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PRECAUTION

PRECAUTIONS

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

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. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

The vehicle may be equipped with a passenger air bag deactivation switch. Because no rear seat exists where a rear-facing child restraint can be placed, the switch is designed to turn off the passenger air bag so that a rear-facing child restraint can be used in the front passenger seat. The switch is located in the center of the instrument panel, near the ashtray. When the switch is turned to the ON position, the passenger air bag is enabled and could inflate for certain types of collision. When the switch is turned to the OFF position, the passenger air bag is disabled and will not inflate. A passenger air bag OFF indicator on the instrument panel lights up when the passenger air bag is switched OFF. The driver air bag always remains enabled and is not affected by the passenger air bag deactivation switch.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal
 injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag
 Module, see the "SRS AIR BAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.
- The vehicle may be equipped with a passenger air bag deactivation switch which can be operated by the customer. When the passenger air bag is switched OFF, the passenger air bag is disabled and will not inflate. When the passenger air bag is switched ON, the passenger air bag is enabled and could inflate for certain types of collision. After SRS maintenance or repair, make sure the passenger air bag deactivation switch is in the same position (ON or OFF) as when the vehicle arrived for service.

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

WARNING:

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

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

NOTE:

- Before removing and installing any control units, first turn the 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-III 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.

For vehicle with 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 operation procedure below before starting the repair operation.

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PRECAUTIONS

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OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

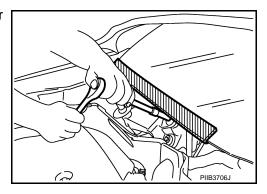
Supply power using jumper cables if battery is discharged.

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

Precaution for Procedure without Cowl Top Cover

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



Service Notice or Precautions for Clutch

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WARNING:

After cleaning clutch disc, wipe it with a dust collector. Never use compressed air. CAUTION:

- Clutch fluid use refer to MA-13, "Fluids and Lubricants".
- · Never reuse drained clutch fluid.
- Keep painted surface on the body or other parts free of clutch fluid. If it spills, wipe up immediately and wash the affected area with water.
- Never use mineral oils such as gasoline or kerosene. It will ruin the rubber parts of the hydraulic system.
- Never reuse CSC (Concentric Slave Cylinder). Because CSC slides back to the original position
 every time when removing transaxle assembly. At this timing, dust on the sliding parts may damage
 a seal of CSC and may cause clutch fluid leakage. Refer to CL-27, "Removal and Installation".
- Never disassemble clutch master cylinder and CSC.

PREPARATION

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Special Service Tools

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Tool number Tool name		Description	•
ST20050240 Diaphragm adjusting wrench		Adjusting unevenness of diaphragm spring lever	(
	77A0508D		

Commercial Service Tools

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Tool name	Description
Clutch aligner	Installing clutch disc
	MCIB0404E

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NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NVH Troubleshooting Chart

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

SUSPECTED PA	ARTS (Possible cause)	CLUTCH PEDAL (Inspection and adjustment)	CLUTCH LINE (Air in line)	ENGINE MOUNTING (Loose)	CSC (Concentric Slave Cylinder) (Worn, dirty or damaged)	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)
Reference		<u>CF-7</u>	CL-12 (RS5F92R), CL-15 (RS6F94R)	EM-62 (MR16DDT), EM-218 (HR16DE), EM-328 (K9K)	<u>CL-27</u>						<u>CL-29</u> (Except for K9K), <u>CL-32</u> (K9K)						EM-112 (MR16DDT), EM-236 (HR16DE)
	Clutch grabs/chatters			1			2			2	2	2			2		
	Clutch pedal spongy		1		2												
Symptom	Clutch noisy				1												
	Clutch slips	1								2	2			3		4	5
	Clutch does not disengage	1	2		3	3	3	3	3	3			3	4	4	5	

PERIODIC MAINTENANCE

CLUTCH PEDAL

Inspection and Adjustment

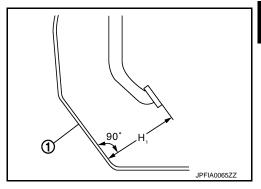
INSPECTION

The Height of Clutch Pedal

- 1. Turn the floor carpet.
- 2. Check that the clutch pedal height "H1" from the dash lower panel (1) is within the reference value.

Clutch pedal height : Refer to CL-35, "Clutch Pedal". "H1"

Replace clutch pedal if the height is outside the reference value.



Clutch Pedal Height When Disengaging The Clutch

- 1. Securely engage the parking brake.
- 2. Turn the floor carpet.
- 3. Start the engine and run at idle.
- 4. Fully depress clutch pedal and shift to the 1st gear.

CAUTION:

Securely depress the brake pedal with shifter lever in 1st gear.

5. Gradually release the clutch pedal and check that the clutch pedal height "H2" from the dash lower panel (1) is within the reference value with a scale immediately before the clutch is engaged.

> Clutch pedal height at : Refer to CL-35, "Clutch Pedclutch disengagement "H2"

NOTE:

Although the clutch pedal height differs according to whether the clutch gets disengaged or engaged, clutch-engaged case is regarded as clutch-disengaged case for easier inspection.

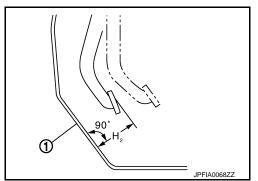
6. Replace clutch pedal if the height is outside the reference value.

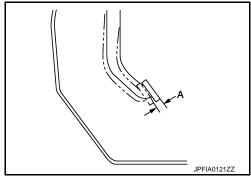
Clutch Pedal Play

1. Push the pedal pad by hand until a resistance can be felt and check that the play "A" on the upper surface of the pedal pad is within the reference value.

Clutch pedal play "A": Refer to CL-35, "Clutch Pedal".

Replace clutch pedal if the play is outside the reference value.





