

SECTION **CL**  
CLUTCH

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# NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYMPTOM DIAGNOSIS >

## SYMPTOM DIAGNOSIS

### NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

#### NVH Troubleshooting Chart

INFOID:000000007421929

Use the chart below to help you find the cause of the symptom. The numbers indicate the order of the inspection. If necessary, repair or replace these parts.

Reference page		<a href="#">CL-6</a>	<a href="#">CL-7</a>	<a href="#">CL-14</a>	<a href="#">EM-74</a>	<a href="#">CL-17</a>	<a href="#">CL-17</a>	<a href="#">CL-15</a>	<a href="#">CL-15</a>	<a href="#">CL-15</a>	<a href="#">CL-15</a>	<a href="#">CL-15</a>	<a href="#">CL-15</a>	<a href="#">CL-16</a>	<a href="#">CL-15</a>	<a href="#">EM-78</a>	
SUSPECTED PARTS (Possible cause)		CLUTCH PEDAL (Inspection and adjustment)	CLUTCH LINE (Air in line)	CSC (Concentric slave cylinder) (Worn, dirty or damaged)	ENGINE MOUNTING (Loose)	CLUTCH DISC (Out of true)	CLUTCH DISC (Runout is excessive)	CLUTCH DISC (Lining broken)	CLUTCH DISC (Dirty or burned)	CLUTCH DISC (Oily)	CLUTCH DISC (Worn out)	CLUTCH DISC (Hardened)	CLUTCH DISC (Lack of spline grease)	DIAPHRAGM SPRING (Damaged)	DIAPHRAGM SPRING (Out of tip alignment)	PRESSURE PLATE (Distortion)	FLYWHEEL (Distortion)
Symptom	Clutch grabs/chatters				1		2			2	2	2			2		
	Clutch pedal spongy		1														
	Clutch noisy			1													
	Clutch slips	1								2	2			3		4	5
	Clutch does not disengage	1	2	4		5	5	5	5	5			5	6	6	7	

# PRECAUTIONS

< PRECAUTION >

## PRECAUTION

### PRECAUTIONS

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

INFOID:000000007421930

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 SR and SB section 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 SR section.
- 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 Airbag Diagnosis Sensor Unit or other Airbag 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 Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:000000007421931

#### **NOTE:**

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the procedure below before starting the repair operation.

#### OPERATION PROCEDURE

1. Connect both battery cables.

#### **NOTE:**

Supply power using jumper cables if battery is discharged.

2. Carry the Intelligent Key or insert it to the key slot and turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
4. Perform the necessary repair operation.

# PRECAUTIONS

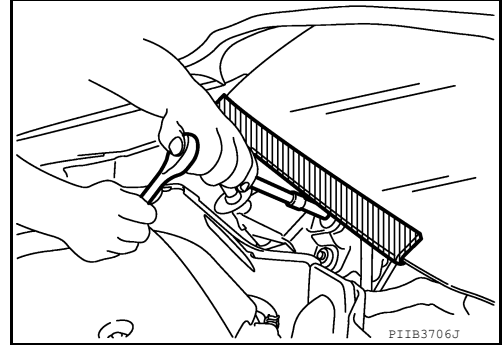
## < PRECAUTION >

5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT.

### Precaution for Procedure without Cowl Top Cover

INFOID:000000007421932

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc.



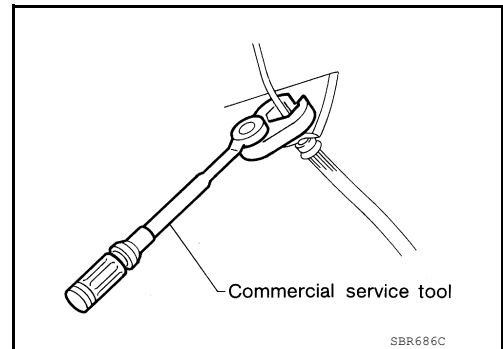
### Service Notice or Precautions

INFOID:000000007421933

- Always use recommended fluid. Refer to [MA-12, "Fluids and Lubricants"](#).
- Do not reuse drained fluid.
- Be careful not to splash fluid on painted areas.
- When removing and installing clutch piping, use tool.
- Use new fluid to clean or wash all parts of master cylinder.
- Do not use mineral oils such as gasoline or kerosene. It will ruin the rubber parts of the hydraulic system.

