SYMPTOM DIAGNOSIS

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

ALL DOOR

ALL DOOR : Description
INFOID:0000000004929796

All doors do not lock/unlock using door lock and unlock switch.

ALL DOOR : Diagnosis Procedure
INFOID:0000000004929797

1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.
Refer to DLK-64, "BCM (BODY CONTROL MODULE) : Diagnosis Procedure".
Is the inspection result normal?
  YES   >> GO TO 2.
  NO   >> Repair or replace the malfunctioning parts.

2. CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.
• Driver side: Refer to DLK-67, "DRIVER SIDE : Component Function Check".
• Passenger side: Refer to DLK-69, "PASSENGER SIDE : Component Function Check".
Is the inspection result normal?
  YES   >> GO TO 3.
  NO   >> Repair or replace the malfunctioning parts.

3. CHECK DOOR SWITCH

Check door switch.
Refer to DLK-65, "Component Function Check".
Is the inspection result normal?
  YES   >> GO TO 4.
  NO   >> Repair or replace the malfunctioning parts.

4. CHECK KEY SLOT

Check key slot.
Refer to DLK-96, "Component Function Check".
Is the inspection result normal?
  YES   >> GO TO 5.
  NO   >> Repair or replace the malfunctioning parts.

5. CHECK DOOR LOCK ACTUATOR

Check door lock actuator.
Refer to DLK-71, "DRIVER SIDE : Component Function Check".
Is the inspection result normal?
  YES   >> GO TO 6.
  NO   >> Repair or replace the malfunctioning parts.

6. CONFIRM THE OPERATION

Confirm the operation again.
Is the result normal?
  YES   >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
  NO   >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004929798

Driver side door does not lock/unlock using door lock and unlock switch.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004929799

1.CHECK DRIVER SIDE DOOR LOCK ACTUATOR

Check driver side door lock actuator.
Refer to DLK-71, "DRIVER SIDE : Component Function Check".
Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.
Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004929800

Passenger side door does not lock/unlock using door lock and unlock switch.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004929801

1.CHECK DOOR LOCK ACTUATOR

Check passenger side door lock actuator.
Refer to DLK-72, "PASSENGER SIDE : Component Function Check".
Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.
Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Description

INFOID:0000000004929802

All doors do not lock/unlock using Intelligent Key.

Diagnosis Procedure

INFOID:0000000004929803

1.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

Does door lock/unlock with door lock and unlock switch?

YES   >> GO TO 2.
NO   >> Go to DLK-266, "ALL DOOR : Diagnosis Procedure".

2.CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.
Refer to DLK-78, "Component Function Check".

Is the inspection result normal?

YES   >> GO TO 3.
NO   >> Repair or replace the malfunctioning parts.

3.CHECK INTELLIGENT KEY

Check Intelligent Key.
Refer to DLK-94, "Component Function Check".

Is the inspection result normal?

YES   >> GO TO 4.
NO   >> Repair or replace the malfunctioning parts.

4.CHECK DOOR SWITCH

Check door switch.
Refer to DLK-65, "Component Function Check".

Is the inspection result normal?

YES   >> GO TO 5.
NO   >> Repair or replace the malfunctioning parts.

5.CHECK KEY SLOT

Check key slot.
Refer to DLK-96, "Component Function Check".

Is the inspection result normal?

YES   >> GO TO 6.
NO   >> Repair or replace the malfunctioning parts.

6.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES   >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO   >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

FRONT DOOR

FRONT DOOR : Description
INFOID:0000000004929804

All doors do not lock/unlock using front side door request switch.

FRONT DOOR : Diagnosis Procedure
INFOID:0000000004929805

1.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.
Does door lock/unlock with Intelligent Key button?

YES   >> GO TO 2.
NO   >> Refer to DLK-268, "Description".

2.CHECK "LOCK/UNLOCK BY I-KEY" SETTING IN "WORK SUPPORT"

Check "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT".
Refer to DLK-53, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".
Is the inspection result normal?

YES   >> GO TO 3.
NO   >> Set "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT".

3.CONFIRM THE OPERATION

Confirm the operation again.
Is the result normal?

YES   >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO   >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Description
INFOID:0000000004929806

All doors do not lock/unlock using driver side door request switch.

DRIVER SIDE : Diagnosis Procedure
INFOID:0000000004929807

1.CHECK DRIVER SIDE DOOR REQUEST SWITCH

Check driver side door request switch.
Refer to DLK-83, "Component Function Check".
Is the inspection result normal?

YES   >> GO TO 2.
NO   >> Repair or replace the malfunctioning parts.

2.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (driver side).
Refer to DLK-89, "Component Function Check".
Is the inspection result normal?

YES   >> GO TO 3.
NO   >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.
Is the result normal?