Position of Clutch Interlock Switch (With Push-Button Ignition Switch System)

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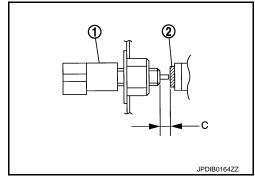
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CLUTCH PEDAL

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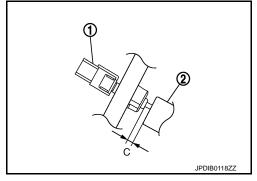
- Check that the clearance "C" between the thread end of clutch interlock switch (1) and stopper rubber (2) is within the specified value while clutch pedal is fully depressed.

Clearance "C": Refer to CL-35, "Clutch Pedal".



- RHD
- Check that the clearance "C" between the thread end of clutch interlock switch (1) and clutch pedal (2) is within the specified value while clutch pedal is fully depressed.

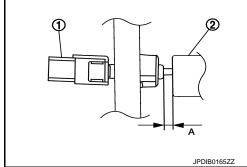
Clearance "C": Refer to CL-35, "Clutch Pedal".



Position of Clutch Pedal Position Switch (With ASCD or With Push-Button Ignition Switch System)

Check that the clearance "A" between the thread end of clutch pedal position switch (1) and clutch pedal (2) is within the specified value while clutch pedal is fully released.

Clearance "A" : Refer to CL-35, "Clutch Pedal".



ADJUSTMENT

Position of Clutch Interlock Switch (With Push-Button Ignition Switch System)

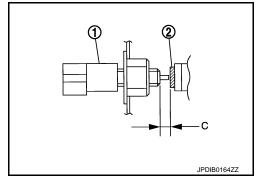
- 1. Disconnect the clutch interlock switch connector.
- 2. Loosen the clutch interlock switch 45 degrees counterclockwise.
- With the clutch pedal fully depressed, press into the clutch interlock switch (1) until it reaches the stopper rubber (2) and turn the switch clockwise by 45 degrees to secure it. (For LHD) CAUTION:

The clearance "C" show in the figure must be within the specified value.

Clearance "C": Refer to CL-35, "Clutch Pedal".

NOTE:

Fully depressed clutch pedal means a clutch pedal condition that the clutch pedal lever contacts the pedal stopper rubber.



CLUTCH PEDAL

< PERIODIC MAINTENANCE >

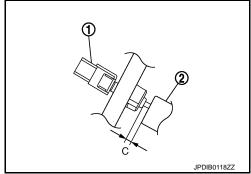
4. With the clutch pedal fully depressed, press into the clutch interlock switch (1) until it reaches the clutch pedal (2) and turn the switch clockwise by 45 degrees to secure it. (For RHD) CAUTION:

The clearance "C" show in the figure must be within the specified value.

Clearance "C" : Refer to CL-35, "Clutch Pedal".

NOTE:

Fully depressed clutch pedal means a clutch pedal condition that the clutch pedal lever contacts the pedal stopper rubber.

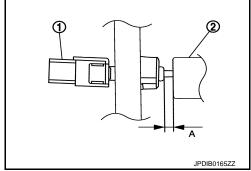


Position of Clutch Pedal Position Switch (With ASCD or With Push-Button Ignition Switch System)

- 1. Disconnect the clutch pedal position switch connector.
- 2. Loosen the clutch pedal position switch 45 degrees counterclockwise.
- Press-fit the clutch pedal position switch (1) until the clutch pedal position switch hits the clutch pedal (2) 45 degrees clockwise while pulling the pedal pad slightly.
 CAUTION:

The clearance "A" show in the figure must be within the specified value.

Clearance "A" : Refer to CL-35, "Clutch Pedal".



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< PERIODIC MAINTENANCE >

CLUTCH FLUID

RS5F92R

RS5F92R: Inspection

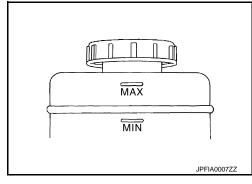
FLUID LEAKAGE

- Check clutch line for cracks, deterioration or other damage. Replace any damaged parts.
- Check for fluid leakage by fully depressing clutch pedal while engine is running.

If leakage occurs around joints, reinstall the joints or, if necessary, replace damaged parts.

FLUID LEVEL

- Check that the fluid level in the reservoir tank is within the specified range (MAX – MIN lines).
- Visually check for any clutch fluid leakage around the reservoir tank.
- Check the clutch system for any leakage if the fluid level is extremely low (lower than MIN).



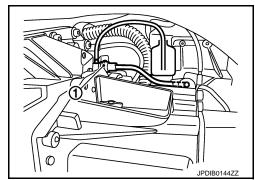
RS5F92R: Draining

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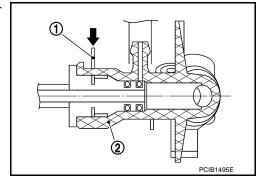
CAUTION:

Keep painted surface on the body or other parts free of clutch fluid. If it spills, wipe up immediately and wash the affected area with water.

1. Connect a transparent vinyl hose to air bleeder of bleeding connector (1).



2. Press the lock pin (1) into the bleeding connector (2), and maintain the position.



< PERIODIC MAINTENANCE >

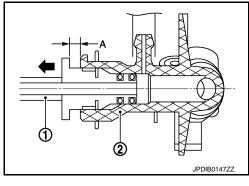
- Slide clutch tube (1) in the direction of the arrow as shown in the figure.
 - 2 : Bleeding connector

Dimension "A" : 5 mm (0.20 in)

4. Depress clutch pedal to gradually discharge clutch fluid. **CAUTION:**

Since the inside of clutch tube is under hydraulic pressure,

hold the tube to prevent it from getting disconnected. RS5F92R: Refilling



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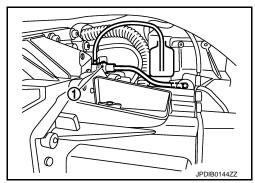
CAUTION:

Keep painted surface on the body or other parts free of clutch fluid. If it spills, wipe up immediately and wash the affected area with water.

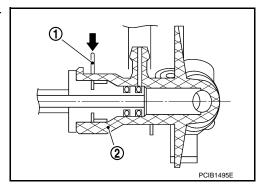
1. Check that there is no foreign material in reservoir tank, and then fill with new clutch fluid. **CAUTION:**

Never reuse drained clutch fluid.

