SECTION SB
SEAT BELT

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PRECAUTION

PRECAUTIONS

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

INFOID:0000000013543032

Risk of injury

There is a risk of injury caused by parts becoming projectiles if uncontrolled deployment of air bag or seat belt pre-tensioner occurs, or by storing air bag with the deployment side facing downwards. When scrapping air bag or seat belt pre-tensioner by means of controlled deployment, there is also a danger present if a sufficiently safe distance is not maintained, or if opening using cutting torches or other cutting tools, or due to smelting or if parts that are not yet triggered are exposed to a blaze or a smoldering fire at landfills.

Safety instructions/precautions

- Removed air bag must always be stored with deployment side facing up.
- Acquisition, transportation, storage, testing and assembly work should only be performed or supervised by properly trained personnel.
- Install air bag or seat belt pre-tensioner immediately following retrieval from storage.
- Air bag and seat belt pre-tensioner must be protected from flying sparks, open fires and temperature exceeding 100°C (212°F).
- Never transport air bag and seat belt pre-tensioner in the passenger compartment. Store them securely in the luggage room of the vehicle in their original replacement part packaging and secure them so that they cannot slip around.
- Never allow air bag and seat belt pre-tensioner to come into contact with grease, oil, or cleaning agents.
- Perform system tests using approved testing equipment only, and only when the units are properly installed and the vehicle is unoccupied.
- Before the initial hookup of the battery or an external power supply, the ignition must be switched on and the vehicle unoccupied.
- Air bag and seat belt pre-tensioner that fall from a height of more than 0.5 m must be replaced.
- When scrapping by means of controlled deployment of air bag and seat belt pre-tensioner, a safe distance of at least 10 m must be maintained.
- Before starting work on air bag and seat belt pre-tensioner and work on components that are connected to air bag and seat belt pre-tensioner or require and intervention in their electric circuit (e.g. when removing the steering wheel):

- Disconnect any external power sources (e.g. charger).
- Disconnect and insulate ground line of battery

- Before starting bodywork in combination with welding or retrofitting, during which work is performed on uninsulated, current-carrying lines or require an intervention in their electric circuit (e.g. when removing the steering wheel):

- Disconnect any external power sources (e.g. charger).
- Disconnect and insulate ground line of battery.
- During welding, disconnect plug connection and from control unit of air bag.

- When the air bag deploys, the pyrofuse activates and the power source from the battery is disconnected. This prevents possible fires caused by electric leakage after an accident occurs.

Precautions for Removing Battery Terminal

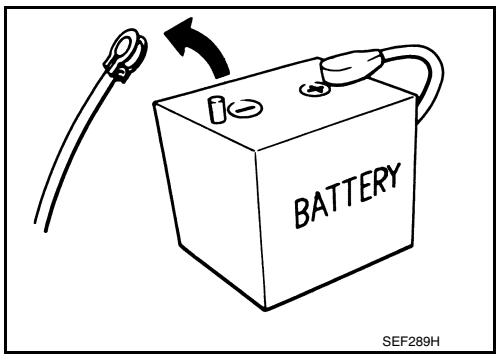
INFOID:0000000013543033

When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

BR08DE	: 4 minutes	YD25DDTi	: 2 minutes
D4D engine	: 20 minutes	YS23DDT	: 4 minutes
HRA2DDT	: 12 minutes	YS23DDTT	: 4 minutes
K9K engine	: 4 minutes	ZD30DDTi	: 60 seconds
M9R engine	: 4 minutes	ZD30DDTT	: 60 seconds
R9M engine	: 4 minutes		
V9X engine	: 4 minutes		



NOTE:
ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

NOTE:
- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
  - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
  - Driving for 30 minutes or more on a steep slope.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

NOTE:
If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:
The removal of 12V battery may cause a DTC detection error.

Precaution for Seat Belt Service

INFOID:0000000013543034

CAUTION:
- **Before removing the front seat belt pre-tensioner assembly, turn the ignition switch off, disconnect battery negative terminal and wait at least 5 seconds.**
- **Never use electrical test equipment for front seat belt pre-tensioner connector.**
- **After replacing or reinstalling front seat belt pre-tensioner assembly, or reconnecting front seat belt pre-tensioner connector, check the system function. Refer to SRC-20, "DTC Index".**
- **Never disassemble seat belt retractor.**
- **Never use disassembled buckle or seat belt assembly.**
- **Replace anchor bolts if they are deformed or worn out.**
- **Never oil tongue and buckle.**
- **If any component of seat belt assembly is questionable, do not repair. Replace the entire seat belt assembly.**
- **If webbing is cut, frayed or damaged, replace seat belt assembly.**
- **When replacing seat belt assembly, use a genuine NISSAN seat belt assembly.**

AFTER A COLLISION

WARNING:
Inspect all seat belt assemblies including retractors and attached hardware after any collision. NISSAN/INFINITI recommends that all seat belt assemblies in use during a collision be replaced unless the collision was minor and the belts show no damage and continue to operate properly. Failure to do so could result in serious personal injury in an accident. Seat belt assemblies not in use during a collision must also be replaced if either damage or improper operation was noted. Seat belt pretensioners must be replaced even if the seat belts are not in use during a frontal collision in which the air bags are deployed.

Replace any seat belt assembly (including anchor bolts) if:
- The seat belt was use at the time of a collision (except for minor collisions and the belts, retractors and buckles show no damage and continue to operate properly).

- The seat belt was damaged in an accident (i.e. torn webbing, bent retractor or guide).
- The seat belt attaching point was damaged in an accident. Inspect the seat belt attaching area for damage or distortion and repair as necessary before installing a new seat belt assembly.
- Anchor bolts are deformed or worn out.
- The front seat belt pre-tensioner must be replaced even if the seat belts were not in use during the collision in which the air bags are deployed.

SYSTEM DESCRIPTION

COMPONENT PARTS

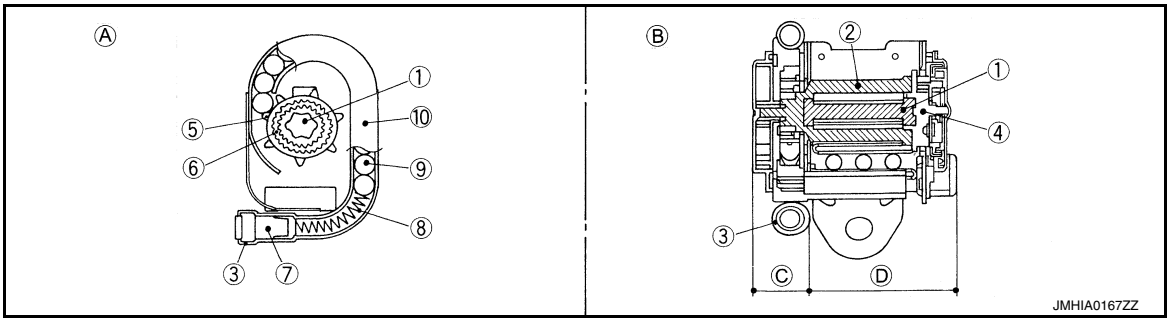
Seat belt pre-tensioner with Load limiter

INFOID:0000000013543035

DESCRIPTION

The seat belt system is equipped with pre-tensioner mechanism, load limiter mechanism, and ELR mechanism.

