMM (H)
49	LG	AV COMM (L)
54	G/O	TEL ON SIGNAL
55	LG	AV COMM (L)
56	BR	SOUND SIGNAL (+)
57	Y	SOUND SIGNAL (-)
58	SHIELD	SHIELD

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR/W	COMBI SW INPUT 5
3	GR	COMBI SW INPUT 4
4	L/Y	COMBI SW INPUT 3
5	G	COMBI SW INPUT 2
6	L/R	COMBI SW INPUT 1
7	W/R	KEY CYL UNLOCK SW
8	W/B	KEY CYL LOCK SW
9	R	STOP LAMP SW
10	W/L	REAR WINDOW DEFOGGER SW
11	L/Y	ACC
12	SB	PASSENGER DOOR SW
13	GR/L	REAR RH DOOR SW
14	L/B	OPTICAL SENSOR
15	V/W	TIRE PRESS WARNING CHECK SW

Terminal No.	Color of Wire	Signal Name [Specification]
18	V	RECEIVER/SENSOR GND
19	BR	KEYLESS ENTRY RECEIVER POWER SUPPLY
20	G/Y	KEYLESS ENTRY RECEIVER COMM
21	P/L	NATS ANTENNA AMP
23	GR/R	SECURITY INDICATOR LAMP
24	GR/R	DONGLE LINK
25	LG	NATS ANTENNA AMP
26	GR	THERMO CONTROL AMP
27	Y/G	A/C SW [With auto A/C]
27	Y/R	A/C SW [With manual A/C]
28	G/W	BLOWER FAN SW
29	L/W	HAZARD SW
31	G/Y	FR DEFROSTER SW
32	LG	COMBI SW OUTPUT 5
33	Y/L	COMBI SW OUTPUT 4
34	W	COMBI SW OUTPUT 3
35	R/L	COMBI SW OUTPUT 2
36	L/O	COMBI SW OUTPUT 1
37	R/W	KEY SWITCH
38	O	IGN
39	L	CAN-H
40	P	CAN-L

Connector No.	M68
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR/W	COMBI SW INPUT 5
3	GR	COMBI SW INPUT 4
4	L/Y	COMBI SW INPUT 3
5	G	COMBI SW INPUT 2
6	L/R	COMBI SW INPUT 1
7	W/R	KEY CYL UNLOCK SW
8	W/B	KEY CYL LOCK SW
9	R	STOP LAMP SW
10	V/W	TIRE PRESS WARNING CHECK SW
11	L/Y	ACC F/B
12	SB	PASSENGER DOOR SW
13	GR/L	REAR RH DOOR SW
14	L/B	OPTICAL SENSOR

IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[AUDIO SYSTEM]

AUDIO

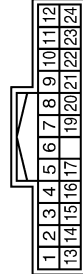
Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80PW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	B/O	-
2	R	-
3	G/R	-
4	G/B	-
5	L	-
6	L	-
7	W/R	-
8	G/W	-
9	Y/L	-
10	W	-
31	GR/L	-
32	L/B	-
33	R/Y	-
34	SB	-
35	BR	-
36	G	-
39	L/R	-
44	G/O	-
45	LG/R	-
46	GR/W	-
47	BR/Y	-
48	L/O	-
49	L/W	-
50	P/L	-
51	B/W	-
53	R/L	-
54	O	-
57	GR	-
59	V	-
60	R/W	-
61	V/W	-
62	W/L	-
63	W/B	-
67	Y/R	-
69	LG	-
70	SHIELD	-
71	P/B	-
72	R/G	-

73	R	-
74	L/Y	-
76	W/G	-
77	GR/R	-
78	O	-
79	LG	-
80	P	-
81	L	-
82	GR	-
83	G/R	-
84	B	-
87	G	-
91	R	-
92	O	-
93	Y	-
94	R/B	-
95	L/W	-
96	Y	-
97	L	-
98	BR/W	-
99	W	-
100	G/R	-

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	LG	AV COMM (L)
5	L	BATTERY
6	GR	USB D+ SIGNAL
7	LG	USB D- SIGNAL
8	LG	iPod BATTERY CHARGE 12V
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 (+)
14	G	iPod SOUND SIGNAL RH (-)

15	SHIELD	SHIELD
16	SB	AV COMM (H)
17	B	GND
19	SHIELD	SHIELD
20	BR	iPod BATTERY CHARGE 5V
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.	M100
Connector Name	iPod SIDE
Connector Type	JP18FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	G/O	iPod SOUND SIGNAL LH (+)
2	G/Y	iPod SOUND SIGNAL GND
3	BR	iPod BATTERY CHARGE 5V
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
11	GR	USB D+ SIGNAL
12	LG	iPod BATTERY CHARGE 12V
13	LG	USB D- SIGNAL
14	SHIELD	SHIELD
15	G/O	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

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



Terminal No.	Color of Wire	Signal Name [Specification]
13	R	-
14	Y	-
15	P	-
16	B	-
17	W	-
18	G	-
19	P	-
20	R	-

Connector No.	M308
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-1/1PP-HU



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

JCNWM3440GI

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AUDIO

Connector No.	M309
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/IS-HU



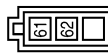
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	M310
Connector Name	ANTENNA BASE
Connector Type	GT13SSH-1/IPP-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	NS16FW-CS



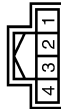
Terminal No.	Color of Wire	Signal Name [Specification]
6	Y	-
7	L	-
8	Y	-
9	BR	-
10	B	-
16	G	-

Connector No.	R3
Connector Name	WIRE TO WIRE
Connector Type	TH04MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	-	-
4	Y	-

Connector No.	R20
Connector Name	WIRE TO WIRE
Connector Type	TH04FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	SHIELD	-
3	-	-
4	R	-

Connector No.	R21
Connector Name	MICROPHONE
Connector Type	TK04FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	MICROPHONE SIGNAL
2	SHIELD	MICROPHONE GND
3	-	-
4	R	MICROPHONE VCC

SYMPTOM DIAGNOSIS

AUDIO SYSTEM SYMPTOMS

Symptom Table

INFOID:000000005490545

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-20, "AUDIO UNIT : Diagnosis Procedure".
	Sound is not heard only from the specific places.	Sound signal circuit of malfunctioning system.
AM/FM radio is not received.	Other audio sounds are normal.	<ul style="list-style-type: none"> Antenna amp. ON signal circuit. Antenna base Antenna feeder

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.
- Charging of iPod® with no 5 V charging circuit is not supported. (e.g. iPod 1G mechanical scroll wheel, iPod Classic 2G touch-sensitive wheel, and iPod Classic 3G 4 touch button)

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-20, "iPod ADAPTER : Diagnosis Procedure" .
iPod® cannot charge the battery.	Not chargeable even when connecting other iPod®. Refer to NOTE.	iPod battery charge 5 V circuit between iPod® and iPod adapter.

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


RELATED TO STEERING SWITCH

Symptoms	Possible malfunction location / Action to take
All steering switches are not operated.	Steering switch signal ground circuit. (steering switch to TEL adapter unit) Refer to AV-26, "Diagnosis Procedure" .
"SOURCE", "SEEK UP", "VOL UP", "SEEK DOWN" and "VOL DOWN" switches are not operated.	Steering switch signal ground circuit. (TEL adapter unit to audio unit) Refer to AV-30, "Diagnosis Procedure" .
Only specified switch cannot be operated.	Replace steering switch.
"  , "SOURCE", "SEEK UP" and "SEEK DOWN" switches are not operated.	Steering switch signal A circuit. (steering switch to TEL adapter unit) Refer to AV-22, "Diagnosis Procedure" .

AUDIO SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[AUDIO SYSTEM]

Symptoms	Possible malfunction location / Action to take
"SOURCE", "SEEK UP" and "SEEK DOWN" switches are not operated.	Steering switch signal A circuit. (TEL adapter unit 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 TEL adapter unit) Refer to AV-24, "Diagnosis Procedure" .
"VOL UP" and "VOL DOWN" switches are not operated.	Steering switch signal B circuit. (TEL adapter unit to audio unit) Refer to AV-29, "Diagnosis Procedure" .

HANDS-FREE PHONE SYMPTOMS

Symptom Table

INFOID:000000005737155

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.

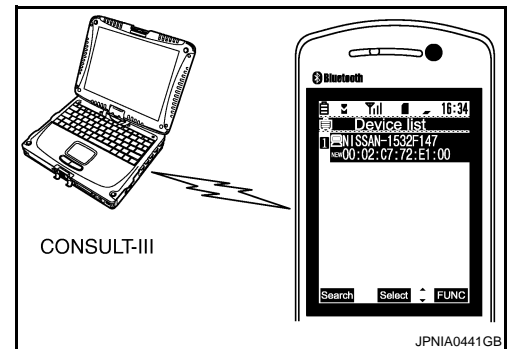
1. Turn on a cellular phone, not connecting Bluetooth™ communication.
2. Start CONSULT-III, then start Windows®.
3. Set CONSULT-III near a cellular phone.

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-21, "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.
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-75, "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-31, "Diagnosis Procedure" .

RELATED TO STEERING SWITCH

HANDS-FREE PHONE SYMPTOMS

[AUDIO SYSTEM]

< SYMPTOM DIAGNOSIS >

Symptoms	Possible malfunction location / Action to take
All steering switches are not operated.	Steering switch signal ground circuit. (steering switch to TEL adapter unit) Refer to AV-26. "Diagnosis Procedure" .
Only specified switch cannot be operated.	Replace steering switch.
"  , "SOURCE", "SEEK UP" and "SEEK DOWN" switches are not operated.	Steering switch signal A circuit. (steering switch to TEL adapter unit) Refer to AV-22. "Diagnosis Procedure" .
"  , "VOL UP" and "VOL DOWN" switches are not operated.	Steering switch signal B circuit. (steering switch to TEL adapter unit) Refer to AV-24. "Diagnosis Procedure" .

NORMAL OPERATING CONDITION

Description

INFOID:000000005490547

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.
	Check if the disc is protected by copyright.
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
System fails to interpret the command correctly.	1. Ensure that the command format is valid.
	2. Ensure that the command is spoken after the tone.
	3. Speak clearly without pausing between words and at a level appropriate to the ambient noise level in the vehicle.
	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.
	5. If more than one command was said at a time, try saying the commands separately.
The system consistently selects the wrong entry from the phone book.	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-18, "Diagnosis Description" .
	1. Ensure that the phone book entry name requested matches what was originally stored. This can be confirmed by using the "List Names" command.
	2. Replace one of the names being confused with a new name.

PRECAUTION

PRECAUTIONS

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

INFOID:000000005745223

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.

Precaution for Trouble Diagnosis

INFOID:000000005745317

AV COMMUNICATION SYSTEM

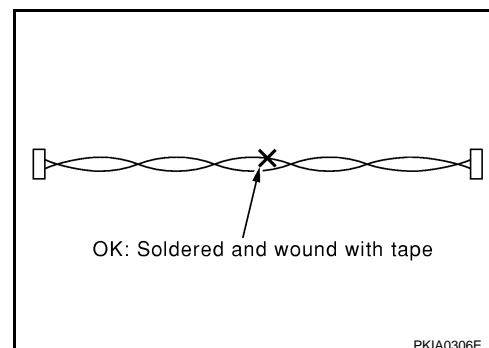
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precaution for Harness Repair

INFOID:000000005745318

AV COMMUNICATION SYSTEM

- Solder the repaired parts, and wrap with tape. [Frays of twisted line must be within 110 mm (4.33 in).]



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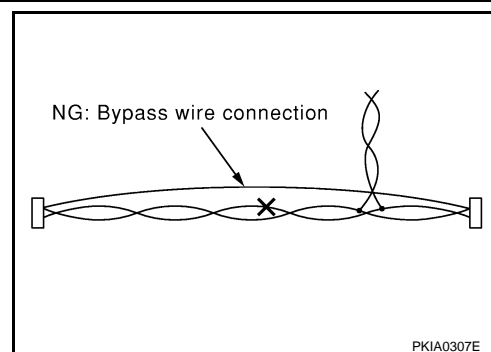
P

PRECAUTIONS

[AUDIO SYSTEM]

< PRECAUTION >

- Do not perform bypass wire connections for the repair parts. (The spliced wire will become separated and the characteristics of twisted line will be lost.)

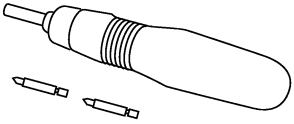


PREPARATION

PREPARATION

Commercial Service Tools

INFOID:0000000005745224

Tool name	Description
<p>Power tool</p>  <p>PBIC0191E</p>	<p>Loosening screws</p>

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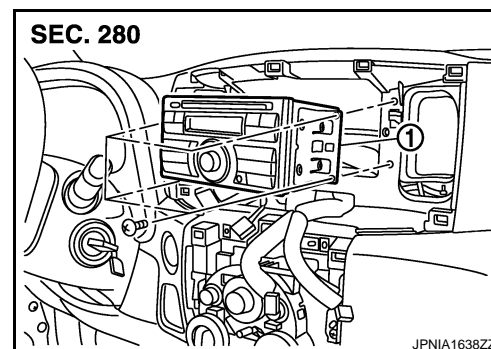
REMOVAL AND INSTALLATION

AUDIO UNIT

Exploded View

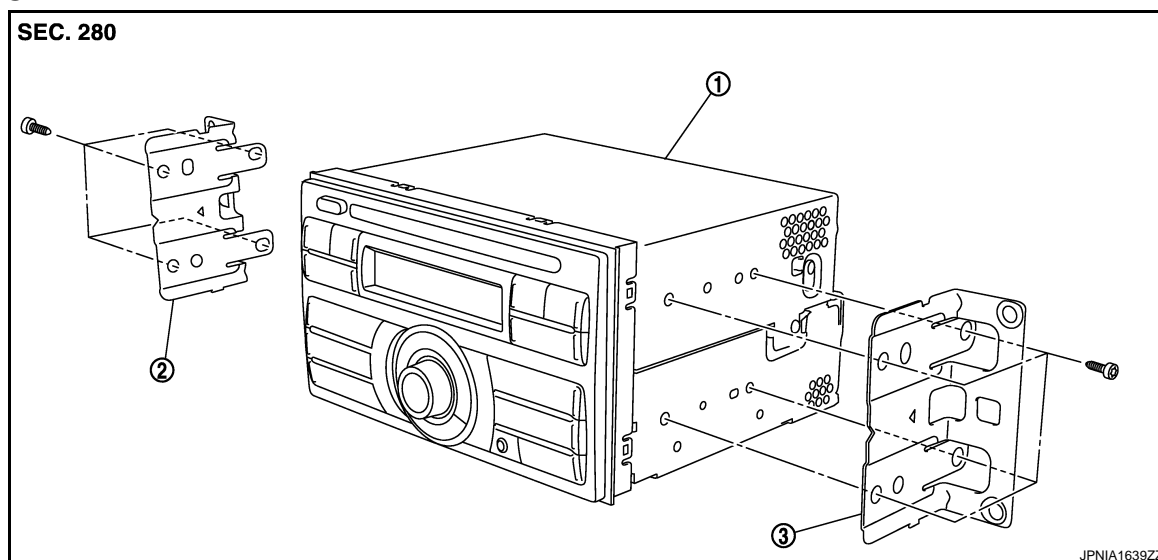
REMOVAL

INFOID:000000005490550



1. Audio unit

DISASSEMBLY



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

Removal and Installation

INFOID:000000005490551

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

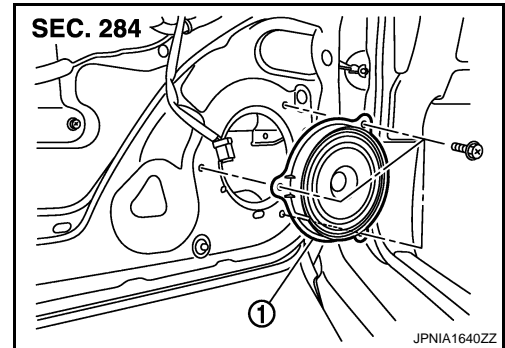
< REMOVAL AND INSTALLATION >

[AUDIO SYSTEM]

FRONT DOOR SPEAKER

Exploded View

INFOID:0000000005736781



1. Front door speaker

Removal and Installation

INFOID:0000000005736782

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.

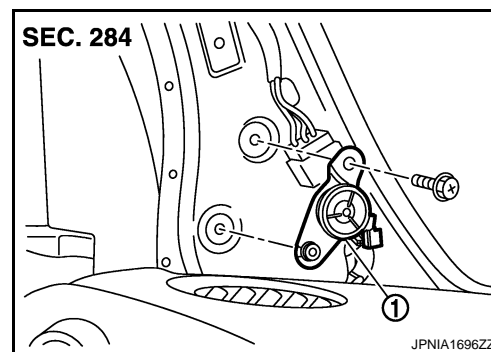
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AV

TWEETER

Exploded View

INFOID:000000005736783



1. Tweeter

Removal and Installation

INFOID:000000005736784

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.

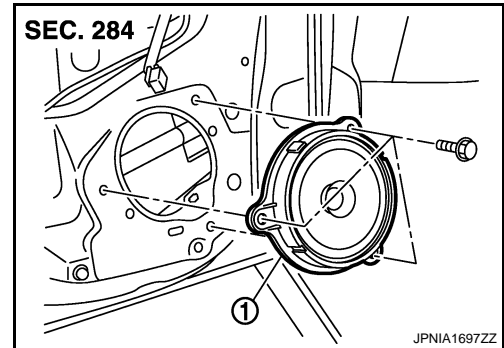
INSTALLATION

Install in the reverse order of removal.

REAR DOOR SPEAKER

Exploded View

INFOID:0000000005736785



1. Rear door speaker

Removal and Installation

INFOID:0000000005736786

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.

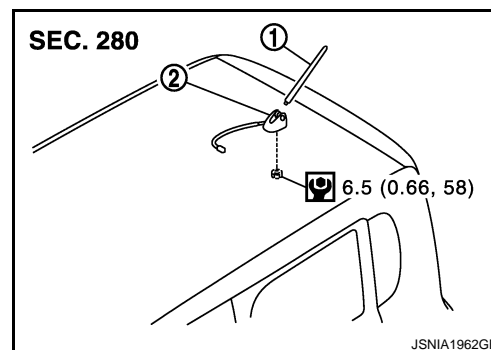
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ANTENNA BASE

Exploded View

INFOID:000000005736789



1. Antenna rod
2. Antenna base

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

Removal and Installation

INFOID:000000005736790

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:

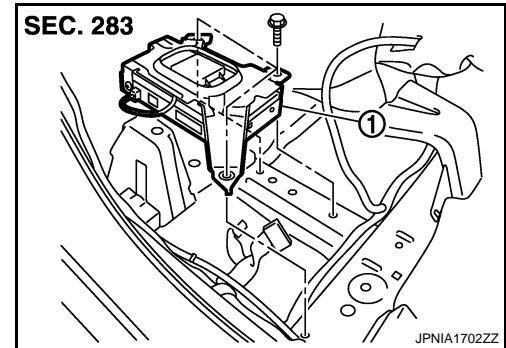
Be careful about tightening torque. Antenna sensitivity becomes poor, and when it is excessive, roof panel may be deformed, when antenna base mounting nut tightening torque is loose.

TEL ADAPTER UNIT

Exploded View

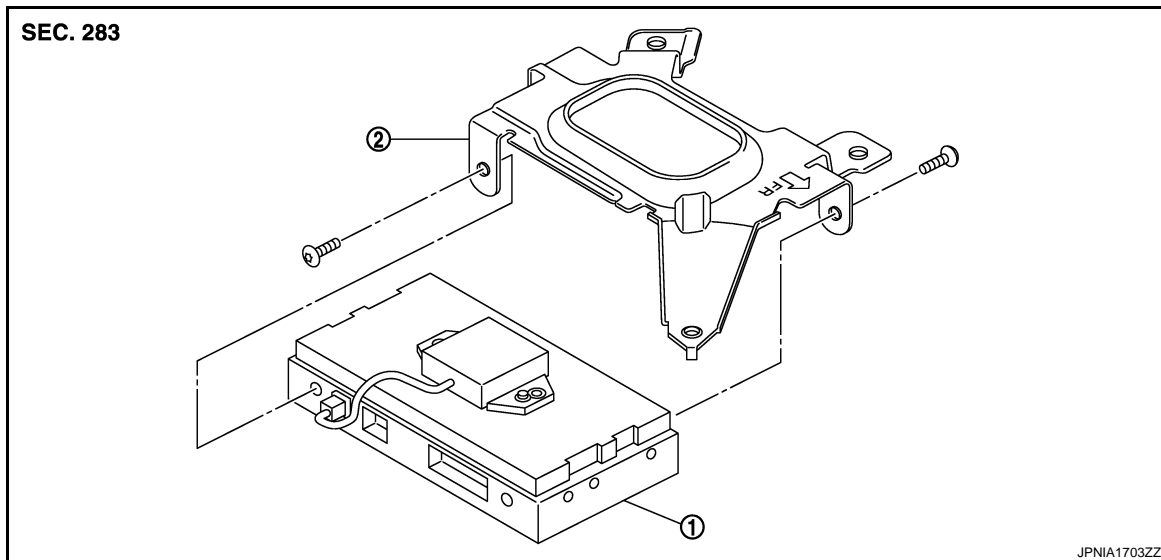
REMOVAL

INFOID:000000005736820



1. TEL adapter unit

DISASSEMBLY



1. TEL adapter unit
2. Bracket

Removal and Installation

INFOID:000000005736821

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.

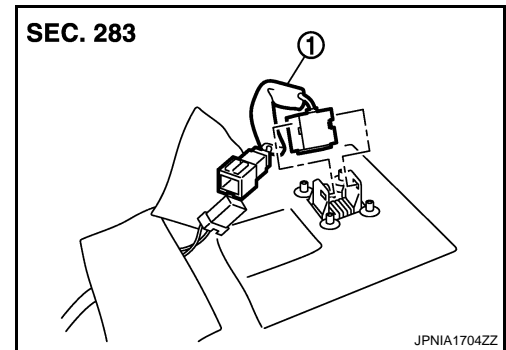
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AV

MICROPHONE

Exploded View

INFOID:000000005490568



1. Microphone

Removal and Installation

INFOID:000000005490569

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

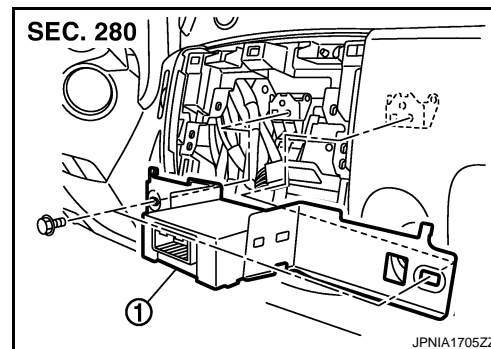
Install in the reverse order of removal.

IPOD ADAPTER

Exploded View

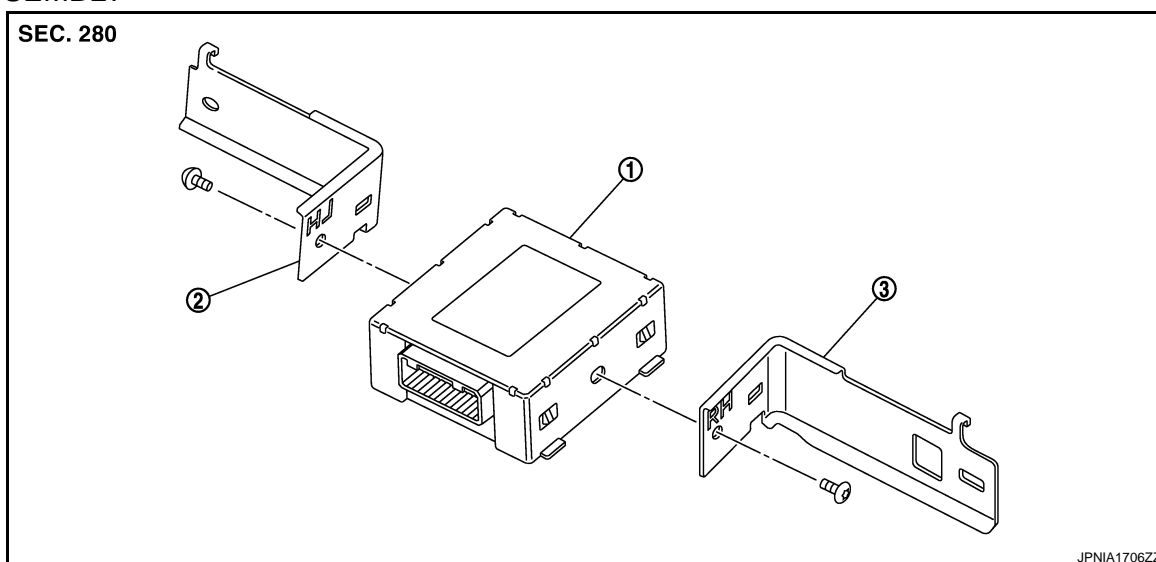
INFOID:000000005490570

REMOVAL



1. iPod adapter

DISASSEMBLY



1. iPod adapter
2. Bracket LH
3. Bracket RH

Removal and Installation

INFOID:000000005490571

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.

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IPOD CONNECTOR

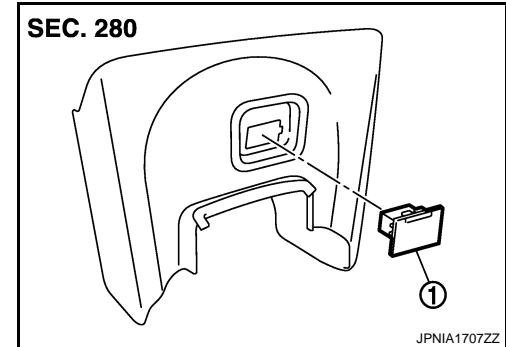
Exploded View

INFOID:000000005490572

REMOVAL

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

DISASSEMBLY



1. iPod connector

Removal and Installation

INFOID:000000005490573

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.

ANTENNA FEEDER

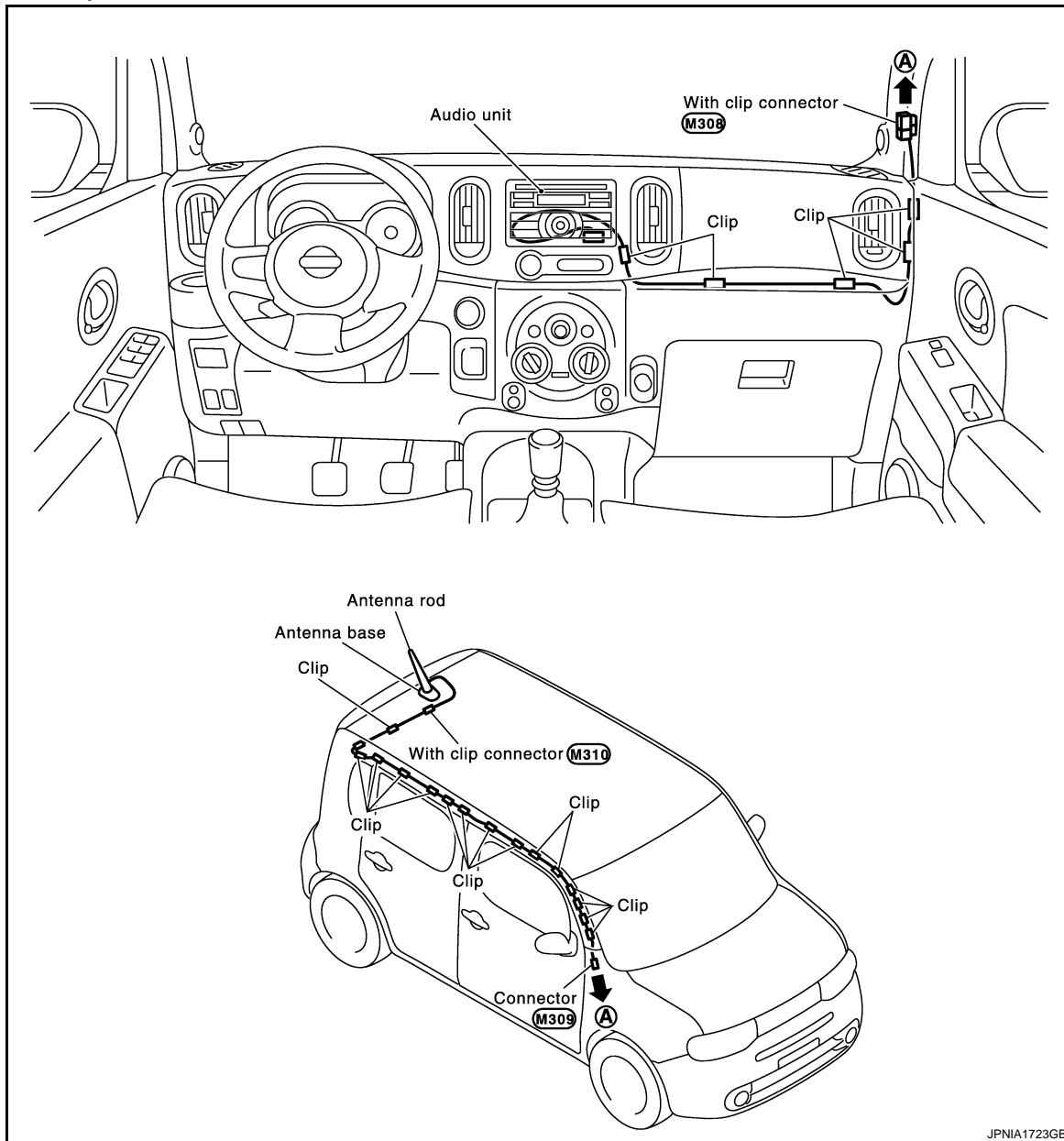
< REMOVAL AND INSTALLATION >

[AUDIO SYSTEM]

ANTENNA FEEDER

Harness Layout

INFOID:000000005490575



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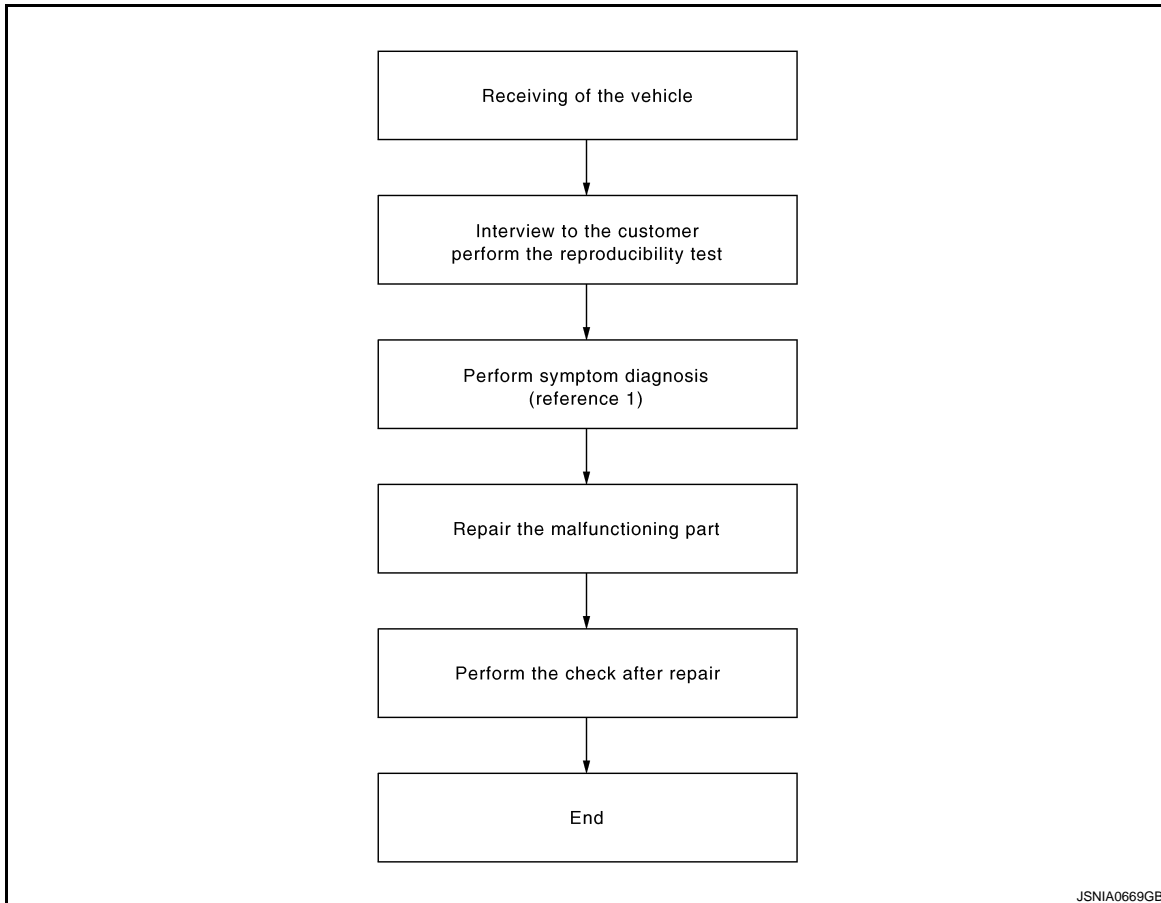
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000005806235

OVERALL SEQUENCE



Reference 1...Refer to [AV-185, "Symptom Table"](#) (audio system) or [AV-187, "Symptom Table"](#) (hands-free phone system).