2. Connect a transparent vinyl hose to air bleeder of bleeding con-



3. Press the lock pin (1) into the bleeding connector (2), and maintain the position.



- Slide clutch tube (1) in the direction of the arrow as shown in the figure.
 - 2 : Bleeding connector

Dimension "A" : 5 mm (0.20 in)

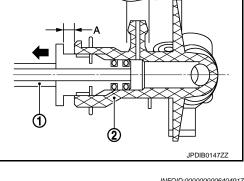
Slowly depress clutch pedal to the full stroke position, and then release the pedal.

CAUTION:

Since the inside of clutch tube is under hydraulic pressure, hold the tube to prevent it from getting disconnected.

Repeat step 5 at intervals of 2 or 3 seconds until new clutch fluid is discharged. **CAUTION:**

Monitor clutch fluid level in reservoir tank so as not to empty the tank.



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< PERIODIC MAINTENANCE >

- 7. Return clutch tube and lock pin in their original positions while clutch pedal is depressed.
- 8. Perform the air bleeding. Refer to CL-12, "RS5F92R: Air Bleeding".

RS5F92R : Air Bleeding

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CAUTION:

- Monitor clutch fluid level in reservoir tank so as not to empty the tank.
- Keep painted surface on the body or other parts free of clutch fluid. If it spills, wipe up immediately and wash the affected area with water.

NOTE:

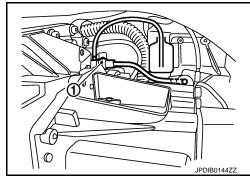
Do not use a vacuum assist or any other type of power bleeder on this system. Use of a vacuum assist or power bleeder will not purge all the air from the system.

Fill reservoir tank with new clutch fluid.

CAUTION:

Never reuse drained clutch fluid.

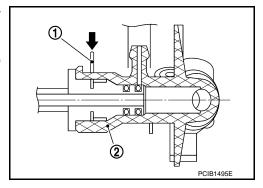
- 2. Connect a transparent vinyl hose to air bleeder of bleeding connector (1).
- 3. "Depress" and "release" the clutch pedal slowly and fully 15 times at an interval of 2 to 3 seconds and release the clutch pedal.



4. Press the lock pin (1) into the bleeding connector (2), and maintain the position.

CAUTION:

Since the inside of clutch tube is under hydraulic pressure, hold the tube to prevent it from getting disconnected.



- 5. Slide clutch tube (1) in the direction of the arrow as shown in the figure.
 - 2 : Bleeding connector

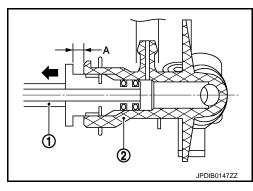
Dimension "A" : 5 mm (0.20 in)

6. Depress the clutch pedal soon and hold it, and then bleed the air from the piping.

CAUTION:

Since the inside of clutch tube is under hydraulic pressure, hold the tube to prevent it from getting disconnected.

- 7. Return clutch tube and lock pin in their original positions.
- 8. Release clutch pedal and wait for 5 seconds.
- 9. Repeat steps 3 to 8 until no bubbles are observed in the clutch fluid.
- 10. Check that the fluid level in the reservoir tank is within the specified range after air bleeding. Refer to <u>CL-10</u>, "RS5F92R: Inspection".



RS6F94R

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RS6F94R: Inspection

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FLUID LEAKAGE

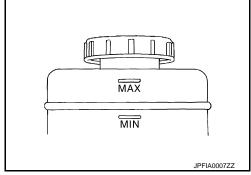
- Check clutch line for cracks, deterioration or other damage. Replace any damaged parts.
- Check for fluid leakage by fully depressing clutch pedal while engine is running.

CAUTION:

If leakage occurs around joints, reinstall the joints or, if necessary, replace damaged parts.

FLUID LEVEL

- Check that the fluid level in the reservoir tank is within the specified range (MAX – MIN lines).
- Visually check for any clutch fluid leakage around the reservoir tank.
- Check the clutch system for any leakage if the fluid level is extremely low (lower than MIN).



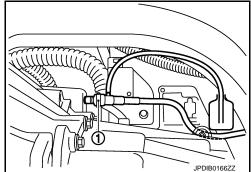
RS6F94R : Draining

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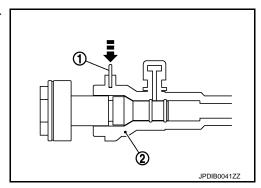
CAUTION:

Keep painted surface on the body or other parts free of clutch fluid. If it spills, wipe up immediately and wash the affected area with water.

1. Connect a transparent vinyl hose to air bleeder of bleeding connector (1).



Press the lock pin (1) into the bleeding connector (2), and maintain the position.



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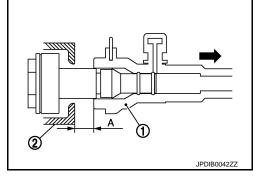
< PERIODIC MAINTENANCE >

- 3. Slide bleeding connector (1) in the direction of the arrow as shown in the figure.
 - 2 : Clutch housing

Dimension "A" : 10 mm (0.39 in)

 Depress clutch pedal to gradually discharge clutch fluid. CAUTION:

Since the inside of clutch tube is under hydraulic pressure, hold the tube to prevent it from getting disconnected.



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RS6F94R: Refilling

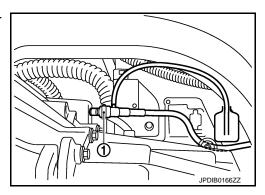
CAUTION:

Keep painted surface on the body or other parts free of clutch fluid. If it spills, wipe up immediately and wash the affected area with water.

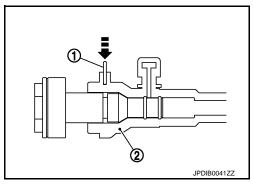
1. Check that there is no foreign material in reservoir tank, and then fill with new clutch fluid. CAUTION:

Never reuse drained clutch fluid.