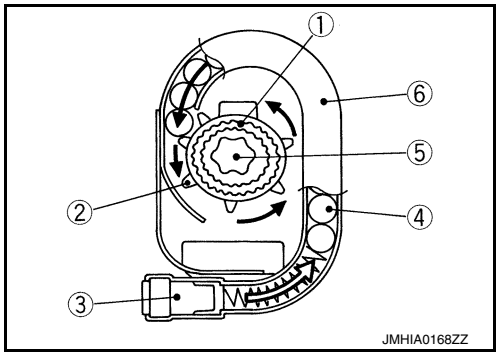
STRUCTURE



①	ELR shaft (torsion bar)	②	Bobbin	③	Manifold case
④	Lock portion	⑤	Ring gear	⑥	Pinion gear
⑦	Gas generator	⑧	Spring	⑨	Ball
⑩	Pipe				
Ⓐ	Pre-tensioner mechanism cross section	Ⓑ	ELR mechanism portion cross section	Ⓒ	Pre-tensioner mechanism portion
Ⓓ	Load limiter portion				

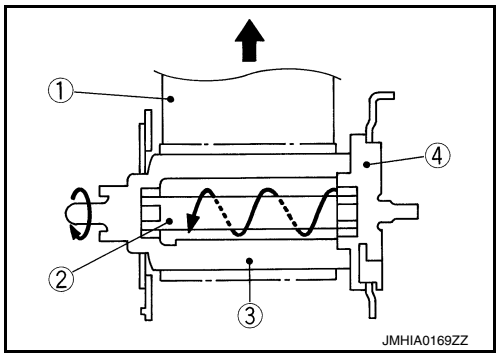
PRE-TENSIONER MECHANISM

- In a collision that exceeds the specified limit, air bag sensor unit detects the collision, transmits an electrical signal to gas generator ③ in manifold case, and activates gas generator. Gas is generated.
- The pressure of the generated gas moves the ball ④ inside of pipe ⑥. The ball then presses ring gear ② which is engaged to the pinion gear ①.
- The rotation of the ring gear rotates the ELR shaft ⑤ in the retracting direction of the seat belt. Seat belt is retracted.



LOAD LIMITER (ELR) MECHANISM

- In a collision, when ELR shaft ② is locked, a load caused by impact is applied to webbing ①.
- When a load is continuously applied to webbing and reaches or exceeds the specified level, a rotating force is applied to ELR shaft that is engaged to lock portion ④ and bobbin ③. ELR shaft twists.
- As ELR shaft is twisted, webbing is pulled out while keeping a certain level of tension and easing the impact to the chest of front seat passenger.
- There are two ELR shafts on the adaptive load limiter. One or both may operate depending on the circumstances. (with adaptive load limiter)



SYSTEM

WARNING/INDICATOR/CHIME LIST

WARNING/INDICATOR/CHIME LIST : Warning Lamp/Indicator Lamp

INFOID:0000000013543036

Item	Design	Reference
Seat belt warning lamp		For layout, refer to MWI-8, "METER SYSTEM : Design". For function, refer to MWI-30, "WARNING LAMPS/INDICATOR LAMPS : Seat Belt Warning Lamp".

WARNING/INDICATOR/CHIME LIST : Warning Lamp/Indicator (Information Display)

INFOID:0000000013758529

Item	Reference
Rear seat belt warning	Refer to SBC-5, "INFORMATION DISPLAY (COMBINATION METER) : Rear Seat Belt Warning".

WARNING/INDICATOR/CHIME LIST : Warning Chime

INFOID:0000000013543037

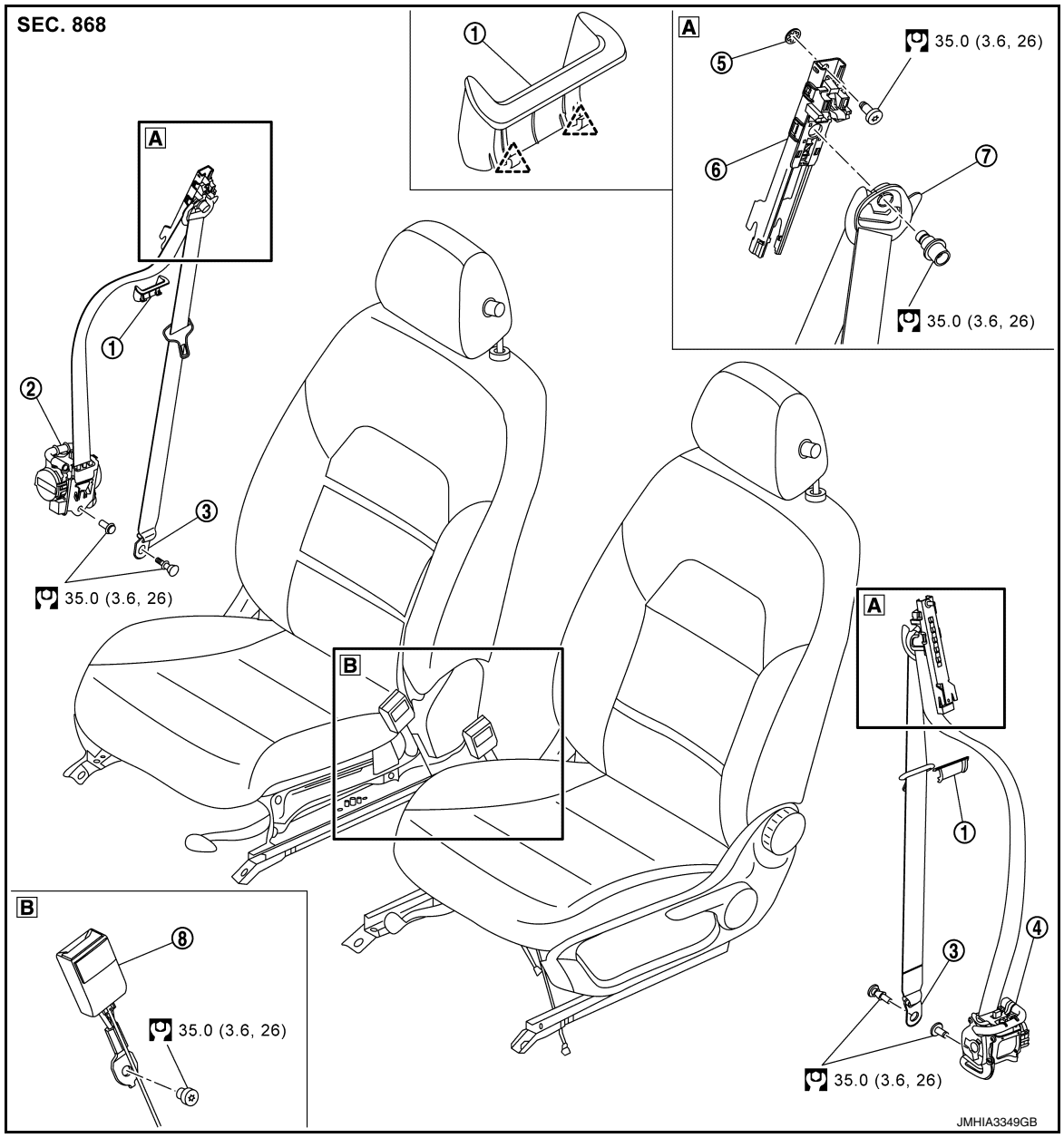
Item	Reference
Seat belt warning	Refer to SBC-6, "WARNING CHIME : Seat Belt Warning Buzzer".