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-185, "Symptom Table"](#) (audio system) or [AV-187, "Symptom Table"](#) (hands-free phone system).

>> GO TO 3.

3.REPAIR OR REPLACE MALFUNCTIONING PARTS

Repair or replace the malfunctioning parts.

>> GO TO 4.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[DISPLAY 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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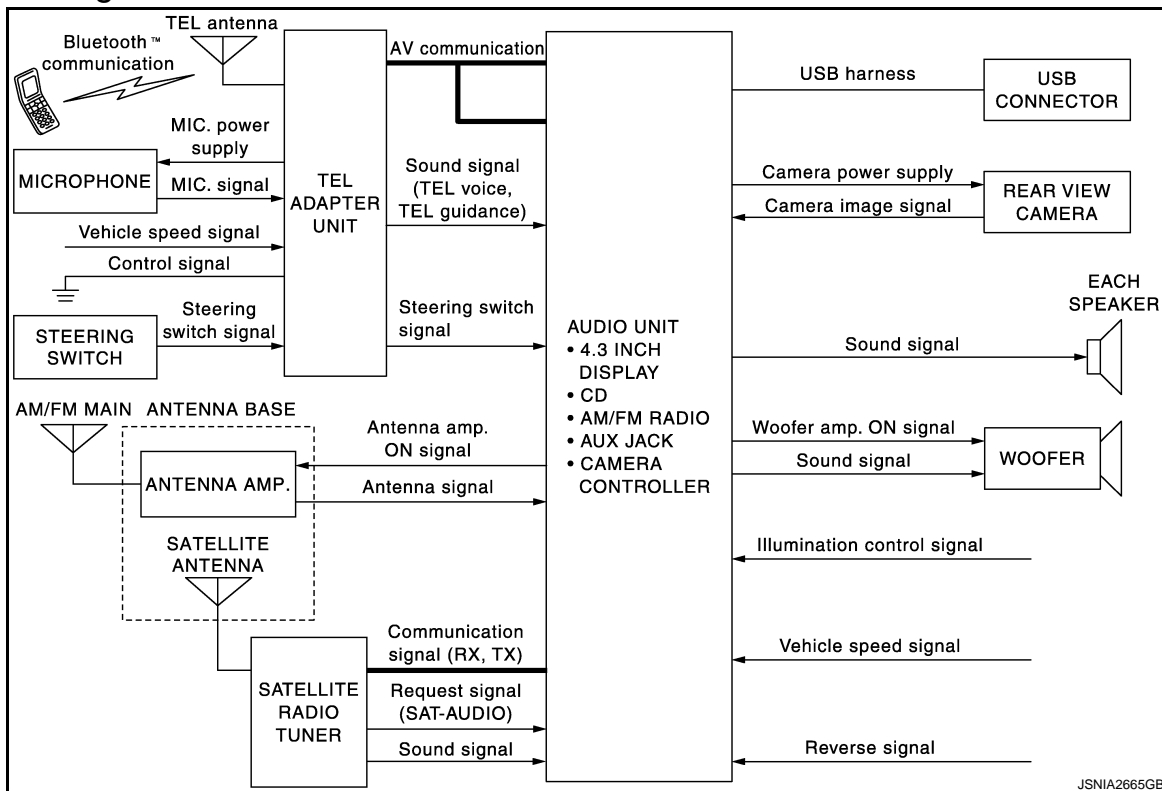
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SYSTEM DESCRIPTION

DISPLAY AUDIO SYSTEM

System Diagram

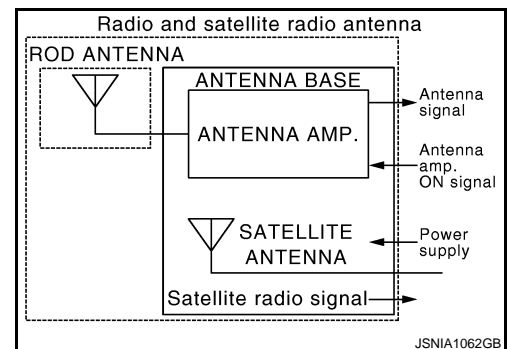
INFOID:000000005701080



JSNIA2665GB

NOTE:

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



JSNIA1062GB

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

System Description

INFOID:000000005701081

AUDIO SYSTEM

The audio system consists of the following components.

COMPONENT NAME
Audio unit (display unit is built in to audio unit)
Rod antenna and antenna base (AM/FM and satellite radio)
Steering switch
Each speaker and woofer

FUNCTION DESCRIPTION

DISPLAY AUDIO SYSTEM

< SYSTEM DESCRIPTION >

[DISPLAY AUDIO SYSTEM]

Operating Signal

Audio system operation can be performed with audio switch and steering switch.

A

AM/FM Radio Mode

- AM/FM radio tuner is built into audio unit.
- Radio signals are received by rod antenna, next they are amplified by antenna amp., and finally the they are input to audio unit. (Antenna amp. is built into antenna base.)
- Audio unit outputs the sound signal to each speaker and woofer.

B

CD Mode

- CD function is built into audio unit.
- Audio unit outputs sound signal to each speaker when CD is inserted to audio unit.

C

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 and woofer.

D

E

USB Connection Function

- iPod® or music files in USB memory can be played.
- iPod® sound signals are transmitted from USB connector to each speaker and woofer via audio unit.
- iPod® is recharged when connected to USB connector.

F

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

G

NOTE:

Use the enclosed USB harness when connecting iPod® to USB connector.

H

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 and woofer.

I

Speed Sensitive Volume

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

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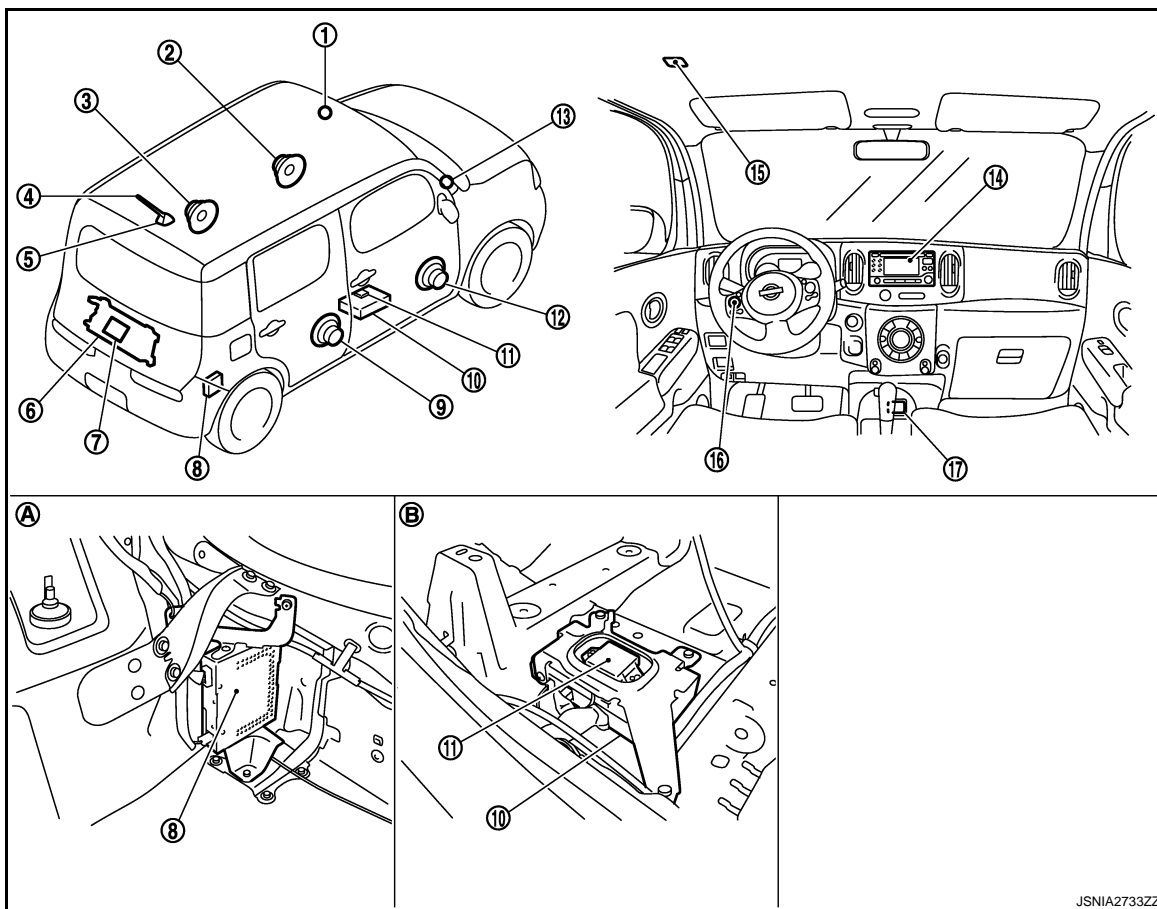
DISPLAY AUDIO SYSTEM

< SYSTEM DESCRIPTION >

[DISPLAY AUDIO SYSTEM]

Component Parts Location

INFOID:000000005701082



- | | | |
|----------------------|--|---------------------------|
| 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. Rear view camera | 8. Satellite radio tuner | 9. Rear door speaker RH |
| 10. TEL adapter unit | 11. TEL antenna | 12. Front door speaker RH |
| 13. Tweeter RH | 14. Audio unit | 15. Microphone |
| 16. Steering switch | 17. USB connector | |
| A. Luggage side RH | B. Floor spacer removed condition | |

Component Description

INFOID:000000005701083

Part name	Description
Audio unit	<ul style="list-style-type: none"> Controls audio, hands-free phone, USB connection, AUX connection, satellite radio and rear view monitor functions. Display unit is built in 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 range sound.

DISPLAY AUDIO SYSTEM

< SYSTEM DESCRIPTION >

[DISPLAY AUDIO SYSTEM]

Part name	Description
Steering switch	<ul style="list-style-type: none"> • Operation for audio and hands-free phone are possible. • Steering switch signal (operation signal) is output to TEL adapter unit. • Steering switch signal (operation signal) is output to audio unit through TEL adapter unit.
Antenna base	<p>A radio antenna base integrated with radio antenna amp. and satellite radio antenna is adopted.</p> <p>ANTENNA AMP.</p> <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. <p>SATELLITE RADIO ANTENNA</p> <ul style="list-style-type: none"> • Receives satellite radio waves and outputs it to 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.
USB connector	Sound signal of USB input is transmitted to audio unit.

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REAR VIEW MONITOR SYSTEM

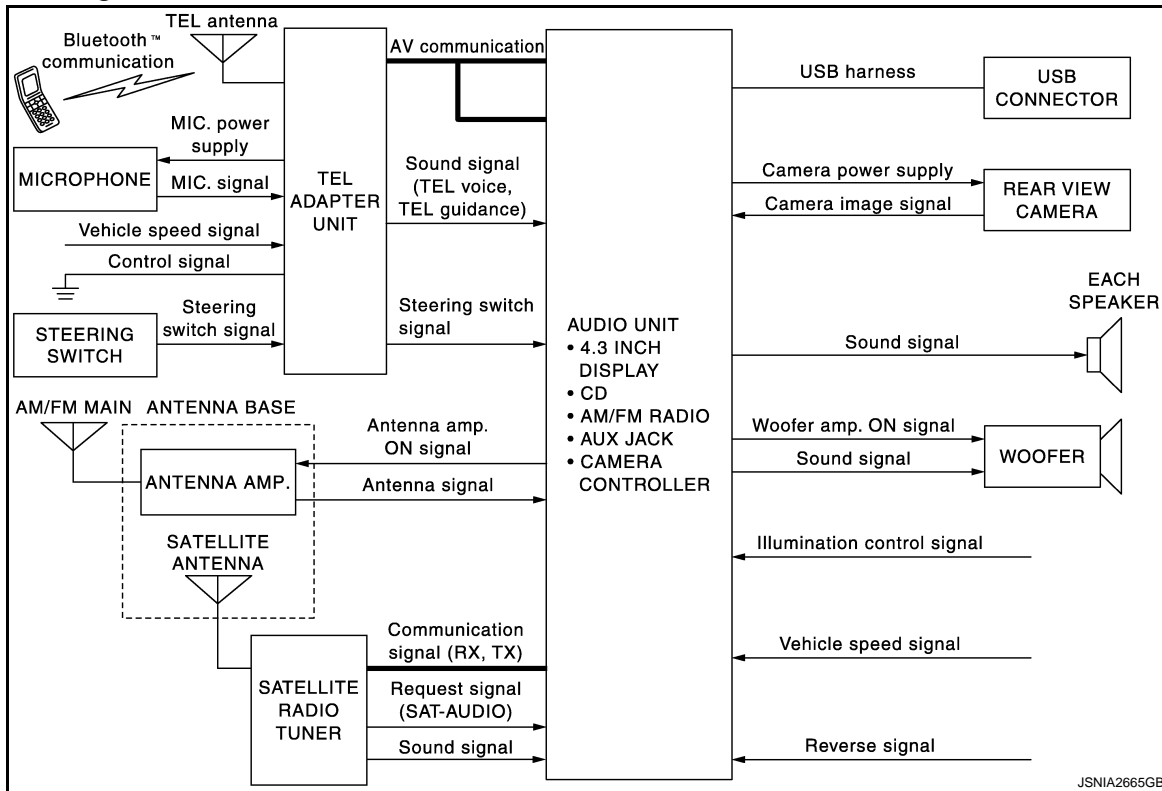
< SYSTEM DESCRIPTION >

[DISPLAY AUDIO SYSTEM]

REAR VIEW MONITOR SYSTEM

System Diagram

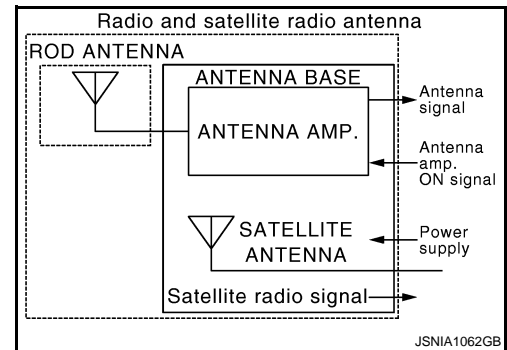
INFOID:000000005805679



JSNIA2665GB

NOTE:

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



JSNIA1062GB

System Description

INFOID:000000005805672

CAMERA IMAGE OPERATION PRINCIPLE

- The audio unit supplies power to the rear view camera when receiving a reverse signal.
- The rear view camera transmits camera images to the audio unit when power is supplied from the audio unit.
- The audio unit combines a warning message and fixed guide lines with an image received from the rear view camera to display a rear view camera image on the screen.

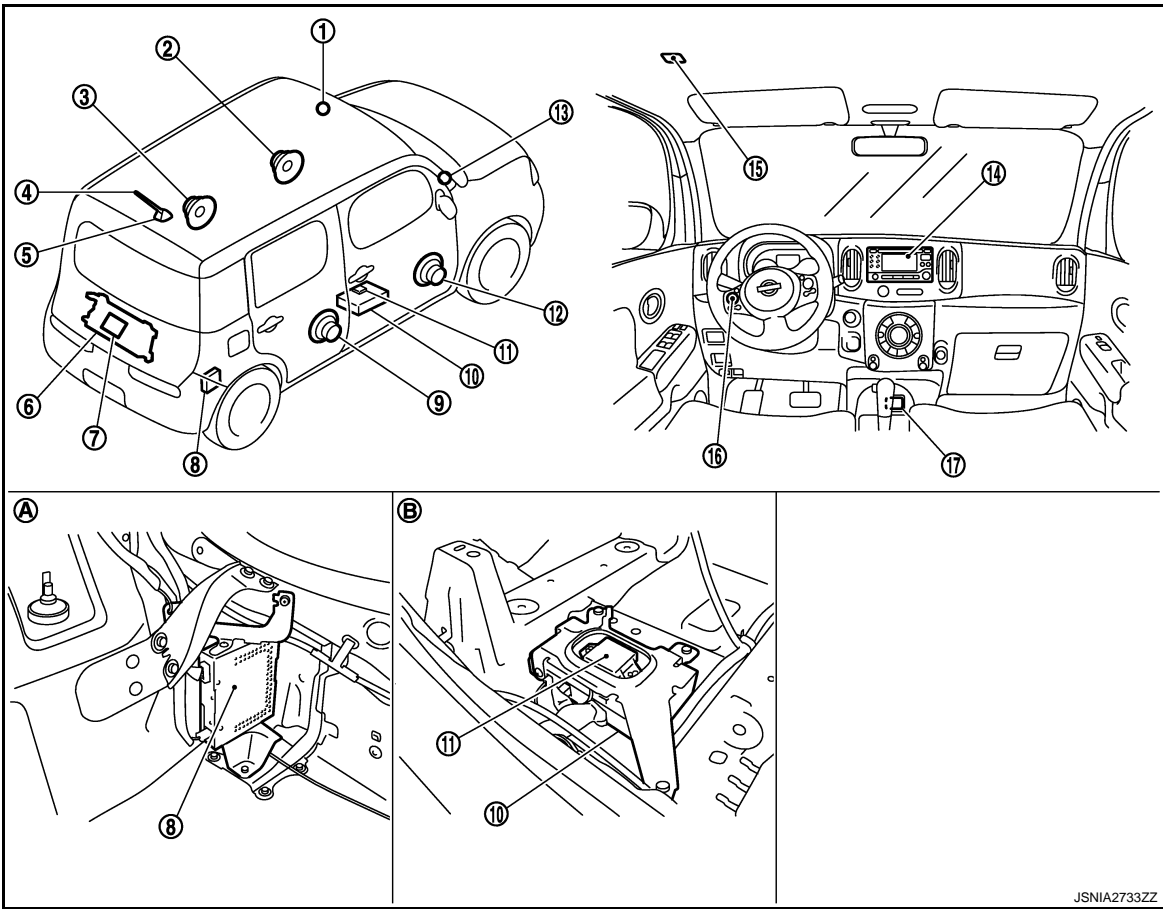
REAR VIEW MONITOR SYSTEM

< SYSTEM DESCRIPTION >

[DISPLAY AUDIO SYSTEM]

Component Parts Location

INFOID:000000005805677



Component Description

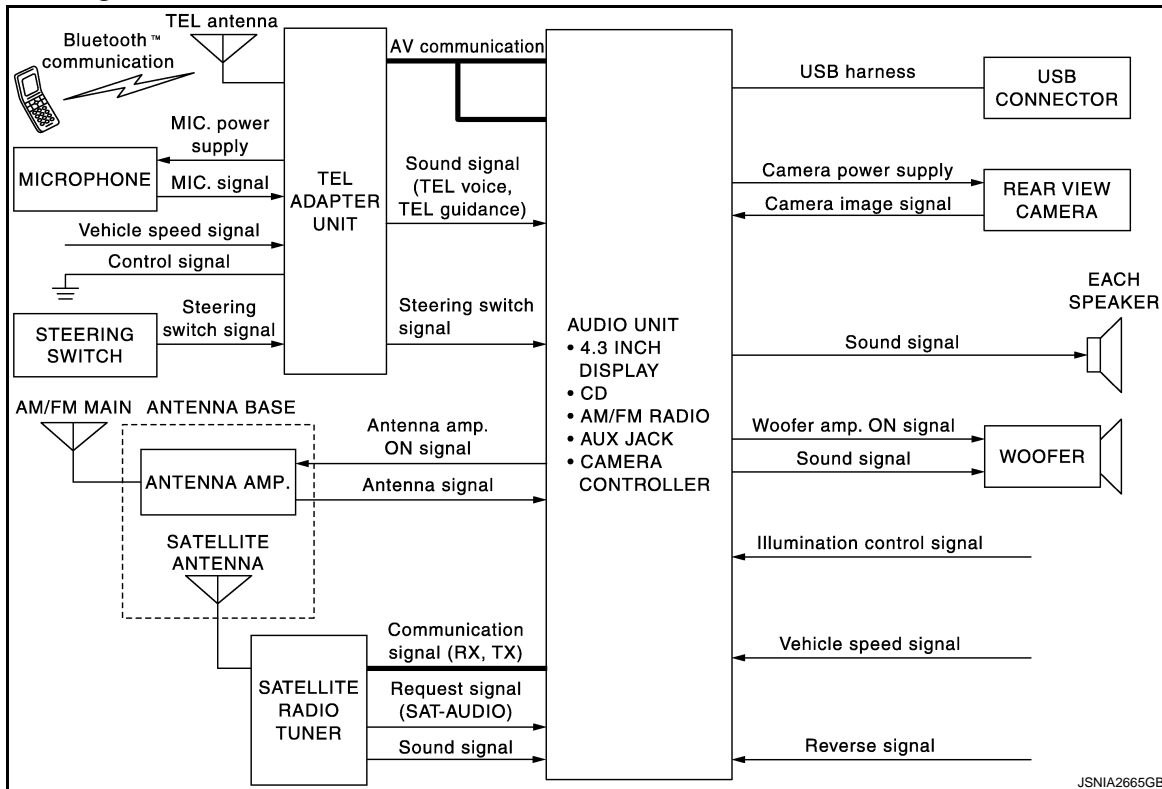
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Part name	Description
Audio unit	<ul style="list-style-type: none">• Camera power supply is transmitted to rear view camera.• Camera image signal is input from rear view camera.• Warning message in rear view monitor image is illustrated.
Rear view camera	<ul style="list-style-type: none">• Camera power supply is input from audio unit.• The image of vehicle rear view is transmitted to audio unit.

HANDS-FREE PHONE SYSTEM

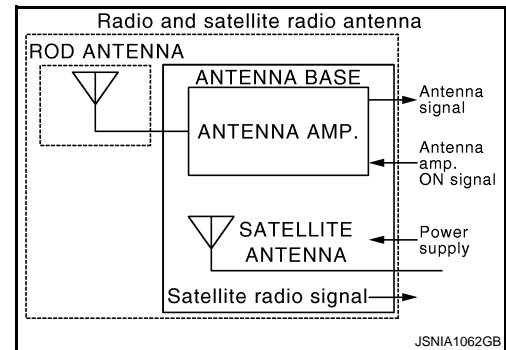
System Diagram

INFOID:000000005701084



NOTE:

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



System Description

INFOID:000000005701085

- 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-111, "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.

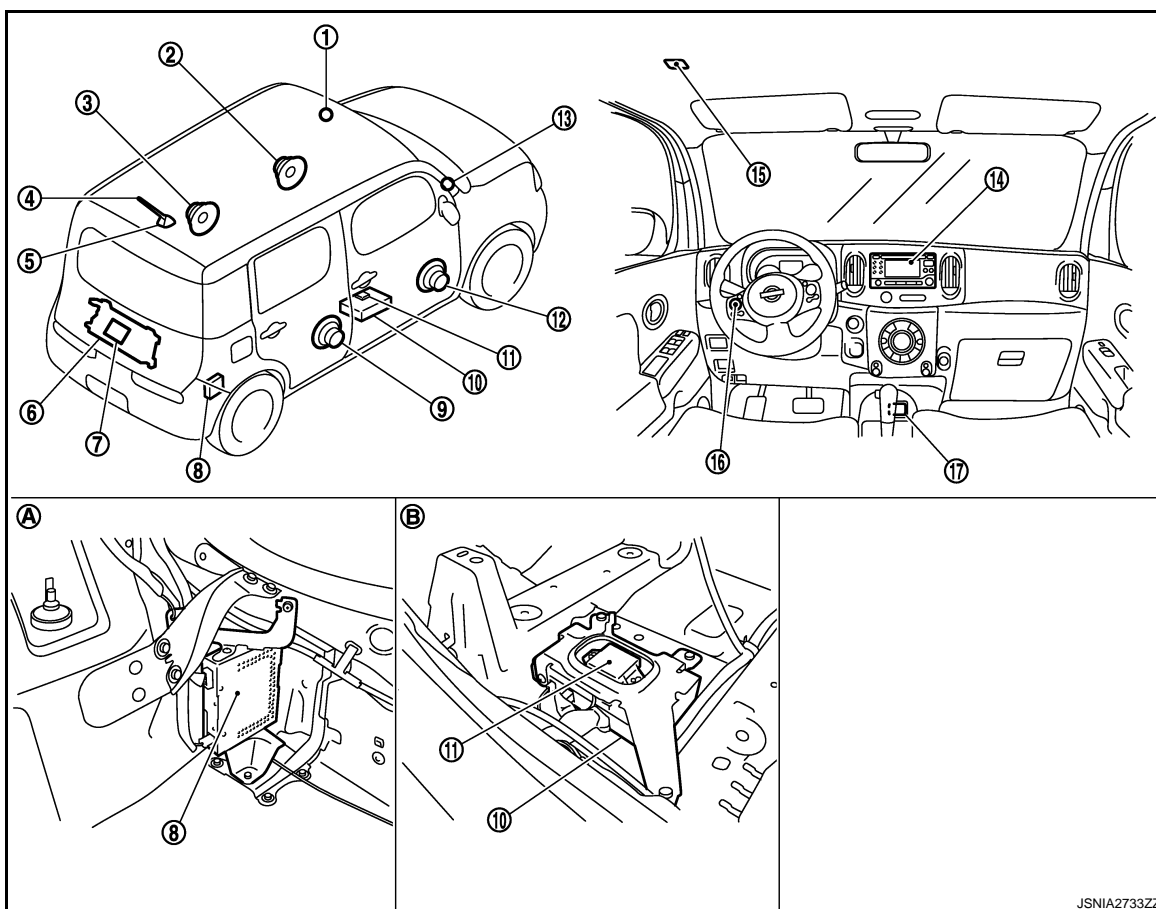
HANDS-FREE PHONE SYSTEM

[DISPLAY AUDIO SYSTEM]

< SYSTEM DESCRIPTION >

Component Parts Location

INFOID:000000005820228



- | | | |
|----------------------|--|---------------------------|
| 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. Rear view camera | 8. Satellite radio tuner | 9. Rear door speaker RH |
| 10. TEL adapter unit | 11. TEL antenna | 12. Front door speaker RH |
| 13. Tweeter RH | 14. Audio unit | 15. Microphone |
| 16. Steering switch | 17. USB connector | |
| A. Luggage side RH | B. Floor spacer removed condition | |

Component Description

INFOID:000000005701087

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 through TEL adapter unit.
Front door speaker	Receives TEL voice and voice guidance signals from audio unit.
Tweeter	
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 Steering switch signal (operation signal) is output to audio unit through TEL adapter unit.