YES   >> Check Intermittent Incident. Refer to GI-40, "Intermittent Incident".
NO   >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description
INFOID:0000000004929808

All doors do not lock/unlock using passenger side door request switch.

PASSENGER SIDE : Diagnosis Procedure
INFOID:0000000004929809

1.CHECK PASSENGER SIDE DOOR REQUEST SWITCH

Check passenger side door request switch.
Refer to DLK-83, "Component Function Check".
Is the inspection result normal?

YES   >> GO TO 2.
NO   >> Repair or replace the malfunctioning parts.

2.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (passenger side).
Refer to DLK-89, "Component Function Check".
Is the inspection result normal?

YES   >> GO TO 3.
NO   >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.
Is the result normal?

YES   >> Check Intermittent Incident. Refer to GI-40, "Intermittent Incident".
NO   >> GO TO 1.

A

SUPER LOCK DOES NOT OPERATE
ALL DOOR

B

ALL DOOR : Diagnosis Procedure

INFOID:0000000004929810

1.CHECK REMOTE KEYLESS ENTRY FUNCTION

C

Check remote keyless entry function.

Does door lock/unlock with Intelligent Key button?

YES >> GO TO 2.
NO >> Refer to DLK-268, "Diagnosis Procedure".

D

2.CHECK DRIVER SIDE SUPER LOCK ACTUATOR

Check driver side super lock actuator.
Refer to DLK-73, "DRIVER SIDE : Component Function Check".

E

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

F

3.CONFIRM THE OPERATION

Confirm the operation again.

G

Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO >> GO TO 1.

DRIVER SIDE

H

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004929811

I

1.CHECK DRIVER SIDE SUPER LOCK ACTUATOR

Check driver side super lock actuator.
Refer to DLK-73, "DRIVER SIDE : Component Function Check".

J

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

DLK

2.CONFIRM THE OPERATION

Confirm the operation again.

L

Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

M

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004929812

N

1.CHECK PASSENGER SIDE SUPER LOCK ACTUATOR

Check passenger side super lock actuator.
Refer to DLK-74, "PASSENGER SIDE : Component Function Check".

O

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

P

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".

NO   >> GO TO 1.

ANTI-HIJACK FUNCTION DOES NOT OPERATE

Diagnosis Procedure
INFOID:0000000004963035

1.CHECK "DOOR LOCK–UNLOCK SET" SETTING IN "WORK SUPPORT"

Check "DOOR LOCK-UNLOCK SET" setting in "WORK SUPPORT".
Refer to DLK-52, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".
Is the inspection result normal?

YES   >> GO TO 2.
NO   >> Set "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT".

2.CONFIRM THE OPERATION

Confirm the operation again.
Is the result normal?

YES   >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO   >> GO TO 1.

TRUNK LID DOES NOT OPEN WITH TRUNK LID OPENER SWITCH

Description

INFOID:0000000004929821

NOTE:
Check trunk lid opener switch operation in the trunk lid open condition. Refer to .

Diagnosis Procedure

INFOID:0000000004929822

1.CHECK TRUNK LID OPENER SWITCH

Check trunk lid opener switch.
Refer to DLK-81, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CHECK TRUNK LID OPENER ACTUATOR

Check trunk lid opener actuator.
Refer to DLK-85, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK TRUNK LID OPENER CANCEL SWITCH

Check trunk lid opener cancel switch.
Refer to DLK-87, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO >> GO TO 1.

TRUNK LID DOES NOT OPEN WITH INTELLIGENT KEY

Description

INFOID:0000000004929823

NOTE:
Check Intelligent Key remote operation with trunk lid open condition. Refer to .

Diagnosis Procedure

INFOID:0000000004929824

1.CHECK TRUNK LID OPEN FUNCTION

Check trunk lid open function with trunk lid opener switch.

<u>Does trunk lid open with trunk lid opener switch?</u>

YES >> GO TO 2.
NO >> Refer to <u>DLK-274, "Diagnosis Procedure"</u>.

2.CHECK "TRUNK OPEN DELAY" SETTING IN "WORK SUPPORT"

Check "TRUNK OPEN DELAY" setting in "WORK SUPPORT".
Refer to <u>DLK-53, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)"</u>.

<u>Is the inspection result normal?</u>

YES >> GO TO 3.
NO >> Set "TRUNK OPEN DELAY" setting in "WORK SUPPORT".

3.CHECK TRUNK LID OPEN FUNCTION 2

Check trunk lid open function with Intelligent Key.

<u>Does trunk lid open with Intelligent Key?</u>

YES >> GO TO 5.
NO >> GO TO 4.

4.CHECK INTELLIGENT KEY

Check Intelligent Key.
Refer to <u>DLK-94, "Component Function Check"</u>.