REMOVAL AND INSTALLATION

FRONT SEAT BELT

Exploded View

INFOID:0000000013543038



① Seat belt guide
② Seat belt retractor RH
③ Floor anchor
④ Seat belt retractor LH
⑤ Locking washer
⑥ Seat belt adjuster
⑦ Shoulder anchor
⑧ Seat belt buckle
: Pawl
: N·m (kg-m, ft-lb)

SEAT BELT RETRACTOR

SEAT BELT RETRACTOR : Removal and Installation

INFOID:0000000013543039

WARNING:

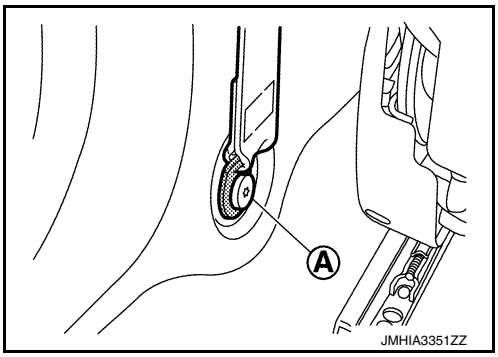
- **Before servicing, disconnect any external power sources and disconnect and insulate ground line of battery.**
- **Never turn the vehicle power source on again until operation is completed. There must be no persons within the operation range of the air bags and the seat belt retractors when the power is turned on again.**

NOTE:

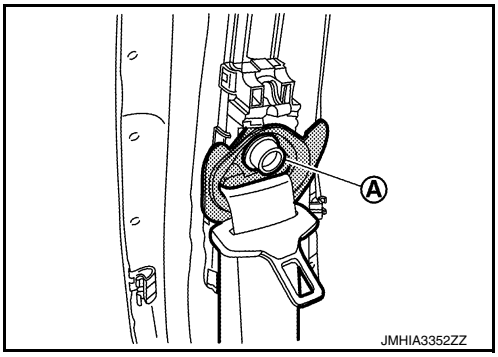
When the air bag inflates, ECM controls so that the engine cannot starts. After replacing the air bag, refer to EC-199, "Description" in order to start the engine.

REMOVAL

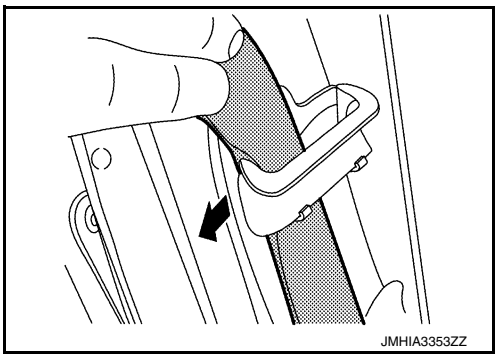
1. Remove floor anchor mounting bolt Ⓐ, and then remove floor anchor.



2. Remove center pillar upper garnish. Refer to INT-27, "CENTER PILLAR UPPER GARNISH : Removal and Installation".
3. Remove shoulder anchor mounting bolt Ⓐ, and then remove shoulder anchor.



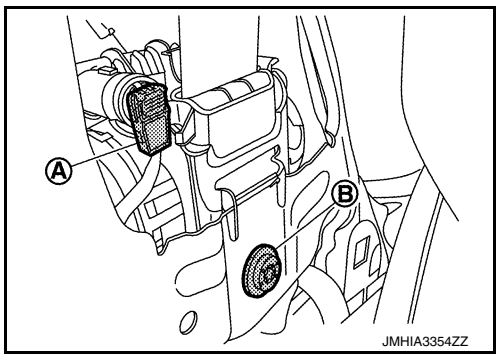
4. Remove center pillar lower garnish. Refer to INT-26, "CENTER PILLAR LOWER GARNISH : Removal and Installation".
5. Remove seat belt from seat belt guide.



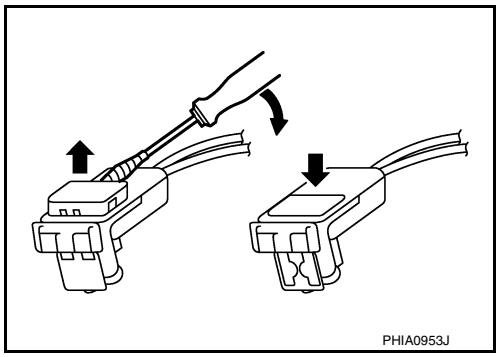
6. Remove seat belt retractor.

a. Disconnect each harness connectors and remove seat belt retractor mounting bolt.

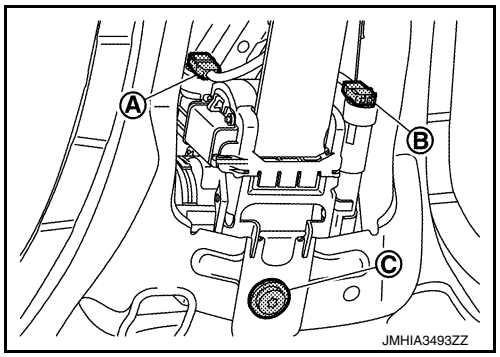
- Without adaptive load limiter
  Disconnect pre-tensioner harness connector Ⓐ and remove seat belt retractor mounting bolt Ⓑ.