#### **WARNING:**

**After cleaning clutch disc, wipe it with a dust collector. Do not use compressed air.**



# PREPARATION

< PREPARATION >


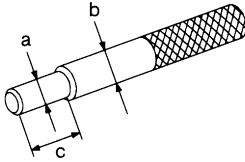
## PREPARATION

### PREPARATION

#### Special Service Tools

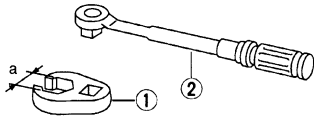
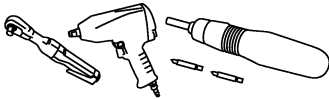
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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
ST20050240 ( — ) Diaphragm adjusting wrench	Adjusting unevenness of diaphragm spring of clutch cover
 <p style="text-align: center; font-size: small;">ZZA0508D</p>	
KV30101000 ( — ) Clutch aligning bar	Installing clutch disc <b>a: 15.9 mm (0.626 in) dia.</b> <b>b: 17.9 mm (0.705 in) dia.</b> <b>C: 40 mm (1.57 in) dia.</b>
 <p style="text-align: center; font-size: small;">NT405</p>	

#### Commercial Service Tools

INFOID:000000007421935

Tool name	Description
1. Flare nut crowfoot 2. Torque wrench	Removing and installing clutch piping <b>a: 10 mm (0.39 in)</b>
 <p style="text-align: center; font-size: small;">S-NT360</p>	
Power tool	Loosening nuts, screws and bolts
 <p style="text-align: center; font-size: small;">PIIB1407E</p>	

# CLUTCH PEDAL

< PERIODIC MAINTENANCE >

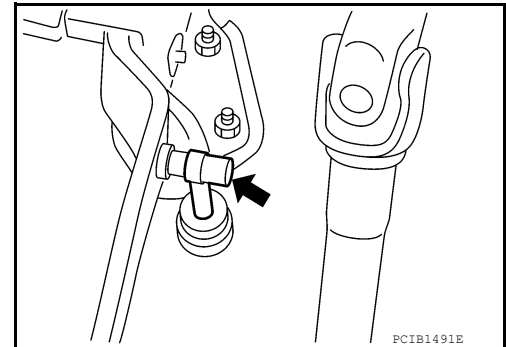
## PERIODIC MAINTENANCE

### CLUTCH PEDAL

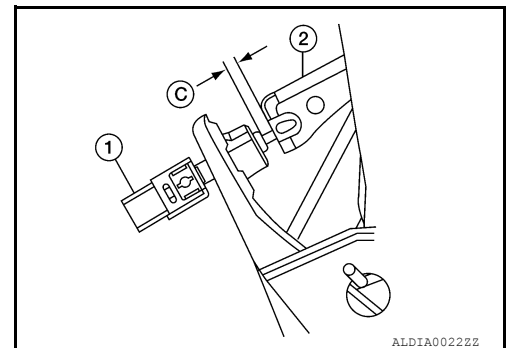
#### Inspection and Adjustment

INFOID:000000007421936

1. Check to see if the master cylinder rod end moves freely. It should not be bound by the clutch pedal.
  - If the rod end does not move freely, remove the rod end and check for deformation or damage on the rod end. Leave the rod end removed for step 2.
2. Check the clutch pedal stroke for free range of movement.
  - a. With the master cylinder rod end removed, manually move the clutch pedal up and down to determine if it moves freely.
  - b. If any sticking is noted, replace the clutch pedal assembly. Reverify that the master cylinder rod end moves freely.
3. Inspect the ASCD clutch switch position.
  - a. If the rod end does not move freely, check that the ASCD clutch switch is not applying pressure to the clutch pedal causing the rod end to bind. To adjust, disconnect the ASCD clutch switch electrical connector and turn the ASCD clutch switch.
  - b. Connect the ASCD clutch switch electrical connector.
4. Adjust clutch interlock switch (1) position so that clearance between clutch pedal (2) and thread end of clutch interlock switch (1), with clutch pedal fully depressed, is within specification (C).

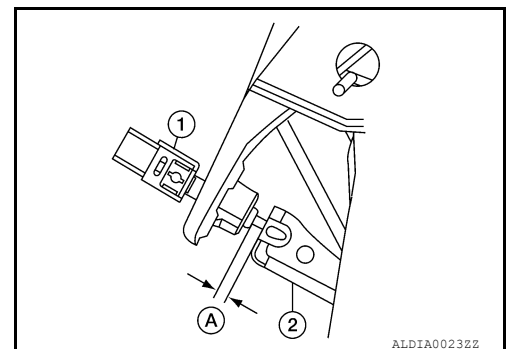


**Clearance C** : 0.74 - 1.96 mm (0.0291 - 0.0772 in)



5. Adjust ASCD clutch switch (1) position so that clearance between clutch pedal (2) and thread end of ASCD clutch switch (1), with clutch pedal fully released, is within specification (A).

**Clearance A** : 0.74 - 1.96 mm (0.0291 - 0.0772 in)



6. Check the clutch hydraulic system components (clutch master cylinder, CSC) for sticking or binding.
  - a. If any sticking or binding is noted, repair or replace the related parts as necessary.
  - b. If any hydraulic system repair was necessary, bleed the clutch hydraulic system. Refer to [CL-7, "Air Bleeding Procedure"](#).