2. Connect a transparent vinyl hose to air bleeder of bleeding connector (1).



3. Press the lock pin (1) into the bleeding connector (2), and maintain the position.



- 4. Slide bleeding connector (1) in the direction of the arrow as shown in the figure.
 - 2 : Clutch housing

Dimension "A" : 10 mm (0.39 in)

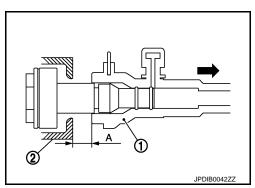
5. Slowly depress clutch pedal to the full stroke position, and then release the pedal.

CAUTION:

Since the inside of clutch tube is under hydraulic pressure, hold the tube to prevent it from getting disconnected.

Repeat step 5 at intervals of 2 or 3 seconds until new clutch fluid is discharged. CAUTION:

Monitor clutch fluid level in reservoir tank so as not to empty the tank.



< PERIODIC MAINTENANCE >

- Return clutch tube and lock pin in their original positions while clutch pedal is depressed.
- Perform the air bleeding. Refer to CL-15, "RS6F94R: Air Bleeding".

RS6F94R : Air Bleeding

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CAUTION:

- Monitor clutch fluid level in reservoir tank so as not to empty the tank.
- Keep painted surface on the body or other parts free of clutch fluid. If it spills, wipe up immediately and wash the affected area with water.

NOTE:

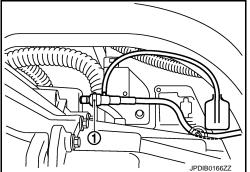
Do not use a vacuum assist or any other type of power bleeder on this system. Use of a vacuum assist or power bleeder will not purge all the air from the system.

Fill reservoir tank with new clutch fluid.

CAUTION:

Never reuse drained clutch fluid.

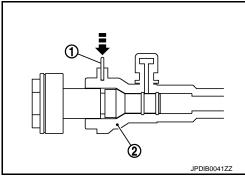
- 2. Connect a transparent vinyl hose to air bleeder of bleeding connector (1).
- "Depress" and "release" the clutch pedal slowly and fully 15 times at an interval of 2 to 3 seconds and release the clutch pedal.



4. Press the lock pin (1) into the bleeding connector (2), and maintain the position.

CAUTION:

Since the inside of clutch tube is under hydraulic pressure, hold the tube to prevent it from getting disconnected.



- Slide bleeding connector (1) in the direction of the arrow as shown in the figure.
 - 2 : Clutch housing

Dimension "A" : 10 mm (0.39 in)

6. Depress the clutch pedal soon and hold it, and then bleed the air from the piping.

CAUTION:

Since the inside of clutch tube is under hydraulic pressure, hold the tube to prevent it from getting disconnected.

- 7. Return clutch tube and lock pin in their original positions.
- 8. Release clutch pedal and wait for 5 seconds.
- 9. Repeat steps 3 to 8 until no bubbles are observed in the clutch fluid.
- 10. Check that the fluid level in the reservoir tank is within the specified range after air bleeding. Refer to CL-13, "RS6F94R: Inspection".

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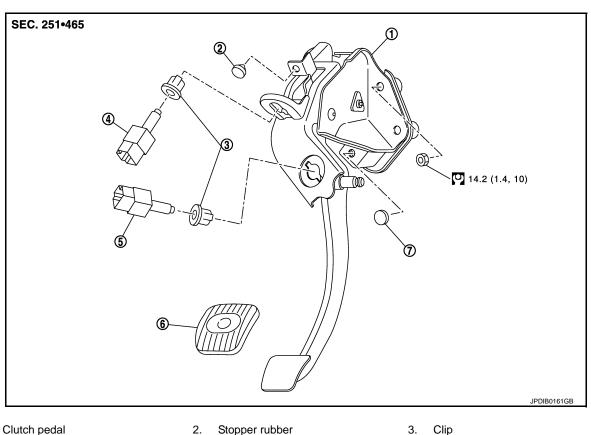
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REMOVAL AND INSTALLATION

CLUTCH PEDAL

LHD

LHD: Exploded View



- Clutch pedal
- Clutch interlock switch *1
- Pedal stopper rubber
- *2: With ASCD or with push-button ignition switch system
- : N·m (kg-m, ft-lb)

LHD: Removal and Installation

*1: With push-button ignition switch system

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Clutch pedal position switch *2

3.

Pedal pad

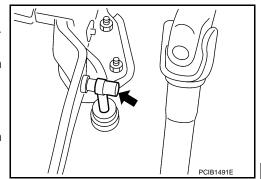
REMOVAL

- Remove instrument lower panel LH. (MR16DDT) Refer to IP-13, "Removal and Installation".
- Disconnect clutch pedal position switch connector. (With ASCD or with push-button ignition switch system)
- 3. Disconnect clutch interlock switch connector. (With push-button ignition switch system)
- Disconnect clip of harness from clutch pedal. (With ASCD or with push-button ignition switch system)

CLUTCH PEDAL

< REMOVAL AND INSTALLATION >

- 5. Remove master cylinder rod end from clutch pedal.
- Remove clutch pedal position switch and clip from clutch pedal. (With ASCD or with push-button ignition switch system)
- 7. Remove clutch interlock switch and clip from clutch pedal. (With push-button ignition switch system)
- 8. Remove clutch pedal from the vehicle.
- 9. Remove pedal pad from clutch pedal.
- 10. Remove stopper rubber and pedal stopper rubber from clutch pedal, using a suitable remover.



INSTALLATION

Note the following, and install in the reverse order of removal.

CAUTION:

Press master cylinder rod end into clutch pedal until it stops.

LHD: Inspection and Adjustment

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INSPECTION AFTER REMOVAL

- Check clutch pedal for bend, damage, or a cracked weld. If bend, damage, or a cracked weld is found, replace clutch pedal.
- Check stopper rubber and pedal stopper rubber. If damage or deformation is found, replace stopper rubber and pedal stopper rubber.
- Check pedal pad. If wear or damage is found, replace pedal pad.