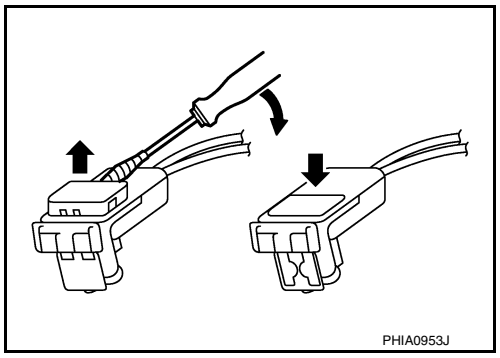
CAUTION:
- **For installing/removing pre-tensioner harness connector, insert thin screwdriver wrapped in tape into notch, lift lock and remove connector.**
- **Install connector with lock raised, and push lock into connector.**
- **After installing the connector, check that the lock is pushed securely into it.**



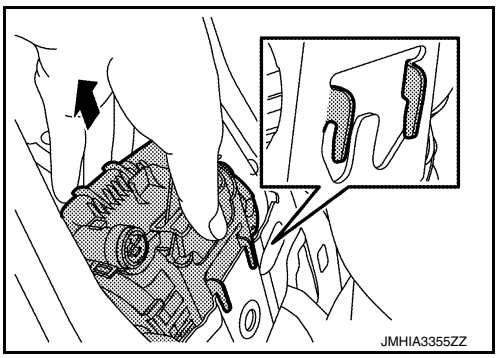
- With adaptive load limiter
  Disconnect adaptive load limiter harness connector Ⓐ and pre-tensioner harness connector Ⓑ, and remove seat belt retractor mounting bolt Ⓒ.



CAUTION:
- **For installing/removing pre-tensioner harness connector and adaptive load limiter harness connector, insert thin screwdriver wrapped in tape into notch, lift lock and remove connector.**
- **Install connector with lock raised, and push lock into connector.**
- **After installing the connector, check that the lock is pushed securely into it.**



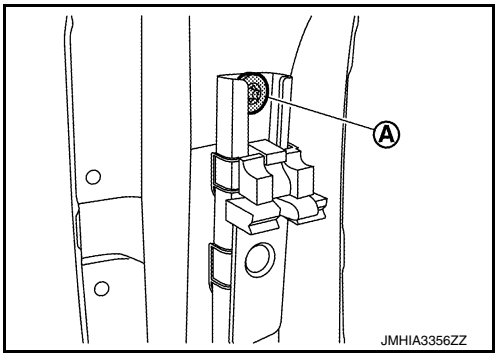
b. Slide seat belt retractor upward, and then remove seat belt retractor.



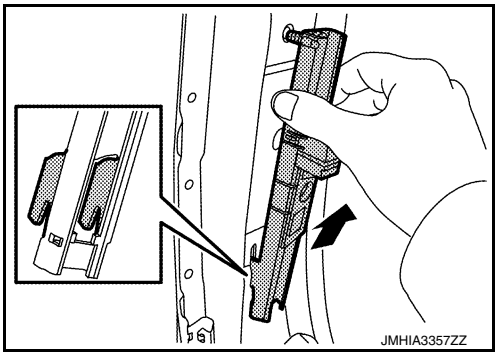
CAUTION:
Never place seat belt retractor in an area where the temperature reaches 100°C (212°F) or more.

7. Remove seat belt adjuster.

a. Remove seat belt adjuster mounting bolt Ⓐ.

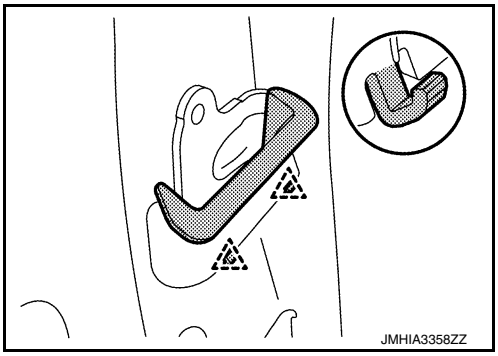


b. Slide seat belt adjuster upward, and then remove seat belt adjuster.



8. Disengage fixing pawls, and then remove seat belt guide.

△ : Pawl



INSTALLATION
Install in the reverse order of removal.

SEAT BELT RETRACTOR : Inspection

INFOID:0000000013543040

AFTER A COLLISION

WARNING:
Inspect all seat belt assemblies including retractors and attached hardware after any collision. NISSAN/INFINITI recommends that all seat belt assemblies in use during a collision be replaced unless the collision was minor and the belts show no damage and continue to operate properly. Failure to do so could result in serious personal injury in an accident. Seat belt assemblies not in use during a collision should also be replaced if either damage or improper operation was noted. Seat belt pre-tensioners should be replaced even if the seat belts were not in use during a frontal collision in which the air bags were deployed.

Replace any seat belt assembly (including anchor bolts) if:

- The seat belt was in use at the time of a collision (except for minor collisions and the belts, retractors and buckles show no damage and continue to operate properly).
- The seat belt is damaged in an accident (i.e. torn webbing, bent retractor or shoulder anchor, etc.).
- The seat belt attaching point is damaged in an accident. Inspect the seat belt attaching area for damage or distortion and repair if necessary before installing a new seat belt assembly.
- Anchor bolts are deformed or worn out.
- The seat belt pre-tensioners must be replaced even if the seat belts were not in use during the collision in which the air bags were deployed.

NOTE:
When the air bag inflates, ECM controls so that the engine cannot starts. After replacing the air bag, refer to EC-199, "Description" in order to start the engine.

PRELIMINARY CHECKS

1. Check the seat belt warning lamp for proper operation as per the following:

a. Turn ignition switch ON. The seat belt warning lamp should illuminate.

b. Fasten driver seat belt. The seat belt warning lamp should turn OFF.

2. If the air bag warning lamp turn ON, perform self-diagnosis with CONSULT. Refer to SRC-16, "CONSULT Function".
3. Check that the seat belt retractor, seat belt anchor and buckle bolts are tightened firmly.
4. Check the shoulder anchor and shoulder belt height adjuster. Check that shoulder anchor swivels freely and that webbing lays flat and does not bind in shoulder anchor. Check that height adjuster operates properly and holds securely.
5. Check retractor operation:

a. Fully extend the seat belt webbing and check for twists, tears or other damage.

b. Allow the seat belt to retract. Check that webbing returns smoothly and completely into the retractor. If the seat belt does not return smoothly, wipe the inside of the loops with a clean paper cloth. Dirt build-up in the loops of the upper anchors can cause the seat belts to retract slowly.

c. Fasten the seat belt. Check that seat belt returns smoothly and completely to the retractor. If the webbing does not return smoothly, the cause may be an accumulation of dust or dirt. In the event of contamination, the belt guide and the webbing should be subject to cleaning.
CAUTION:
Do not dry at temperatures above 100°C (212°F) or in direct solar radiation, do not bleach or dye a different color.