HANDS-FREE PHONE SYSTEM

< SYSTEM DESCRIPTION >

[DISPLAY 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 VCC) 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)

Diagnosis Description

INFOID:000000005728594

ON BOARD DIAGNOSIS

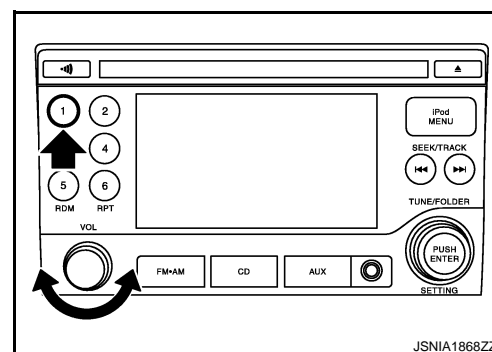
- The trouble diagnosis function has a self-diagnosis mode for conducting trouble diagnosis automatically and a confirmation/adjustment mode for operating manually.
- Self-diagnosis mode performs the audio unit diagnosis, and it indicates the results to the display.
- The confirmation/adjustment mode allows the technician to check, modify or adjust the vehicle signals and set values, as well as to monitor the system error records. The checking, modifying or adjusting generally require human intervention and judgment (the system cannot make judgment automatically).

On Board Diagnosis Item

Mode		Description
Self Diagnosis		Audio unit diagnosis.
Confirmation/ Adjustment	Display Diagnosis	The following check functions are available: color tone check by color bar display, light and shade check by gray scale display.
	Vehicle Signals	Diagnosis of signals can be performed for vehicle speed, lights, reverse and vehicle recognition.
	Speaker Test	The connection of a speaker can be confirmed by test tone.
	Error History	The system malfunction and the frequency when occurring in the past are displayed. When the malfunctioning item is selected, the time and place that the selected malfunction last occurred are displayed.
	Camera System	Guiding line position that overlaps rear view camera image can be adjusted.
	AV COMM Diagnosis	The communication condition of each unit of display audio system can be monitored.
	Delete Unit Connection Log	Not used for this vehicle.
	Initialize Setting	Initializes the audio unit memory.

STARTING PROCEDURE

1. Start the engine.
2. Turn the audio system OFF.
3. While pressing the “1” button, turn the volume control dial clockwise or counterclockwise for 40 clicks or more. (When the self-diagnosis mode is started, a short beep will be heard.)



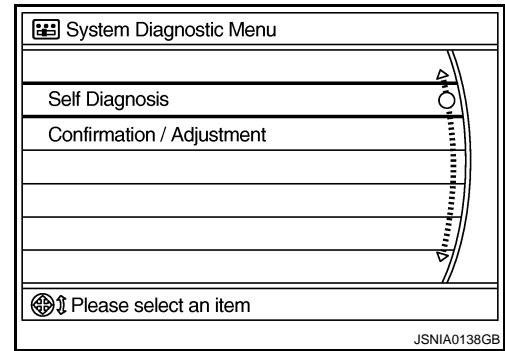
4. Shifting from current screen to system initial screen is performed by pressing “iPod MENU” button.

DIAGNOSIS SYSTEM (AUDIO UNIT)

< SYSTEM DESCRIPTION >

[DISPLAY AUDIO SYSTEM]

- The trouble diagnosis initial screen is displayed, and then the items of "Self Diagnosis" and "Confirmation/Adjustment" can be selected.



SELF-DIAGNOSIS MODE

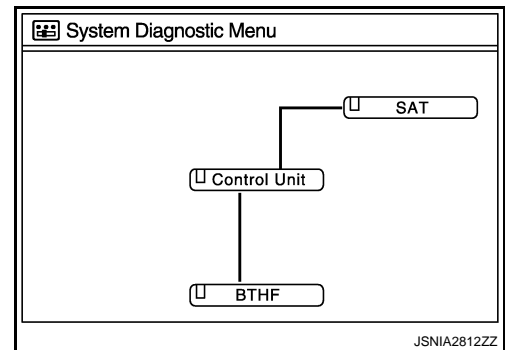
- Start the self-diagnosis function and select "Self Diagnosis".
 - Self-diagnosis subdivision screen is displayed, and the self-diagnosis mode starts.
 - The bar graph visible on the center of the self-diagnosis subdivision screen indicates progress of the trouble diagnosis.
- Diagnosis results are displayed after the self-diagnosis is completed. The unit names and the connection lines are color-coded according to the diagnostic results.

Diagnosis results	Unit	Connection line
Normal	Green	Green
Connection malfunction	Gray	Yellow
Unit malfunction ^{Note}	Red	Green

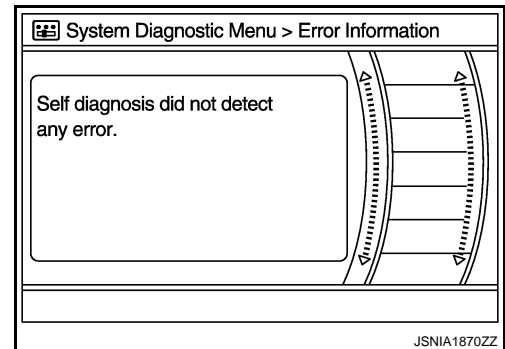
NOTE:

Control unit (audio unit) and is displayed in red.

- Replace audio unit if "Self-Diagnosis did not run because of a control unit malfunction" is indicated. The symptom is audio unit internal error. Refer to [AV-194, "Exploded View"](#).
- If multiple errors occur at the same time for a single unit, the screen switch colors are determined according to the following order of priority: red > gray.



- The comments of the self-diagnosis results can be viewed with a component in the diagnosis result screen.



Detection Range of Self-diagnosis Mode

- The self-diagnosis mode allows the technician to diagnose the connection in the communication line between audio unit and each unit and the internal operation of the audio unit.
- If there is malfunction to the switch of the audio unit because the start condition of the diagnosis function is switch operation, the on board diagnosis function cannot be started.

SELF-DIAGNOSIS RESULTS

Check the applicable display at the following table, and then repair the malfunctioning parts.

Only Unit Part Is Displayed In Red.

DIAGNOSIS SYSTEM (AUDIO UNIT)

< SYSTEM DESCRIPTION >

[DISPLAY AUDIO SYSTEM]

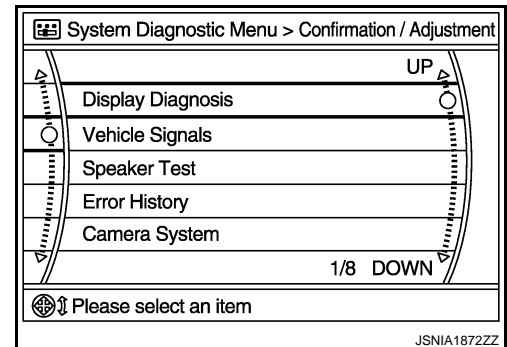
Screen switch	Description	Possible malfunction location / Action to take
Control unit	Malfunction is detected in audio unit power supply and ground circuits.	Check audio unit power supply and ground circuits. When detecting no malfunction in those components, replace audio unit. Refer to AV-194, "Exploded View" .

A Connecting Cable Between Units Is Displayed In Yellow.

Area with yellow connection lines	Description	Possible malfunction location / Action to take
Control unit ⇔ SAT	When either one of the following items is detected: <ul style="list-style-type: none"> satellite radio tuner power supply and ground circuit malfunction is detected. malfunction is detected in communication circuits between audio unit and satellite radio tuner. malfunction is detected in request signal circuit between audio unit and satellite radio tuner. 	<ul style="list-style-type: none"> Satellite radio tuner power supply and ground circuit. Communication circuit between audio unit and satellite radio tuner. Request signal circuit between audio unit and satellite radio tuner.
Control unit ⇔ BTHF	When either one of the following items is detected: <ul style="list-style-type: none"> TEL adapter unit power supply and ground circuits are malfunctioning. AV communication circuits between audio unit and TEL adapter unit are malfunctioning. 	<ul style="list-style-type: none"> TEL adapter unit power supply and ground circuits. AV communication circuits between audio unit and TEL adapter unit.

CONFIRMATION/ADJUSTMENT MODE

1. Start the diagnosis function and select "Confirmation/Adjustment". The confirmation/adjustment mode indicates where each item can be checked or adjusted.
2. Select each switch on the "Confirmation/Adjustment Mode" screen to display the relevant trouble diagnosis screen. Press the "iPod MENU" switch to return to the initial Confirmation/Adjustment mode screen.



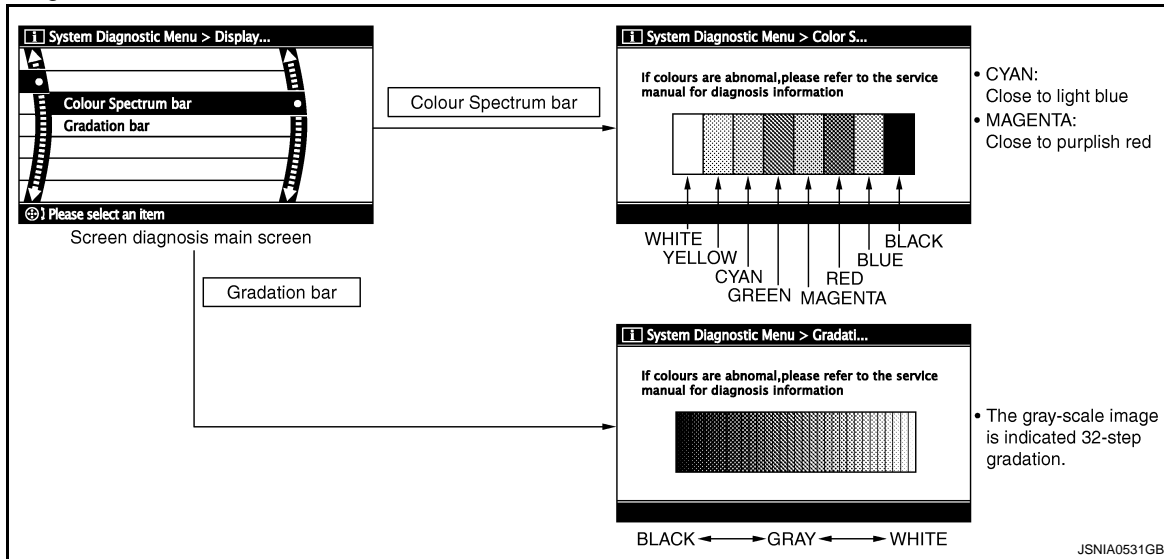
AV

DIAGNOSIS SYSTEM (AUDIO UNIT)

< SYSTEM DESCRIPTION >

[DISPLAY AUDIO SYSTEM]

Display Diagnosis



Vehicle Signals

A comparison check can be made of each actual vehicle signal and the signals recognized by the system.

System Diagnostic Menu > Vehicle Signals

Vehicle speed	OFF
Lights	OFF
Reverse	OFF
EQ Pin	0

JSNIA1874ZZ

Diagnosis item	Display	Vehicle status	Remarks
Vehicle speed	ON	Vehicle speed > 0 km/h (0 MPH)	Changes in indication may be delayed. This is normal.
	OFF	Vehicle speed = 0 km/h (0 MPH)	
Lights	ON	Light switch is ON	—
	OFF	Light switch is OFF	
Reverse	ON	Shift position is "R"	Changes in indication may be delayed. This is normal.
	OFF	Shift position is other than "R"	
EQ Pin	0	—	Status of EQ profile selection signal. "0" is displayed for this vehicle.

Speaker Test

Select "Speaker Test" to display the Speaker Diagnosis screen. Press "Start" to generate a test tone in a speaker. Press "Start" again to generate a test tone in the next speaker. Press "End" to stop the test tones.

System Diagnostic Menu > Speaker Test

Speaker Testing
Front Left Tweeter

Speaker Settings
—

Start

End

Push start to test next speaker

JSNIA0150GB

Error History

DIAGNOSIS SYSTEM (AUDIO UNIT)

< SYSTEM DESCRIPTION >

[DISPLAY AUDIO SYSTEM]

The self-diagnosis results are judged depending on whether any error occurs from when “Self-diagnosis” is selected until the self-diagnosis results are displayed.

However, the diagnosis results are judged normal if an error has occurred before the ignition switch is turned ON and then no error has occurred until the self-diagnosis start. Check the “Error Record” to detect any error that may have occurred before the self-diagnosis start because of this situation.

The frequency of occurrence is displayed in a count up manner. The actual count up method differs depending on the error item.

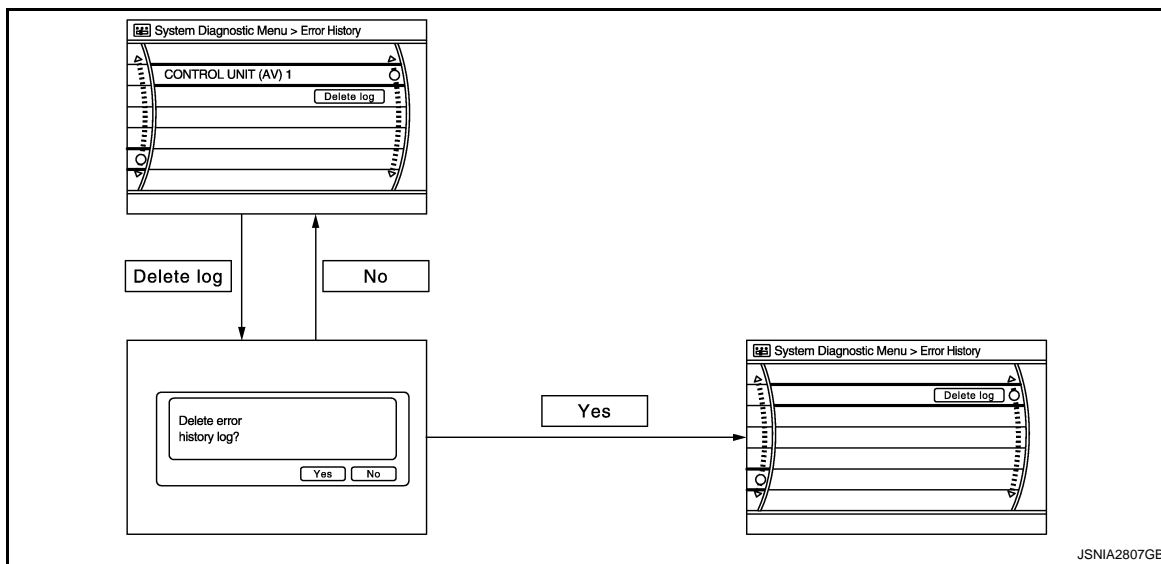
Count up method A

- The counter is set to 40 if an error occurs. 1 is subtracted from the counter if the condition is normal at a next ignition ON cycle.
- The counter lower limit is 1. The counter can be reset (no error record display) with the “Delete log” switch.

Count up method B

- The counter increases by 1 if an error occurs when ignition switch is ON. The counter will not decrease even if the condition is normal at the next ignition ON cycle.
- The counter upper limit is 50. Any counts exceeding 50 are ignored. The counter can be reset (no error record display) with the “Delete log” switch.

Display type of occurrence frequency	Error history display item
Count up method A	AV communication line, CONTROL UNIT (AV)
Count up method B	CAN Controller Memory Error



Error item

Some error items may be displayed simultaneously according to the cause. If some error items are displayed simultaneously, the detection of the cause can be performed by the combination of display items

Error item	Description	Possible malfunction factor/Action to take
CONTROL UNIT (AV)	AV communication circuit initial diagnosis malfunction is detected.	Replace the audio unit. Refer to AV-194, "Exploded View"
CAN Controller Memory Error	AV control unit malfunction is detected.	

DIAGNOSIS SYSTEM (AUDIO UNIT)

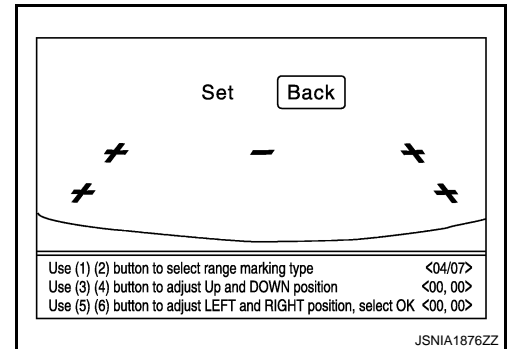
< SYSTEM DESCRIPTION >

[DISPLAY AUDIO SYSTEM]

Error item	Description	Possible malfunction factor/Action to take
SAT Connection Error	When either one of the following items is detected: <ul style="list-style-type: none"> • satellite radio tuner power supply and ground circuit malfunction is detected. • malfunction is detected in communication circuits between audio unit and satellite radio tuner. • malfunction is detected in request signal circuit between audio unit and satellite radio tuner. 	<ul style="list-style-type: none"> • Satellite radio tuner power supply and ground circuit. • Communication circuit between audio unit and satellite radio tuner. • Request signal circuit between audio unit and satellite radio tuner.
<ul style="list-style-type: none"> • AV COMM CIRCUIT • H/F Unit Connection Error 	When either one of the following items is detected: <ul style="list-style-type: none"> • TEL adapter unit power supply and ground circuits are malfunctioning. • AV communication circuits between audio unit and TEL adapter unit are malfunctioning. 	<ul style="list-style-type: none"> • TEL adapter unit power supply and ground circuits. • AV communication circuits between audio unit control unit and TEL adapter unit.

Camera System

Use this mode to adjust the guide line display position of the rear view monitor if necessary after removing the rear view camera.



AV COMM Diagnosis

- Displays the communication status between audio unit (master unit) and each unit.
- The error counter displays "OK" if any malfunction was not detected in the past and displays "0" if a malfunction is detected. It increases by 1 if the condition is normal at the next ignition switch ON cycle. The upper limit of the counter is 39.
- The error counter is erased if "Reset" is pressed.

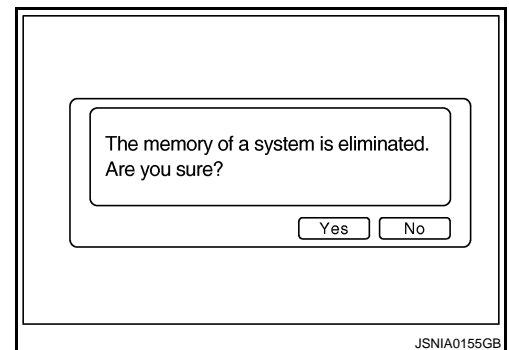
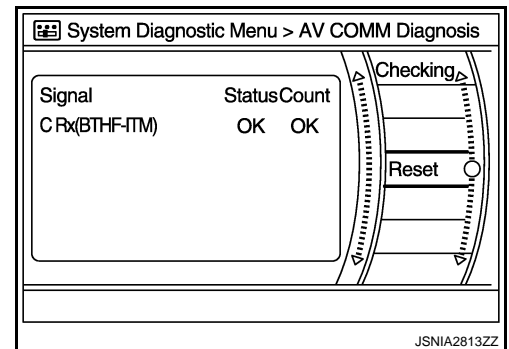
Items	Status (Current)	Counter (Past)
C Rx(BTHF-ITM)	OK / ???	OK / 0 – 39

NOTE:

"???" indicates UNKWN.

Initialize Settings

Deletes data stored from the audio unit.



DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

< SYSTEM DESCRIPTION >

[DISPLAY AUDIO SYSTEM]

DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

Diagnosis Description

INFOID:000000005701090

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

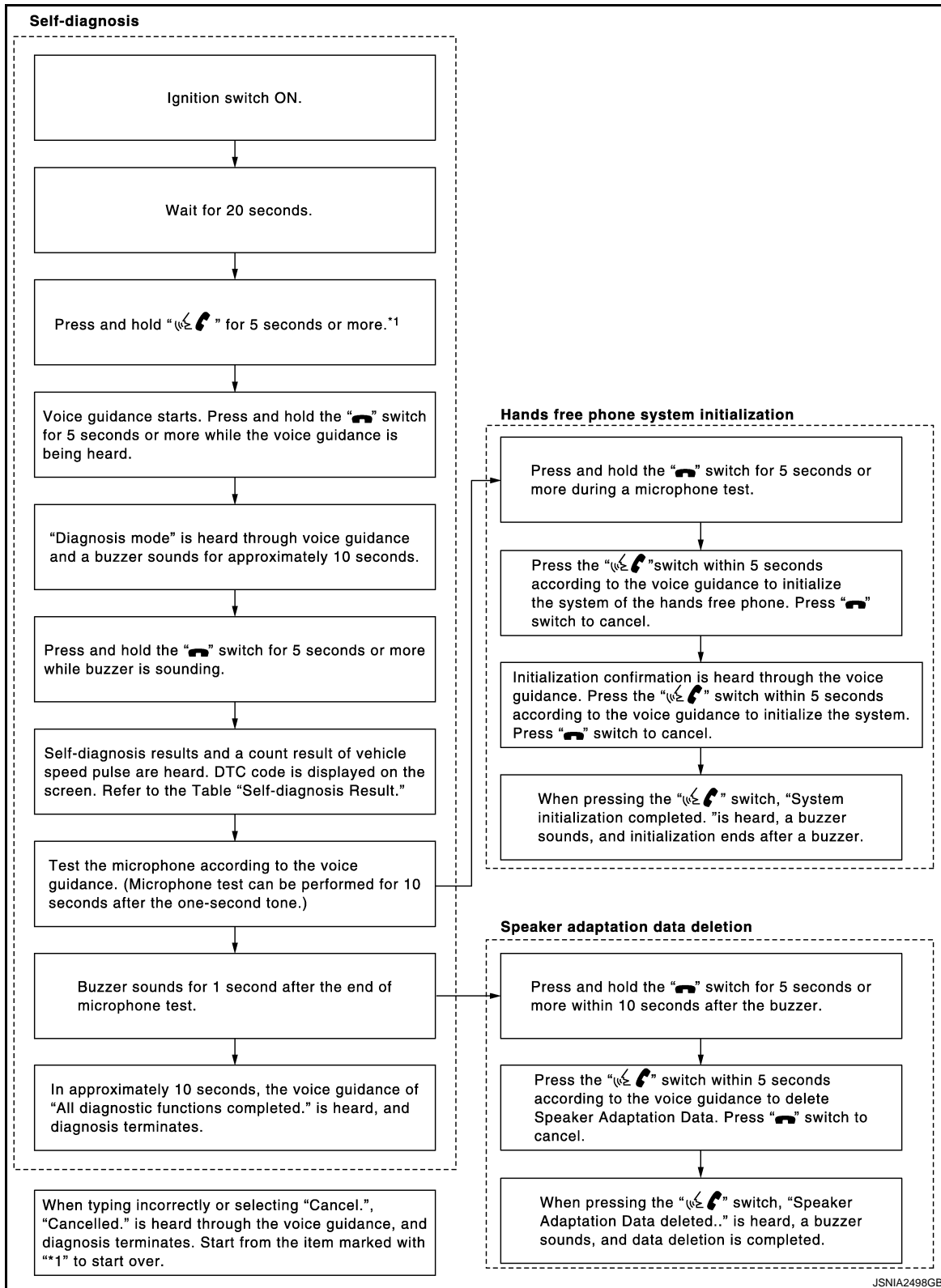
The error count guides "0" when the error occurs. The next time it counts up "1" if it is normal with the ignition switch ON. It continues the count up unless the initialization of hands-free phone system is performed.

DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

< SYSTEM DESCRIPTION >

[DISPLAY AUDIO SYSTEM]

FLOW CHART OF TROUBLE DIAGNOSIS



POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[DISPLAY AUDIO SYSTEM]

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT AUDIO UNIT

AUDIO UNIT : Diagnosis Procedure

INFOID:000000005797262

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	M93	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.

SATELLITE RADIO TUNER

SATELLITE RADIO TUNER : Diagnosis Procedure

INFOID:000000005797264

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

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[DISPLAY AUDIO SYSTEM]

TEL ADAPTER UNIT : Diagnosis Procedure

INFOID:000000005797265

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

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

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.

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.

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

< DTC/CIRCUIT DIAGNOSIS >

[DISPLAY AUDIO SYSTEM]

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

Description

INFOID:000000005797303

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

Diagnosis Procedure

INFOID:000000005797304

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

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

TEL adapter unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
B54	12	M33	24	Existed

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

TEL adapter unit		Ground	Continuity
Connector	Terminal		
B54	12		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 TEL ADAPTER UNIT VOLTAGE

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

(+)		(-)		Voltage (Approx.)
TEL adapter unit				
Connector	Terminal	Connector	Terminal	
B54	12	B54	14	5.0 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace TEL adapter unit. Refer to [AV-202, "Exploded View"](#).

4.CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-116, "Component Inspection"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch. Refer to [ST-9, "Exploded View"](#).

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

< DTC/CIRCUIT DIAGNOSIS >

[DISPLAY AUDIO SYSTEM]

Component Inspection

INFOID:000000005797305

Measure the resistance between the steering switch connector terminals 14 to 17 and 15 to 17.

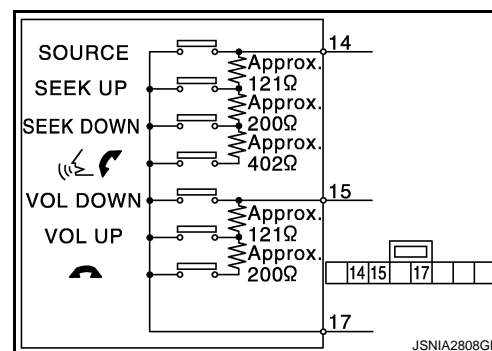
Standard

Between terminals 14 and 17

 switch ON	: Approx. 709 – 737 Ω
SEEK DOWN switch ON	: Approx. 315 – 327 Ω
SEEK UP switch ON	: Approx. 119 – 123 Ω
SOURCE switch ON	: Approx. 0 Ω

Between terminals 15 and 17

 switch ON	: Approx. 315 – 327 Ω
VOL UP switch ON	: Approx. 119 – 123 Ω
VOL DOWN switch ON	: Approx. 0 Ω



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

< DTC/CIRCUIT DIAGNOSIS >

[DISPLAY AUDIO SYSTEM]

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

Description

INFOID:000000005797306

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

Diagnosis Procedure

INFOID:000000005797307

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

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

TEL adapter unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
B54	13	M33	31	Existed

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

TEL adapter unit		Ground	Continuity
Connector	Terminal		
B54	13		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 TEL ADAPTER UNIT VOLTAGE

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

(+)		(-)		Voltage (Approx.)
TEL adapter unit				
Connector	Terminal	Connector	Terminal	
B54	13	B54	14	5.0 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace TEL adapter unit. Refer to [AV-202, "Exploded View"](#).

4.CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-118, "Component Inspection"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch. Refer to [ST-9, "Exploded View"](#).

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

< DTC/CIRCUIT DIAGNOSIS >

[DISPLAY AUDIO SYSTEM]

Component Inspection

INFOID:000000005797308

Measure the resistance between the steering switch connector terminals 14 to 17 and 15 to 17.

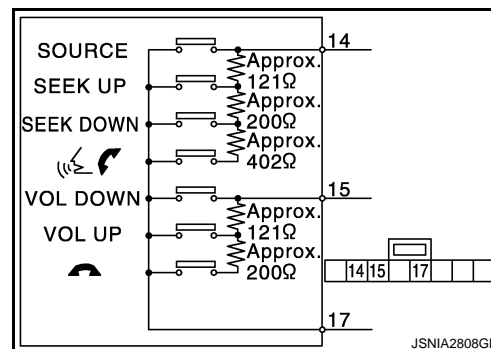
Standard

Between terminals 14 and 17

 switch ON	: Approx. 709 – 737 Ω
SEEK DOWN switch ON	: Approx. 315 – 327 Ω
SEEK UP switch ON	: Approx. 119 – 123 Ω
SOURCE switch ON	: Approx. 0 Ω

Between terminals 15 and 17

 switch ON	: Approx. 315 – 327 Ω
VOL UP switch ON	: Approx. 119 – 123 Ω
VOL DOWN switch ON	: Approx. 0 Ω



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

< DTC/CIRCUIT DIAGNOSIS >

[DISPLAY AUDIO SYSTEM]

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

Description

INFOID:000000005797309

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

Diagnosis Procedure

INFOID:000000005797310

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

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

TEL adapter unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
B54	14	M33	33	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 GROUND CIRCUIT

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

TEL adapter unit		Ground	Continuity
Connector	Terminal		
B54	14		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace TEL adapter unit. Refer to [AV-202. "Exploded View"](#)

4.CHECK STEERING SWITCH

Check steering switch. Refer to [AV-119. "Component Inspection"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch. Refer to [ST-9. "Exploded View"](#)

Component Inspection

INFOID:000000005797311

Measure the resistance between the steering switch connector terminals 14 to 17 and 15 to 17.

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

< DTC/CIRCUIT DIAGNOSIS >

[DISPLAY AUDIO SYSTEM]

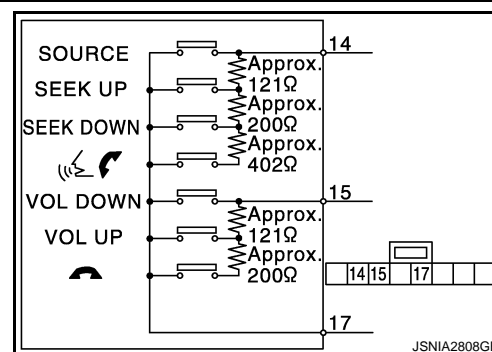
Standard

Between terminals 14 and 17

 switch ON	: Approx. 709 – 737 Ω
SEEK DOWN switch ON	: Approx. 315 – 327 Ω
SEEK UP switch ON	: Approx. 119 – 123 Ω
SOURCE switch ON	: Approx. 0 Ω

Between terminals 15 and 17

 switch ON	: Approx. 315 – 327 Ω
VOL UP switch ON	: Approx. 119 – 123 Ω
VOL DOWN switch ON	: Approx. 0 Ω



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

< DTC/CIRCUIT DIAGNOSIS >

[DISPLAY AUDIO SYSTEM]

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

Description

INFOID:000000005797312

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

Diagnosis Procedure

INFOID:000000005797313

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

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	
M93	6	B54	17	Existed

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

Audio unit		Ground	Continuity
Connector	Terminal		
M93	6		Not existed

Is 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 terminals.

(+) (V)		(-)		Voltage (Approx.)
Audio unit				
Connector	Terminal	Connector	Terminal	
M93	6	M93	15	3.3 V

Is inspection result normal?

YES >> Replace TEL adapter unit. Refer to [AV-202, "Exploded View"](#).

NO >> Replace audio unit. Refer to [AV-194, "Exploded View"](#).