INSPECTION AFTER INSTALLATION

- Check the clutch pedal height, clutch pedal height at clutch disengagement, and clutch pedal play. Refer to <u>CL-7</u>, "Inspection and Adjustment".
- Check the clutch interlock switch position. (With push-button ignition switch system) Refer to <u>CL-7</u>, "Inspection and Adjustment".
- Check the clutch pedal position switch position. (With ASCD or with push-button ignition switch system)
 Refer to CL-7, "Inspection and Adjustment".

ADJUSTMENT AFTER INSTALLATION

- Adjust the clutch interlock switch position. (With push-button ignition switch system) Refer to <u>CL-7</u>, "Inspection and Adjustment".
- Adjust the clutch pedal position switch position. (With ASCD or with push-button ignition switch system)
 Refer to CL-7, "Inspection and Adjustment".

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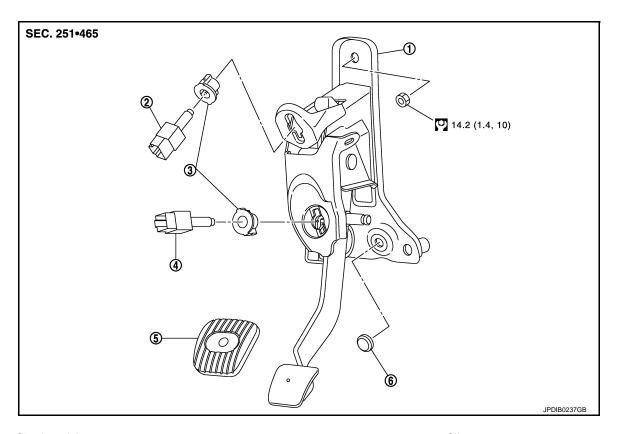
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RHD: Exploded View

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Clutch pedal

- Clutch interlock switch *1
- Pedal pad

- 3. Clip
- Pedal stopper rubber

*1: With push-button ignition switch system

Clutch pedal position switch *2

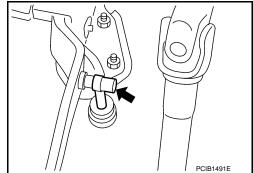
- *2: With ASCD or with push-button ignition switch system
- : N·m (kg-m, ft-lb)

RHD: Removal and Installation

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REMOVAL

- Disconnect clutch pedal position switch connector. (With ASCD or with push-button ignition switch sys-
- 2. Disconnect clutch interlock switch connector. (With push-button ignition switch system)
- 3. Disconnect clip of harness from clutch pedal. (With ASCD or with push-button ignition switch system)
- 4. Remove master cylinder rod end from clutch pedal.
- Remove clutch pedal position switch and clip from clutch pedal. (With ASCD or with push-button ignition switch system)
- 6. Remove clutch interlock switch and clip from clutch pedal. (With push-button ignition switch system)
- 7. Remove clutch pedal from the vehicle.
- 8. Remove pedal pad from clutch pedal.
- Remove pedal stopper rubber from clutch pedal, using a suitable remover.



INSTALLATION

Note the following, and install in the reverse order of removal. **CAUTION:**

CLUTCH PEDAL

< REMOVAL AND INSTALLATION >

Press master cylinder rod end into clutch pedal until it stops.

RHD: Inspection and Adjustment

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INSPECTION AFTER REMOVAL

- Check clutch pedal for bend, damage, or a cracked weld. If bend, damage, or a cracked weld is found, replace clutch pedal.
- Check pedal stopper rubber. If damage or deformation is found, replace pedal stopper rubber.
- Check pedal pad. If wear or damage is found, replace pedal pad.

INSPECTION AFTER INSTALLATION

- Check the clutch pedal height, clutch pedal height at clutch disengagement, and clutch pedal play. Refer to CL-7, "Inspection and Adjustment".
- Check the clutch interlock switch position. (With push-button ignition switch system) Refer to <u>CL-7, "Inspection and Adjustment"</u>.
- Check the clutch pedal position switch position. (With ASCD or with push-button ignition switch system) Refer to <u>CL-7</u>, "Inspection and Adjustment".

ADJUSTMENT AFTER INSTALLATION

- Adjust the clutch interlock switch position. (With push-button ignition switch system) Refer to <u>CL-7</u>, "Inspection and Adjustment".
- Adjust the clutch pedal position switch position. (With ASCD or with push-button ignition switch system) Refer to <u>CL-7</u>, "Inspection and Adjustment".

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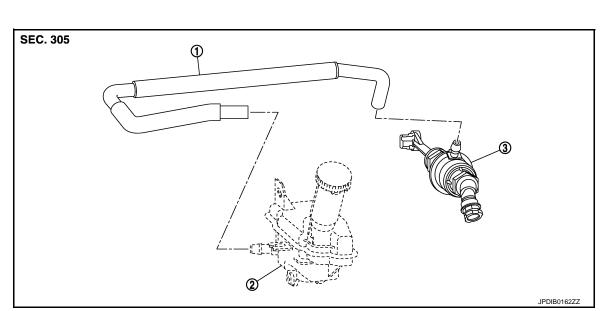
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CLUTCH MASTER CYLINDER

LHD

LHD: Exploded View



1. Reservoir hose 2. Reservoir tank 3. Master cylinder

LHD: Removal and Installation

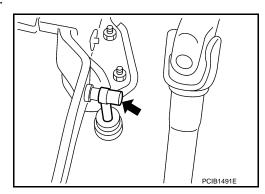
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REMOVAL

CAUTION:

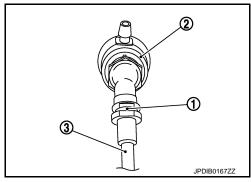
- Keep painted surface on the body or other parts free of clutch fluid. If it spills, wipe up immediately and wash the affected area with water.
- Never disassemble clutch master cylinder.
- 1. Drain clutch fluid. Refer to <u>CL-10, "RS5F92R: Draining"</u> (RS5F92R) or <u>CL-13, "RS6F94R: Draining"</u> (RS6F94R).
- 2. Remove air cleaner case. Refer to <u>EM-26, "Removal and Installation"</u> (MR16DDT), <u>EM-161, "Removal and Installation"</u> (HR16DE), or <u>EM-280, "Removal and Installation"</u> (K9K).
- 3. Remove reservoir hose from reservoir tank and master cylinder.
- Remove master cylinder rod end (←) from clutch pedal.