6. Repeat steps above if necessary to check the other seat belts.

SEAT BELT RETRACTOR ON-VEHICLE CHECK

Emergency Locking Retractors (ELR)

NOTE:
All seat belt retractors are Emergency Locking Retractors (ELR) type. In an emergency (sudden stop) the retractor will lock and prevent the webbing from extending any further.
Check the seat belt retractors with the following test(s) to determine if a retractor assembly is operating properly.

ELR Function Stationary Check

Grasp the shoulder webbing and pull forward quickly. The retractor should lock and prevent the belt from extending further.

ELR Function Moving Check

WARNING:

Perform the following test in a safe, open area clear of other vehicles and obstructions (for example, a large, empty parking lot). Road surface must be paved and dry. Never perform the following test on wet or gravel roads or on public streets and highways. This could result in an accident and serious personal injury. The driver and passenger must be prepared to brace themselves in the event that the retractor does not lock.

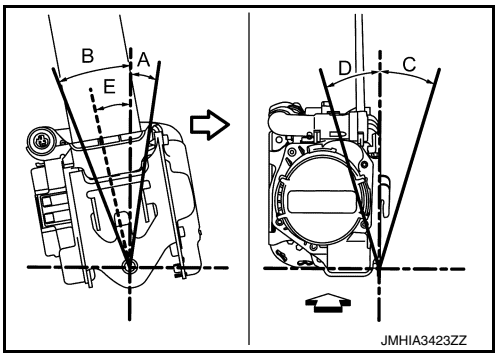
1. Fasten driver seat belt. Buckle a passenger into the seat for the belt that is to be tested.
2. Proceed to the designated safe area.
3. Drive the vehicle at approximately 16 km/h (10 MPH). Notify any passengers of a pending sudden stop and the driver and passenger must be prepared to brace themselves in the event that the retractor does not lock. Apply brakes firmly and make a very hard stop.
4. During stopping, the seat belts should lock and not be extended. If the seat belt retractor assembly does not lock, perform the retractor off-vehicle check.

SEAT BELT RETRACTOR OFF-VEHICLE CHECK

1. Remove the seat belt retractor. Refer to SB-8, "SEAT BELT RETRACTOR : Removal and Installation".
2. Slowly pull out webbing while tilting the retractor assembly without twisting the retractor assembly.

Seat belt retractor LH [assembly condition (E): 10°]

- The webbing can be pulled out when each angles are the following degrees or less (each conditions at the same time).



A : 2°
B : 22°
C : 12°
D : 12°

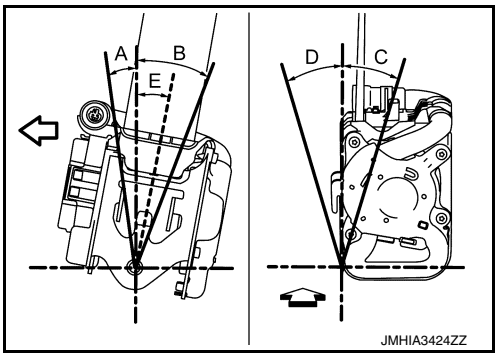
⇦ : Vehicle front

- The webbing cannot be pulled out when each angles are the following degrees or more.

A : 17°
B : 37°
C : 27°
D : 27°

Seat belt retractor RH [assembly condition (E): 10°]

- The webbing can be pulled out when each angles are the following degrees or less (each conditions at the same time).



A : 2°
B : 22°
C : 12°
D : 12°

⇦ : Vehicle front

- The webbing cannot be pulled out when each angles are the following degrees or more.

A : 17°
B : 37°
C : 27°
D : 27°

3. Replace the seat belt assembly if it does not operate normally.

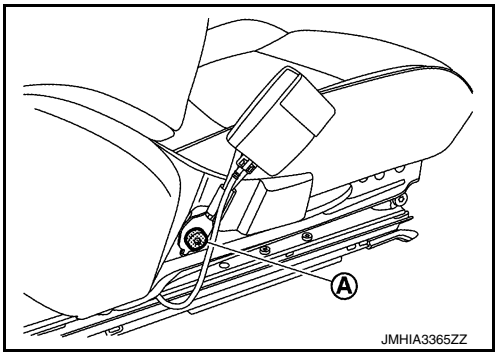
SEAT BELT BUCKLE

SEAT BELT BUCKLE : Removal and Installation

INFOID:0000000013543041

REMOVAL

1. Remove front seat from the vehicle. Refer to SE-66, "Removal and Installation".
2. Remove seat belt buckle harness connector from under seat cushion.
3. Remove seat belt buckle mounting bolt Ⓐ, and then remove seat belt buckle.



INSTALLATION

Install in the reverse order of removal.

SEAT BELT BUCKLE : Inspection

INFOID:0000000013543042

AFTER A COLLISION

WARNING:

Inspect all seat belt assemblies including retractors and attached hardware after any collision. NISSAN/INFINITI recommends that all seat belt assemblies in use during a collision be replaced unless the collision was minor and the belts show no damage and continue to operate properly. Failure to do so could result in serious personal injury in an accident. Seat belt assemblies not in use during a collision should also be replaced if either damage or improper operation was noted.

Replace any seat belt assembly (including anchor bolts) if:

- The seat belt was in use at the time of a collision (except for minor collisions and the belts, retractors and buckles show no damage and continue to operate properly).
- The seat belt is damaged in an accident (i.e. torn webbing, bent retractor or shoulder anchor, etc.).
- The seat belt attaching point is damaged in an accident. Inspect the seat belt attaching area for damage or distortion and repair if necessary before installing a new seat belt assembly.
- Anchor bolts are deformed or worn out.

PRELIMINARY CHECKS

1. Check the seat belt warning lamp for proper operation as per the following:

a. Turn ignition switch ON. The seat belt warning lamp should illuminate.