<u>Is the inspection result normal?</u>

YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

5.CONFIRM THE OPERATION

Confirm the operation again.

<u>Is the result normal?</u>

YES >> Check intermittent incident. Refer to <u>GI-40, "Intermittent Incident"</u>.
NO >> GO TO 1.

TRUNK LID DOES NOT OPEN WITH TRUNK LID OPENER REQUEST SWITCH

Description
INFOID:0000000004929825

NOTE:
Check trunk lid opener request switch operation in the trunk lid open condition. Refer to

Diagnosis Procedure
INFOID:0000000004929826

1.CHECK TRUNK LID OPEN FUNCTION

Check trunk lid open function with Intelligent Key.
Does trunk lid open with Intelligent Key?

YES >> GO TO 2.
NO >> Refer to DLK-268, "Diagnosis Procedure".

2.CHECK TRUNK LID OPENER REQUEST SWITCH

Check trunk lid opener request switch.
Refer to DLK-85, "Component Function Check".
Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK INSIDE KEY ANTENNA (TRUNK ROOM)

Check inside key antenna (trunk room).
Refer to DLK-62, "DTC Logic".
Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4.CHECK OUTSIDE KEY ANTENNA (REAR BUMPER)

Check outside key antenna (rear bumper).
Refer to DLK-89, "Component Function Check".
Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

5.CONFIRM THE OPERATION

Confirm the operation again.
Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO >> GO TO 1.

HAZARD REMINDER OPERATION DOES NOT OPERATE

Description

INFOID:0000000004929827

NOTE:
Before performing the diagnosis, check the operation condition. Refer to

Diagnosis Procedure

INFOID:0000000004929828

1.CHECK "HAZARD ANSWER BACK" SETTING IN "WORK SUPPORT"

Check the "HAZARD ANSWER BACK" setting in "WORK SUPPORT".
Refer to DLK-53, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".
Is the inspection result normal?

YES >> GO TO 2.
NO >> Set the "HAZARD ANSWER BACK" setting in "WORK SUPPORT".

2.CHECK HAZARD WARNING LAMP

Check hazard warning lamp.
Refer to DLK-102, "Component Function Check".
Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.
Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO >> GO TO 1.

KEY REMINDER FUNCTION DOES NOT OPERATE
INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM : Diagnosis Procedure   *INFOID:0000000004992870*

1. CHECK "ANTI KEY LOCK IN FUNCTI" SETTING IN "WORK SUPPORT"

Check "ANTI KEY LOCK IN FUNCTI" setting in "WORK SUPPORT".
Refer to DLK-53, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".
Is the inspection result normal?

  YES   >> GO TO 2.
  NO   >> Set "ANTI KEY LOCK IN FUNCTI" setting in "WORK SUPPORT".

2. CHECK DOOR SWITCH

Check door switch.
Refer to DLK-65, "Component Function Check".
Is the inspection result normal?

  YES   >> GO TO 3.
  NO   >> Repair or replace the malfunctioning parts.

3. CHECK TRUNK ROOM LAMP SWITCH

Check trunk room lamp switch.
Refer to DLK-438, "Component Function Check".
Is the inspection result normal?

  YES   >> GO TO 4.
  NO   >> Repair or replace the malfunctioning parts.

4. CHECK INSIDE KEY ANTENNA

Check inside key antenna.
- Instrument center: Refer to DLK-58, "DTC Logic".
- Console: Refer to DLK-60, "DTC Logic".
- Trunk room: Refer to DLK-62, "DTC Logic".

Is the inspection result normal?

  YES   >> GO TO 5.
  NO   >> Repair or replace the malfunctioning parts.

5. CHECK UNLOCK SENSOR

Check unlock sensor.
Refer to DLK-440, "Component Function Check".
Is the inspection result normal?

  YES   >> GO TO 6.
  NO   >> Repair or replace the malfunctioning parts.

6. CONFIRM THE OPERATION

Confirm the operation again.
Is the result normal?

  YES   >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
  NO   >> GO TO 1.

POWER DOOR LOCK SYSTEM

POWER DOOR LOCK SYSTEM : Diagnosis Procedure   *INFOID:0000000004992872*

1. CHECK KEY SLOT

Check key slot.
Refer to DLK-96, "Component Function Check".
Is the inspection result normal?

A

  YES   >> GO TO 2.
  NO   >> Repair or replace the malfunctioning parts.

2.CHECK DOOR SWITCH

B

Check door switch.
Refer to DLK-65, "Component Function Check".

Is the inspection result normal?

C

  YES   >> GO TO 3.
  NO   >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

D

Confirm the operation again.

Is the result normal?

E

  YES   >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
  NO   >> GO TO 1.

F

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KEY WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000004929832

1.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-101, "Component Function Check".

Is the inspection result normal?

YES　　>> GO TO 2.
NO　　>> Repair or replace the malfunctioning parts.