CLUTCH MASTER CYLINDER

< REMOVAL AND INSTALLATION >

- Pull up the lock pin (1) from connector of master cylinder (2) and separate clutch tube (3).
- 6. Rotate master cylinder clockwise by 45 degrees, and then remove master cylinder from the vehicle.



B

INSTALLATION

CAUTION:

Keep painted surface on the body or other parts free of clutch fluid. If it spills, wipe up immediately and wash the affected area with water.

- Tilt master cylinder clockwise by 45 degrees (A) and insert it to the mounting hole. Rotate counterclockwise and secure it. At this time, nipple (1) is upward of the vehicle.
 - : Mounting condition
- 2. Install master cylinder rod end to clutch pedal.

CAUTION:

Press master cylinder rod end into clutch pedal until it stops.

3. Install reservoir hose to reservoir tank and master cylinder. **CAUTION:**

Set reservoir hose with painted mark facing upward.

- 4. Press down the lock pin into connector of master cylinder until it stops.
- Install clutch tube into connector of master cylinder until it stops.
- For the next step and after, install in the reverse order of removal.

LHD: Inspection and Adjustment

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INSPECTION AFTER INSTALLATION

- Check the fluid leakage and the fluid level. Refer to CL-10, "RS5F92R: Inspection" (RS5F92R) or CL-13, "RS6F94R: Inspection" (RS6F94R).
- Check the clutch pedal height, clutch pedal height at clutch disengagement, and clutch pedal play. Refer to CL-7, "Inspection and Adjustment".
- Check the clutch interlock switch position. (With push-button ignition switch system) Refer to CL-7, "Inspection and Adjustment".
- Check the clutch pedal position switch position. (With ASCD or with push-button ignition switch system) Refer to CL-7, "Inspection and Adjustment".

ADJUSTMENT AFTER INSTALLATION

- Adjust the clutch interlock switch position. (With push-button ignition switch system) Refer to CL-7, "Inspection and Adjustment".
- Adjust the clutch pedal position switch position. (With ASCD or with push-button ignition switch system) Refer to CL-7, "Inspection and Adjustment".
- Perform the air bleeding. Refer to CL-12, "RS5F92R: Air Bleeding" (RS5F92R) or CL-15, "RS6F94R: Air Bleeding" (RS6F94R).

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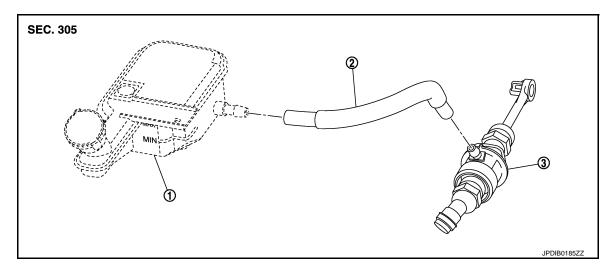
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RHD: Exploded View

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1. Reservoir tank

Reservoir hose

Master cylinder

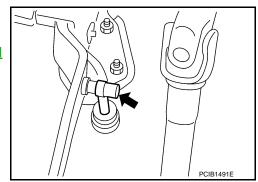
RHD: Removal and Installation

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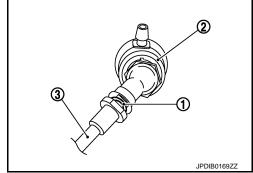
REMOVAL

CAUTION:

- Keep painted surface on the body or other parts free of clutch fluid. If it spills, wipe up immediately and wash the affected area with water.
- Never disassemble clutch master cylinder.
- 1. Drain clutch fluid. Refer to <u>CL-10, "RS5F92R: Draining"</u> (RS5F92R) or <u>CL-13, "RS6F94R: Draining"</u> (RS6F94R).
- 2. Move the fuel feed tube and the fuel return hose aside not to interfere with work. (K9K)
- 3. Remove reservoir hose from reservoir tank and master cylinder.
- 4. Remove master cylinder rod end (←) from clutch pedal.
- 5. Remove the engine room insulator.
- Remove the cowl top extension. Refer to <u>EXT-20</u>, "<u>Removal and Installation</u>".



- 7. Pull up the lock pin (1) from connector of master cylinder (2) and separate clutch tube (3).
- 8. Rotate master cylinder clockwise by 45 degrees, and then remove master cylinder from the vehicle.



INSTALLATION CAUTION:

CLUTCH MASTER CYLINDER

< REMOVAL AND INSTALLATION >

Keep painted surface on the body or other parts free of clutch fluid. If it spills, wipe up immediately and wash the affected area with water.

- Tilt master cylinder clockwise by 45 degrees (A) and insert it to the mounting hole. Rotate counterclockwise and secure it. At this time, nipple (1) is upward of the vehicle.
 - B : Mounting condition
- Install master cylinder rod end to clutch pedal.

CAUTION:

Press master cylinder rod end into clutch pedal until it stops.

- 3. Install reservoir hose to reservoir tank and master cylinder.
- Press down the lock pin into connector of master cylinder until it stops.
- 5. Install clutch tube into connector of master cylinder until it stops.
- 6. Install the fuel feed tube and the fuel return hose. (K9K)
- 7. Fill with clutch fluid. Refer to <u>CL-11, "RS5F92R : Refilling"</u> (RS5F92R) or <u>CL-14, "RS6F94R : Refilling"</u> (RS6F94R).
- 8. Install the engine room insulator.
- 9. Install the cowl top extension. Refer to EXT-20, "Removal and Installation".