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

< DTC/CIRCUIT DIAGNOSIS > [DISPLAY AUDIO SYSTEM]

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

Description

INFOID:000000005797314

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

Diagnosis Procedure

INFOID:000000005797315

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

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	
M93	16	B54	18	Existed

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

Audio unit		Ground	Continuity
Connector	Terminal		
M93	16		Not existed

Is 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 terminals.

(+) (+)		(-) (-)		Voltage (Approx.)
Audio unit				
Connector	Terminal	Connector	Terminal	
M93	16	M93	15	3.3 V

Is inspection result normal?

YES >> Replace TEL adapter unit. Refer to [AV-202, "Exploded View"](#).

NO >> Replace audio unit. Refer to [AV-194, "Exploded View"](#).

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

< DTC/CIRCUIT DIAGNOSIS >

[DISPLAY AUDIO SYSTEM]

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

Description

INFOID:000000005797316

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

Diagnosis Procedure

INFOID:000000005797317

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

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	
M93	15	B54	19	Existed

Is 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		
M93	15		Existed

Is inspection result normal?

YES >> Replace TEL adapter unit. Refer to [AV-202. "Exploded View"](#).

NO >> Replace audio unit. Refer to [AV-194. "Exploded View"](#).

CAMERA IMAGE SIGNAL CIRCUIT

Description

INFOID:000000005805167

- The audio unit supplies power to the rear view camera when receiving a reverse signal.
- The rear view camera transmits camera images to the audio unit when power is supplied from the audio unit.

Diagnosis Procedure

INFOID:000000005805168

1.CHECK CONTINUITY CAMERA POWER SUPPLY CIRCUIT

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

Audio unit		Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	
M95	35	D111	1	Existed

4. Check continuity between AV control unit harness connector and ground.

Audio unit		Ground	Continuity
Connector	Terminal		
M95	35		Not existed

Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK VOLTAGE CAMERA POWER SUPPLY

1. Connect audio unit connector and rear view camera connector.
2. Turn ignition switch ON.
3. Shift the selector lever to "R" position.
4. Check voltage between audio unit harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)
Audio unit				
Connector	Terminal			
M95	35	Ground	Shift position is “R”.	6.0 V

Is inspection result normal?

YES >> GO TO 3.

NO >> Replace audio unit. Refer to [AV-194, "Exploded View"](#).**3.CHECK CONTINUITY CAMERA IMAGE SIGNAL CIRCUIT**

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

Audio unit		Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	
M95	34	D111	3	Existed

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

CAMERA IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[DISPLAY AUDIO SYSTEM]

Audio unit		Ground	Continuity
Connector	Terminal		
M95	34		Not existed

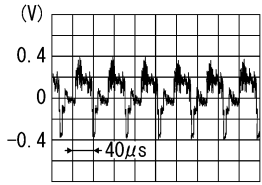
Is inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

4.CHECK CAMERA IMAGE SIGNAL

1. Connect audio unit connector and rear view camera connector.
2. Turn ignition switch ON.
3. Shift the selector lever to "R" position.
4. Check signal between audio unit harness connector and ground.

(+) Audio unit		(-)	Condition	Reference value
Connector	Terminal			
M95	34	Ground	At camera image is displayed.	 <p>SKIB2251J</p>

Is inspection result normal?

YES >> Replace audio unit. Refer to [AV-194, "Exploded View"](#).

NO >> Replace rear view camera. Refer to [AV-199, "Removal and Installation"](#).

AV

COMMUNICATION SIGNAL CIRCUIT

Description

INFOID:000000005797281

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:000000005797282

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	M94	31	Existed
	10		23	Existed

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

Satellite radio tuner		Ground	Continuity
Connector	Terminal		
B73	9		
	10		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		
M94	31		4.0 V

Is inspection result OK?

- YES >> GO TO 3.
 NO >> Replace audio unit. Refer to [AV-194, "Exploded View"](#).

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		
B73	10		7.5 V

Is inspection result OK?

- YES >> GO TO 4.
 NO >> Replace satellite radio tuner. Refer to [AV-201, "Exploded View"](#).

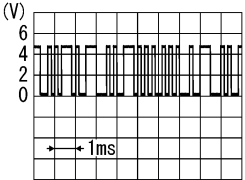
COMMUNICATION SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[DISPLAY AUDIO SYSTEM]

4.CHECK COMMUNICATION SIGNAL (SAT TO 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	When satellite radio mode is selected.	 PKIB5039J

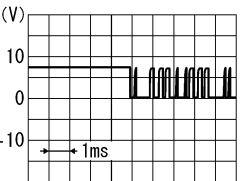
Is inspection result OK?

YES >> GO TO 5.

NO >> Replace satellite radio tuner. Refer to [AV-201, "Exploded View"](#).

5.CHECK COMMUNICATION SIGNAL (AUDIO TO SAT)

Check signal between audio unit harness connector and ground.

Audio unit			Condition	Reference value
Connector	Terminal			
M94	23	Ground	When satellite radio mode is selected.	 SKIA9301J

Is inspection result OK?

YES >> INSPECTION END

NO >> Replace audio unit. Refer to [AV-194, "Exploded View"](#).

AV

REQUEST SIGNAL CIRCUIT (SAT TO AUDIO)

< DTC/CIRCUIT DIAGNOSIS >

[DISPLAY AUDIO SYSTEM]

REQUEST SIGNAL CIRCUIT (SAT TO AUDIO)

Description

INFOID:000000005797283

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

Diagnosis Procedure

INFOID:000000005797284

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	M94	30	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		
M94	30		4.0 V

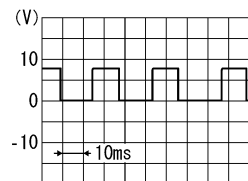
Is inspection result OK?

YES >> GO TO 3.

NO >> Replace audio unit. Refer to [AV-194, "Exploded View"](#).

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	 <p>(V)</p> <p>10</p> <p>0</p> <p>-10</p> <p>10ms</p> <p>SKIA9299J</p>

REQUEST SIGNAL CIRCUIT (SAT TO AUDIO)

< DTC/CIRCUIT DIAGNOSIS >

[DISPLAY AUDIO SYSTEM]

Is inspection result OK?

YES >> INSPECTION END

NO >> Replace satellite radio tuner. Refer to [AV-201, "Exploded View"](#).

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WOOFER AMP. ON SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[DISPLAY AUDIO SYSTEM]

WOOFER AMP. ON SIGNAL CIRCUIT

Description

INFOID:000000005797285

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:000000005797286

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	
M95	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		
M95	46		12.0 V

Is inspection result OK?

YES >> Replace woofer. Refer to [AV-198, "Exploded View"](#).

NO >> Replace audio unit. Refer to [AV-194, "Exploded View"](#).

MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[DISPLAY AUDIO SYSTEM]

MICROPHONE SIGNAL CIRCUIT

Description

INFOID:000000005797287

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

Diagnosis Procedure

INFOID:000000005797288

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. Refer to [AV-202, "Exploded View"](#).

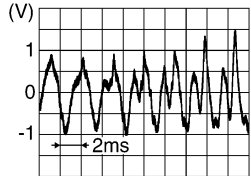
3.CHECK MICROPHONE SIGNAL

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 >

[DISPLAY AUDIO SYSTEM]

TEL adapter unit		TEL adapter unit		Condition	Reference value
Connector	Terminal	Connector	Terminal		
B54	7	B54	8	Give a voice.	 <p>SKIB3609E</p>

Is inspection result OK?

YES >> INSPECTION END

NO >> Replace microphone. Refer to [AV-203, "Exploded View"](#).

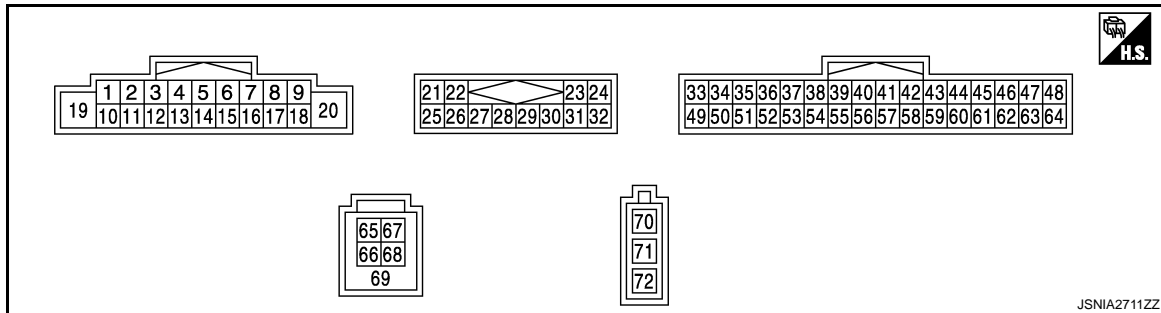
ECU DIAGNOSIS INFORMATION

AUDIO UNIT

Reference Value

INFOID:000000005700219

TERMINAL LAYOUT



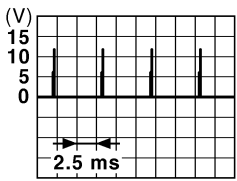
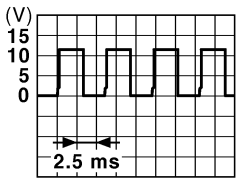
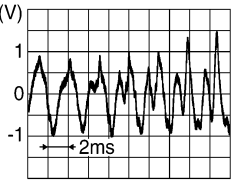
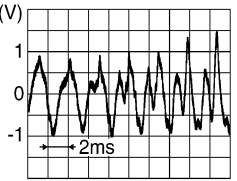
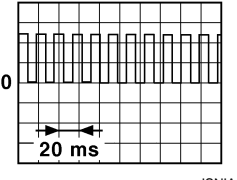
PHYSICAL VALUES

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.	 SKIB3609E
4 (V)	5 (R/B)	Sound signal rear speaker LH	Output	Ignition switch ON	Sound output.	 SKIB3609E
6 (W/G)	15 (L/B)	Steering switch signal A	Input	Ignition switch ON	Keep pressing SOURCE switch.	0 V
					Keep pressing SEEK UP switch.	0.7 V
					Keep pressing SEEK DOWN switch.	1.3 V
					Except for above.	3.3 V
7 (L/Y)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage

AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

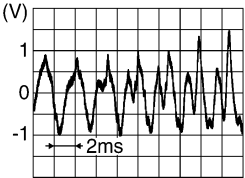
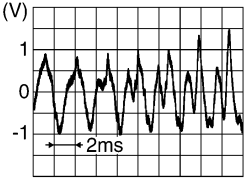
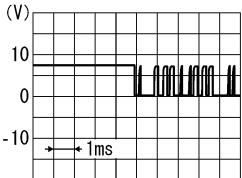
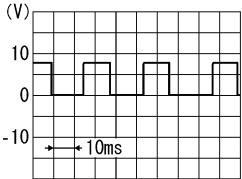
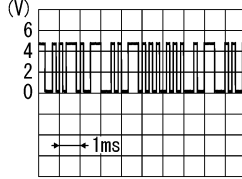
[DISPLAY AUDIO SYSTEM]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	—	Signal name	Input/ Output			
9 (W)	8 (B/R)	Illumination control signal	Input	Ignition switch OFF	<ul style="list-style-type: none"> Lighting switch 1ST. When meter illumination is maximum. 	 <p>JPNIA1687GB</p>
					<ul style="list-style-type: none"> Lighting switch 1ST. When meter illumination is step 11. 	 <p>JPNIA1686GB</p>
					<ul style="list-style-type: none"> Lighting switch 1ST. When meter illumination is minimum. 	12.0 V
11 (G)	12 (R)	Sound signal front speaker RH	Output	Ignition switch ON	Sound output.	 <p>SKIB3609E</p>
13 (LG)	14 (GR)	Sound signal rear speaker RH	Output	Ignition switch ON	Sound output.	 <p>SKIB3609E</p>
16 (GR/R)	15 (L/B)	Steering switch signal B	Input	Ignition switch ON	Keep pressing VOL DOWN switch.	0 V
					Keep pressing VOL UP switch.	0.7 V
					Except for above.	3.3 V
18 (L)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is approx. 40 km/h (25 MPH).	<p>NOTE: The maximum voltage varies depending on the specification (destination unit).</p>  <p>JSNIA0012GB</p>
19 (L)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage

AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[DISPLAY AUDIO SYSTEM]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	—	Signal name	Input/ Output			
20 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
21 (R)	25 (G)	Satellite radio sound signal LH	Input	Ignition switch ON	When satellite radio mode is selected.	 SKIB3609E
22 (B)	26 (W)	Satellite radio sound signal RH	Input	Ignition switch ON	When satellite radio mode is selected.	 SKIB3609E
23 (G/R)	Ground	Communication signal (AUDIO TO SAT)	Output	Ignition switch ON	When satellite radio mode is selected.	 SKIA9301J
24 (Y)	—	Request signal (CHG TO AUDIO)	—	—	—	—
27	—	Shield	—	—	—	—
28	—	Shield	—	—	—	—
29 (W/G)	—	Source change	—	—	—	—
30 (G/Y)	Ground	Request signal (SAT TO AUDIO)	Input	Ignition switch ON	When satellite radio mode is selected.	 SKIA9299J
31 (G/O)	Ground	Communication signal (SAT TO AUDIO)	Input	Ignition switch ON	When satellite radio mode is selected.	 PKIB5039J
32 (R/B)	—	Control signal	—	—	—	—
33	—	Shield	—	—	—	—

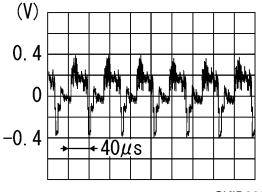

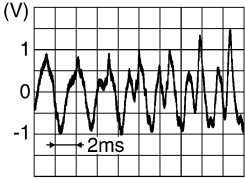
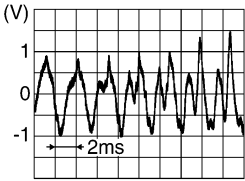
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AV

AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[DISPLAY AUDIO SYSTEM]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	—	Signal name	Input/ Output			
34 (G/Y)	Ground	Camera image signal	Input	Ignition switch ON	At camera image is displayed.	 SKIB2251J
35 (G/O)	Ground	Camera power supply	Output	Ignition switch ON	At camera image is displayed.	6.0 V
					Except for above.	0 V
36 (G/R)	Ground	Camera ground	—	Ignition switch ON	—	0 V
37 (LG)	—	AV communication signal (L)	Input/ Output	—	—	—
38 (SB)	—	AV communication signal (H)	Input/ Output	—	—	—
40 (LG)	—	AV communication signal (L)	Input/ Output	—	—	—
41 (SB)	—	AV communication signal (H)	Input/ Output	—	—	—
42 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
43	—	Shield	—	—	—	—
44 (BR)	45 (Y)	Sound signal (TEL voice, voice guidance)	Input	Ignition switch ON	During voice guide output with the  switch pressed.	 SKIB3609E
46 (Y/B)	Ground	Woofer amp. ON signal	Output	Ignition switch ON	—	12.0 V
47 (P)	48 (L)	Sound signal woofer	Output	Ignition switch ON	Sound output.	 SKIB3609E
51 (Y)	Ground	Reverse signal	Input	Ignition switch ON	Shift position is R.	12.0 V
					Shift position is other than R.	0 V
65 (G)	—	USB ground	—	—	—	—
66 (R)	—	USB D— signal	—	—	—	—

AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[DISPLAY AUDIO SYSTEM]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	—	Signal name	Input/ Output			
67 (W)	—	V BUS signal	—	—	—	—
68 (L)	—	USB D+ signal	—	—	—	—
69	—	Shield	—	—	—	—
70	Ground	Antenna amp. ON signal	Output	Ignition switch ON	—	12.0 V
71	—	AM-FM main	Input	—	—	—

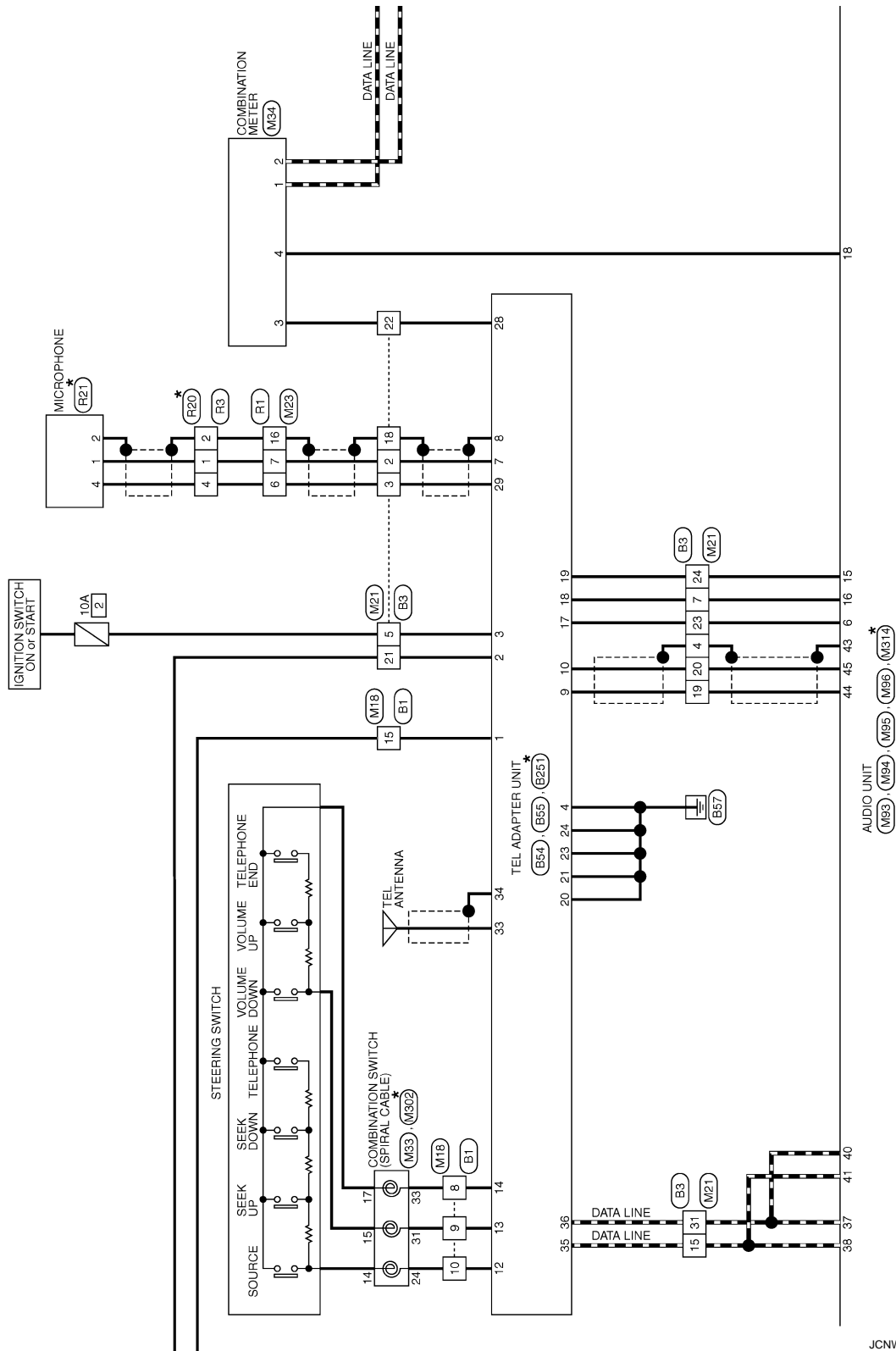
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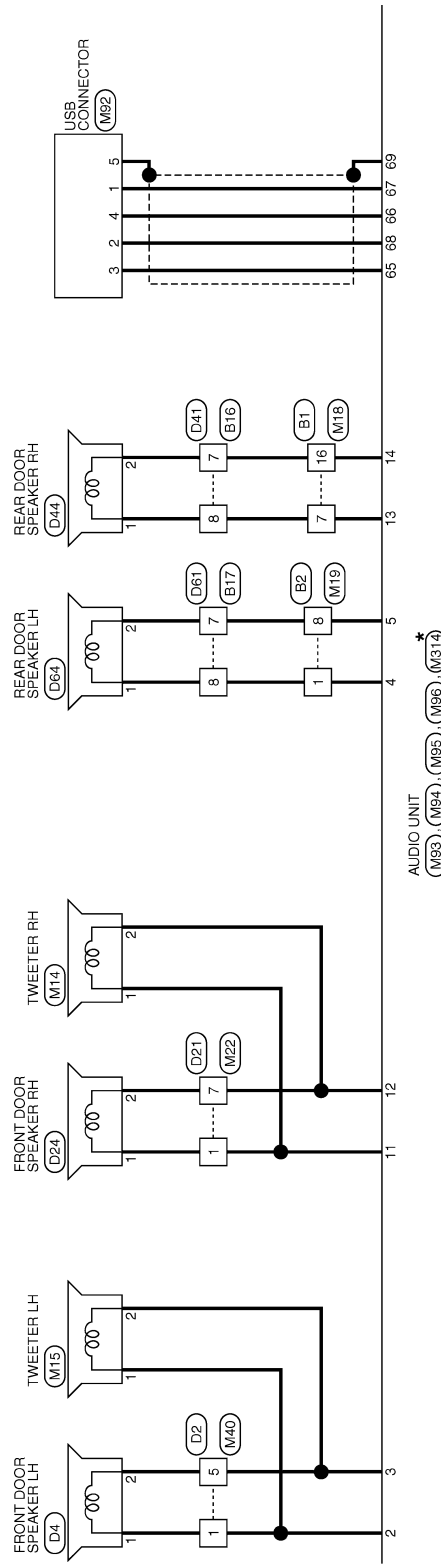
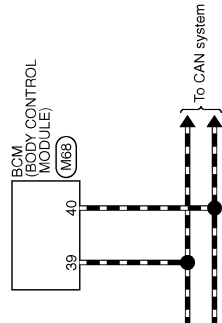


* : This connector is not shown in "Harness Layout".

JCNWM3443GI

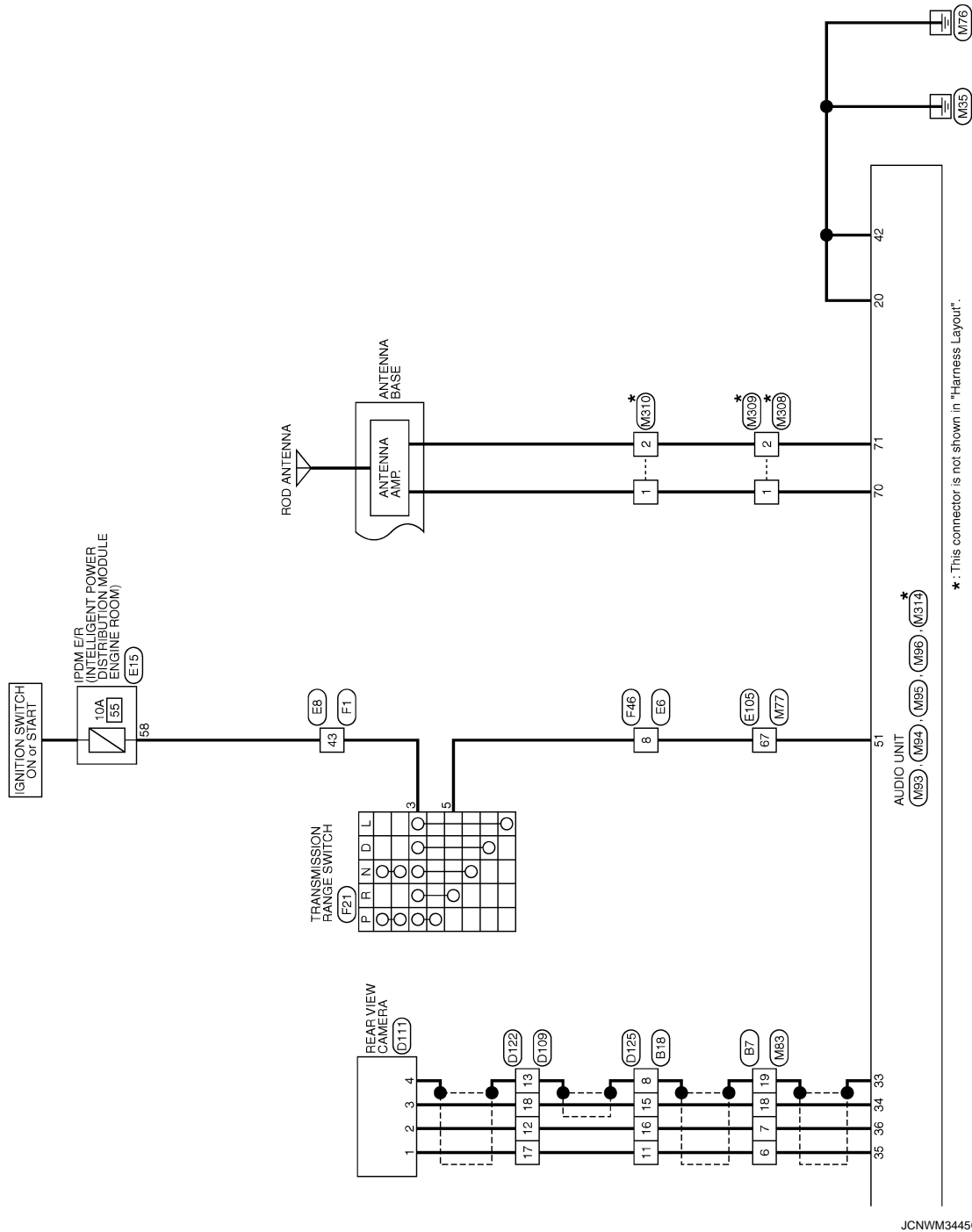
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JCNWM3444G1

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



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

JCNWM3445GI

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AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[DISPLAY AUDIO SYSTEM]

DISPLAY AUDIO

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



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	V	-
4	L	-
5	Y	-
6	W	-
7	LG	-
8	GR	-
9	SB	-
10	W	-
11	G	-
12	V	-
13	BR	-
14	SB	-
15	R	-
16	GR	-

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



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
5	O	-
6	R	-
7	L	-
8	L	-
9	G	-
10	V	-

11	P	-
12	LG	-
14	R	-
15	Y	-
16	B	-

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	L	-
3	R	-
4	SHIELD	-
5	LG	-
6	SB	-
7	P	-
8	V	-
9	SHIELD	-
10	R	-
11	SHIELD	-
12	G	-
13	SHIELD	-
14	G	-
15	SB	-
16	SB	-
17	LG	-
18	SHIELD	-
19	BR	-
20	Y	-
21	L	-
22	O	-
23	GR	-
24	L	-
25	W	-
26	B	-
27	R	-
28	B	-
29	W	-
30	R	-
31	LG	-

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



1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	O	-
4	P	-
5	W	-
6	W	-
7	P	-
8	SB	-
11	G	-
12	SB	-
13	L	-
15	R	-
16	GR	-
17	BR	-
18	L	-
19	Y	-
20	LG	-
22	Y	-
23	BR	-
24	O	-

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



1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	V	-
6	G	-
7	L	-
11	O	-
12	W	-
16	BR	-
18	Y	-
19	SHIELD	-
24	R	-

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



4	3	2	1
10	9	8	7
6	5		

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	L	-
5	G	-
7	GR	-
8	LG	-
9	W	-
10	Y	-

JCNWM3446G1

DISPLAY AUDIO

Connector No.	B17
Connector Name	WIRE TO WIRE
Connector Type	NS10PW-CS

1	4	3	2	1
2	10	9	8	7
3	6	5		

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	L	-
5	G	-
7	L	-
8	V	-
9	R	-
10	O	-

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
3	BR	-
5	R	-
6	P	-
7	B	- [With Intelligent Key]
8	SHIELD	- [Without Intelligent Key]
9	R	-
10	Y	-
11	G	-
12	W	-
13	O	-
14	BR	-
15	Y	-
16	L	-

17	R	-
18	B	-
20	LG	-

Connector No.	B19
Connector Name	WIRE TO WIRE
Connector Type	MD4MW-LC

1	2	3	4
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Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
3	B	-

Connector No.	B54
Connector Name	TEL ADAPTER UNIT
Connector Type	TH32FW-NH

2	4	8	10	12	14	16	20	22	24	28
1	3	7	9	11	13	17	19	21	23	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 SIGNAL GND
9	BR	SOUND SIGNAL (+)
10	Y	SOUND SIGNAL (-)
11	SB	TEL ON SIGNAL
12	W	STRG SW A
13	SB	STRG SW B
14	GR	STRG SW GND
17	GR	STRG SW A
18	P	STRG SW B
19	L	STRG SW GND

20	B	CONTROL SIGNAL
21	B	CONTROL SIGNAL
22	B	CONTROL SIGNAL
23	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
27	B	CONTROL SIGNAL
28	O	VEHICLE SPEED (2-PULSE)
29	R	MICROPHONE VCC

Connector No.	B55
Connector Name	TEL ADAPTER UNIT
Connector Type	TH38FW-NH

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

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

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 (CHG-AUDIO)
12	SB	BAT
13	W	SOURCE CHANGE
15	B	GND
16	V	ACC

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

133	34
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Terminal No.	Color of Wire	Signal Name [Specification]
33	-	TEL ANTENNA SIGNAL
34	-	SHIELD

Connector No.	B301
Connector Name	SATELLITE RADIO TUNER
Connector Type	FAKRA

3

Terminal No.	Color of Wire	Signal Name [Specification]
31	-	SATELLITE RADIO ANTENNA SIGNAL

JCNWM3447GI

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

AV

DISPLAY AUDIO

Connector No.	B302
Connector Name	ANTENNA BASE
Connector Type	GT16C-1P-HU



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

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS10PW-CS



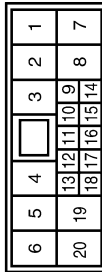
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	R	-
4	G	-
5	P	-
6	SB	-
8	GR	-
9	BR	-
10	B	-

Connector No.	D4
Connector Name	FRONT DOOR SPEAKER LH
Connector Type	NS02FW-CS



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

Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	NH10PW-CS10



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	Y	-
4	B	-
5	L	-
6	SB	-
7	R	-
8	V	-
9	R	-
10	W	-
11	L	-
12	LG	-
13	P	-
14	B	-
15	G	-
16	GR	-
17	BR	-
18	V	-
20	W	-