2.CHECK DRIVER SIDE DOOR SWITCH

Check driver side door switch.
Refer to DLK-65, "Component Function Check".

Is the inspection result normal?

YES　　>> GO TO 3.
NO　　>> Repair or replace the malfunctioning parts.

3.CHECK KEY SLOT

Check key slot.
Refer to DLK-96, "Component Function Check".

Is the inspection result normal?

YES　　>> GO TO 4.
NO　　>> Repair or replace the malfunctioning parts.

4.CHECK COMBINATION METER DISPLAY

Check combination meter display.
Refer to DLK-100, "Component Function Check".

Is the inspection result normal?

YES　　>> GO TO 5.
NO　　>> Repair or replace the malfunctioning parts.

5.CHECK KEY SLOT INDICATOR

Check key slot illumination.
Refer to DLK-98, "Component Function Check".

Is the inspection result normal?

YES　　>> GO TO 6.
NO　　>> Repair or replace the malfunctioning parts.

6.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES　　>> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO　　>> GO TO 1.

OFF POSITION WARNING DOES NOT OPERATE

Diagnosis Procedure
INFOID:0000000004929834

1.CHECK POWER POSITION

Check if ignition switch position is changing or not.

Does ignition switch position change?

  YES   >> GO TO 2.
  NO   >> Check BCM for DTC? Refer to DLK-229, "FOR EUROPE : DTC Index".

2.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-101, "Component Function Check".

Is the inspection result normal?

  YES   >> GO TO 3.
  NO   >> Repair or replace the malfunctioning parts.

3.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-92, "Component Function Check".

Is the inspection result normal?

  YES   >> GO TO 4.
  NO   >> Repair or replace the malfunctioning parts.

4.CHECK DRIVER SIDE DOOR SWITCH

Check driver side door switch.
Refer to DLK-65, "Component Function Check".

Is the inspection result normal?

  YES   >> GO TO 5.
  NO   >> Repair or replace the malfunctioning parts.

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

  YES   >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
  NO   >> GO TO 1.

P POSITION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000004929836

1.CHECK DETENTION SWITCH

Check BCM for DTC?
Refer to DLK-229, "FOR EUROPE : DTC Index".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-101, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-92, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4.CHECK DOOR SWITCH

Check door switch.
Refer to DLK-65, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

5.CHECK INSIDE KEY ANTENNA

Check inside key antenna.
Refer to the following items.
• DLK-58, "DTC Logic" (instrument center)
• DLK-60, "DTC Logic" (console)
• DLK-62, "DTC Logic" (trunk room)

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace the malfunctioning parts.

6.CHECK COMBINATION METER DISPLAY

Check combination meter display.
Refer to DLK-100, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 7.
NO >> Repair or replace the malfunctioning parts.

7.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO >> GO TO 1.

ACC WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000004929838

1.CHECK POWER POSITION

Check if ignition switch position is changing or not.

Does ignition switch position change?

YES   >> GO TO 2.
NO   >> Check DTC for BCM. Refer to DLK-229, "FOR EUROPE : DTC Index".

2.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-101, "Component Function Check".

Is the inspection result normal?

YES   >> GO TO 3.
NO   >> Repair or replace the malfunctioning parts.

3.CHECK COMBINATION METER DISPLAY FUNCTION

Check combination meter display function.
Refer to DLK-100, "Component Function Check".

Is the inspection result normal?

YES   >> GO TO 4.
NO   >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES   >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO   >> GO TO 1.

TAKE AWAY WARNING DOES NOT OPERATE
DOOR IS OPEN

DOOR IS OPEN : Description
INFOID:0000000004929839

When door opens, take away warning does not operate.

DOOR IS OPEN : Diagnosis Procedure
INFOID:0000000004929840

1.CHECK POWER POSITION

Check if ignition switch position is changing or not.

Does ignition switch position change?

  YES   >> GO TO 2.
  NO   >> Check DTC for BCM. Refer to DLK-229, "FOR EUROPE : DTC Index".

2.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-101, "Component Function Check".

Is the inspection result normal?

  YES   >> GO TO 3.
  NO   >> Repair or replace the malfunctioning parts.

3.CHECK COMBINATION METER DISPLAY

Check combination meter display.
Refer to DLK-100, "Component Function Check".

Is the inspection result normal?

  YES   >> GO TO 4.
  NO   >> Repair or replace the malfunctioning parts.

4.CHECK DRIVER SIDE DOOR SWITCH

Check driver side door switch.
Refer to DLK-65, "Component Function Check".

Is the inspection result normal?

  YES   >> GO TO 5.
  NO   >> Repair or replace the malfunctioning parts.

5.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-92, "Component Function Check".

Is the inspection result normal?