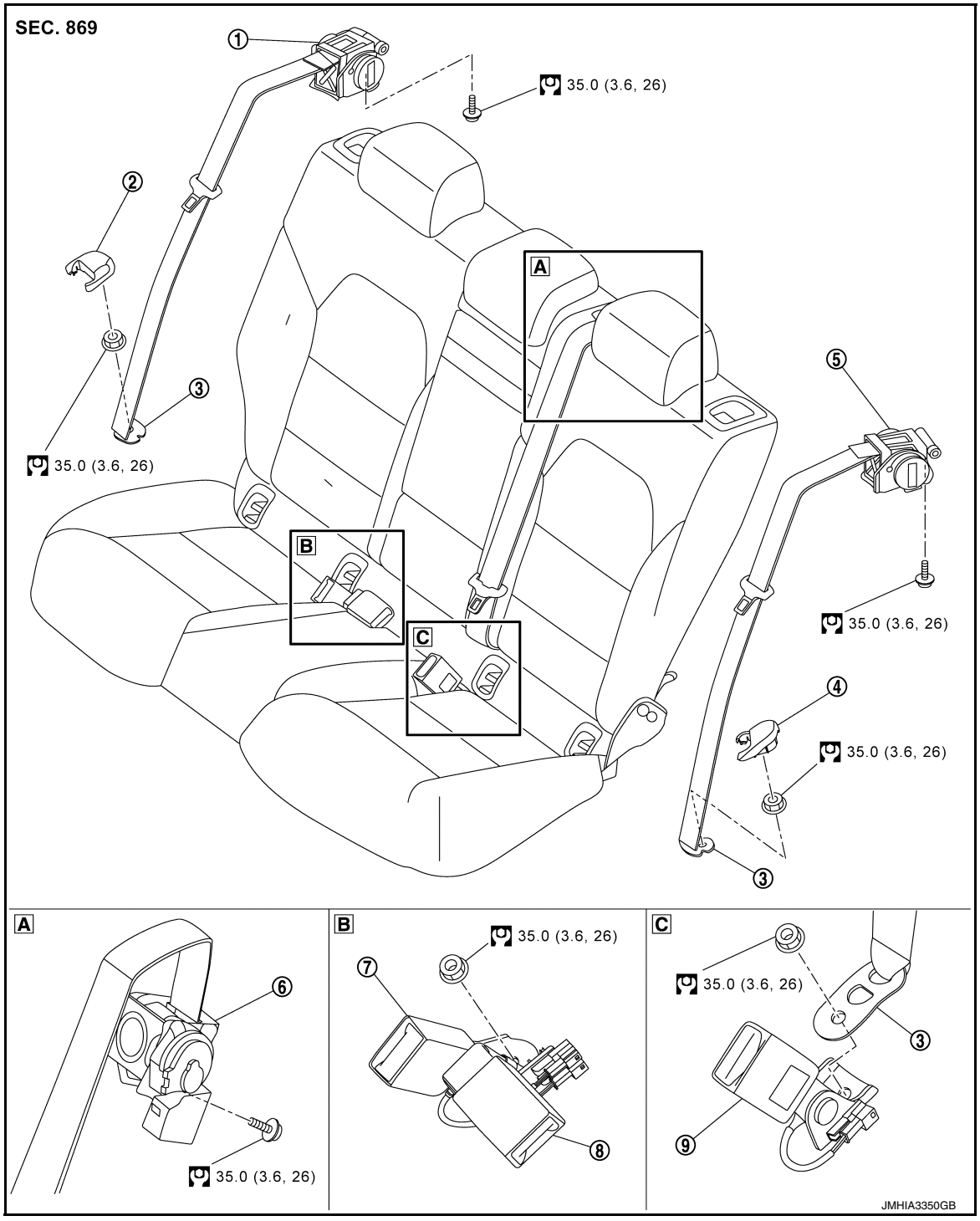
b. Fasten driver seat belt. The seat belt warning lamp should turn OFF.

2. If the air bag warning turn ON, perform self-diagnosis using CONSULT. Refer to SRC-16, "CONSULT Function".
3. Check that the seat belt retractor, seat belt anchor and buckle bolts are tightened firmly.
4. Repeat steps above if necessary to check the other seat belts.

REAR SEAT BELT

Exploded View

INFOID:0000000013543043



① Seat belt retractor RH ② Floor anchor cover RH ③ Floor anchor
④ Floor anchor cover LH ⑤ Seat belt retractor LH ⑥ Center seat belt retractor
⑦ Seat belt buckle RH ⑧ Center seat belt buckle ⑨ Seat belt buckle LH

: N·m (kg-m, ft-lb)

SEAT BELT RETRACTOR

SEAT BELT RETRACTOR : Removal and Installation

INFOID:0000000013543044

WARNING:

- **Before servicing, disconnect any external power sources and disconnect and insulate ground line of battery.**
- **Never turn the vehicle power source on again until operation is completed. There must be no persons within the operation range of the air bags and the seat belt retractors when the power is turned on again.**

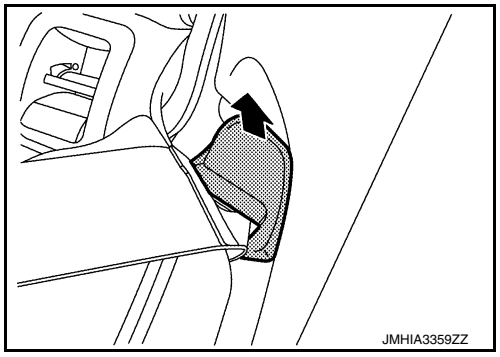
NOTE:

When the air bag inflates, ECM controls so that the engine cannot starts. After replacing the air bag, refer to EC-199, "Description" in order to start the engine.

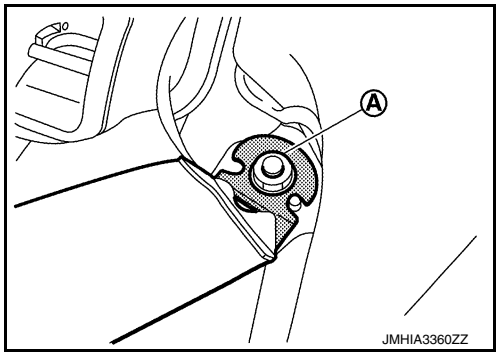
REMOVAL

Seat Belt Retractor (LH and RH)

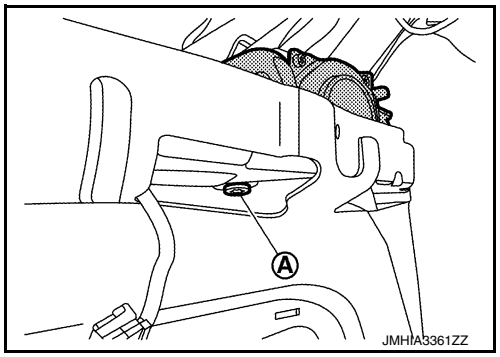
1. Remove floor anchor cover.



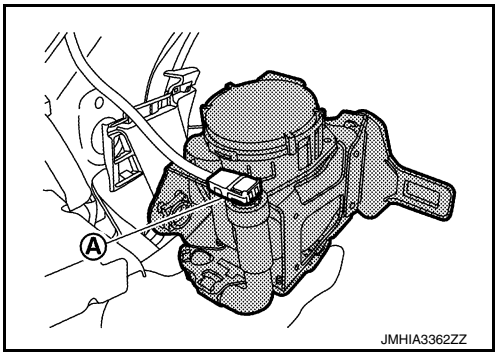
2. Remove mounting nut Ⓐ, and then remove floor anchor.