Connector No.	D24
Connector Name	FRONT DOOR SPEAKER RH
Connector Type	NS02FW-CS



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

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
4	L	-
5	P	-
7	GR	-
8	LG	-
9	BR	-
10	O	-

Connector No.	D44
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS02FW-CS



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

Connector No.	D61
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	L	-
5	G	-
7	GR	-
8	LG	-
9	BR	-
10	O	-

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DISPLAY AUDIO

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	-

Connector No.	D109
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10



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

Terminal No.	Color of Wire	Signal Name [Specification]
12	L	-
13	SHIELD	-
17	G	-
18	Y	-

Connector No.	D111
Connector Name	REAR VIEW CAMERA
Connector Type	TH04MW



Terminal No.	Color of Wire	Signal Name [Specification]
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1	G	CAMERA POWER SUPPLY
2	L	CAMERA GND
3	Y	CAMERA IMAGE SIGNAL
4	SHIELD	SHIELD

Connector No.	D122
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



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

Terminal No.	Color of Wire	Signal Name [Specification]
12	L	-
13	SHIELD	-
17	G	-
18	Y	-

Connector No.	D125
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
3	SB	-
5	GR	-
6	G	-
7	GR	-
8	SHIELD	-
9	R	-
10	Y	-
11	G	-
12	BR	-
13	W	-
14	BR	-

15	Y	-
16	L	-
17	R	-
18	L	-
20	LG	-

Connector No.	D126
Connector Name	WIRE TO WIRE
Connector Type	MO4FW-LC



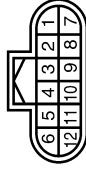
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
3	B	-

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 (-)

Connector No.	E6
Connector Name	WIRE TO WIRE
Connector Type	PH12FB



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

JCNWM3449GI

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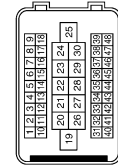
AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[DISPLAY AUDIO SYSTEM]

DISPLAY AUDIO

Connector No.	E8
Connector Name	WIRE TO WIRE
Connector Type	SAX3MB-RS-0-SJ22



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	LG	-
3	Y	-
4	W	-
7	Y	-
8	SB	-
9	L	-
10	V	-
11	P	-
12	BR	-
13	LG	-
14	Y	-
15	SB	-
16	L	-
17	W	-
18	O	-
21	G	-
23	SB	-
24	W	-
25	BR	-
26	B	-
27	GR	-
28	P	-
29	V	-
30	G	-
31	G	-
32	O	-
33	W	-
34	Y	-
35	V	-
36	P	-
37	LG	-
39	SB	-
40	GR	-
41	O	-
42	V	-
43	R	- [With CVT]
43	LG	- [With M/T]

44	R	-
46	W	-
47	G	-
48	BR	-

Connector No.	E15
Connector Name	FROM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	NS16PW-CS



53	62	51	50	49	48	47
62	61	60	59	58	57	56
55	54	53	52	51	50	49
48	47	46	45	44	43	42

Terminal No.	Color of Wire	Signal Name [Specification]
47	BR	-
49	W	-
50	GR	-
51	R	-
52	P	-
54	GR	-
55	P	-
56	SB	-
57	G	-
58	R	- [With CVT]
58	Y	- [With M/T]
59	Y	-
60	V	-
61	W	-
62	L	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80MM-CS16-TM4



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

91	W	-
92	Y	-
93	Y	-
94	R	-
95	V	-
96	LG	-
97	R	-
98	SB	-
99	G	-
100	P	-

2	W	-
3	SB	-
4	G	-
5	P	-
6	R	-
7	Y	-
8	O	-
9	W	-
10	SB	-
31	V	-
32	R	-
33	GR	-
34	P	-
35	Y	-
36	BR	-
39	SB	-
44	R	-
45	V	-
46	P	-
47	W	-
48	L	-
49	Y	-
50	W	-
51	BR	- [With CVT]
51	B	- [With M/T]
53	SB	-
54	W	-
54	O	- [With CVT]
54	O	- [With M/T]
57	LG	-
59	L	-
60	O	-
61	G	-
62	W	-
63	L	-
67	GR	- [With CVT]
67	V	- [With M/T]
69	P	-
70	SHIELD	-
71	GR	-
72	LG	-
73	P	-
74	V	-
76	Y	-
77	LG	-
78	O	-
79	G	-
80	P	-
81	L	-
82	W	-
83	BR	-
84	B	-
87	GR	-

DISPLAY AUDIO

Connector No.	F1
Connector Name	WIRE TO WIRE
Connector Type	SAA30FB-RS10-SJ22



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	LG	-
3	R	-
4	Y	-
7	V	-
8	G	-
9	SB	-
10	L	-
11	Y	-
12	GR	-
13	BR	-
14	G	-
15	W	-
16	Y	-
17	P	-
18	BR	-
21	G	-
23	W	-
24	R	-
25	R	-
26	B	-
27	SB	-
28	V	-
29	V	-
30	BR	-
31	GR	-
32	BR	-
33	W	-
34	LG	-
35	V	-
36	Y	-
37	W	-
39	G	-
40	P	-
41	O	-
42	G	-
43	R	-
44	P	-

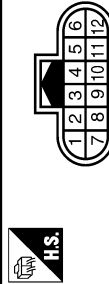
46	GR	-
47	Y	-
48	BR	-

Connector No.	F21
Connector Name	TRANSMISSION RANGE SWITCH
Connector Type	RK08FG



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	BR	-
3	R	-
4	GR	-
5	SB	-
6	W	-
7	Y	-
8	G	-

Connector No.	F46
Connector Name	WIRE TO WIRE
Connector Type	RH12MB



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	O	-
3	L	-
4	V	-
5	BR	-
6	LG	-
7	Y	-
8	SB	-
9	W	-

10	R	-
11	G	-

Connector No.	M14
Connector Name	TWEETER RH
Connector Type	TK02FBR



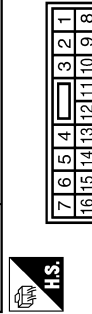
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	M15
Connector Name	TWEETER LH
Connector Type	TK02FBR



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	G/R	-
3	L/W	-
4	L	-
5	Y	-
6	L/B	-
7	LG	-
8	L/G	-
9	GR/B	-
10	W/L	-
11	G	-
12	V	-
13	L	-
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	-
5	L/R	-
8	R	-
7	L	-
8	R/B	-
9	G	-
10	V	-
11	L/W	-
12	LG	-
14	R	-
15	Y/R	-
16	B/R	-

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AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[DISPLAY AUDIO SYSTEM]

DISPLAY AUDIO

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	TH22FW-NH

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
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	-
13	SHIELD	-
14	L	-
15	SB	-
16	SB	-
17	LG	-
18	SHIELD	-
19	BR	-
20	Y	-
21	L/Y	-
22	V	-
23	W/O	-
24	L/B	-
25	G/Y	-
26	G/O	-
27	R	-
28	B	-
29	W	-
30	P	-
31	LG	-
32	LG	-

Connector No.	M22
Connector Name	WIRE TO WIRE
Connector Type	NH10MH-CS10

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	G	-
4	B	-
5	L	-
6	W/R	-
7	R	-
8	V	-
9	G/R	-
10	L/G	-
11	R	-
12	G	-
13	BR/Y	-
14	B	-
15	G/B	-
16	GR	-
17	BR	-
18	L/Y	-
20	Y/R	-

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	NS10MH-CS

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21

Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
7	G	-
8	L	-
9	BR	-

10	B	-
16	SHIELD	-

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

24	25	26
31	32	33
34	35	36

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

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

20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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Terminal No.	Color of Wire	Signal Name [Specification]
1	L	CAN-H
2	P	CAN-L
3	V	VEHICLE SPEED SIGNAL (2-PULSE)
4	L	VEHICLE SPEED SIGNAL (8-PULSE)
6	BR/Y	FUEL LEVEL SENSOR SIGNAL
7	R/G	AIR BAG SIGNAL
8	P	OVERDRIVE CONTROL SWITCH SIGNAL
9	O	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
10	SB	PARKING BRAKE SWITCH SIGNAL
11	G/R	BRAKE FLUID LEVEL SWITCH SIGNAL
13	B/R	ILLUMINATION CONTROL SIGNAL

15	L/Y	ACC POWER SUPPLY
17	G	WASHER LEVEL SWITCH SIGNAL
18	R/Y	SECURITY SIGNAL
19	V/W	AMBIENT SENSOR SIGNAL
20	R/W	AMBIENT SENSOR GROUND
21	B	GROUND
22	B	GROUND
23	B	GROUND
24	V	FUEL LEVEL SENSOR GROUND
25	B	VDC GROUND
27	LG	BATTERY POWER SUPPLY
28	GR	IGNITION SIGNAL
29	BR	PASSENGER SEAT BELT WARNING SIGNAL
31	R	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
35	BR	ENGINE COOLANT TEMPERATURE SIGNAL
38	GR	ALTERNATOR SIGNAL

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	NS10MH-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	V	-
4	G/R	-
5	P	-
6	L/B	-
8	GR	-
9	BR	-
10	B	-

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Connector No.	M68
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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18	V	-
19	Y	-
20	GR/L	-
22	L	-
23	Y/L	-
24	G/W	-

Connector No.	M63
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



12	11	10	9	8	7	6	5	4	3	2	1
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Terminal No.	Color of Wire	Signal Name [Specification]
4	L	-
5	Y/B	-
6	G/O	-
7	G/R	-
11	W	-
12	W/B	-
16	P	-
18	G/Y	-
19	SHIELD	-
24	B/W	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	B/O	-
2	R	-
3	G/R	-
4	G/B	-
5	L	-
6	W	-
7	W/R	-
8	G/W	-
9	Y/L	-
10	W	-
31	GR/L	-
32	L/B	-
33	R/Y	-
34	SB	-
35	BR	-
36	G	-
39	L/R	-
44	G/O	-
45	LG/R	-
46	GR/W	-
47	BR/Y	-
48	L/O	-
49	L/W	-
50	P/L	-
51	B/W	-
53	R/L	-
54	O	-
57	GR	-
59	V	-
60	R/W	-
61	V/W	-
62	W/L	-
63	W/B	-
67	Y/R	-
69	LG	-
70	SHIELD	-
71	P/B	-
72	R/G	-

Terminal No.	Color of Wire	Signal Name [Specification]
2	BR/W	COMBI SW INPUT 5
3	GR	COMBI SW INPUT 4
4	L/Y	COMBI SW INPUT 3
5	G	COMBI SW INPUT 2
6	L/R	COMBI SW INPUT 1
7	W/R	KEY CYL UNLOCK SW
8	W/B	KEY CTL LOCK SW
9	R	STOP LAMP SW 1
10	V/W	TIRE PRESS WARNING CHECK SW
11	L/Y	ACC F/B
12	SB	PASSENGER DOOR SW
13	GR/L	REAR RH DOOR SW
14	L/B	OPTICAL SENSOR
15	W/L	REAR WINDOW DEFOGGER SW
17	R/G	OPTICAL SENSOR POWER SUPPLY
18	V	RECEIVER / SENSOR GND
19	BR	KEYLESS ENTRY RECEIVER POWER SUPPLY
20	G/Y	KEYLESS ENTRY RECEIVER COMM
21	P/L	NATS ANTENNA AMP
22	W/G	KEYLESS ENTRY RECEIVER RSSI
23	R/Y	SECURITY INDICATOR LAMP
24	GR/B	DONGLE LINK
25	LG	NATS ANTENNA AMP
27	Y/R	A/C SW
28	G/W	BLOWER FAN SW
29	L/W	HAZARD SW
31	G/B	DR DOOR UNLOCK SENSOR
32	LG	COMBI SW OUTPUT 5
33	Y/L	COMBI SW OUTPUT 4
34	W	COMBI SW OUTPUT 3
35	R/L	COMBI SW OUTPUT 2
36	L/O	COMBI SW OUTPUT 1
37	G/O	SHIFT P
38	O	IGN F/B
39	L	CAN-H
40	P	CAN-L



12	11	10	9	8	7	6	5	4	3	2	1
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Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	W/G	-
2	L/Y	-
3	R	-
4	P/B	-
5	W	-
6	W/G	-
7	R/B	-
8	SB	-
11	G/B	-
12	G/R	-
13	R/G	-
15	R/L	-
16	GR/R	-
17	BR/Y	-

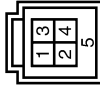
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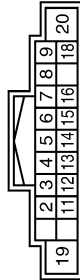
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Connector No.	M82
Connector Name	USB CONNECTOR
Connector Type	HAA04FG



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

Connector No.	M83
Connector Name	AUDIO UNIT
Connector Type	TH18FW-0S2



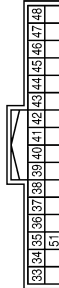
Terminal No.	Color of Wire	Signal Name [Specification]
2	W	SOUND SIGNAL FRONT SPEAKER LH (+)
3	P	SOUND SIGNAL FRONT SPEAKER LH (-)
4	V	SOUND SIGNAL REAR SPEAKER LH (+)
5	R/B	SOUND SIGNAL REAR SPEAKER LH (-)
6	W/G	STRG SW A
7	L/Y	ACC
8	B/R	ILLUMINATION CONTROL SIGNAL (-)
9	W	ILLUMINATION CONTROL SIGNAL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

Connector No.	M84
Connector Name	AUDIO UNIT
Connector Type	A12FW



Terminal No.	Color of Wire	Signal Name [Specification]
21	R	SATELLITE RADIO SOUND SIGNAL LH (+)
22	B	SATELLITE RADIO SOUND SIGNAL RH (+)
23	G/R	COMM AUDIO—SAT
24	Y	REQUEST SIGNAL (CHG—AUDIO)
25	G	SATELLITE RADIO SOUND SIGNAL LH (-)
26	W	SATELLITE RADIO SOUND SIGNAL RH (-)
27	SHIELD	SHIELD
28	SHIELD	SHIELD
29	W/G	SOURCE CHANGE
30	G/Y	REQUEST SIGNAL (SAT—AUDIO)
31	G/O	COMM (SAT—AUDIO)
32	R/B	CONTROL

Connector No.	M85
Connector Name	AUDIO UNIT
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
33	SHIELD	SHIELD
34	G/Y	CAMERA IMAGE SIGNAL
35	G/O	CAMERA POWER SUPPLY
36	G/R	CAMERA GND
37	LG	AV COMM (L)
38	SB	AV COMM (H)
40	LG	AV COMM (L)
41	SB	AV COMM (H)
42	B	GND
43	SHIELD	SHIELD

44	BR	SOUND SIGNAL (+)
45	Y	SOUND SIGNAL (-)
46	Y/B	WOOFER AMP ON SIGNAL
47	P	SOUND SIGNAL WOOFER (+)
48	L	SOUND SIGNAL WOOFER (-)
51	Y	REVERSE SIGNAL

Connector No.	M86
Connector Name	AUDIO UNIT
Connector Type	HAA04FL



Terminal No.	Color of Wire	Signal Name [Specification]
65	G	USB GND
66	R	USB D- SIGNAL
67	W	Y BUS SIGNAL
68	L	USB D+ SIGNAL
69	SHIELD	SHIELD

Connector No.	M302
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08F-GY



Terminal No.	Color of Wire	Signal Name [Specification]
13	R	-
14	Y	-
15	P	-
16	B	-
17	W	-
18	G	-
19	P	-
20	R	-

Connector No.	M308
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-1/PP-HU



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

Connector No.	M309
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/IS-HU



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

Connector No.	M310
Connector Name	ANTENNA BASE
Connector Type	GT13SSN-1/PP-HU



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

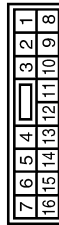
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Connector No.	M314
Connector Name	AUDIO UNIT
Connector Type	GT13SH-2/IS-HU



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

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	Y	-
7	L	-
8	Y	-
9	BR	-
10	B	-
16	G	-

Connector No.	R3
Connector Name	WIRE TO WIRE
Connector Type	TH04MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	-	-
4	Y	-

Connector No.	R20
Connector Name	WIRE TO WIRE
Connector Type	TH04FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	SHIELD	-
3	-	-
4	R	-

Connector No.	R21
Connector Name	MICROPHONE
Connector Type	TK04FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	MICROPHONE SIGNAL
2	SHIELD	MICROPHONE GND
3	-	-
4	R	MICROPHONE VCC

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SATELLITE RADIO TUNER

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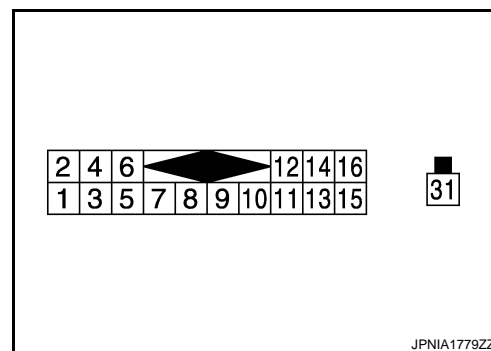
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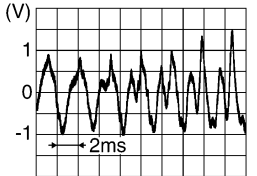
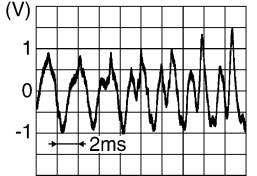
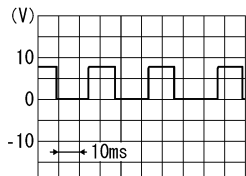
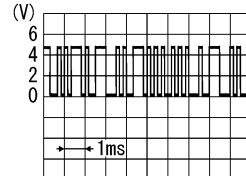
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TERMINAL LAYOUT



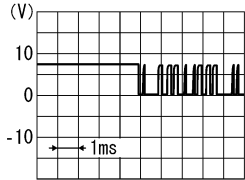
PHYSICAL VALUES

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.	 SKIB3609E
4 (B)	3 (W)	Satellite radio sound signal RH	Output	Ignition switch ON	When satellite radio mode is selected.	 SKIB3609E
5	—	Shield	—	—	—	—
6	—	Shield	—	—	—	—
7 (P)	—	Control signal	—	—	—	—
8 (W)	Ground	Request signal (SAT→AUDIO)	Output	Ignition switch ON	When satellite radio mode is selected.	 SKIA9299J
9 (B)	Ground	Communication signal (SAT→AUDIO)	Output	Ignition switch ON	When satellite radio mode is selected.	 PKIB5039J

SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[DISPLAY 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.	 SKIA9301J
11 (Y)	—	Request signal (CHG → AUDIO)	—	—	—	—
12 (SB)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
13 (W)	—	Source change	—	—	—	—
15 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
16 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
31	—	Satellite radio antenna sig- nal	Input	—	—	—

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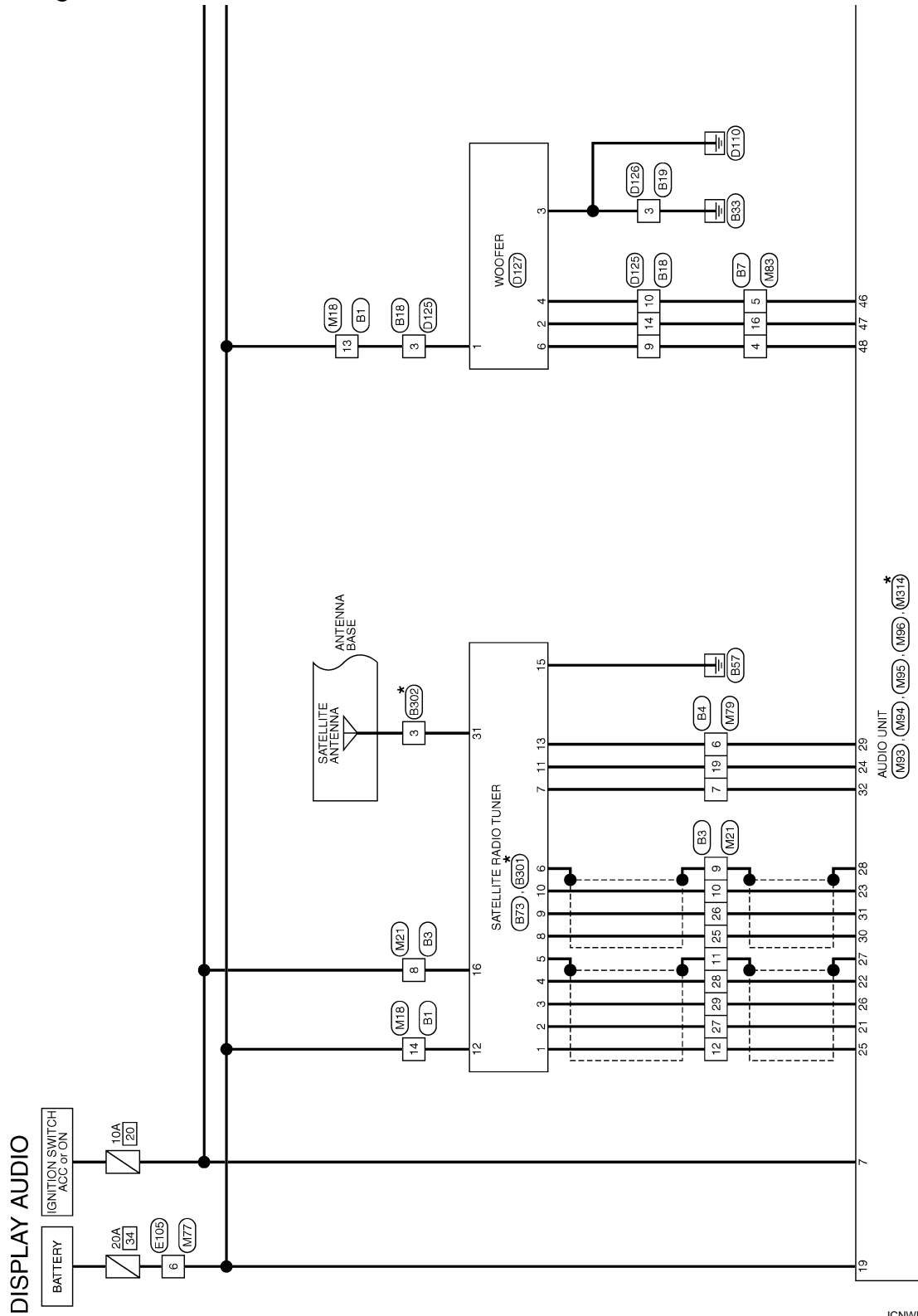
SATELLITE RADIO TUNER

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[DISPLAY AUDIO SYSTEM]

Wiring Diagram - DISPLAY AUDIO -

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

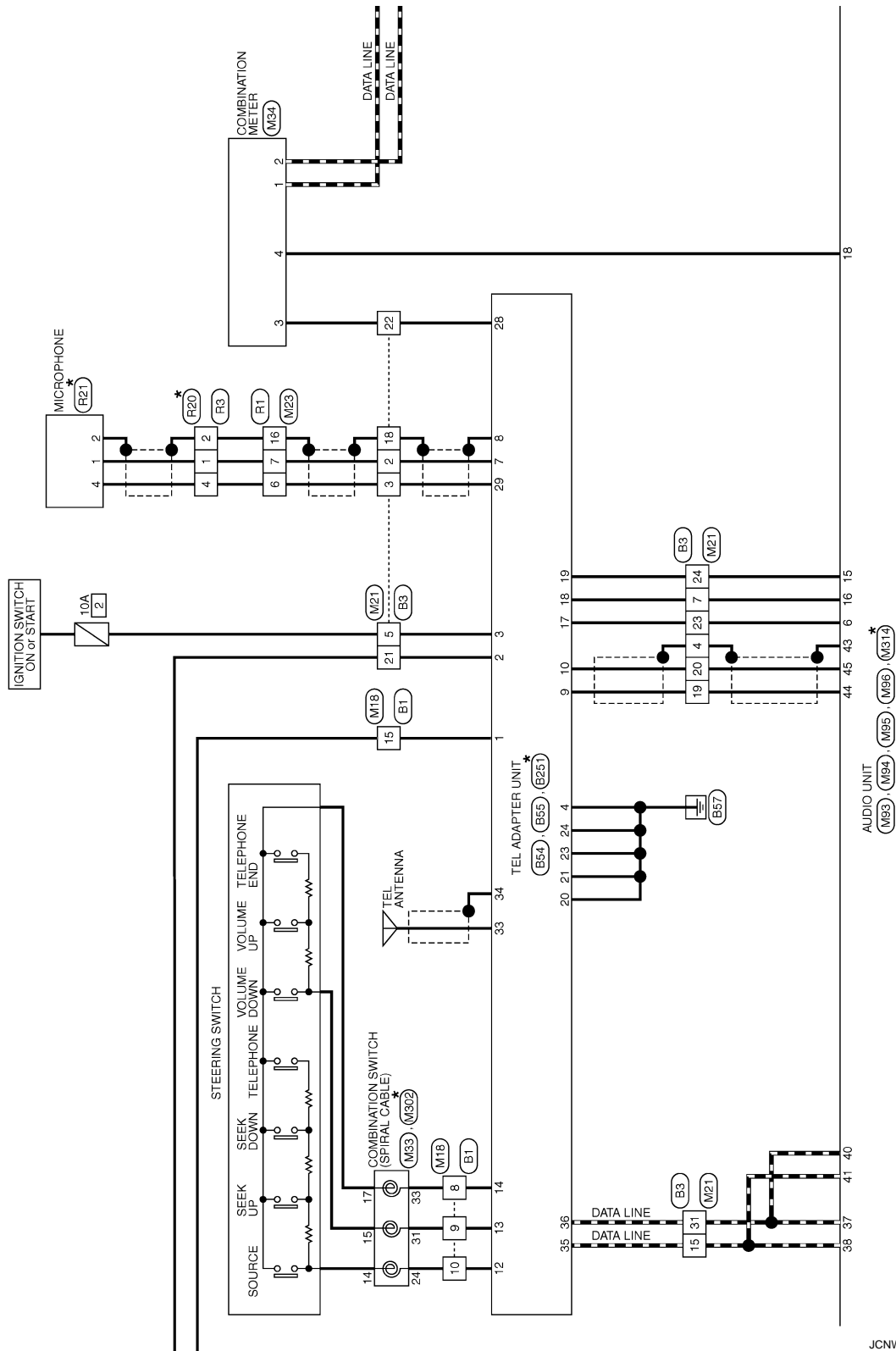
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SATELLITE RADIO TUNER

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[DISPLAY AUDIO SYSTEM]



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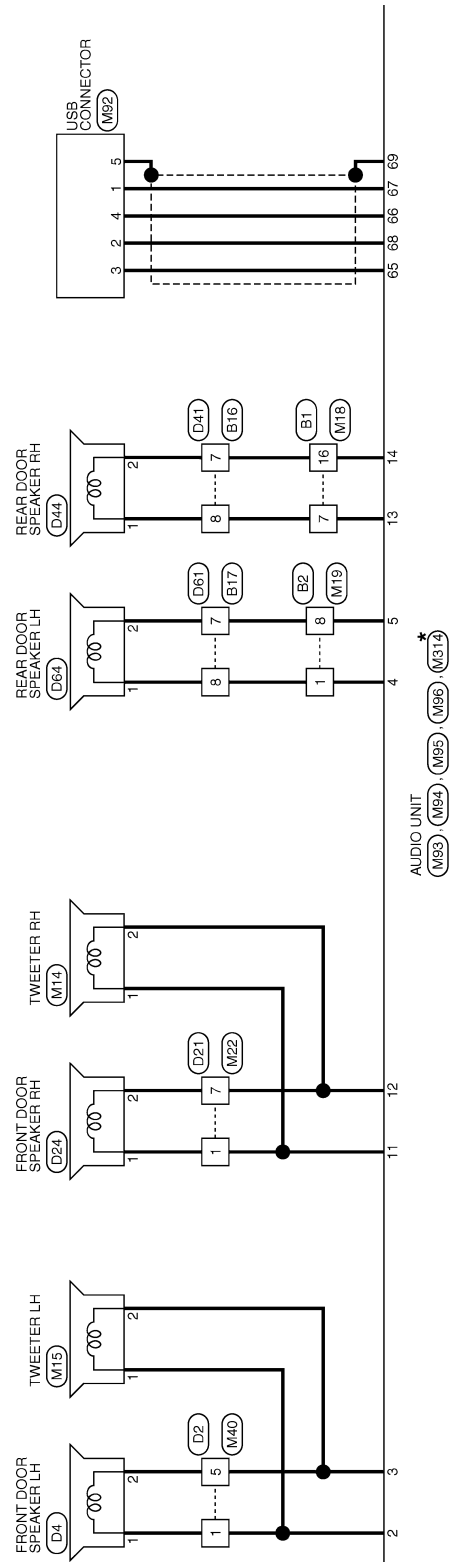
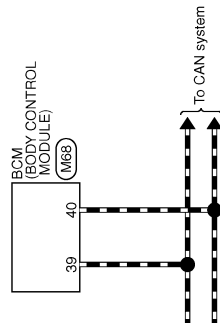
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[DISPLAY AUDIO SYSTEM]