  YES   >> GO TO 6.
  NO   >> Repair or replace the malfunctioning parts.

6.CHECK INSIDE KEY ANTENNA

Check inside key antenna.
Refer to the following items.
- DLK-58, "DTC Logic" (instrument center)
- DLK-60, "DTC Logic" (console)
- DLK-62, "DTC Logic" (trunk room)

Is the inspection result normal?

  YES   >> GO TO 7.
  NO   >> Repair or replace the malfunctioning parts.

7.CHECK KEY SLOT INDICATOR

Check key slot illumination.
Refer to DLK-98, "Component Function Check".

Is the inspection result normal?

TAKE AWAY WARNING DOES NOT OPERATE

YES   >> GO TO 8.
NO   >> Repair or replace the malfunctioning parts.

8.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES   >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO   >> GO TO 1.

ANY DOOR OPEN TO ALL DOORS CLOSED

ANY DOOR OPEN TO ALL DOORS CLOSED : Description
INFOID:0000000004929841

When key is outside of vehicle, and door opens and then closes, take away warning does not operate.

ANY DOOR OPEN TO ALL DOORS CLOSED : Diagnosis Procedure
INFOID:0000000004929842

1.CHECK DRIVER SIDE DOOR SWITCH

Check driver side door switch.
Refer to DLK-65, "Component Function Check".

Is the inspection result normal?

YES   >> GO TO 2.
NO   >> Repair or replace the malfunctioning parts.

2.CHECK COMBINATION METER DISPLAY

Check combination meter display.
Refer to DLK-100, "Component Function Check".

Is the inspection result normal?

YES   >> GO TO 3.
NO   >> Repair or replace the malfunctioning parts.

3.CHECK INSIDE KEY ANTENNA

Check inside key antenna.
Refer to the following items.
• DLK-58, "DTC Logic" (instrument center)
• DLK-60, "DTC Logic" (console)
• DLK-62, "DTC Logic" (trunk room)

Is the inspection result normal?

YES   >> GO TO 4.
NO   >> Repair or replace the malfunctioning parts.

4.CHECK KEY SLOT INDICATOR

Check key slot indicator.
Refer to DLK-98, "Component Function Check".

Is the inspection result normal?

YES   >> GO TO 5.
NO   >> Repair or replace the malfunctioning parts.

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES   >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO   >> GO TO 1.

PUSH-BUTTON IGNITION SWITCH OPERATION

PUSH-BUTTON IGNITION SWITCH OPERATION : Description
INFOID:0000000004929843

When Intelligent Key is inside vehicle and not detected, take away warning does not sound due to push-button ignition switch operation.

PUSH-BUTTON IGNITION SWITCH OPERATION : Diagnosis Procedure *INFOID:0000000004929844*

1.CHECK POWER POSITION

Check if ignition switch position is changing or not.

Does ignition switch position change?

YES >> GO TO 2.
NO >> Check DTC for BCM. Refer to DLK-229, "FOR EUROPE : DTC Index".

2.CHECK PUSH-BUTTON IGNITION SWITCH

Check push-button ignition switch.
Refer to SEC-61, "DTC Logic".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-101, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4.CHECK KEY SLOT INDICATOR

Check key slot indicator.
Refer to DLK-98, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

5.CHECK COMBINATION METER DISPLAY

Check combination meter display.
Refer to DLK-100, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace the malfunctioning parts.

6.CHECK INSIDE KEY ANTENNA

Check inside key antenna.
Refer to the following items.
• DLK-58, "DTC Logic" (instrument center)
• DLK-60, "DTC Logic" (console)
• DLK-62, "DTC Logic" (trunk room)

Is the inspection result normal?

YES >> GO TO 7.
NO >> Repair or replace the malfunctioning parts.

7.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO >> GO TO 1.

INTELLIGENT KEY IS REMOVED FROM KEY SLOT

INTELLIGENT KEY IS REMOVED FROM KEY SLOT : Description *INFOID:0000000004929845*

When Intelligent Key is removed from key slot, key slot does not blink.

INTELLIGENT KEY IS REMOVED FROM KEY SLOT : Diagnosis Procedure

INFOID:0000000004929846

A

1.CHECK KEY SLOT

B

Check key slot.
Refer to DLK-96, "Component Function Check".

Is the inspection result normal?

C

YES   >> GO TO 2.
NO   >> Repair or replace the malfunctioning parts.

2.CHECK COMBINATION METER DISPLAY

D

Check combination meter display.
Refer to DLK-100, "Component Function Check".

Is the inspection result normal?

E

YES   >> GO TO 3.
NO   >> Repair or replace the malfunctioning parts.