3. Remove rear pillar garnish. Refer to INT-39, "REAR PILLAR GARNISH : Removal and Installation".
4. Remove seat belt retractor mounting bolt Ⓐ.

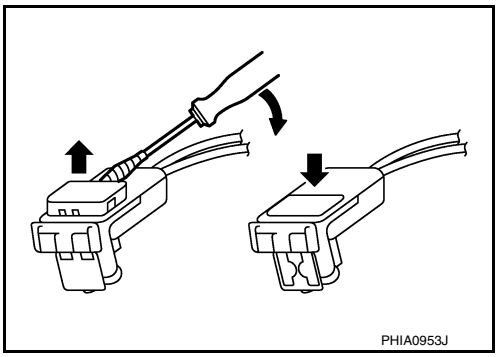


5. Disconnect pre-tensioner harness connector Ⓐ, and then remove seat belt retractor.



CAUTION:

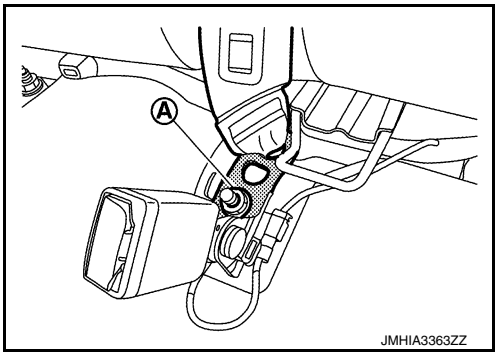
- **For installing/removing pre-tensioner harness connector, insert thin screwdriver wrapped in tape into notch, lift lock and remove connector.**
- **Install connector with lock raised, and push lock into connector.**
- **After installing the connector, check that the lock is pushed securely into it.**



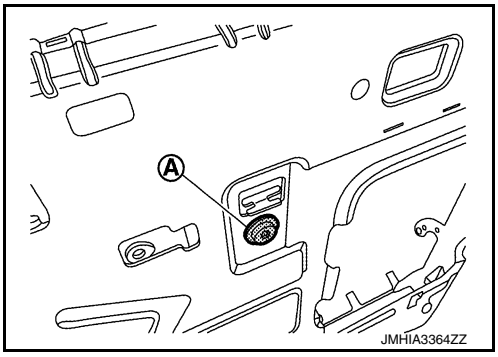
- **Never place seat belt retractor in an area where the temperature reaches 100°C (212°F) or more.**

Center Seat Belt Retractor

1. Remove rear seat cushion. Refer to SE-80, "SEAT CUSHION : Removal and Installation".
2. Remove mounting nut Ⓐ, and then remove seat belt floor anchor.



3. Remove rear seatback pad LH. Refer to SE-82, "SEATBACK : Disassembly and Assembly".
4. Remove mounting nut Ⓐ, and then remove seat belt retractor.



INSTALLATION

Install in the reverse order of removal.

SEAT BELT RETRACTOR : Inspection

INFOID:0000000013543045

AFTER A COLLISION

WARNING:

Inspect all seat belt assemblies including retractors and attached hardware after any collision. NISSAN/INFINITI recommends that all seat belt assemblies in use during a collision be replaced unless the collision was minor and the belts show no damage and continue to operate properly. Failure to do so could result in serious personal injury in an accident. Seat belt assemblies not in use during a collision should also be replaced if either damage or improper operation was noted. Seat belt pre-tensioners should be replaced even if the seat belts were not in use during a frontal collision in which the air bags were deployed.

Replace any seat belt assembly (including anchor bolts) if:

- The seat belt was in use at the time of a collision (except for minor collisions and the belts, retractors and buckles show no damage and continue to operate properly).
- The seat belt is damaged in an accident (i.e. torn webbing, bent retractor or shoulder anchor, etc.).
- The seat belt attaching point is damaged in an accident. Inspect the seat belt attaching area for damage or distortion and repair if necessary before installing a new seat belt assembly.
- Anchor bolts are deformed or worn out.
- The seat belt pre-tensioners must be replaced even if the seat belts were not in use during the collision in which the air bags were deployed.

NOTE:

When the air bag inflates, ECM controls so that the engine cannot starts. After replacing the air bag, refer to EC-199, "Description" in order to start the engine.

PRELIMINARY CHECKS

1. Check that the seat belt retractor, seat belt anchor and buckle bolts are tightened firmly.
2. Check retractor operation:

a. Fully extend the seat belt webbing and check for twists, tears or other damage.

b. Allow the seat belt to retract. Check that webbing returns smoothly and completely into the retractor. If the seat belt does not return smoothly, wipe the inside of the loops with a clean paper cloth.

c. Fasten the seat belt. Check that seat belt returns smoothly and completely to the retractor. If the webbing does not return smoothly, the cause may be an accumulation of dust or dirt. In the event of contamination, the belt guide and the webbing should be subject to cleaning.

CAUTION:

Do not dry at temperatures above 80°C or in direct solar radiation, do not bleach or dye a different color.

3. Repeat steps above if necessary to check the other seat belts.

SEAT BELT RETRACTOR ON-VEHICLE CHECK

Emergency Locking Retractors (ELR)

NOTE:

All seat belt retractors are Emergency Locking Retractors (ELR) type. In an emergency (sudden stop) the retractor will lock and prevent the webbing from extending any further.

Check the seat belt retractors with the following test(s) to determine if a retractor assembly is operating properly.

ELR Function Stationary Check

Grasp the shoulder webbing and pull forward quickly. The retractor should lock and prevent the belt from extending further.

ELR Function Moving Check

WARNING:

Perform the following test in a safe, open area clear of other vehicles and obstructions (for example, a large, empty parking lot). Road surface must be paved and dry. Never perform the following test on wet or gravel roads or on public streets and highways. This could result in an accident and serious personal injury. The driver and passenger must be prepared to brace themselves in the event that the retractor does not lock.

1. Fasten driver seat belt. Buckle a passenger into the seat for the belt that is to be tested.

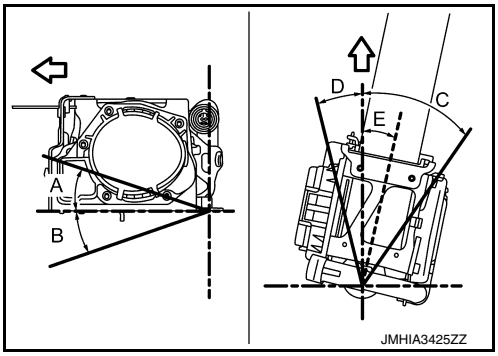
2. Proceed to the designated safe area.
3. Drive the vehicle at approximately 16 km/h (10 MPH). Notify any passengers of a pending sudden stop and the driver and passenger must be prepared to brace themselves in the event that the retractor does not lock. Apply brakes firmly and make a very hard stop.
4. During stopping, the seat belts should lock and not be extended. If the seat belt retractor assembly does not lock, perform the retractor off-vehicle check.