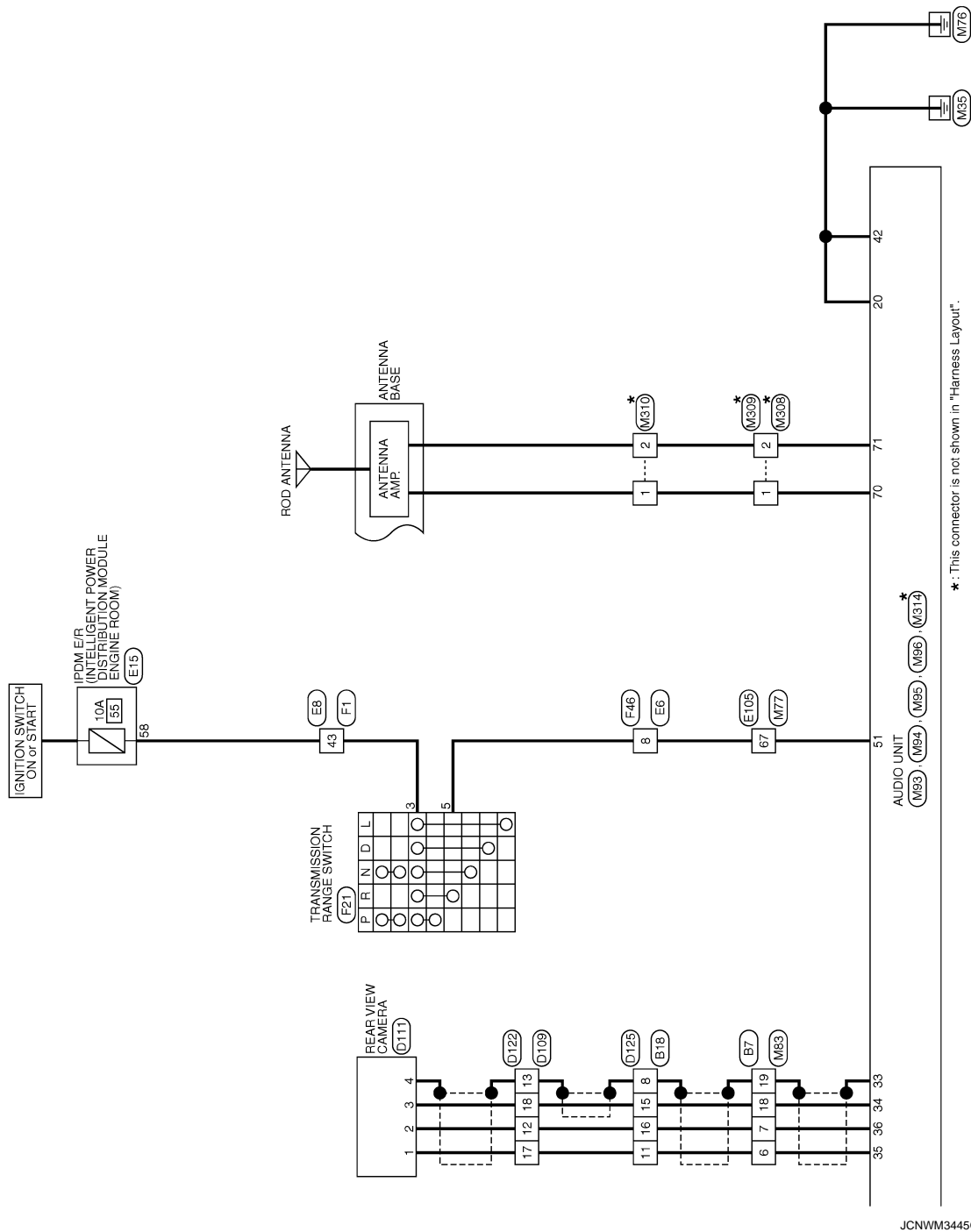
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SATELLITE RADIO TUNER

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[DISPLAY AUDIO SYSTEM]



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SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[DISPLAY AUDIO SYSTEM]

DISPLAY AUDIO

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



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	V	-
4	L	-
5	Y	-
6	W	-
7	LG	-
8	GR	-
9	SB	-
10	W	-
11	G	-
12	V	-
13	BR	-
14	SB	-
15	R	-
16	GR	-

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



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
5	O	-
6	R	-
7	L	-
8	L	-
9	G	-
10	V	-

11	P	-
12	LG	-
14	R	-
15	Y	-
16	B	-

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	L	-
3	R	-
4	SHIELD	-
5	LG	-
6	SB	-
7	P	-
8	V	-
9	SHIELD	-
10	R	-
11	SHIELD	-
12	G	-
13	SHIELD	-
14	G	-
15	SB	-
16	SB	-
17	LG	-
18	SHIELD	-
19	BR	-
20	Y	-
21	L	-
22	O	-
23	GR	-
24	L	-
25	W	-
26	B	-
27	R	-
28	B	-
29	W	-
30	R	-
31	LG	-

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



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	O	-
4	P	-
5	W	-
6	W	-
7	P	-
8	SB	-
11	G	-
12	SB	-
13	L	-
15	R	-
16	GR	-
17	BR	-
18	L	-
19	Y	-
20	LG	-
22	Y	-
23	BR	-
24	O	-

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



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	V	-
6	G	-
7	L	-
11	O	-
12	W	-
16	BR	-
18	Y	-
19	SHIELD	-
24	R	-

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



4	3	2	1
10	9	8	7
6	5		

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	L	-
5	G	-
7	GR	-
8	LG	-
9	W	-
10	Y	-

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DISPLAY AUDIO

Connector No.	B17
Connector Name	WIRE TO WIRE
Connector Type	MS10PW-CS

1	4	3	2	1
2	10	9	8	7
3	6	5		

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	L	-
5	G	-
7	L	-
8	V	-
9	R	-
10	O	-

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
3	BR	-
5	R	-
6	P	-
7	B	- [With Intelligent Key]
8	G	- [Without Intelligent Key]
9	R	-
10	Y	-
11	G	-
12	W	-
13	O	-
14	BR	-
15	Y	-
16	L	-

17	R	-
18	B	-
20	LG	-

Connector No.	B19
Connector Name	WIRE TO WIRE
Connector Type	MD4MW-LC

1	2	3	4
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Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
3	B	-

Connector No.	B54
Connector Name	TEL ADAPTER UNIT
Connector Type	TH32FW-NH

2	4	8	10	12	14	16	20	22	24	28
1	3	7	9	11	13	17	19	21	23	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 SIGNAL GND
9	BR	SOUND SIGNAL (+)
10	Y	SOUND SIGNAL (-)
11	SB	TEL ON SIGNAL
12	W	STRG SW A
13	SB	STRG SW B
14	GR	STRG SW GND
17	GR	STRG SW A
18	P	STRG SW B
19	L	STRG SW GND

20	B	CONTROL SIGNAL
21	B	CONTROL SIGNAL
22	B	CONTROL SIGNAL
23	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
27	B	CONTROL SIGNAL
28	O	VEHICLE SPEED (2-PULSE)
29	R	MICROPHONE VCC

Connector No.	B55
Connector Name	TEL ADAPTER UNIT
Connector Type	TH38FW-NH

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

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

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 (CHG→AUDIO)
12	SB	BAT
13	W	SOURCE CHANGE
15	B	GND
16	V	ACC

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

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

Connector No.	B301
Connector Name	SATELLITE RADIO TUNER
Connector Type	FAKPA

3	3
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Terminal No.	Color of Wire	Signal Name [Specification]
31	-	SATELLITE RADIO ANTENNA SIGNAL

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

AV

[DISPLAY AUDIO SYSTEM]

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Connector No.	B302
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU



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

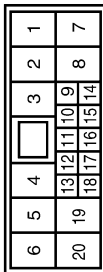


Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	R	-
4	G	-
5	P	-
6	SB	-
8	GR	-
9	BR	-
10	B	-

Connector No.	D4
Connector Name	FRONT DOOR SPEAKER LH
Connector Type	NS02FW-CS



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



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	V	-
4	D	-
5	L	-
6	SB	-
7	R	-
8	V	-
9	R	-
10	W	-
11	L	-
12	LG	-
13	P	-
14	B	-
15	G	-
16	GR	-
17	BR	-
18	V	-

Connector No.	D24
Connector Name	FRONT DOOR SPEAKER RH
Connector Type	NS02FW-CS



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



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
4	L	-
5	P	-
7	GR	-
8	LG	-
9	BR	-
10	O	-

Connector No.	D44
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS02FW-CS



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



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	L	-
5	G	-
7	GR	-
8	LG	-
9	BR	-
10	O	-

SATELLITE RADIO TUNER

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[DISPLAY AUDIO SYSTEM]

DISPLAY AUDIO

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	-

Connector No.	D109
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10



Terminal No.	Color of Wire	Signal Name [Specification]
6	5	4
13	12	11
18	17	16
19	18	17
20	19	18
21	20	19
22	21	20

Terminal No.	Color of Wire	Signal Name [Specification]
12	L	-
13	SHIELD	-
17	G	-
18	Y	-

Connector No.	D111
Connector Name	REAR VIEW CAMERA
Connector Type	TH04MW



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	SB	-
3	GR	-
4	G	-
5	SHIELD	-
6	Y	-
7	G	-
8	R	-
9	Y	-
10	G	-
11	BR	-
12	W	-
13	W	-
14	BR	-

1	G	CAMERA POWER SUPPLY
2	L	CAMERA GND
3	Y	CAMERA IMAGE SIGNAL
4	SHIELD	-

Connector No.	D122
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



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

Terminal No.	Color of Wire	Signal Name [Specification]
12	L	-
13	SHIELD	-
17	G	-
18	Y	-

Connector No.	D125
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10



Terminal No.	Color of Wire	Signal Name [Specification]
6	5	4
13	12	11
18	17	16
19	18	17
20	19	18
21	20	19
22	21	20

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	SB	-
3	GR	-
4	G	-
5	SHIELD	-
6	Y	-
7	G	-
8	R	-
9	Y	-
10	G	-
11	BR	-
12	W	-
13	W	-
14	BR	-

15	Y	-
16	L	-
17	R	-
18	L	-
20	LG	-

Connector No.	D126
Connector Name	WIRE TO WIRE
Connector Type	MO4FW-LC



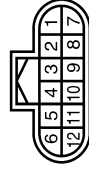
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
3	B	-

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 (-)

Connector No.	E6
Connector Name	WIRE TO WIRE
Connector Type	PH12FB



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

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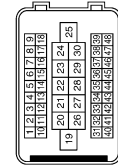
SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[DISPLAY AUDIO SYSTEM]

DISPLAY AUDIO

Connector No.	WIRE TO WIRE
44	R
46	W
47	G
48	BR



Connector No.	Signal Name [Specification]
44	R
46	W
47	G
48	BR



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	—
2	LG	—
3	Y	—
4	W	—
7	Y	—
8	SB	—
9	L	—
10	V	—
11	P	—
12	BR	—
13	LG	—
14	Y	—
15	SB	—
16	L	—
17	W	—
18	O	—
21	G	—
23	SB	—
24	W	—
25	BR	—
26	B	—
27	GR	—
28	P	—
29	V	—
30	G	—
31	G	—
32	O	—
33	W	—
34	Y	—
35	V	—
36	P	—
37	LG	—
39	SB	—
40	GR	—
41	O	—
42	V	—
43	R	— [With CVT]
43	LG	— [With M/T]

Connector No.	Signal Name [Specification]
44	R
46	W
47	G
48	BR

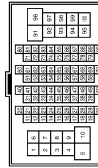
Connector No.	Signal Name [Specification]
44	R
46	W
47	G
48	BR



Connector No.	Signal Name [Specification]
44	R
46	W
47	G
48	BR

Terminal No.	Color of Wire	Signal Name [Specification]
47	BR	—
49	W	—
50	GR	—
51	R	—
52	P	—
54	GR	—
55	P	—
56	SB	—
57	G	—
58	R	— [With CVT]
59	Y	— [With M/T]
60	V	—
61	W	—
62	L	—

Connector No.	Signal Name [Specification]
44	R
46	W
47	G
48	BR



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	—

Terminal No.	Color of Wire	Signal Name [Specification]
91	W	—
92	Y	—
93	Y	—
94	R	—
95	V	—
96	LG	—
97	R	—
98	SB	—
99	G	—
100	P	—

Terminal No.	Color of Wire	Signal Name [Specification]
2	W	—
3	SB	—
4	G	—
5	P	—
6	R	—
7	Y	—
8	O	—
9	W	—
10	SB	—
31	V	—
32	R	—
33	GR	—
34	P	—
35	Y	—
36	BR	—
39	SB	—
44	R	—
45	V	—
46	P	—
47	W	—
48	L	—
49	Y	—
50	W	—
51	BR	— [With CVT]
51	B	— [With M/T]
53	SB	—
54	W	— [With CVT]
54	O	— [With M/T]
57	LG	—
59	L	—
60	O	—
61	G	—
62	W	—
63	L	—
67	GR	— [With CVT]
67	V	— [With M/T]
69	P	—
70	SHIELD	—
71	GR	—
72	LG	—
73	P	—
74	V	—
76	Y	—
77	LG	—
78	O	—
79	G	—
80	P	—
81	L	—
82	W	—
83	BR	—
84	B	—
87	GR	—

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[DISPLAY AUDIO SYSTEM]

DISPLAY AUDIO

Connector No.	F1
Connector Name	WIRE TO WIRE
Connector Type	SAA30FB-RS10-SJZ2



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	LG	-
3	R	-
4	Y	-
7	V	-
8	G	-
9	SB	-
10	L	-
11	Y	-
12	GR	-
13	BR	-
14	G	-
15	W	-
16	Y	-
17	P	-
18	BR	-
21	G	-
23	W	-
24	R	-
25	R	-
26	B	-
27	SB	-
28	V	-
29	V	-
30	BR	-
31	GR	-
32	BR	-
33	W	-
34	LG	-
35	V	-
36	Y	-
37	W	-
39	G	-
40	P	-
41	O	-
42	G	-
43	R	-
44	P	-

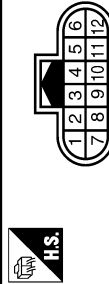
46	GR	-
47	Y	-
48	BR	-

Connector No.	F21
Connector Name	TRANSMISSION RANGE SWITCH
Connector Type	RK08FG



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	BR	-
3	R	-
4	GR	-
5	SB	-
6	W	-
7	Y	-
8	G	-

Connector No.	F46
Connector Name	WIRE TO WIRE
Connector Type	RH12MB



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	O	-
3	L	-
4	V	-
5	BR	-
6	LG	-
7	Y	-
8	SB	-
9	W	-

10	R	-
11	G	-

Connector No.	M14
Connector Name	TWEETER RH
Connector Type	TK02FBR



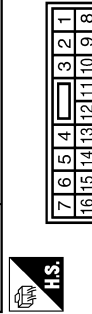
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	M15
Connector Name	TWEETER LH
Connector Type	TK02FBR



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	G/R	-
3	L/W	-
4	L	-
5	Y	-
6	L/B	-
7	LG	-
8	L/G	-
9	GR/B	-
10	W/L	-
11	G	-
12	V	-
13	L	-
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	-
5	L/R	-
8	R	-
7	L	-
8	R/B	-
9	G	-
10	V	-
11	L/W	-
12	LG	-
14	R	-
15	Y/R	-
16	B/R	-

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[DISPLAY AUDIO SYSTEM]

DISPLAY AUDIO

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	TH22FW-NH



16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
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	-
13	SHIELD	-
14	L	-
15	SB	-
16	SB	-
17	LG	-
18	SHIELD	-
19	BR	-
20	Y	-
21	L/Y	-
22	V	-
23	W/O	-
24	L/B	-
25	G/Y	-
26	G/O	-
27	R	-
28	B	-
29	W	-
30	P	-
31	LG	-
32	LG	-

Connector No.	M22
Connector Name	WIRE TO WIRE
Connector Type	NH10MH-CS10



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	G	-
4	B	-
5	L	-
6	W/R	-
7	R	-
8	V	-
9	G/R	-
10	L/G	-
11	R	-
12	G	-
13	BR/Y	-
14	B	-
15	G/B	-
16	GR	-
17	BR	-
18	L/Y	-
20	Y/R	-

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	NS10MH-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
7	G	-
8	L	-
9	BR	-

10	B	-
16	SHIELD	-

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



24	25	26
31	32	33
34		

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

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



20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
38	36	35	34	33	32	31	29	28	27	26	25	24	23	22	21				

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	CAN-H
2	P	CAN-L
3	V	VEHICLE SPEED SIGNAL (2-PULSE)
4	L	VEHICLE SPEED SIGNAL (8-PULSE)
6	BR/Y	FUEL LEVEL SENSOR SIGNAL
7	R/G	AIR BAG SIGNAL
8	P	OVERDRIVE CONTROL SWITCH SIGNAL
9	O	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
10	SB	PARKING BRAKE SWITCH SIGNAL
11	G/R	BRAKE FLUID LEVEL SWITCH SIGNAL
13	B/R	ILLUMINATION CONTROL SIGNAL

15	L/Y	ACC POWER SUPPLY
17	G	WASHER LEVEL SWITCH SIGNAL
18	P/Y	SECURITY SIGNAL
19	V/W	AMBIENT SENSOR SIGNAL
20	R/W	AMBIENT SENSOR GROUND
21	B	GROUND
22	B	GROUND
23	B	GROUND
24	V	FUEL LEVEL SENSOR GROUND
25	B	VDC GROUND
27	LG	BATTERY POWER SUPPLY
28	GR	IGNITION SIGNAL
29	BR	PASSENGER SEAT BELT WARNING SIGNAL
31	R	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
35	BR	ENGINE COOLANT TEMPERATURE SIGNAL
38	GR	ALTERNATOR SIGNAL

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	NS10MH-CS



1	2	3	4
5	6	7	8
9	10		

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	V	-
4	G/R	-
5	P	-
6	L/B	-
8	GR	-
9	BR	-
10	B	-

SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[DISPLAY AUDIO SYSTEM]

DISPLAY AUDIO

Connector No.	M68
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
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Terminal No.	Color of Wire	Signal Name [Specification]
2	BR/W	COMBI SW INPUT 5
3	GR	COMBI SW INPUT 4
4	L/Y	COMBI SW INPUT 3
5	G	COMBI SW INPUT 2
6	L/R	COMBI SW INPUT 1
7	W/R	KEY CYL UNLOCK SW
8	W/B	KEY CTL LOCK SW
9	R	STOP LAMP SW 1
10	V/W	TIRE PRESS WARNING CHECK SW
11	L/Y	ACC F/B
12	SB	PASSENGER DOOR SW
13	GR/L	REAR RH DOOR SW
14	L/B	OPTICAL SENSOR
15	W/L	REAR WINDOW DEFOGGER SW
17	R/G	OPTICAL SENSOR POWER SUPPLY
18	V	RECEIVER / SENSOR GND
19	BR	KEYLESS ENTRY RECEIVER POWER SUPPLY
20	P/Y	KEYLESS ENTRY RECEIVER COMM
21	P/L	NATS ANTENNA AMP
22	W/G	KEYLESS ENTRY RECEIVER RSSI
23	R/Y	SECURITY INDICATOR LAMP
24	GB/R	DONGLE LINK
25	LG	NATS ANTENNA AMP
27	Y/R	A/C SW
28	G/W	BLOWER FAN SW
29	L/W	HAZARD SW
31	G/B	DR DOOR UNLOCK SENSOR
32	LG	COMBI SW OUTPUT 5
33	Y/L	COMBI SW OUTPUT 4
34	W	COMBI SW OUTPUT 3
35	R/L	COMBI SW OUTPUT 2
36	L/O	COMBI SW OUTPUT 1
37	G/O	SHIFT P
38	O	IGN F/B
39	L	CAN-H
40	P	CAN-L

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS16-TM4



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
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Terminal No.	Color of Wire	Signal Name [Specification]
1	B/O	-
2	R	-
3	G/R	-
4	G/B	-
5	L	-
6	W	-
7	W/R	-
8	G/W	-
9	Y/L	-
10	W	-
31	GR/L	-
32	L/B	-
33	R/Y	-
34	SB	-
35	BR	-
36	G	-
39	L/R	-
44	G/O	-
45	LG/R	-
46	GR/W	-
47	BR/Y	-
48	L/O	-
49	L/W	-
50	P/L	-
51	B/W	-
53	R/L	-
54	O	-
57	GR	-
59	V	-
60	R/W	-
61	V/W	-
62	W/L	-
63	W/B	-
67	Y/R	-
69	LG	-
70	SHIELD	-
71	P/B	-
72	R/G	-

18	V	-
19	Y	-
20	GR/L	-
22	L	-
23	Y/L	-
24	G/W	-

Connector No.	M63
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



12	11	10	9	8	7	6	5	4	3	2	1
24	23	22	21	20	19	18	17	16	15	14	13

Terminal No.	Color of Wire	Signal Name [Specification]
4	L	-
5	Y/B	-
6	G/O	-
7	G/R	-
11	W	-
12	W/B	-
16	P	-
18	G/Y	-
19	SHIELD	-
24	B/W	-

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



12	11	10	9	8	7	6	5	4	3	2	1
24	23	22	21	20	19	18	17	16	15	14	13

Terminal No.	Color of Wire	Signal Name [Specification]
1	W/G	-
2	L/Y	-
3	R	-
4	P/B	-
5	W	-
6	W/G	-
7	R/B	-
8	SB	-
11	G/B	-
12	G/R	-
13	R/G	-
15	R/L	-
16	GR/R	-
17	BR/Y	-

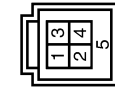
SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[DISPLAY AUDIO SYSTEM]

DISPLAY AUDIO

Connector No.	M92
Connector Name	USB CONNECTOR
Connector Type	HAA04FG



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

Connector No.	M93
Connector Name	AUDIO UNIT
Connector Type	TH18FW-OS2



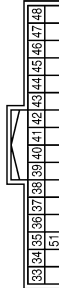
Terminal No.	Color of Wire	Signal Name [Specification]
2	W	SOUND SIGNAL FRONT SPEAKER LH (+)
3	P	SOUND SIGNAL FRONT SPEAKER LH (-)
4	V	SOUND SIGNAL REAR SPEAKER LH (+)
5	R/B	SOUND SIGNAL REAR SPEAKER LH (-)
6	W/G	STRG SW A
7	L/Y	ACC
8	B/R	ILLUMINATION CONTROL SIGNAL (-)
9	W	ILLUMINATION CONTROL SIGNAL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

Connector No.	M94
Connector Name	AUDIO UNIT
Connector Type	A12FW



Terminal No.	Color of Wire	Signal Name [Specification]
21	R	SATELLITE RADIO SOUND SIGNAL LH (+)
22	B	SATELLITE RADIO SOUND SIGNAL RH (+)
23	G/R	COMM AUDIO--SAT
24	Y	REQUEST SIGNAL (CHG--AUDIO)
25	G	SATELLITE RADIO SOUND SIGNAL LH (-)
26	W	SATELLITE RADIO SOUND SIGNAL RH (-)
27	SHIELD	SHIELD
28	SHIELD	SHIELD
29	W/G	SOURCE CHANGE
30	G/Y	REQUEST SIGNAL (SAT--AUDIO)
31	G/O	COMM (SAT--AUDIO)
32	R/B	CONTROL

Connector No.	M95
Connector Name	AUDIO UNIT
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
33	SHIELD	SHIELD
34	G/Y	CAMERA IMAGE SIGNAL
35	G/O	CAMERA POWER SUPPLY
36	G/R	CAMERA GND
37	LG	AV COMM (L)
38	SB	AV COMM (H)
40	LG	AV COMM (L)
41	SB	AV COMM (H)
42	B	GND
43	SHIELD	SHIELD

44	BR	SOUND SIGNAL (+)
45	Y	SOUND SIGNAL (-)
46	Y/B	WOOFER AMP ON SIGNAL
47	P	SOUND SIGNAL WOOFER (+)
48	L	SOUND SIGNAL WOOFER (-)
51	Y	REVERSE SIGNAL

Connector No.	M96
Connector Name	AUDIO UNIT
Connector Type	HAA04FL



Terminal No.	Color of Wire	Signal Name [Specification]
65	G	USB GND
66	R	USB D- SIGNAL
67	W	Y BUS SIGNAL
68	L	USB D+ SIGNAL
69	SHIELD	SHIELD

Connector No.	M302
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FG



Terminal No.	Color of Wire	Signal Name [Specification]
13	R	-
14	Y	-
15	P	-
16	B	-
17	W	-
18	G	-
19	P	-
20	R	-

Connector No.	M308
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-1/PP-HU



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

Connector No.	M309
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/IS-HU



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

Connector No.	M310
Connector Name	ANTENNA BASE
Connector Type	GT13SSN-1/PP-HU



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

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SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[DISPLAY AUDIO SYSTEM]

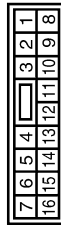
DISPLAY AUDIO

Connector No.	M314
Connector Name	AUDIO UNIT
Connector Type	GT13SH-2/IS-HU



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

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



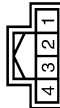
Terminal No.	Color of Wire	Signal Name [Specification]
6	Y	-
7	L	-
8	Y	-
9	BR	-
10	B	-
16	G	-

Connector No.	R3
Connector Name	WIRE TO WIRE
Connector Type	TH04MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	-	-
4	Y	-

Connector No.	R20
Connector Name	WIRE TO WIRE
Connector Type	TH04FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	SHIELD	-
3	-	-
4	R	-

Connector No.	R21
Connector Name	MICROPHONE
Connector Type	TK04FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	MICROPHONE SIGNAL
2	SHIELD	MICROPHONE GND
3	-	-
4	R	MICROPHONE VCC

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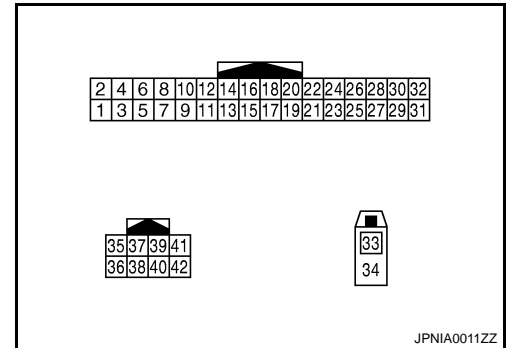
AV

TEL ADAPTER UNIT

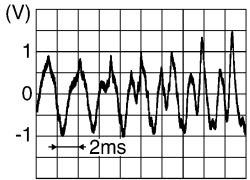

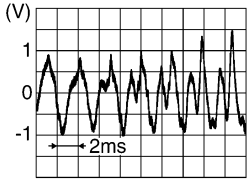
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TERMINAL LAYOUT





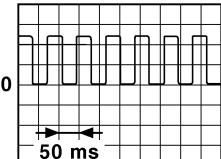
PHYSICAL VALUES

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.	 SKIB3609E
9 (BR)	10 (Y)	Sound signal (TEL voice, voice guid- ance)	Output	Ignition switch ON	During voice guide output with the  switch pressed.	 SKIB3609E

TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[DISPLAY AUDIO SYSTEM]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	—	Signal name	Input/ Output			
12 (W)	14 (GR)	Steering switch signal A	Input	Ignition switch ON	Keep pressing SOURCE switch.	0 V
					Keep pressing SEEK UP switch.	1.3 V
					Keep pressing SEEK DOWN switch.	2.5 V
					Keep pressing  switch.	3.4 V
					Except for above.	5.0 V
13 (SB)	14 (GR)	Steering switch signal B	Input	Ignition switch ON	Keep pressing VOL DOWN switch.	0 V
					Keep pressing VOL UP switch.	1.3 V
					Keep pressing  switch.	2.5 V
					Except for above.	5.0 V
17 (GR)	19 (L)	Steering switch signal A	Output	Ignition switch ON	Keep pressing SOURCE switch.	0 V
					Keep pressing SEEK UP switch.	0.7 V
					Keep pressing SEEK DOWN switch.	1.3 V
					Except for above.	3.3 V
18 (P)	19 (L)	Steering switch signal B	Output	Ignition switch ON	Keep pressing VOL DOWN switch.	0 V
					Keep pressing VOL UP switch.	0.7 V
					Except for above.	3.3 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 ap- prox. 40 km/h (25 MPH)	<p>NOTE: The maximum voltage varies de- pending on the specification (destination unit).</p> 

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TEL ADAPTER UNIT

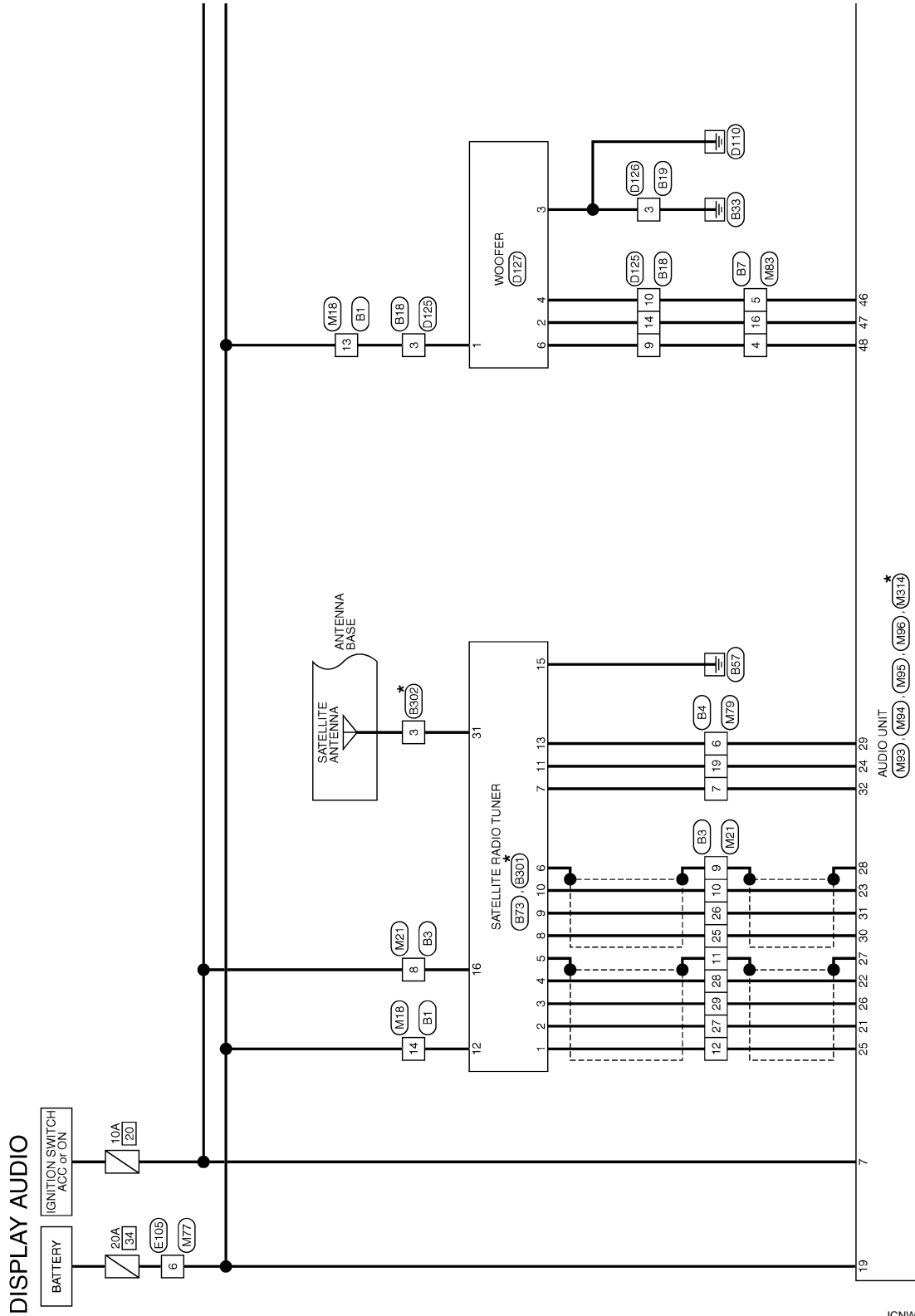
< ECU DIAGNOSIS INFORMATION >

[DISPLAY AUDIO SYSTEM]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	—	Signal name	Input/ Output			
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 (SB)	—	AV communication signal (H)	Input/ Output	—	—	—
36 (LG)	—	AV communication signal (L)	Input/ Output	—	—	—

Wiring Diagram - DISPLAY AUDIO -

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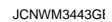
*: This connector is not shown in "Harness Layout".