3.CHECK INSIDE KEY ANTENNA

F

Check inside key antenna.
Refer to the following items.
• DLK-58, "DTC Logic" (instrument center)
• DLK-60, "DTC Logic" (console)
• DLK-62, "DTC Logic" (trunk room)

G

Is the inspection result normal?

H

YES   >> GO TO 4.
NO   >> Repair or replace the malfunctioning parts.

4.CHECK KEY SLOT INDICATOR

I

Check key slot indicator.
Refer to DLK-98, "Component Function Check".

Is the inspection result normal?

J

YES   >> GO TO 5.
NO   >> Repair or replace the malfunctioning parts.

5.CONFIRM THE OPERATION

DLK

Confirm the operation again.

Is the result normal?

L

YES   >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO   >> GO TO 1.

M

N

O

P

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000004929848

1.CHECK "LO- BATT OF KEY FOB WARN" SETTING IN "WORK SUPPORT"

Check the "LO- BATT OF KEY FOB WARN" setting in "WORK SUPPORT".
Refer to DLK-53, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set the "LO- BATT OF KEY FOB WARN" setting in "WORK SUPPORT".

2.CHECK INTELLIGENT KEY BATTERY

Check Intelligent Key battery.
Refer to DLK-94, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK COMBINATION METER DISPLAY

Check combination meter display.
Refer to DLK-100, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4.CHECK INSIDE KEY ANTENNA

Check inside key antenna.
Refer to the following items.
- DLK-58, "DTC Logic" (instrument center)
- DLK-60, "DTC Logic" (console)
- DLK-62, "DTC Logic" (trunk room)

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO >> GO TO 1.

DOOR LOCK OPERATION WARNING DOES NOT OPERATE WITH DOOR REQUEST SWITCH

WITH DOOR REQUEST SWITCH : Description

INFOID:0000000004929849

Door lock operation warning does not activate using door request switch.

WITH DOOR REQUEST SWITCH : Diagnosis Procedure

INFOID:0000000004929850

1.CHECK DOOR LOCK FUNCTION

Check door lock function using door request switch.

Does door lock/unlock with door request switch?

YES >> GO TO 2.
NO-1 >> Go to DLK-269, "DRIVER SIDE : Description" (driver side).
NO-2 >> Go to DLK-270, "PASSENGER SIDE : Description" (passenger side).

2.CHECK DRIVER SIDE DOOR SWITCH

Check driver side door switch.
Refer to DLK-65, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-92, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4.CHECK INSIDE KEY ANTENNA

Check inside key antenna.
Refer to the following items.
• DLK-58, "DTC Logic" (instrument center)
• DLK-60, "DTC Logic" (console)
• DLK-62, "DTC Logic" (trunk room)

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO >> GO TO 1.

WITH INTELLIGENT KEY

WITH INTELLIGENT KEY : Description

INFOID:0000000004929851

Door lock operation warning does not activate using Intelligent Key.

WITH INTELLIGENT KEY : Diagnosis Procedure

INFOID:0000000004929852

1.CHECK DOOR LOCK OPERATION WARNING FUNCTION

Check door lock operation warning activate using door request switch.

Does door lock operation warning activate with door request switch?

YES >> GO TO 2.

DLK-289

NO   >> Refer to DLK-289, "WITH DOOR REQUEST SWITCH : Diagnosis Procedure".

2.CHECK INTELLIGENT KEY

Check Intelligent Key.
Refer to DLK-94, "Component Function Check".

Is the inspection result normal?

YES   >> GO TO 3.
NO   >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES   >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO   >> GO TO 1.

KEY ID WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000004929854

1.CHECK INTELLIGENT KEY

Check Intelligent Key.
Refer to DLK-94, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CHECK COMBINATION METER DISPLAY FUNCTION

Check combination meter display function.
Refer to DLK-100, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
NO >> GO TO 1.

FUEL LID LOCK ACTUATOR DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000004929855

1.CHECK FUEL LID LOCK ACTUATOR CIRCUIT

Check fuel lid opener actuator circuit.
Refer to DLK-75, "Component Function Check".

Is the inspection result normal?

  YES   >> GO TO 2.
  NO   >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

  YES   >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".
  NO   >> GO TO 1.