#### NOTE:

Do not use a vacuum assist or any other type of power bleeder on this system. Use of a vacuum assist or power bleeder will not purge all of the air from the system.

# CLUTCH FLUID

< PERIODIC MAINTENANCE >

## CLUTCH FLUID

### Air Bleeding Procedure

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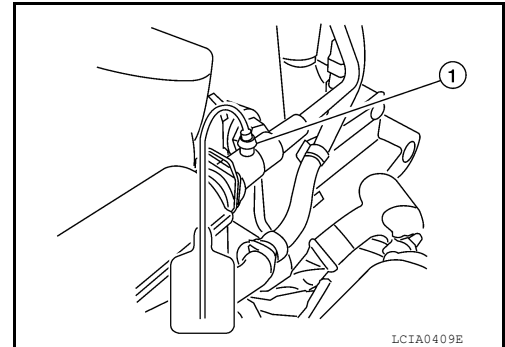
#### CAUTION:

Do not spill clutch fluid onto painted surfaces. If it spills, wipe up immediately and wash the affected area with water.

#### NOTE:

- Do not use a vacuum assist or any other type of power bleeder on this system. Use of vacuum assist or power bleeder will not purge all the air from the system.
- Carefully monitor clutch fluid level in reservoir tank during bleeding operation.
- First bleed the air from the bleeding connector on the CSC and then from the air bleed connector valve.

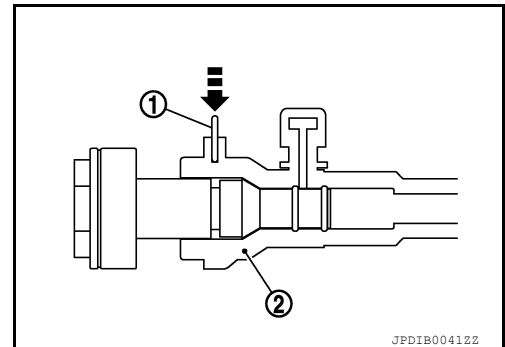
1. Fill master cylinder reservoir tank with new clutch fluid.
2. Connect a transparent vinyl tube and container to the bleeding connector (1) on the CSC.
3. Depress and release the clutch pedal slowly and fully 15 times at an interval of two to three seconds and release the clutch pedal.



4. Bleed the air from the clutch system according to the following:
  1. Push in the lock pin (1) of the bleeding connector (2), and hold it in.

#### CAUTION:

Hold the lock pin in to prevent the bleeding connector from separating when fluid pressure is applied.



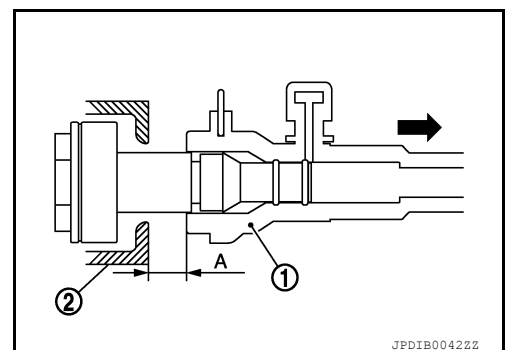
2. Slide the bleeding connector (1) away from the transaxle housing (2) to the specified distance (A) to allow air to bleed from the clutch system.

**Dimension (A) : 10 mm (0.39 in)**

3. Depress the clutch pedal and hold it down.

#### CAUTION:

Hold the clutch pedal down to prevent air from getting back into the clutch system.

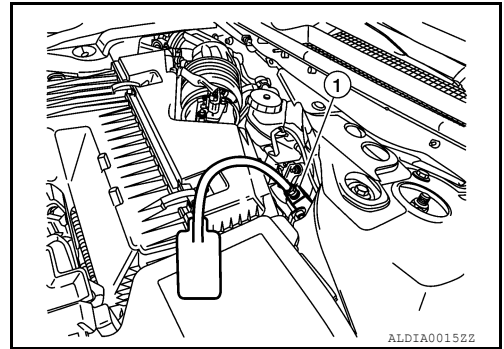


5. Return the bleeding connector and lock pin to their original positions.
6. Release the clutch pedal and wait for five seconds.
7. Repeat steps 3 through 6 until no air bubbles can be observed in the clutch fluid.

## CLUTCH FLUID

### < PERIODIC MAINTENANCE >

8. Connect a transparent vinyl tube and container to the air bleed connector valve (1).
9. Fully depress the clutch pedal several times.
10. With clutch pedal depressed, open the air bleed connector valve.
11. Close the air bleed connector valve.
12. Release the clutch pedal and wait for five seconds.
13. Repeat steps 9 through 12 until no air bubble can be observed in the clutch fluid.
14. Check clutch fluid level in reservoir tank.