2009/10/02

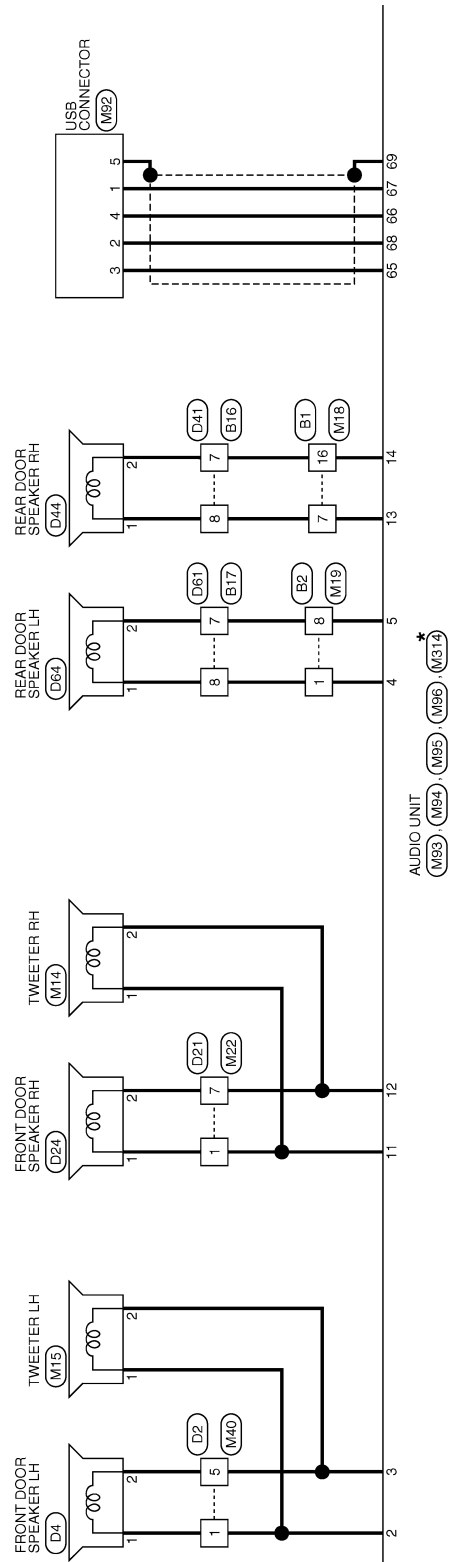
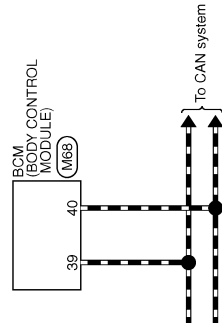
JCNWM3442GI

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AV

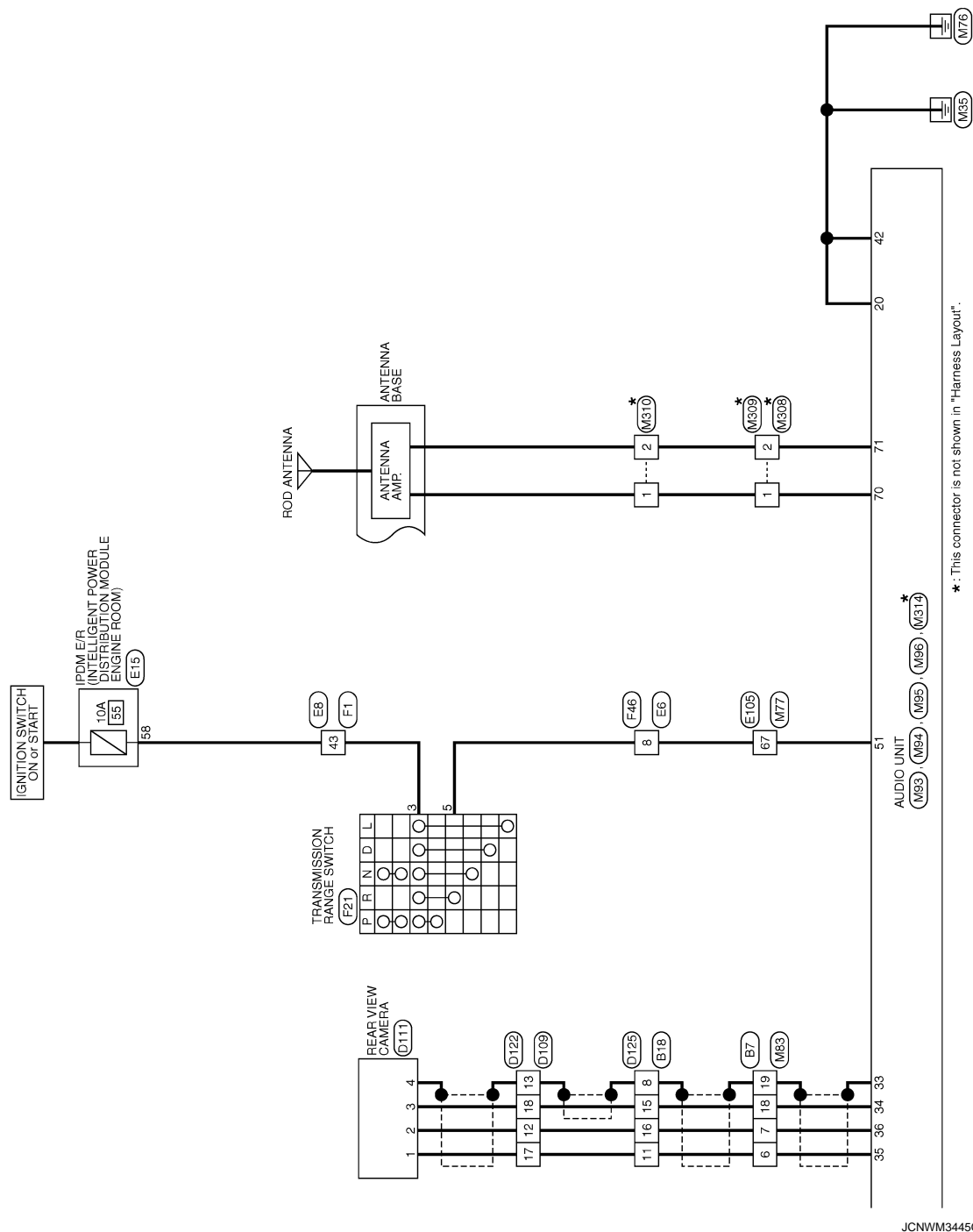


★: This connector is not shown in "Harness Layout".



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



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

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TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[DISPLAY AUDIO SYSTEM]

DISPLAY AUDIO

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



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	V	-
4	L	-
5	Y	-
6	W	-
7	LG	-
8	GR	-
9	SB	-
10	W	-
11	G	-
12	V	-
13	BR	-
14	SB	-
15	R	-
16	GR	-

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



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
5	O	-
6	R	-
7	L	-
8	L	-
9	G	-
10	V	-

11	P	-
12	LG	-
14	R	-
15	Y	-
16	B	-

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	L	-
3	R	-
4	SHIELD	-
5	LG	-
6	SB	-
7	P	-
8	V	-
9	SHIELD	-
10	R	-
11	SHIELD	-
12	G	-
13	SHIELD	-
14	G	-
15	SB	-
16	SB	-
17	LG	-
18	SHIELD	-
19	BR	-
20	Y	-
21	L	-
22	O	-
23	GR	-
24	L	-
25	W	-
26	B	-
27	R	-
28	B	-
29	W	-
30	R	-
31	LG	-

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



1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	O	-
4	P	-
5	W	-
6	W	-
7	P	-
8	SB	-
11	G	-
12	SB	-
13	L	-
15	R	-
16	GR	-
17	BR	-
18	L	-
19	Y	-
20	LG	-
22	Y	-
23	BR	-
24	O	-

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



1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	Y	-
6	G	-
7	L	-
11	O	-
12	W	-
16	BR	-
18	Y	-
19	SHIELD	-
24	R	-

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



4	3	2	1
10	9	8	7
6	5		

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	L	-
5	G	-
7	GR	-
8	LG	-
9	W	-
10	Y	-

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TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[DISPLAY AUDIO SYSTEM]

DISPLAY AUDIO

Connector No.	B17
Connector Name	WIRE TO WIRE
Connector Type	NS10PW-CS



4	3	2	1
10	9	8	7
6	5		

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	L	-
5	G	-
7	L	-
8	V	-
9	R	-
10	O	-

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
3	BR	-
5	R	-
6	P	-
7	B	- [With Intelligent Key]
7	G	- [Without Intelligent Key]
8	SHIELD	-
9	R	-
10	Y	-
11	G	-
12	W	-
13	O	-
14	BR	-
15	Y	-
16	L	-

17	R	-
18	B	-
20	LG	-

Connector No.	B19
Connector Name	WIRE TO WIRE
Connector Type	MO4MW-LC



1	2
3	4

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

Connector No.	B54
Connector Name	TEL ADAPTER UNIT
Connector Type	TH32PW-NH



2	4	8	10	12	14	16	20	22	24	28
1	3	7	9	11	13	17	19	21	23	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 SIGNAL GND
9	BR	SOUND SIGNAL (+)
10	Y	SOUND SIGNAL (-)
11	SB	TEL ON SIGNAL
12	W	STRG SW A
13	SB	STRG SW B
14	GR	STRG SW GND
17	GR	STRG SW A
18	P	STRG SW B
19	L	STRG SW GND

20	B	CONTROL SIGNAL
21	B	CONTROL SIGNAL
22	B	CONTROL SIGNAL
23	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
27	B	CONTROL SIGNAL
28	O	VEHICLE SPEED (2-PULSE)
29	R	MICROPHONE VCC

Connector No.	B55
Connector Name	TEL ADAPTER UNIT
Connector Type	TH48FW-NH



35	36
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Terminal No.	Color of Wire	Signal Name [Specification]
35	SB	AY COMM (H)
36	LG	AY COMM (L)

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



2	4	6	8	10	12	16
1	3	5	7	9	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 (CHG-AUDIO)
12	SB	BAT
13	W	SOURCE CHANGE
15	B	GND
16	V	ACC

Connector No.	B251
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16G-1S-HU



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

Connector No.	B301
Connector Name	SATELLITE RADIO TUNER
Connector Type	FAKRA



3	4
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Terminal No.	Color of Wire	Signal Name [Specification]
31	-	SATELLITE RADIO ANTENNA SIGNAL

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DISPLAY AUDIO

Connector No.	B302
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU



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

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS10PW-CS



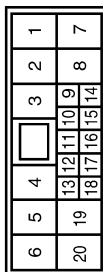
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	R	-
4	G	-
5	P	-
6	SB	-
8	GR	-
9	BR	-
10	B	-

Connector No.	D4
Connector Name	FRONT DOOR SPEAKER LH
Connector Type	NS02PW-CS



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

Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	NH10PW-CS10



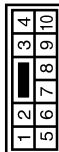
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	Y	-
4	B	-
5	L	-
6	SB	-
7	R	-
8	V	-
9	R	-
10	W	-
11	L	-
12	LG	-
13	P	-
14	B	-
15	G	-
16	GR	-
17	BR	-
18	V	-
20	W	-

Connector No.	D24
Connector Name	FRONT DOOR SPEAKER RH
Connector Type	NS02PW-CS



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

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



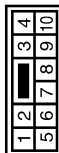
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
4	L	-
5	P	-
7	GR	-
8	LG	-
9	BR	-
10	O	-

Connector No.	D44
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS02PW-CS



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

Connector No.	D61
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	L	-
5	G	-
7	GR	-
8	LG	-
9	BR	-
10	O	-

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TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[DISPLAY AUDIO SYSTEM]

DISPLAY AUDIO

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	-

Connector No.	D109
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10



Terminal No.	Color of Wire	Signal Name [Specification]
6	-	-
5	-	-
4	-	-
3	-	-
2	-	-
1	-	-

Terminal No.	Color of Wire	Signal Name [Specification]
12	L	-
13	SHIELD	-
17	G	-
18	Y	-

Connector No.	D111
Connector Name	REAR VIEW CAMERA
Connector Type	TH04MW



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

1	G	CAMERA POWER SUPPLY
2	L	CAMERA GND
3	Y	CAMERA IMAGE SIGNAL
4	SHIELD	SHIELD

Connector No.	D122
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



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

Terminal No.	Color of Wire	Signal Name [Specification]
12	L	-
13	SHIELD	-
17	G	-
18	Y	-

Connector No.	D125
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10



Terminal No.	Color of Wire	Signal Name [Specification]
6	-	-
5	-	-
4	-	-
3	-	-
2	-	-
1	-	-
13	-	-
12	-	-
11	-	-
10	-	-
9	-	-
8	-	-
7	-	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
3	SB	-
5	GR	-
6	G	-
7	GR	-
8	SHIELD	-
9	R	-
10	Y	-
11	G	-
12	BR	-
13	W	-
14	BR	-

15	Y	-
18	L	-
17	R	-
18	L	-
20	LG	-

Connector No.	D126
Connector Name	WIRE TO WIRE
Connector Type	MO0FW-LC



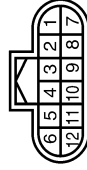
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
3	B	-

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 (-)

Connector No.	E6
Connector Name	WIRE TO WIRE
Connector Type	RH12FB

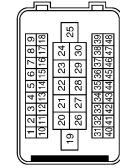


Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	BR	-
3	P	-
4	V	-
5	LG	-
6	R	-
7	SB	-
8	GR	-
9	LG	-
10	R	-
11	W	-

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DISPLAY AUDIO

Connector No.	E8
Connector Name	WIRE TO WIRE
Connector Type	SAA30MB-RS10-SJ22



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	LG	-
3	Y	-
4	W	-
7	Y	-
8	SB	-
9	L	-
10	V	-
11	P	-
12	BR	-
13	LG	-
14	Y	-
15	SB	-
16	L	-
17	W	-
18	O	-
21	G	-
23	SB	-
24	W	-
25	BR	-
26	B	-
27	GR	-
28	P	-
29	V	-
30	G	-
31	G	-
32	O	-
33	W	-
34	Y	-
35	V	-
36	P	-
37	LG	-
39	SB	-
40	GR	-
41	O	-
42	V	-
43	R	- [With CVT] - [With M/T]
43	LG	-

44	R	-
46	W	-
47	G	-
48	BR	-

Connector No.	E15
Connector Name	IPM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	NSI6PW-CS



53	52	51	50	49	48	47
62	61	60	59	58	57	56
55	54	53	52	51	50	49
48	47	46	45	44	43	42

Terminal No.	Color of Wire	Signal Name [Specification]
47	BR	-
48	W	-
49	W	-
50	GR	-
51	R	-
52	P	-
53	GR	-
54	Y	-
55	P	-
56	SB	-
57	G	-
58	R	-
59	Y	-
60	V	-
61	W	-
62	L	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



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

91	W	-
92	Y	-
93	Y	-
94	R	-
95	V	-
96	LG	-
97	R	-
98	SB	-
99	G	-
100	P	-

2	W	-
3	SB	-
4	G	-
5	P	-
6	R	-
7	Y	-
8	O	-
9	W	-
10	SB	-
31	V	-
32	R	-
33	GR	-
34	P	-
35	Y	-
36	BR	-
39	SB	-
44	R	-
45	V	-
46	P	-
47	W	-
48	L	-
49	Y	-
50	W	-
51	BR	- [With CVT] - [With M/T]
51	B	-
53	SB	-
54	W	-
54	O	- [With CVT] - [With M/T]
57	LG	-
59	L	-
60	O	-
61	G	-
62	W	-
63	L	-
67	GR	- [With CVT] - [With M/T]
67	V	-
68	P	-
70	SHIELD	-
71	GR	-
72	LG	-
73	P	-
74	V	-
76	Y	-
77	LG	-
78	O	-
79	G	-
80	P	-
81	L	-
82	W	-
83	BR	-
84	B	-
87	GR	-

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TEL ADAPTER UNIT

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[DISPLAY AUDIO SYSTEM]

DISPLAY AUDIO

Connector No.	Signal Name [Specification]
F1	WIRE TO WIRE
Connector Name	Connector Type
SAA38FE-RS10-S1Z2	



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	LG	-
3	R	-
4	Y	-
7	V	-
8	G	-
9	SB	-
10	L	-
11	Y	-
12	GR	-
13	BR	-
14	G	-
15	W	-
16	Y	-
17	P	-
18	BR	-
21	G	-
23	W	-
24	R	-
25	R	-
26	B	-
27	SB	-
28	V	-
29	V	-
30	BR	-
31	GR	-
32	BR	-
33	W	-
34	LG	-
35	V	-
36	Y	-
37	W	-
39	G	-
40	P	-
41	O	-
42	G	-
43	R	-
44	P	-

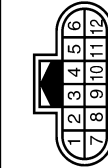
Terminal No.	Color of Wire	Signal Name [Specification]
46	GR	-
47	Y	-
48	BR	-

Connector No.	Signal Name [Specification]
F21	TRANSMISSION RANGE SWITCH
Connector Name	Connector Type
RK08FG	



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	BR	-
3	R	-
4	GR	-
5	SB	-
6	W	-
7	Y	-
8	G	-

Connector No.	Signal Name [Specification]
F46	WIRE TO WIRE
Connector Name	Connector Type
RH12MB	



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	O	-
3	L	-
4	V	-
5	BR	-
6	LG	-
7	Y	-
8	SB	-
9	W	-

Terminal No.	Color of Wire	Signal Name [Specification]
10	R	-
11	G	-

Connector No.	Signal Name [Specification]
M14	TWEETER RH
Connector Name	Connector Type
TK02FBR	



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

Connector No.	Signal Name [Specification]
M15	TWEETER LH
Connector Name	Connector Type
TK02FBR	



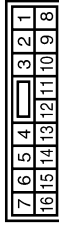
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	P	-

Connector No.	Signal Name [Specification]
M18	WIRE TO WIRE
Connector Name	Connector Type
NS16FW-CS	



Terminal No.	Color of Wire	Signal Name [Specification]
1	G/R	-
3	L/W	-
4	L	-
5	Y	-
6	L/B	-
7	LG	-
8	L/G	-
9	GR/B	-
10	W/L	-
11	G	-
12	V	-
13	L	-
14	L	-
15	L	-
16	GR	-

Connector No.	Signal Name [Specification]
M19	WIRE TO WIRE
Connector Name	Connector Type
NS16FW-CS	



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
5	L/R	-
6	R	-
7	L	-
8	R/B	-
9	G	-
10	V	-
11	L/W	-
12	LG	-
14	R	-
15	Y/R	-
16	B/R	-

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TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[DISPLAY AUDIO SYSTEM]

DISPLAY AUDIO

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	TH2PW-NH



16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
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	-
13	SHIELD	-
14	L	-
15	SB	-
16	SB	-
17	LG	-
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	-
30	P	-
31	LG	-
32	LG	-

Connector No.	M22
Connector Name	WIRE TO WIRE
Connector Type	NH10MH-CS10



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	G	-
3	B	-
4	L	-
5	W/L	-
6	W/R	-
7	R	-
8	V	-
9	G/R	-
10	LG	-
11	R	-
12	G	-
13	BR/Y	-
14	B	-
15	G/B	-
16	GR	-
17	BR	-
18	L/Y	-
20	Y/R	-

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
7	G	-
8	L	-
9	BR	-

10	B	-
16	SHIELD	-

Connector No.	M33
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08GY-IV



24	25	26
31	32	33
34		

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

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



20	19	18	17	16	15	14	13	12	11
10	9	8	7	6	5	4	3	2	1
36	35	34	33	32	31	30	29	28	27
26	25	24	23	22	21				

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	CAN-H
2	P	CAN-L
3	V	VEHICLE SPEED SIGNAL (2-PULSE)
4	L	VEHICLE SPEED SIGNAL (8-PULSE)
6	BR/Y	FUEL LEVEL SENSOR SIGNAL
7	R/G	AIR BAG SIGNAL
8	P	OVERDRIVE CONTROL SWITCH SIGNAL
9	O	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
10	SB	PARKING BRAKE SWITCH SIGNAL
11	G/R	BRAKE FLUID LEVEL SWITCH SIGNAL
13	B/R	ILLUMINATION CONTROL SIGNAL

15	L/Y	ACC POWER SUPPLY
17	G	WASHER LEVEL SWITCH SIGNAL
18	P/V	SECURITY SIGNAL
19	V/W	AMBIENT SENSOR SIGNAL
20	R/W	AMBIENT SENSOR GROUND
21	B	GROUND
22	B	GROUND
23	B	GROUND
24	V	FUEL LEVEL SENSOR GROUND
25	B	VDC GROUND
27	LG	BATTERY POWER SUPPLY
28	GR	IGNITION SIGNAL
29	BR	PASSENGER SEAT BELT WARNING SIGNAL
31	R	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
35	BR	ENGINE COOLANT TEMPERATURE SIGNAL
38	GR	ALTERNATOR SIGNAL

Connector No.	M40
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	-
2	V	-
3	V	-
4	G/R	-
5	P	-
6	L/B	-
8	GR	-
9	BR	-
10	B	-

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TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[DISPLAY AUDIO SYSTEM]

DISPLAY AUDIO

Connector No.	M68
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



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

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



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

Terminal No.	Color of Wire	Signal Name [Specification]
2	BR/W	COMBI SW INPUT 5
3	GR	COMBI SW INPUT 4
4	L/Y	COMBI SW INPUT 3
5	G	COMBI SW INPUT 2
6	L/R	COMBI SW INPUT 1
7	W/R	KEY CYL UNLOCK SW
8	W/B	KEY CYL LOCK SW
9	R	STOP LAMP SW 1
10	V/W	TIRE PRESS WARNING CHECK SW
11	L/Y	ACC F/B
12	SB	PASSENGER DOOR SW
13	GR/L	REAR RH DOOR SW
14	L/B	OPTICAL SENSOR
15	W/L	REAR WINDOW DEFOGGER SW
17	R/G	OPTICAL SENSOR POWER SUPPLY
18	V	RECEIVER / SENSOR GND
19	BR	KEYLESS ENTRY RECEIVER POWER SUPPLY
20	G/Y	KEYLESS ENTRY RECEIVER COMM
21	P/L	NATS ANTENNA AMP
22	W/G	KEYLESS ENTRY RECEIVER RSSI
23	R/Y	SECURITY INDICATOR LAMP
24	GR/R	DONGLE LINK
25	LG	NATS ANTENNA AMP
27	Y/R	A/C SW
28	G/W	BLOWER FAN SW
29	L/W	HAZARD SW
31	G/B	DR DOOR UNLOCK SENSOR
32	LG	COMBI SW OUTPUT 5
33	Y/L	COMBI SW OUTPUT 4
34	W	COMBI SW OUTPUT 3
35	R/L	COMBI SW OUTPUT 2
36	L/O	COMBI SW OUTPUT 1
37	G/O	SHIFT P
38	O	IGN F/B
39	L	CAN-H
40	P	CAN-L

Terminal No.	Color of Wire	Signal Name [Specification]
1	B/O	-
2	R	-
3	G/R	-
4	G/B	-
5	L	-
6	L	-
7	W/R	-
8	G/W	-
9	Y/L	-
10	W	-
31	GR/L	-
32	L/B	-
33	R/Y	-
34	SB	-
35	BR	-
36	G	-
39	L/R	-
44	G/O	-
45	LG/R	-
46	GR/W	-
47	BR/Y	-
48	L/O	-
49	L/W	-
50	P/L	-
51	B/W	-
53	R/L	-
54	O	-
57	GR	-
59	V	-
60	R/W	-
61	V/W	-
62	W/L	-
63	W/B	-
67	Y/R	-
69	LG	-
70	SHIELD	-
71	P/B	-
72	R/G	-

18	V	-
19	Y	-
20	GR/L	-
22	L	-
23	Y/L	-
24	G/W	-

Connector No.	M63
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



12	11	10	9	8	7	6	5	4	3	2	1
----	----	----	---	---	---	---	---	---	---	---	---

Terminal No.	Color of Wire	Signal Name [Specification]
4	L	-
5	Y/B	-
6	G/O	-
7	G/R	-
11	W	-
12	W/B	-
16	P	-
18	G/Y	-
19	SHIELD	-
24	B/W	-

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



12	11	10	9	8	7	6	5	4	3	2	1
----	----	----	---	---	---	---	---	---	---	---	---

Terminal No.	Color of Wire	Signal Name [Specification]
1	W/G	-
2	L/Y	-
3	R	-
4	P/B	-
5	W	-
6	W/G	-
7	R/B	-
8	SB	-
11	G/B	-
12	G/R	-
13	R/G	-
15	R/L	-
16	GR/R	-
17	BR/Y	-

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TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[DISPLAY AUDIO SYSTEM]

DISPLAY AUDIO

Connector No.	M82
Connector Name	USB CONNECTOR
Connector Type	HAA04FG



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

Connector No.	M83
Connector Name	AUDIO UNIT
Connector Type	TH18FW-CS2



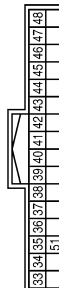
Terminal No.	Color of Wire	Signal Name [Specification]
2	W	SOUND SIGNAL FRONT SPEAKER LH (+)
3	P	SOUND SIGNAL FRONT SPEAKER RH (+)
4	V	SOUND SIGNAL REAR SPEAKER LH (+)
5	R/B	SOUND SIGNAL REAR SPEAKER RH (+)
6	W/G	STRG SW A
7	L/Y	ACC
8	B/R	ILLUMINATION CONTROL SIGNAL (-)
9	W	ILLUMINATION CONTROL SIGNAL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

Connector No.	M84
Connector Name	AUDIO UNIT
Connector Type	A12FW



Terminal No.	Color of Wire	Signal Name [Specification]
21	R	SATELLITE RADIO SOUND SIGNAL LH (+)
22	B	SATELLITE RADIO SOUND SIGNAL RH (+)
23	G/R	COMM AUDIO--SAT
24	Y	REQUEST SIGNAL (CHG--AUDIO)
25	G	SATELLITE RADIO SOUND SIGNAL LH (-)
26	W	SATELLITE RADIO SOUND SIGNAL RH (-)
27	SHIELD	SHIELD
28	SHIELD	SHIELD
29	W/G	SOURCE CHANGE
30	G/Y	REQUEST SIGNAL (SAT--AUDIO)
31	G/O	COMM (SAT--AUDIO)
32	R/B	CONTROL

Connector No.	M85
Connector Name	AUDIO UNIT
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
33	SHIELD	SHIELD
34	G/Y	CAMERA IMAGE SIGNAL
35	G/O	CAMERA POWER SUPPLY
36	G/R	CAMERA GND
37	LG	AV COMM (L)
38	SB	AV COMM (H)
40	LG	AV COMM (L)
41	SB	AV COMM (H)
42	B	GND
43	SHIELD	SHIELD

44	BR	SOUND SIGNAL (+)
45	Y	SOUND SIGNAL (-)
46	Y/B	WOOFER AMP ON SIGNAL
47	P	SOUND SIGNAL WOOFER (+)
48	L	SOUND SIGNAL WOOFER (-)
51	Y	REVERSE SIGNAL

Connector No.	M86
Connector Name	AUDIO UNIT
Connector Type	HAA04FL



Terminal No.	Color of Wire	Signal Name [Specification]
65	G	USB GND
66	R	USB D- SIGNAL
67	W	V BUS SIGNAL
68	L	USB D+ SIGNAL
69	SHIELD	SHIELD

Connector No.	M302
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08F-GY



Terminal No.	Color of Wire	Signal Name [Specification]
13	R	-
14	Y	-
15	P	-
16	B	-
17	W	-
18	G	-
19	P	-
20	R	-

Connector No.	M308
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-1/PP-HU



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

Connector No.	M309
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/IS-HU



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

Connector No.	M310
Connector Name	ANTENNA BASE
Connector Type	GT13SSN-1/PP-HU



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

JCNWM3454GI

DISPLAY AUDIO

Connector No.	M314
Connector Name	AUDIO UNIT
Connector Type	GT13SH-2/1S-HU



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

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



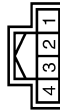
Terminal No.	Color of Wire	Signal Name [Specification]
6	Y	-
7	L	-
8	Y	-
9	BR	-
10	B	-
16	G	-

Connector No.	R3
Connector Name	WIRE TO WIRE
Connector Type	TH04MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	-	-
4	Y	-

Connector No.	R20
Connector Name	WIRE TO WIRE
Connector Type	TH04FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	SHIELD	-
3	-	-
4	R	-

Connector No.	R21
Connector Name	MICROPHONE
Connector Type	TK04FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	MICROPHONE SIGNAL
2	SHIELD	MICROPHONE GND
3	-	-
4	R	MICROPHONE VCC

JCNWM3455GI

AUDIO SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[DISPLAY AUDIO SYSTEM]

SYMPTOM DIAGNOSIS

AUDIO SYSTEM SYMPTOMS

Symptom Table

INFOID:000000005730723

AUDIO SYSTEM

Symptoms	Check items	Possible malfunction location / Action to take
The audio system does not turn ON.	—	Audio unit power supply and ground circuit. Refer to AV-113, "AUDIO UNIT : Diagnosis Procedure" .
Audio sound is not heard or volume is small.	Sound is not heard from woofer.	<ul style="list-style-type: none"> Sound signal woofer circuit Woofer amp. ON signal circuit. Refer to AV-130, "Diagnosis Procedure".
	Sound is not heard only from the specific places.	Sound signal circuit of malfunctioning system.
AM/FM radio is not received.	Other audio sounds are normal.	<ul style="list-style-type: none"> Antenna amp. ON signal circuit. Antenna base Antenna feeder
Satellite radio is not received.	it change to satellite radio mode.	<ul style="list-style-type: none"> Satellite radio sound signal circuit Satellite radio antenna (antenna base)
	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-113, "SATELLITE RADIO TUNER : Diagnosis Procedure". Request signal circuit. Refer to AV-128, "Diagnosis Procedure". Communication circuit between audio unit and satellite radio tuner. Refer to AV-126, "Diagnosis Procedure".