SEAT BELT RETRACTOR OFF-VEHICLE CHECK

1. Remove the seat belt retractor. Refer to SB-15, "SEAT BELT RETRACTOR : Removal and Installation".
2. Slowly pull out webbing while tilting the retractor assembly without twisting the retractor assembly.

Seat belt retractor LH [assembly condition (E): 12°]

- The webbing can be pulled out when each angles are the following degrees or less (each conditions at the same time).



A : 12°
B : 12°
C : 24°
D : 0°

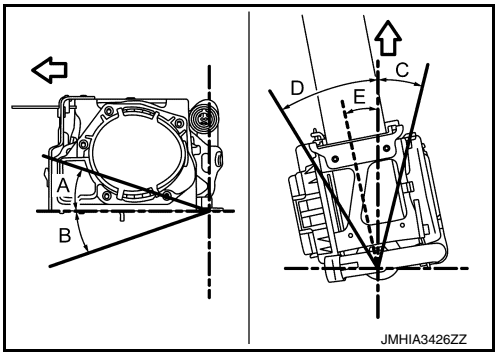
⇦ : Vehicle front

- The webbing cannot be pulled out when each angles are the following degrees or more.

A : 27°
B : 27°
C : 51°
D : 27°

Seat belt retractor RH [assembly condition (E): 12°]

- The webbing can be pulled out when each angles are the following degrees or less (each conditions at the same time).



A : 12°
B : 12°
C : 0°
D : 24°

⇦ : Vehicle front

- The webbing cannot be pulled out when each angles are the following degrees or more.

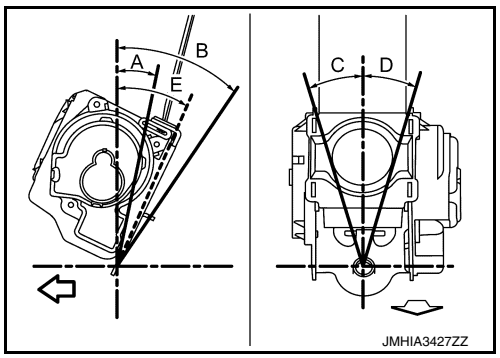
A : 27°
B : 27°
C : 27°
D : 51°

Seat belt retractor center [assembly condition (E): 25°]

- The webbing can be pulled out when each angles are the following degrees (each conditions at the same time).

A : 13° or more
B : 37° or less
C : 12° or less
D : 12° or less

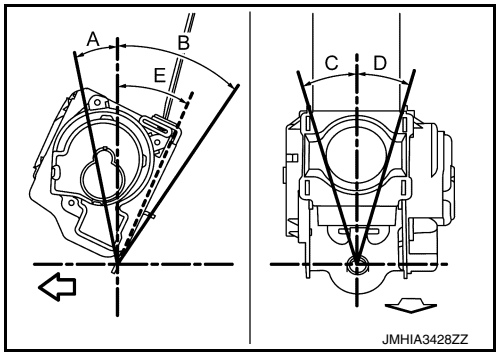
⇦ : Vehicle front



- The webbing cannot be pulled out when each angles are the following degrees or more.

A : 2°
B : 52°
C : 27°
D : 27°

⇦ : Vehicle front



3. Replace the seat belt assembly if it does not operate normally.

SEAT BELT BUCKLE

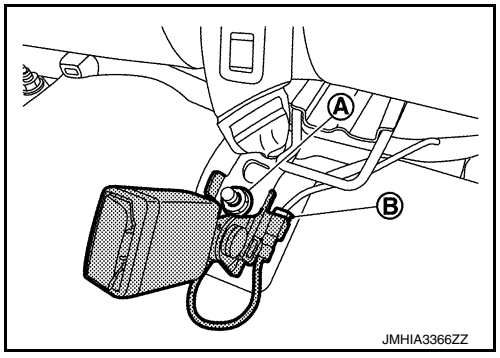
SEAT BELT BUCKLE : Removal and Installation

INFOID:0000000013543046

REMOVAL

Seat Belt Buckle LH

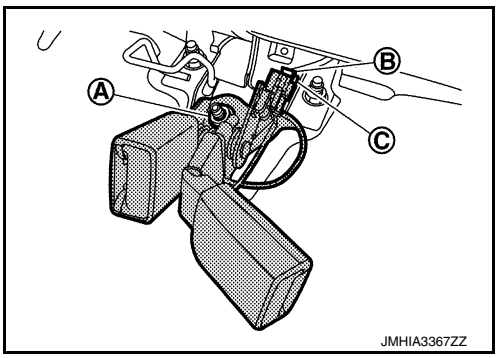
1. Remove seat cushion. Refer to SE-80, "SEAT CUSHION : Removal and Installation".
2. Disconnect harness connector Ⓑ. (if equipped)
3. Remove mounting nut Ⓐ, and then remove seat belt buckle LH.



Seat Belt Buckle (RH and center)

1. Remove seat cushion. Refer to SE-80, "SEAT CUSHION : Removal and Installation".

2. Disconnect harness connector Ⓑ and Ⓒ. (if equipped)
3. Remove mounting nut Ⓐ, and then remove seat belt buckle (RH and center).



INSTALLATION

Install in the reverse order of removal.

SEAT BELT BUCKLE : Inspection

INFOID:0000000013543047

AFTER A COLLISION

WARNING:

Inspect all seat belt assemblies including retractors and attached hardware after any collision. NISSAN/INFINITI recommends that all seat belt assemblies in use during a collision be replaced unless the collision was minor and the belts show no damage and continue to operate properly. Failure to do so could result in serious personal injury in an accident. Seat belt assemblies not in use during a collision should also be replaced if either damage or improper operation was noted.

Replace any seat belt assembly (including anchor bolts) if:

- The seat belt was in use at the time of a collision (except for minor collisions and the belts, retractors and buckles show no damage and continue to operate properly).
- The seat belt is damaged in an accident (i.e. torn webbing, bent retractor or shoulder anchor, etc.).
- The seat belt attaching point is damaged in an accident. Inspect the seat belt attaching area for damage or distortion and repair if necessary before installing a new seat belt assembly.
- Anchor bolts are deformed or worn out.

PRELIMINARY CHECKS

1. Check that the seat belt retractor, seat belt anchor and buckle bolts are tightened firmly.
2. Repeat step above if necessary to check the other seat belts.