# CLUTCH PEDAL

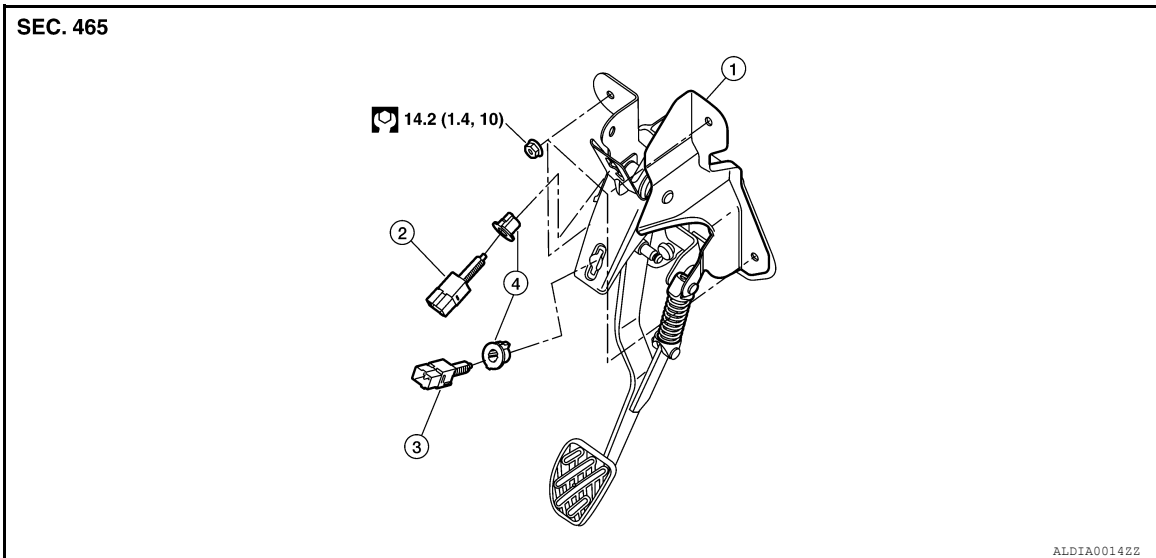
< REMOVAL AND INSTALLATION >

## REMOVAL AND INSTALLATION

### CLUTCH PEDAL

Exploded View

INFOID:000000007421938



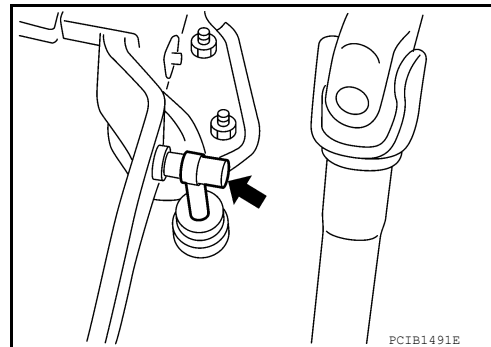
1. Clutch pedal assembly
2. Clutch interlock switch
3. ASCD clutch switch
4. Lock nut

### Removal and Installation

INFOID:000000007421939

#### REMOVAL

1. Disconnect master cylinder rod end from clutch pedal lever.
2. Disconnect the ASCD clutch switch and clutch interlock switch harness connectors.
3. Remove clutch pedal assembly nuts and then remove clutch pedal assembly.



#### INSTALLATION

Installation is in the reverse order of removal.

- After installing the clutch switches, adjust the switch positions. Refer to [CL-6. "Inspection and Adjustment"](#).

#### Inspection

INFOID:000000007421940

- After removal, check clutch pedal for bend, damage or a cracked weld. If bend, damage or a cracked weld is found, replace clutch pedal assembly.

# CLUTCH MASTER CYLINDER

< REMOVAL AND INSTALLATION >

## CLUTCH MASTER CYLINDER

### Removal and Installation

INFOID:000000007421941

#### REMOVAL

1. Remove cowl top. Refer to [EXT-21. "Removal and Installation"](#) (Coupe) or [EXT-45. "Removal and Installation"](#) (Sedan).
2. Remove engine room cover.
3. Remove the air cleaner and air duct. Refer to [EM-25. "Removal and Installation"](#).
4. Remove hose from master cylinder.

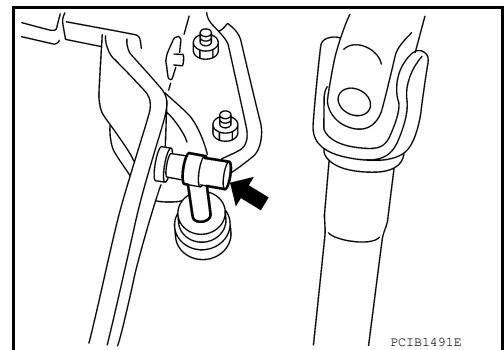
**CAUTION:**

Do not spill clutch fluid onto painted surfaces. If it spills, wipe up immediately and wash the affected area with water.