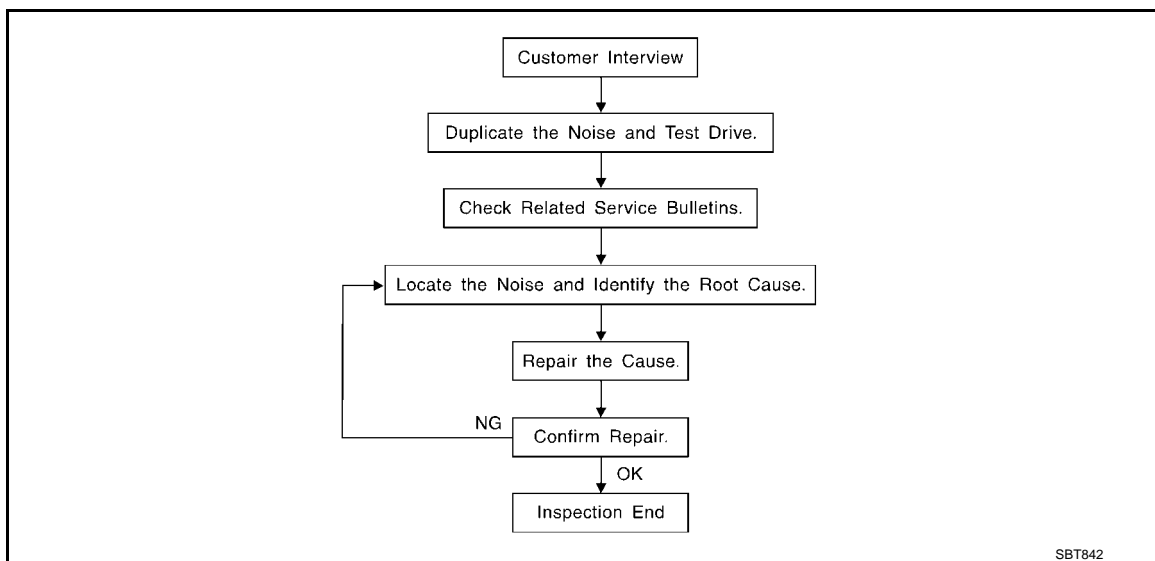## SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow   *INFOID:0000000004929856*

CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of the customer's comments; refer to DLK-297, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by a test drive with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak – (Like tennis shoes on a clean floor)
  Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak – (Like walking on an old wooden floor)
  Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle – (Like shaking a baby rattle)
  Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock – (Like a knock on a door)
  Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick – (Like a clock second hand)
  Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump – (Heavy, muffled knock noise)
  Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz – (Like a bumble bee)
  Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that a technician may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when the repair is reconfirmed.

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:
1) Close a door.
2) Tap or push/pull around the area where the noise appears to be coming from.
3) Rev the engine.
4) Use a floor jack to recreate vehicle "twist".
5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on A/T model).
6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
• Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
• If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Engine Ear or mechanics stethoscope).

2. Narrow down the noise to a more specific area and identify the cause of the noise by:

• Removing the components in the area that is are suspected to be the cause of the noise.
  Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
• Tapping or pushing/pulling the component that is are suspected to be the cause of the noise.
  Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
• Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
• Placing a piece of paper between components that is are suspected to be the cause of the noise.
• Looking for loose components and contact marks.
  Refer to DLK-295, "Inspection Procedure".

REPAIR THE CAUSE

• If the cause is a loose component, tighten the component securely.
• If the cause is insufficient clearance between components:
- Separate components by repositioning or loosening and retightening the component, if possible.
- Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. These insulators are available through the authorized Nissan Parts Department.
CAUTION:
Never use excessive force as many components are constructed of plastic and may be damaged.
NOTE:
• URETHANE PADS
  Insulates connectors, harness, etc.
• INSULATOR (Foam blocks)
  Insulates components from contact. Can be used to fill space behind a panel.
• INSULATOR (Light foam block)
• FELT CLOTHTAPE
  Used to insulate where movement does not occur. Ideal for instrument panel applications.
  The following materials, not available through NISSAN Parts Department, can also be used to repair squeaks and rattles.
• UHMW(TEFLON) TAPE
  Insulates where slight movement is present. Ideal for instrument panel applications.
• SILICONE GREASE
  Used in place of UHMW tape that is be visible or does not fit.
  Note: Will only last a few months.
• SILICONE SPRAY
  Used when grease cannot be applied.
• DUCT TAPE
  Used to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

Inspection Procedure

INFOID:0000000004929857

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. Cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:
Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

CENTER CONSOLE

Components to pay attention to include:

1. Shifter assembly cover to finisher
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the following:

1. Finisher and inner panel making a slapping noise
2. Inside handle escutcheon to door finisher
3. Wiring harnesses tapping
4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. The areas can usually be insulated with felt cloth tape or insulator foam blocks to repair the noise.