RELATED TO USB

NOTE:

Check that there is no malfunction of USB equipment main body before performing a diagnosis.

Symptoms	Check items	Possible malfunction location / Action to take
iPod® or USB memory can not be recognized.	—	<ul style="list-style-type: none"> USB harness malfunction. USB connector malfunction.

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

RELATED TO CAMERA

Trouble Diagnosis Chart by Symptom



Symptoms	Check items	Probable malfunction location
Camera image is not shown.	The guide line display is normal.	Camera image signal circuit. Refer to AV-124, "Diagnosis Procedure" .
Camera image does not switch.	"Reverse" is not turned ON on "Vehicle Signals" screen of "Confirmation/Adjustment".	Reverse signal circuit malfunction.
	"Reverse" is turned ON on "Vehicle Signals" screen of "Confirmation/Adjustment".	Replace audio unit. Refer to AV-194, "Exploded View" .

RELATED TO STEERING SWITCH

AUDIO SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[DISPLAY AUDIO SYSTEM]

Symptoms	Possible malfunction location / Action to take
All steering switches are not operated.	Steering switch signal ground circuit. (steering switch to TEL adapter unit) Refer to AV-119, "Diagnosis Procedure" .
"SOURCE", "SEEK UP", "VOL UP", "SEEK DOWN" and "VOL DOWN" switches are not operated.	Steering switch signal ground circuit. (TEL adapter unit to audio unit) Refer to AV-123, "Diagnosis Procedure" .
Only specified switch cannot be operated.	Replace steering switch. Refer to ST-9, "Exploded View" .
"  ", "SOURCE", "SEEK UP" and "SEEK DOWN" switches are not operated.	Steering switch signal A circuit. (steering switch to TEL adapter unit) Refer to AV-115, "Diagnosis Procedure" .
"SOURCE", "SEEK UP" and "SEEK DOWN" switches are not operated.	Steering switch signal A circuit. (TEL adapter unit to audio unit) Refer to AV-121, "Diagnosis Procedure" .
"  ", "VOL UP" and "VOL DOWN" switches are not operated.	Steering switch signal B circuit. (steering switch to TEL adapter unit) Refer to AV-117, "Diagnosis Procedure" .
"VOL UP" and "VOL DOWN" switches are not operated.	Steering switch signal B circuit. (TEL adapter unit to audio unit) Refer to AV-122, "Diagnosis Procedure" .

HANDS-FREE PHONE SYMPTOMS

< SYMPTOM DIAGNOSIS >

[DISPLAY AUDIO SYSTEM]

HANDS-FREE PHONE SYMPTOMS

Symptom Table

INFOID:000000005730724

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.

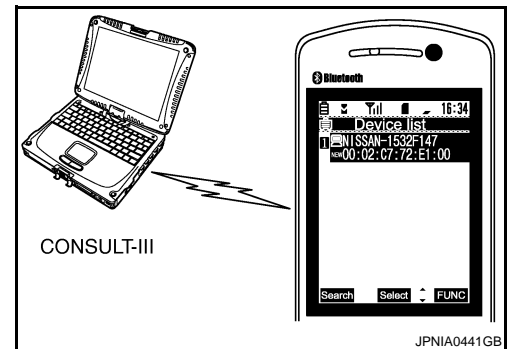
1. Turn on a cellular phone, not connecting Bluetooth™ communication.
2. Start CONSULT-III, then start Windows®.
3. Set CONSULT-III near a cellular phone.

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-114, "TEL ADAPTER UNIT : Diagnosis Procedure". • Control signal circuit
	<ul style="list-style-type: none"> • Both the reception and the speech cannot be performed. • Audio can be operated by steering switch. 	AV communication circuit between audio unit and TEL adapter unit.
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-185, "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-131, "Diagnosis Procedure" .

RELATED TO STEERING SWITCH

HANDS-FREE PHONE SYMPTOMS

< SYMPTOM DIAGNOSIS >

[DISPLAY AUDIO SYSTEM]

Symptoms	Possible malfunction location / Action to take
All steering switches are not operated.	Steering switch signal ground circuit. (steering switch to TEL adapter unit) Refer to AV-119. "Diagnosis Procedure" .
Only specified switch cannot be operated.	Replace steering switch. Refer to ST-9. "Exploded View" .
"  ", "SOURCE", "SEEK UP" and "SEEK DOWN" switches are not operated.	Steering switch signal A circuit. (steering switch to TEL adapter unit) Refer to AV-115. "Diagnosis Procedure" .
"  ", "VOL UP" and "VOL DOWN" switches are not operated.	Steering switch signal B circuit. (steering switch to TEL adapter unit) Refer to AV-117. "Diagnosis Procedure" .

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[DISPLAY AUDIO SYSTEM]

NORMAL OPERATING CONDITION

Description

INFOID:000000005730725

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 if the disc or USB device was inserted correctly.
	Check that the disc is scratched or dirty.
	Check if there is condensation inside the player, and if there is, wait until the condensation is gone (about 1 hour) before using the player.
	If there is a temperature increase error, the player will play correctly after it returns to the normal temperature.
	Files with extensions other than ".MP3 (.mp3)", ".WMA (.wma)", ".AAC (.aac)" or ".M4A (.m4a)" 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 compressed audio 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.
It takes a relatively long time before the music starts playing.	If there are many folder or file levels on the disc or USB device, 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.	If an unsupported compressed audio file has been given a supported extension like ".MP3", or when play is prohibited by copyright protection, 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, so the files might not play in the desired order.
	Random/Shuffle may be active on the audio system or on a USB device.

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 >

[DISPLAY AUDIO SYSTEM]

Symptoms	Cause and Counter measure
System fails to interpret the command correctly.	1. Ensure that the command format is valid.
	2. Ensure that the command is spoken after the tone.
	3. Speak clearly without pausing between words and at a level appropriate to the ambient noise level in the vehicle.
	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.
	5. If more than one command was said at a time, try saying the commands separately.
	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-111. "Diagnosis Description" .
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.
	2. Replace one of the names being confused with a new name.

PRECAUTION

PRECAUTIONS

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

INFOID:000000005745222

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.

Precaution for Trouble Diagnosis

INFOID:000000005745315

AV COMMUNICATION SYSTEM

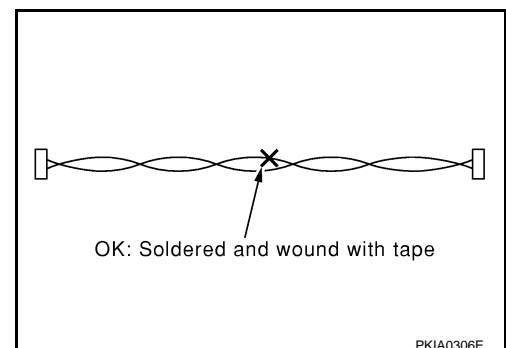
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precaution for Harness Repair

INFOID:000000005745316

AV COMMUNICATION SYSTEM

- Solder the repaired parts, and wrap with tape. [Frays of twisted line must be within 110 mm (4.33 in).]



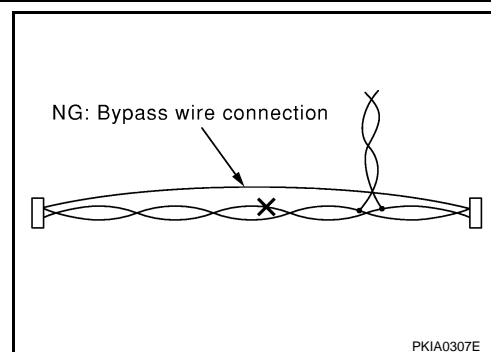
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PRECAUTIONS

< PRECAUTION >

[DISPLAY AUDIO SYSTEM]

- Do not perform bypass wire connections for the repair parts. (The spliced wire will become separated and the characteristics of twisted line will be lost.)

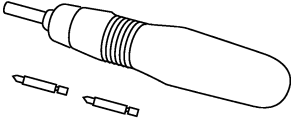


PREPARATION

PREPARATION

Commercial Service Tools

INFOID:0000000005745220

Tool name	Description
<p>Power tool</p>  <p>PBIC0191E</p>	<p>Loosening screws</p>

A

B

C

D

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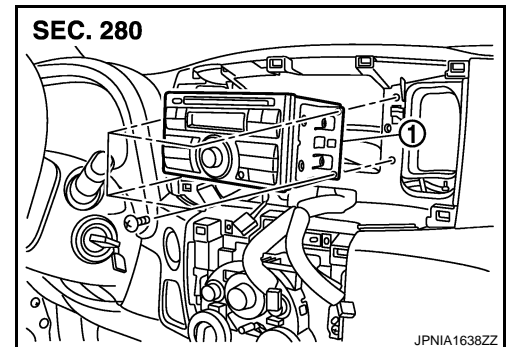
REMOVAL AND INSTALLATION

AUDIO UNIT

Exploded View

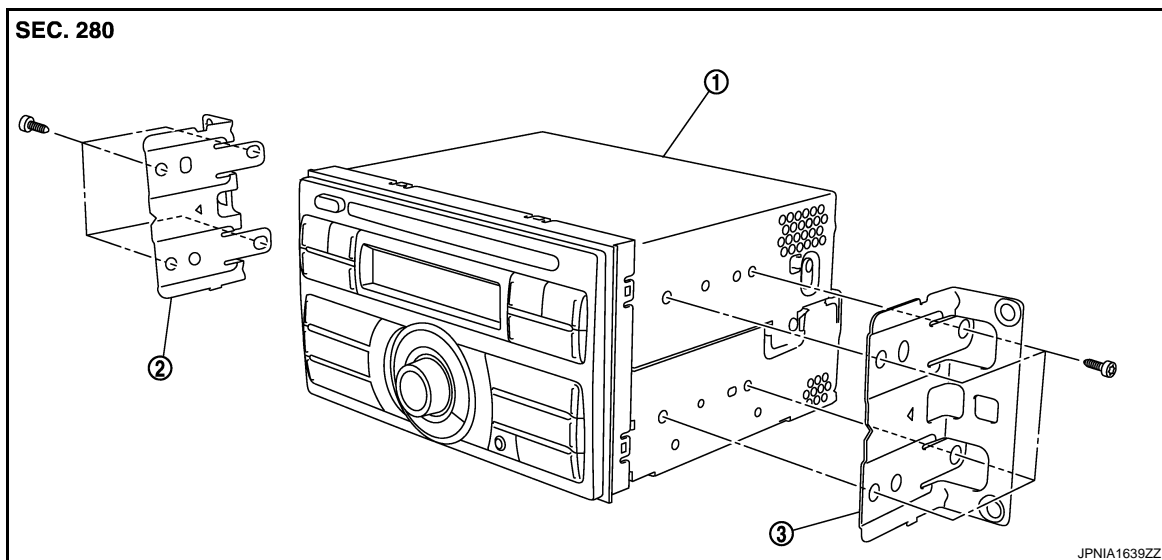
REMOVAL

INFOID:000000005732897



1. Audio unit

DISASSEMBLY



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

Removal and Installation

INFOID:000000005732898

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

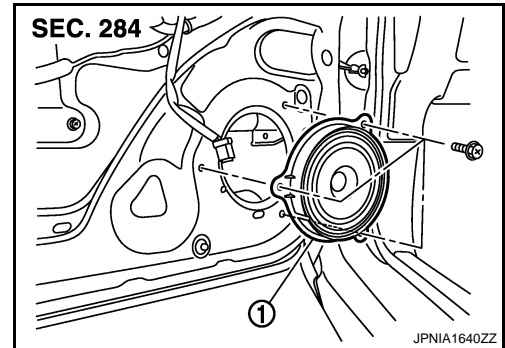
< REMOVAL AND INSTALLATION >

[DISPLAY AUDIO SYSTEM]

FRONT DOOR SPEAKER

Exploded View

INFOID:0000000005732899



1. Front door speaker

Removal and Installation

INFOID:0000000005732900

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.

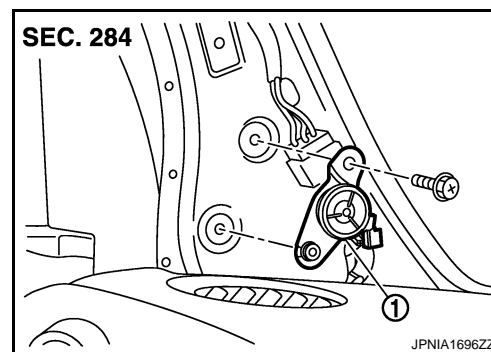
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AV

TWEETER

Exploded View

INFOID:000000005732901



1. Tweeter

Removal and Installation

INFOID:000000005732902

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

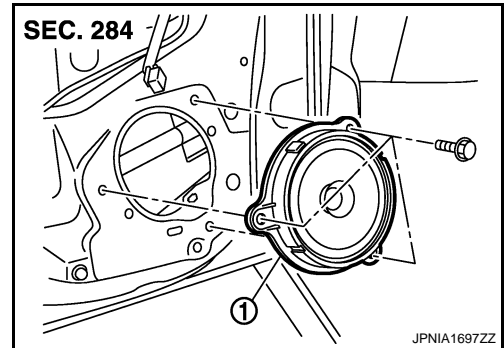
< REMOVAL AND INSTALLATION >

[DISPLAY AUDIO SYSTEM]

REAR DOOR SPEAKER

Exploded View

INFOID:0000000005732903



1. Rear door speaker

Removal and Installation

INFOID:0000000005732904

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.

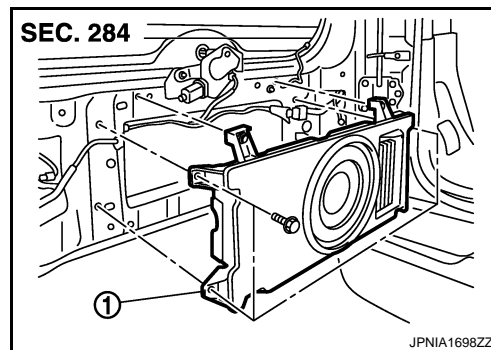
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AV

WOOFER

Exploded View

INFOID:000000005732905



1. Woofer

Removal and Installation

INFOID:000000005732906

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.

REAR VIEW CAMERA

Removal and Installation

INFOID:000000005737157

REMOVAL

1. Remove back door finisher lower. Refer to [INT-26, "Exploded View"](#).
2. Disconnect rear view camera connector.
3. Remove rear view camera nuts to remove rear view camera.

INSTALLATION

Install in the reverse order of removal.

NOTE:

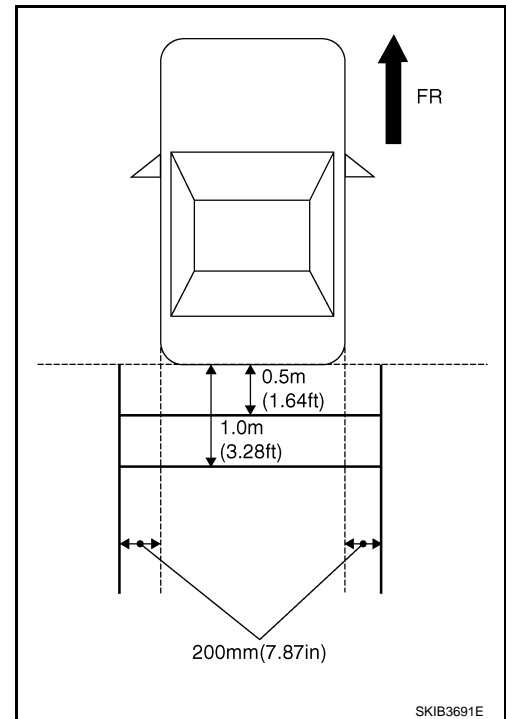
Adjust the guide line position if the guide line position is shifted after installing the rear view camera. Refer to [AV-199, "Adjustment"](#).

Adjustment

INFOID:000000005732997

Adjust the guide line position if the guide line position is shifted after installing the rear view camera.

1. Draw lines on rearward area of the vehicle passing through the following points: 200 mm (7.87 in) from both sides of the vehicle, and 0.5 m (1.64 ft), 1.0 m (3.28 ft) from the rear end of the bumper.
2. Set into "Camera system" mode of Confirmation / Adjustment mode.



3. Press "1" or "2" switches, and then select the guiding line pattern so that its angle is aligned with the correction line of the rear of the vehicle.

Selected pattern : 7

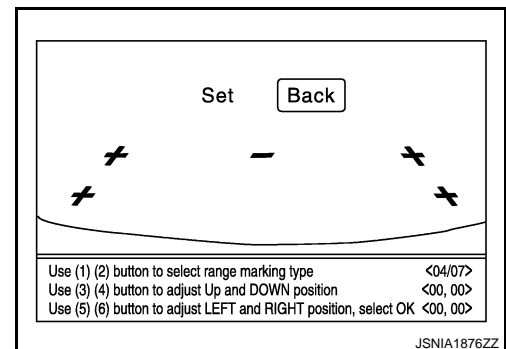
4. Make fine adjustment to the correction line of the rear of the vehicle with "3", "4", "5" or "6" switches so that its position is aligned with the guiding line. Press "PUSH ENTER" switch and record the adjusted guiding line position to the camera control unit.

Up/Down adjustment range : (-20) – (20)

Left/Right adjustment range : (-20) – (20)

CAUTION:

Never operate other function such as pressing BACK while writing index data.

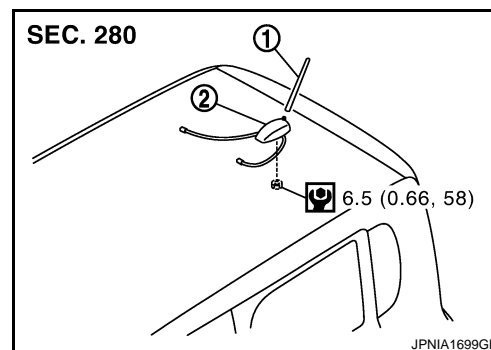


JSNIA1876ZZ

ANTENNA BASE

Exploded View

INFOID:000000005732909



1. Antenna rod
2. Antenna base

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

Removal and Installation

INFOID:000000005732910

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 >

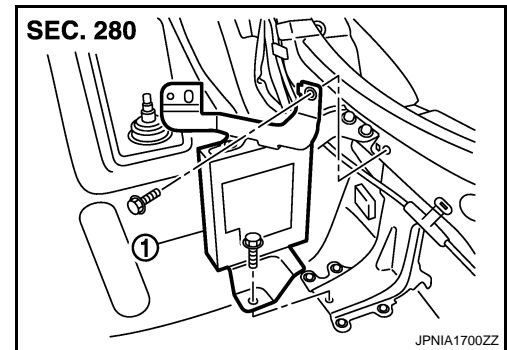
[DISPLAY AUDIO SYSTEM]

SATELLITE RADIO TUNER

Exploded View

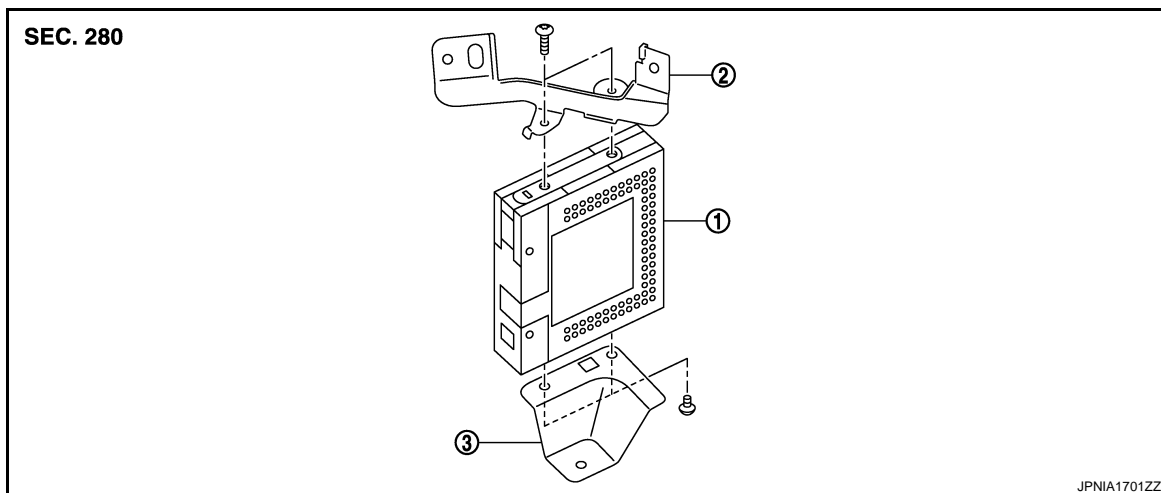
INFOID:000000005732911

REMOVAL



1. Satellite radio tuner

DISASSEMBLY



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

Removal and Installation

INFOID:000000005732912

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

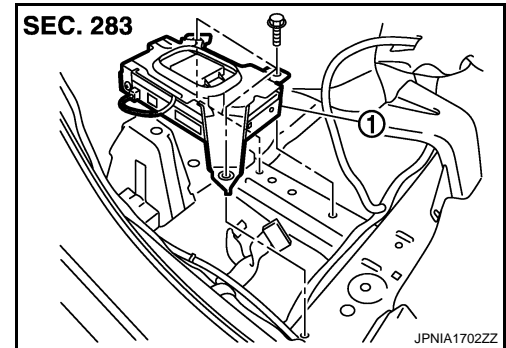
Install in the reverse order of removal.

TEL ADAPTER UNIT

Exploded View

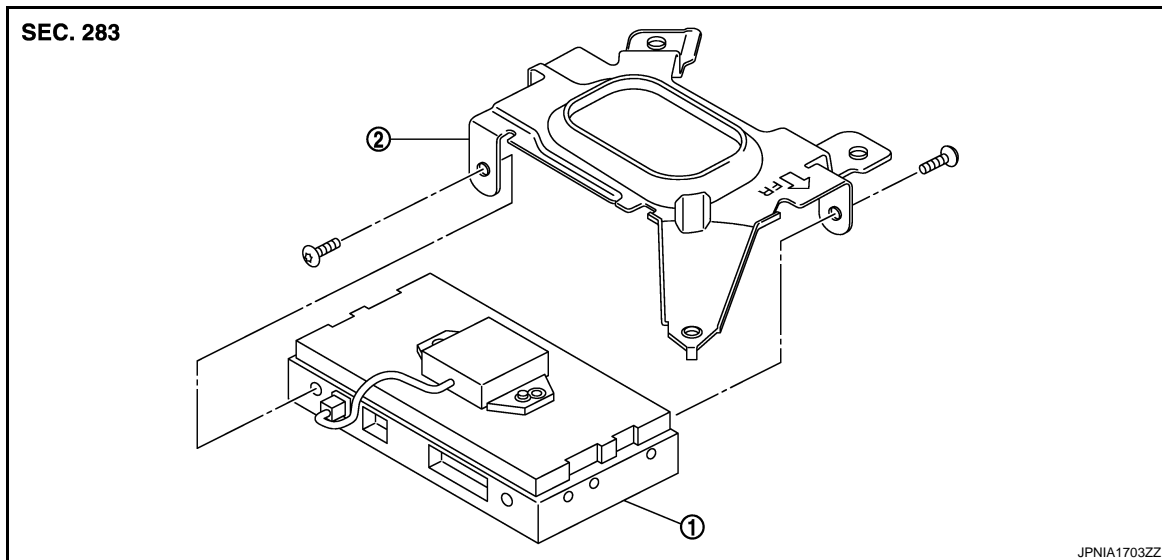
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REMOVAL



1. TEL adapter unit

DISASSEMBLY



1. TEL adapter unit
2. Bracket

Removal and Installation

INFOID:000000005732914

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.

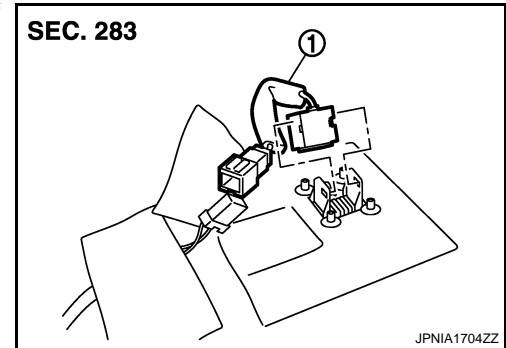
INSTALLATION

Install in the reverse order of removal.

MICROPHONE

Exploded View

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1. Microphone

Removal and Installation

INFOID:000000005732916

REMOVAL

1. Remove front pillar garnish LH and center pillar upper garnish LH. Refer to [INT-15. "Exploded View"](#).
2. Remove sunvisor 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.

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

AV

USB CONNECTOR

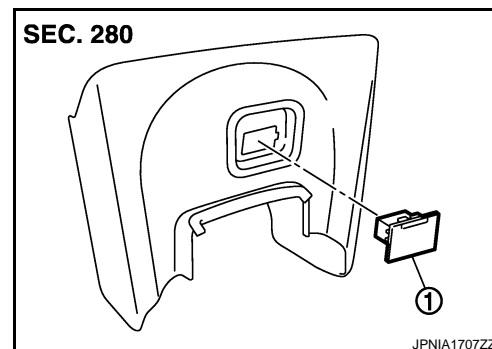
Exploded View

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REMOVAL

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

DISASSEMBLY



1. iPod connector

Removal and Installation

INFOID:000000005732920

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.

ANTENNA FEEDER

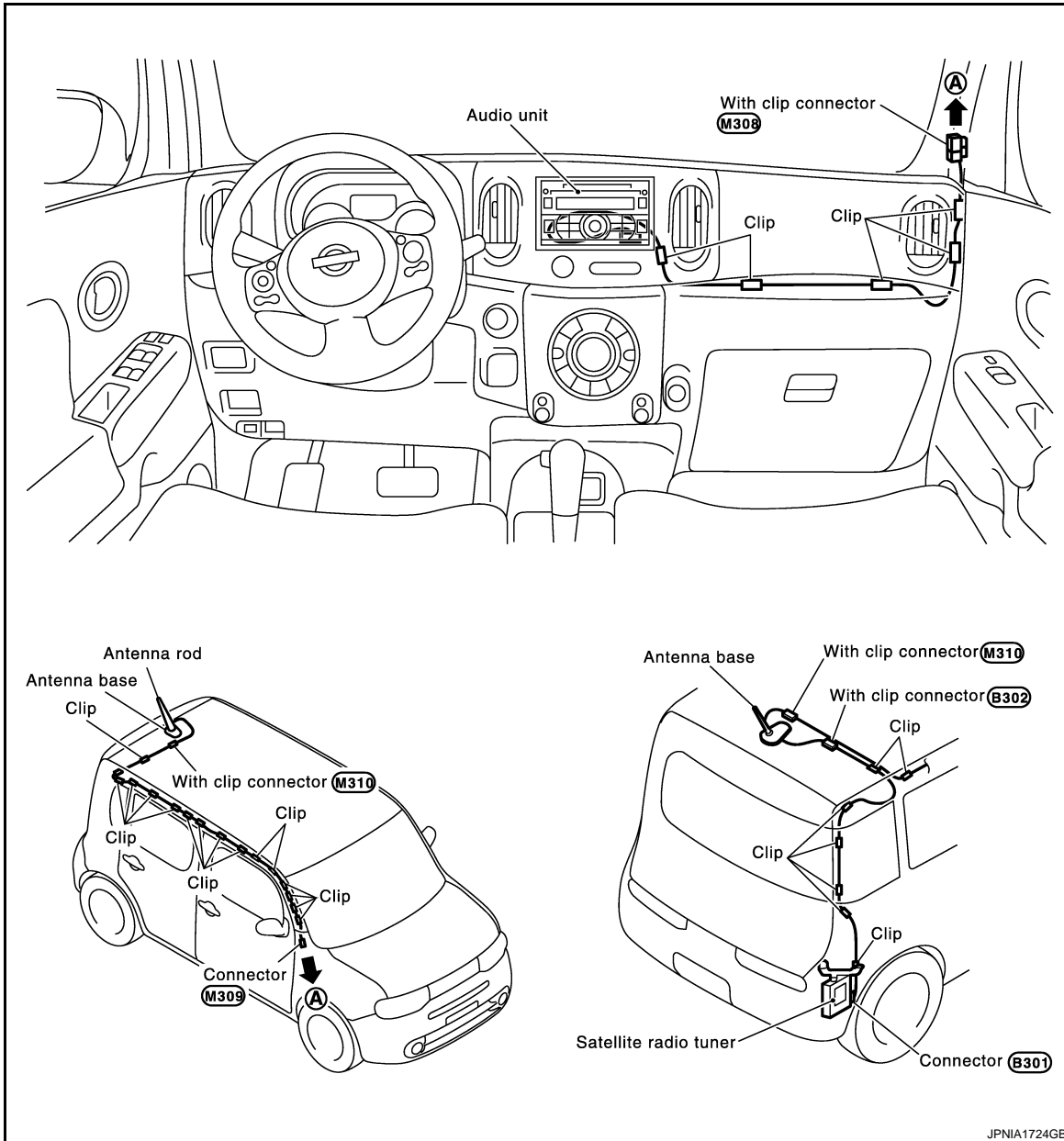
< REMOVAL AND INSTALLATION >

[DISPLAY AUDIO SYSTEM]

ANTENNA FEEDER

Harness Layout

INFOID:000000005732921



JPNIA1724GB

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