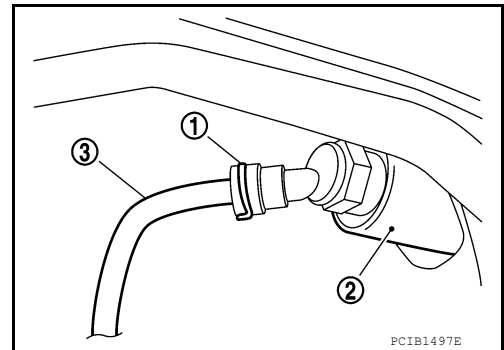
**NOTE:**

Cap or plug opening(s) to prevent fluid from spilling.

5. Remove master cylinder rod end from clutch pedal assembly.



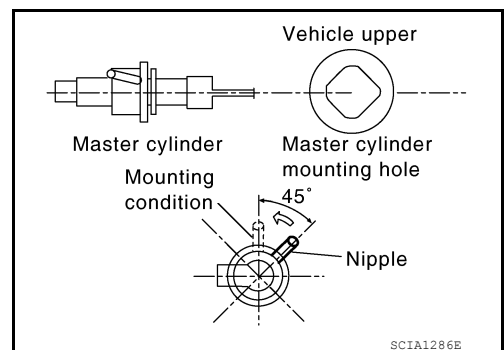
6. Remove lock pin (1) from connector of master cylinder (2) and separate clutch tube (3).



7. Rotate master cylinder clockwise by 45° and remove from the vehicle.

#### INSTALLATION

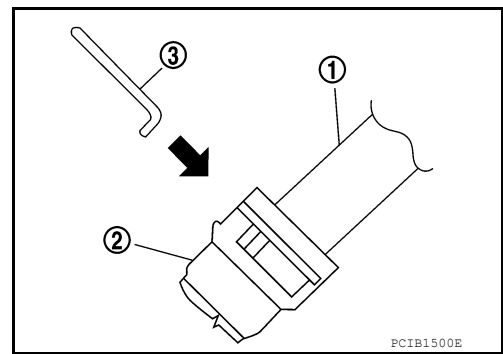
1. Tilt master cylinder clockwise by 45° and insert it in the mounting hole. Rotate counterclockwise to secure it. At this time, nipple is in the up position.
2. Install master cylinder rod end to clutch pedal.



## CLUTCH MASTER CYLINDER

### < REMOVAL AND INSTALLATION >

3. Install clutch tube (1) fully into connector of master cylinder (2).
4. Install lock pin (3) fully into connector of master cylinder (2).
5. Fill with new clutch fluid and bleed clutch hydraulic system. Refer to [CL-6, "Inspection and Adjustment"](#).
6. Inspect clutch pedal operation. Refer to [CL-6, "Inspection and Adjustment"](#).
7. Install the air cleaner and air duct. Refer to [EM-25, "Removal and Installation"](#).
8. Install engine room cover.
9. Install cowl top. Refer to [EXT-21, "Removal and Installation"](#) (Coupe) or [EXT-45, "Removal and Installation"](#) (Sedan).



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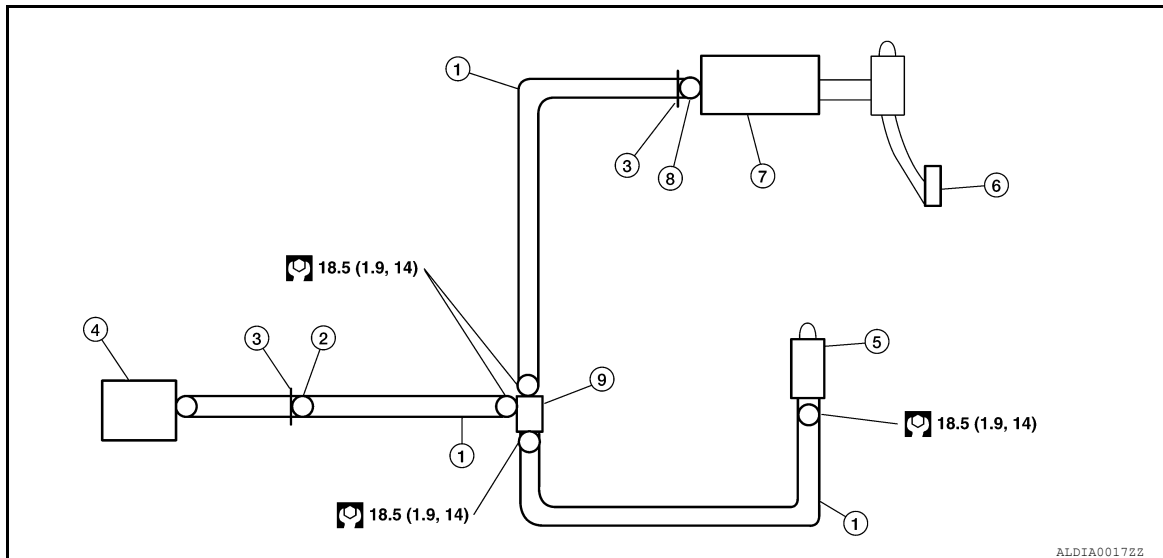
# CLUTCH PIPING