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the customer.
In addition look for the following:

1. Trunk lid dumpers out of adjustment
2. Trunk lid striker out of adjustment
3. Trunk lid torsion bars knocking together
4. A loose license plate or bracket

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sunvisor shaft shaking in the holder
3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

SEATS

When isolating seat noise it is important to note the position the seat is in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

1. Headrest rods and holder
2. A squeak between the seat pad cushion and frame
3. Rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

1. Any component mounted to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator mounting pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.
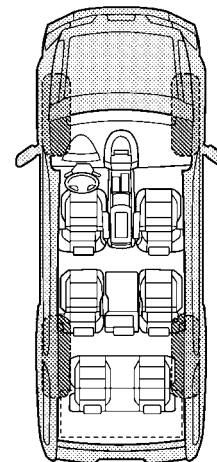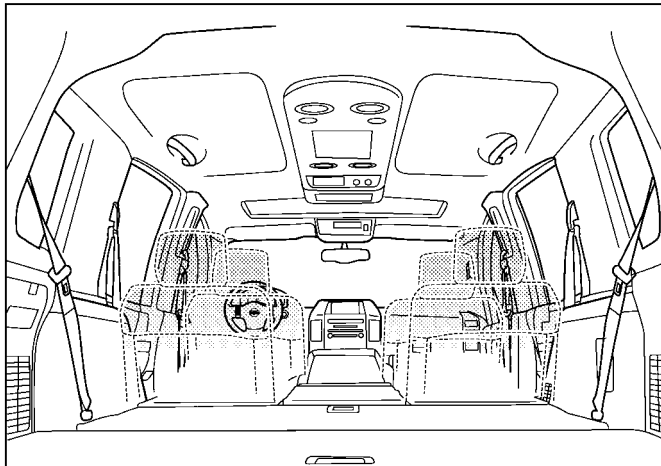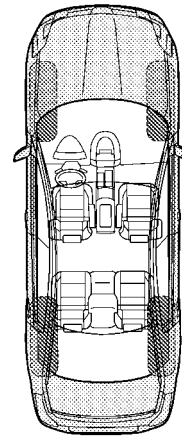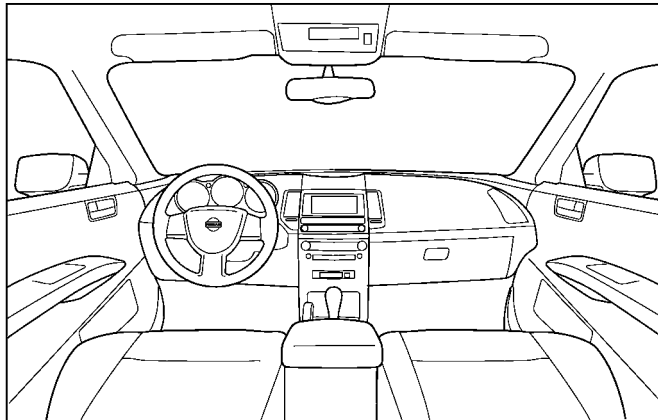
Diagnostic Worksheet

INFOID:0000000004929858

**SQUEAK & RATTLE
DIAGNOSTIC WORKSHEET**

Dear Nissan Customer:
We are concerned about your satisfaction with your Nissan vehicle. Repairing a squeak
or rattle sometimes can be very difficult. To help us fix your Nissan right the first time,
please take a moment to note the area of the vehicle where the squeak or rattle occurs
and under what conditions. You may be asked to take a test drive with a service advisor
or technician to ensure we confirm the noise you are hearing.

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)
The illustrations are for reference only, and may not reflect the actual configuration of
your vehicle.

**Continue to page 2 of the worksheet and briefly describe the location of the noise or
rattle. In addition, please indicate the conditions which are present when the noise
occurs.**

PIIB8740E

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

_____

_____

II. WHEN DOES IT OCCUR? (please check the boxes that apply)

☐ anytime   ☐ after sitting out in the rain
☐ 1st time in the morning   ☐ when it is raining or wet
☐ only when it is cold outside   ☐ dry or dusty conditions
☐ only when it is hot outside   ☐ other:

III. WHEN DRIVING: ## IV. WHAT TYPE OF NOISE

☐ through driveways   ☐ squeak (like tennis shoes on a clean floor)
☐ over rough roads   ☐ creak (like walking on an old wooden floor)
☐ over speed bumps   ☐ rattle (like shaking a baby rattle)
☐ only about _____ mph   ☐ knock (like a knock at the door)
☐ on acceleration   ☐ tick (like a clock second hand)
☐ coming to a stop   ☐ thump (heavy, muffled knock noise)
☐ on turns: left, right or either (circle)   ☐ buzz (like a bumble bee)
☐ with passengers or cargo
☐ other: _____
☐ after driving _____ miles or _____ minutes

TO BE COMPLETED BY DEALERSHIP PERSONNEL
Test Drive Notes:

_____

_____

_____

	YES	NO	Initials of person performing
Vehicle test driven with customer	☐	☐	_____
- Noise verified on test drive	☐	☐	_____
- Noise source located and repaired	☐	☐	_____
- Follow up test drive performed to confirm repair	☐	☐	_____

VIN: _____   Customer Name: _____

W.O.# _____   Date: _____

This form must be attached to Work Order

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DLK-298