RHD: Inspection and Adjustment

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INSPECTION AFTER INSTALLATION

- Check the fluid leakage and the fluid level. Refer to <u>CL-10, "RS5F92R: Inspection"</u> (RS5F92R) or <u>CL-13, "RS6F94R: Inspection"</u> (RS6F94R).
- Check the clutch pedal height, clutch pedal height at clutch disengagement, and clutch pedal play. Refer to CL-7, "Inspection and Adjustment".
- Check the clutch interlock switch position. (With push-button ignition switch system) Refer to <u>CL-7</u>, "Inspection and Adjustment".
- Check the clutch pedal position switch position. (With ASCD or with push-button ignition switch system) Refer to <u>CL-7</u>, "Inspection and Adjustment".

ADJUSTMENT AFTER INSTALLATION

- Adjust the clutch interlock switch position. (With push-button ignition switch system) Refer to <u>CL-7</u>, "Inspection and Adjustment".
- Adjust the clutch pedal position switch position. (With ASCD or with push-button ignition switch system) Refer to <u>CL-7</u>, "<u>Inspection and Adjustment"</u>.
- Perform the air bleeding. Refer to <u>CL-12, "RS5F92R: Air Bleeding"</u> (RS5F92R) or <u>CL-15, "RS6F94R: Air Bleeding"</u> (RS6F94R).

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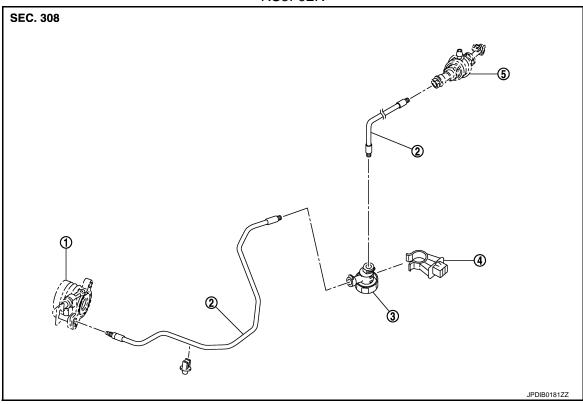
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CLUTCH PIPING

Exploded View

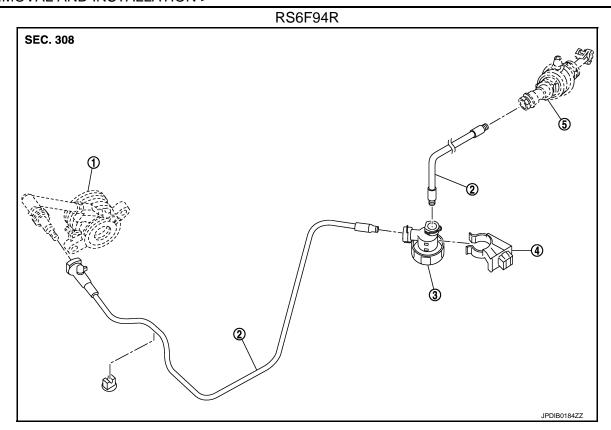
RS5F92R



- 1. CSC (Concentric Slave Cylinder)
- 4. Bracket

- 2. Clutch tube
- 5. Master cylinder

3. Clutch damper

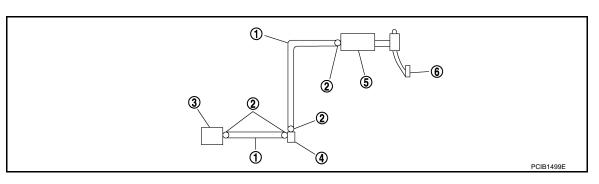


- 1. CSC (Concentric Slave Cylinder)
- 4. Bracket

- 2. Clutch tube
- 5. Master cylinder

Clutch damper

Hydraulic Layout



- 1. Clutch tube
- 4. Clutch damper

- 2. Lock pin
- 5. Master cylinder

- B. CSC (Concentric Slave Cylinder)
- 6. Clutch pedal

Removal and Installation

CAUTION:

Keep painted surface on the body or other parts free of clutch fluid. If it spills, wipe up immediately and wash the affected area with water.

REMOVAL

Note the following, and refer to <u>CL-24</u>, "Exploded View" for removal procedure.

- Drain clutch fluid. Refer to CL-10, "RS5F92R: Draining" (RS5F92R) or CL-13, "RS6F94R: Draining" (RS6F94R).
- Press the lock pin into the bleeding connector of the CSC, and then remove clutch tube from CSC.
- Pull the lock pins from the connectors of the clutch damper until the pins stop, and then remove clutch tubes from clutch damper.

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CLUTCH PIPING

< REMOVAL AND INSTALLATION >

• Pull the lock pin from the connector of the clutch master cylinder until the pin stop, and then remove clutch tube from clutch master cylinder.

INSTALLATION

Note the following, and refer to <u>CL-24</u>. "Exploded View" for installation procedure.

CAUTION:

Never damage clutch tube.

- Insert each clutch tube into the CSC bleeding connector, the clutch damper connector, and the clutch master cylinder connector until it contacts the end of each connector.
- Install each lock pin into the clutch damper connector and the clutch master cylinder connector until it contacts the end of each connector.

Inspection and Adjustment

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INSPECTION AFTER REMOVAL

- Check the clutch tube for cracks and damage. If the clutch tube has cracks or damage, replace it with a new one.
- Check the O-ring of the clutch tube for cracks and damage. If the O-ring of the clutch tube has cracks or damage, replace clutch tube with a new one.
- Check the clutch damper for cracks and damage. If the clutch damper has cracks or damage, replace it with a new one.

INSPECTION AFTER INSTALLATION

- Check the fluid leakage and the fluid level. Refer to <u>CL-10, "RS5F92R: Inspection"</u> (RS5F92R) or <u>CL-13, "RS6F94R: Inspection"</u> (RS6F94R).
- Check the clutch pedal height, clutch pedal height at clutch disengagement, and clutch pedal play. Refer to <u>CL-7</u>, "Inspection and Adjustment".