< REMOVAL AND INSTALLATION >

## CLUTCH PIPING

### Exploded View

INFOID:000000007421942



- |                           |                                     |                     |
|---------------------------|-------------------------------------|---------------------|
| 1. Clutch tube            | 2. CSC connector                    | 3. Lock pin         |
| 4. CSC                    | 5. Air bleed connector valve        | 6. Clutch pedal     |
| 7. Clutch master cylinder | 8. Clutch master cylinder connector | 9. Branch connector |

### Removal and Installation

INFOID:000000007421943

#### **CAUTION:**

**Do not spill clutch fluid onto painted surfaces. If it spills, wipe up immediately and wash the affected area with water.**

#### REMOVAL

1. Remove cowl top. Refer to [EXT-21. "Removal and Installation"](#) (Coupe) or [EXT-45. "Removal and Installation"](#) (Sedan).
2. Remove engine room cover
3. Remove the air cleaner and air duct. Refer to [EM-25. "Removal and Installation"](#).
4. Remove the lock pin and disconnect the clutch master cylinder connector.

#### **NOTE:**

Cap or plug opening(s) to prevent fluid from spilling.

5. Remove the clutch tubes from the branch connector.
6. Remove the clutch tube and air bleed connector valve.
7. Remove the branch connector.

#### **NOTE:**

Cap or plug opening(s) to prevent fluid from spilling.

8. Remove lock pin and disconnect the CSC connector.

#### **NOTE:**

Cap or plug opening(s) to prevent fluid from spilling.

#### INSTALLATION

Installation is in the reverse order of removal.

- Make sure that all tubes are fully installed into connectors.
- Make sure that all connector lock pins are fully installed.

# CLUTCH PIPING

## < REMOVAL AND INSTALLATION >

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- After installation, bleed clutch hydraulic system. Refer to [CL-7. "Air Bleeding Procedure"](#).

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# CSC (CONCENTRIC SLAVE CYLINDER)

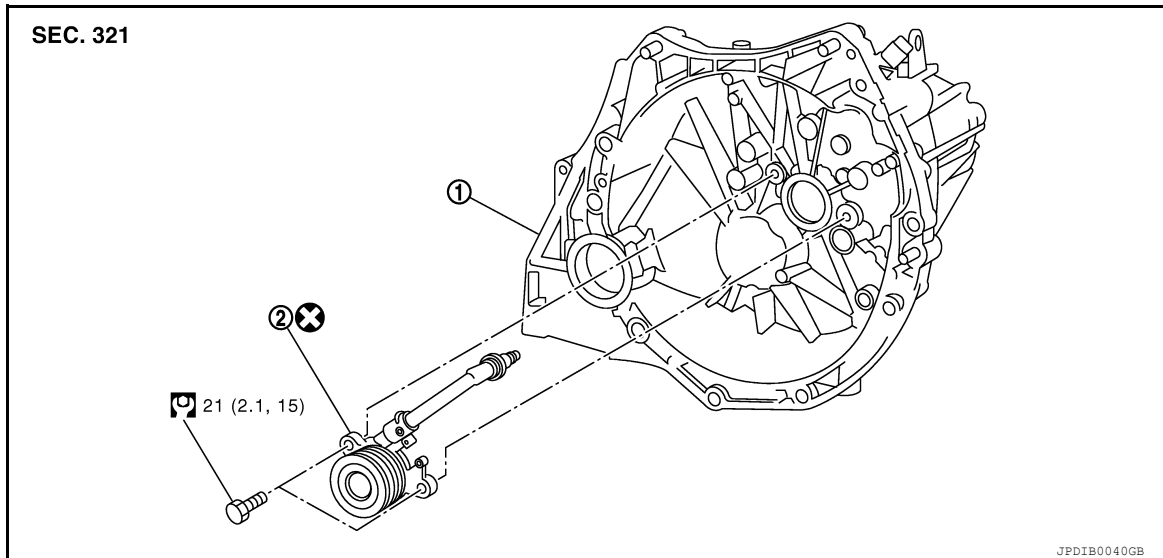
< UNIT REMOVAL AND INSTALLATION >

## UNIT REMOVAL AND INSTALLATION

### CSC (CONCENTRIC SLAVE CYLINDER)

Exploded View

INFOID:000000007421944



1. Transaxle assembly

2. CSC (Concentric Slave Cylinder)

### Removal and Installation

INFOID:000000007421945

#### CAUTION:

- If transaxle assembly is removed from the vehicle, always replace CSC. Return CSC insert to original position to remove transaxle assembly. Dust on clutch disc sliding parts may damage CSC seal and may cause clutch fluid leakage.
- Do not spill clutch fluid onto painted surfaces. If it spills, wipe up immediately and wash the affected area with water.

#### REMOVAL

1. Remove the transaxle assembly. Refer to [TM-29, "Removal and Installation"](#).
2. Remove CSC bolts and CSC from clutch housing.

#### NOTE:

Cap or plug opening(s) to prevent fluid from spilling.

#### INSTALLATION

Installation is in the reverse order of removal.

#### CAUTION:

- Do not reuse CSC.
- Do not insert and operate CSC because piston and stopper of CSC components may fall off.

After installation, bleed clutch hydraulic system. Refer to [CL-7, "Air Bleeding Procedure"](#).

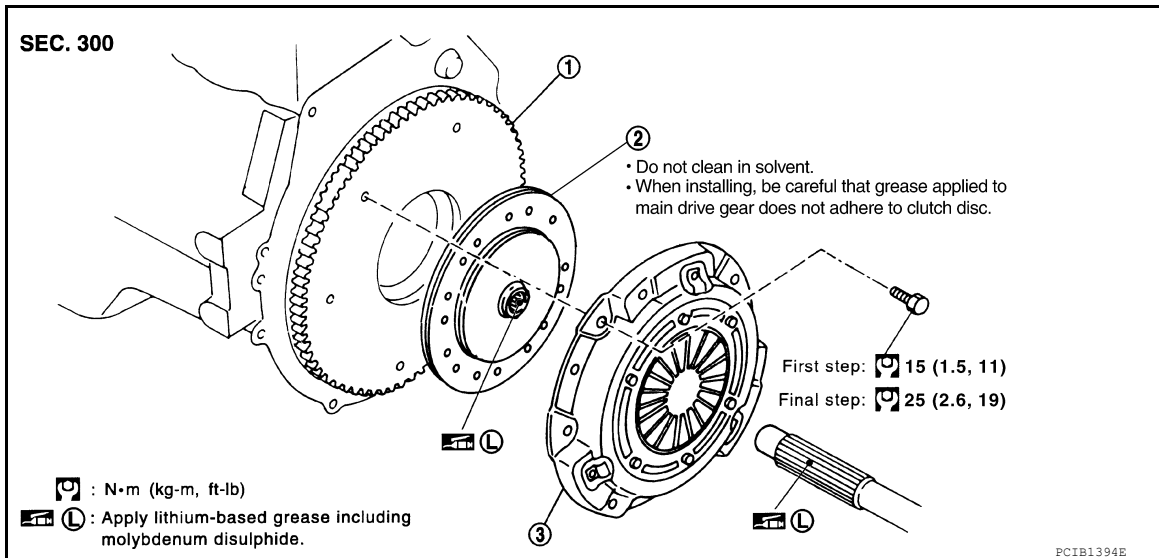
# CLUTCH DISC AND CLUTCH COVER

< UNIT REMOVAL AND INSTALLATION >

## CLUTCH DISC AND CLUTCH COVER

Exploded View

INFOID:000000007421946



1. Flywheel
2. Clutch disc
3. Clutch cover

## Removal and Installation

INFOID:000000007421947

### CAUTION:

- If transaxle assembly is removed from the vehicle, always replace CSC (Concentric Slave Cylinder). Return CSC insert to original position to remove transaxle assembly. Dust on clutch disc sliding parts may damage CSC seal and may cause clutch fluid leakage.
- Be careful not to apply any grease to the clutch disc facing, pressure plate surface and flywheel surface.

### REMOVAL

1. Remove transaxle assembly from the vehicle. Refer to [TM-29, "Removal and Installation"](#).
2. Loosen clutch cover bolts evenly. Then remove clutch cover and clutch disc.

### INSTALLATION

1. Clean clutch disc and input shaft splines to remove grease and dust caused by abrasion.
2. Apply recommended grease to clutch disc and input shaft splines.

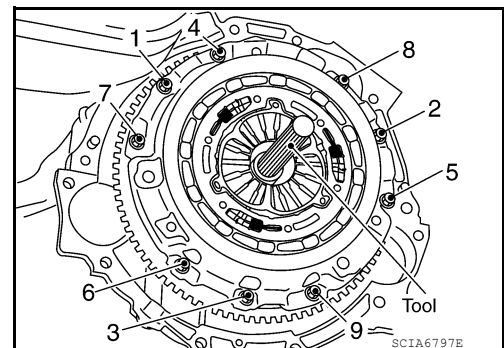
### CAUTION:

Be sure to apply grease to the points specified. Otherwise, noise, poor disengagement, or damage to the clutch may result. Excessive grease may cause slip or shudder. If it adheres to CSC seal, it will cause clutch fluid leakage. Wipe off excess grease.

3. Install clutch disc using Tool.

Tool number : KV30101000 ( — )

4. Install clutch cover. Pre-tighten clutch cover bolts.
5. Tighten clutch cover bolts evenly in two steps in the order shown. Refer to [CL-15, "Exploded View"](#).
6. Install transaxle assembly. Refer to [TM-29, "Removal and Installation"](#).



# CLUTCH DISC AND CLUTCH COVER

< UNIT REMOVAL AND INSTALLATION >

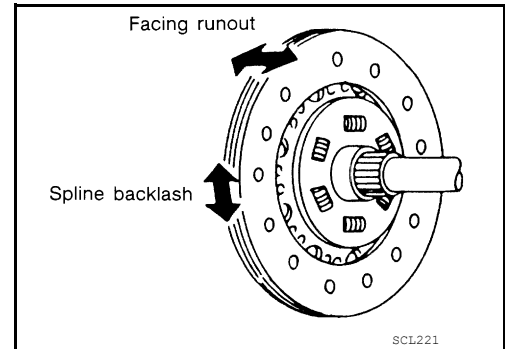
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## Inspection

### CLUTCH DISC

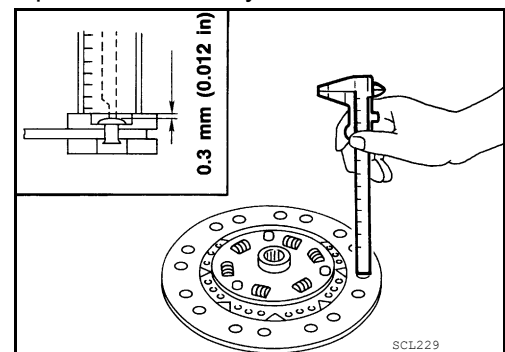
- Measure clutch disc runout and backlash. If either measurement exceeds the specification, replace clutch disc.

**Runout and backlash** : Refer to [CL-17, "Clutch Disc"](#).



- Check clutch disc for burns, discoloration or oil or grease leakage. Replace if necessary.
- Determine the clutch facing wear limit (depth to the rivet head). If measurement exceeds specifications, replace clutch disc.

**Clutch facing wear** : Refer to [CL-17, "Clutch Disc"](#).



### CLUTCH COVER

- Check clutch cover installed on vehicle for unevenness of diaphragm spring toe height. If unevenness exceeds specifications, adjust the height using Tool (A).

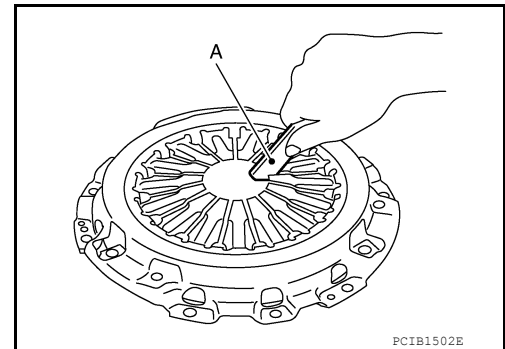
**Uneven limit of diaphragm spring toe height** : Refer to [CL-17, "Clutch Cover"](#).

**Tool number** : ST20050240 ( — )

- Check clutch cover thrust ring for wear or breakage. If wear or breakage is found, replace clutch cover.

#### NOTE:

- Worn thrust ring will generate a beating noise when tapped at the rivet using suitable tool.
- Broken thrust ring will make a clinking sound when cover is shaken up and down.
- If a trace of burn or discoloration is found on clutch cover pressure plate to clutch disc contact surface, repair the surface with sandpaper. If surface is damaged or distorted, replace clutch cover.





# SERVICE DATA AND SPECIFICATIONS (SDS)

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#### Clutch Control System

INFOID:000000007421949

Type of clutch control	Hydraulic
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#### Clutch Pedal

INFOID:000000007421950

Unit: mm (in)

Clearance between clutch pedal and ASCD switch threaded end while clutch pedal is fully released.	0.74 - 1.96 (0.0291 - 0.0772)
Clearance between clutch pedal and clutch interlock switch threaded end while clutch pedal is fully depressed.	0.74 - 1.96 (0.0291 - 0.0772)

#### Clutch Disc

INFOID:000000007421951

Unit: mm (in)

Engine model	QR25DE
Model	240
Facing size (Outer dia. × Inner dia. × Thickness)	240 × 160 × 8.0 (9.45 × 6.30 × 0.31)
Thickness of disc assembly with load	7.15 - 7.65 (0.2815 - 0.3012) with 6,370 N (649.7 kg, 1,432.0 lb)
Runout limit/diameter of the area to be measured	0.7 (0.028) or less / 230 (9.06) dia.
Maximum spline backlash (at outer edge disc)	1.0 (0.039)
Wear limit (depth to the rivet head)	0.3 (0.012)

#### Clutch Cover

INFOID:000000007421952

Unit: mm (in)

Engine model	QR25DE
Set-load	6,370 N (649.7 kg, 1432.0 lb)
Diaphragm spring lever height	28.6 - 30.6 (1.126 - 1.205)
Uneven limit of diaphragm spring toe height	0.7 (0.028) or less