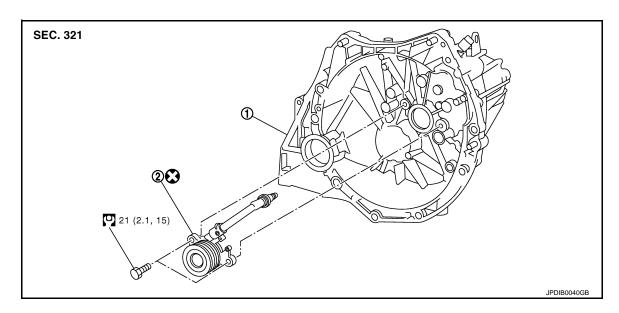
ADJUSTMENT AFTER INSTALLATION

Perform the air bleeding. Refer to <u>CL-12, "RS5F92R: Air Bleeding"</u> (RS5F92R) or <u>CL-15, "RS6F94R: Air Bleeding"</u> (RS6F94R).

UNIT REMOVAL AND INSTALLATION

CSC (CONCENTRIC SLAVE CYLINDER)

Exploded View



- 1. Transaxle assembly
- 2. CSC (Concentric Slave Cylinder)
- : Always replace after every disassembly.
- : N·m (kg-m, ft-lb)

Removal and Installation

CAUTION:

- Never reuse CSC (Concentric Slave Cylinder). Because CSC slides back to the original position every time when removing transaxle assembly. At this timing, dust on the sliding parts may damage a seal of CSC and may cause clutch fluid leakage.
- Never disassemble CSC.
- Keep painted surface on the body or other parts free of clutch fluid. If it spills, wipe up immediately and wash the affected area with water.

REMOVAL

- 1. Remove transaxle assembly. Refer to <u>TM-30</u>, "<u>Removal and Installation</u>" (RS5F92R), or <u>TM-84</u>, "<u>MR16DDT</u>: Removal and Installation" (RS6F94R with MR16DDT), <u>TM-86</u>, "<u>K9K</u>: Removal and Installation" (RS6F94R with K9K).
- 2. Remove CSC from clutch housing.

INSTALLATION

- 1. Install CSC to clutch housing, and then tighten CSC mounting bolts to the specified torque. **CAUTION:**
 - Never reuse CSC.
 - Never insert and operate CSC because piston and stopper of CSC components may fall off.
- 2. For the next step and after, install in the reverse order of removal.

Inspection and Adjustment

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INSPECTION AFTER INSTALLATION

Check the fluid leakage and the fluid level. Refer to <u>CL-10, "RS5F92R : Inspection"</u> (RS5F92R) or <u>CL-13, "RS6F94R : Inspection"</u> (RS6F94R).

ADJUSTMENT AFTER INSTALLATION

CSC (CONCENTRIC SLAVE CYLINDER)

< UNIT REMOVAL AND INSTALLATION >

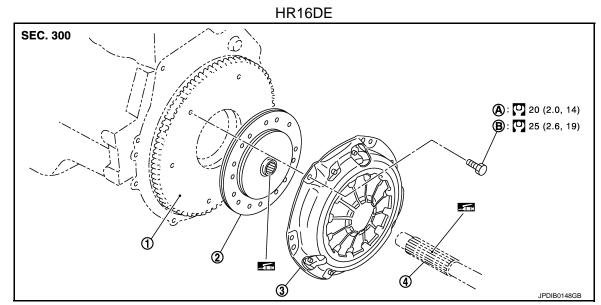
Perform the air bleeding. Refer to <u>CL-12, "RS5F92R: Air Bleeding"</u> (RS5F92R) or <u>CL-15, "RS6F94R: Air Bleeding"</u> (RS6F94R).

< UNIT REMOVAL AND INSTALLATION >

CLUTCH DISC AND CLUTCH COVER EXCEPT FOR K9K

EXCEPT FOR K9K: Exploded View

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- Flywheel
- Input shaft
- First step

Clutch disc

- B. Final step

: N·m (kg-m, ft-lb)

: Apply lithium-based grease including molybdenum disulphide.

SEC. 300 **(A)**: 15 (1.5, 11) **B**: 25 (2.6, 19)

MR16DDT

- Flywheel
- Input shaft
- First step

- Clutch disc
- B. Final step
- : N·m (kg-m, ft-lb)

: Apply lithium-based grease including molybdenum disulphide.

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< UNIT REMOVAL AND INSTALLATION >

EXCEPT FOR K9K: Removal and Installation

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CAUTION:

- Never reuse CSC (Concentric Slave Cylinder). Because CSC slides back to the original position every time when removing transaxle assembly. At this timing, dust on the sliding parts may damage a seal of CSC and may cause clutch fluid leakage. Refer to <u>CL-27</u>, "Removal and Installation".
- Never bring any grease to the clutch disc facing, pressure plate surface and flywheel surface.
- Never clean clutch disc using solvent.

REMOVAL

- 1. Remove transaxle assembly. Refer to <u>TM-30, "Removal and Installation"</u> (RS5F92R), or <u>TM-84, "MR16DDT: Removal and Installation"</u> (RS6F94R).
- 2. Remove clutch cover mounting bolts while holding clutch cover.

CAUTION:

Never drop clutch disc.

Remove clutch cover and clutch disc.

CAUTION:

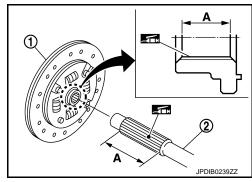
Never drop clutch disc.

INSTALLATION

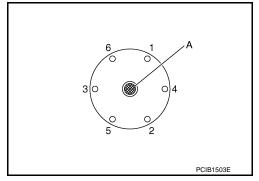
- 1. Clean clutch disc and input shaft splines to remove grease and powder arisen from abrasion.
- 2. Apply recommended grease to clutch disc (1) and input shaft (2) splines (A).

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 judder. And if it adheres to seal of CSC, it cause clutch fluid leakage. Wipe out excess grease. Wipe out any grease oozing from the parts.



- Install clutch disc, using a clutch aligner (A) [Commercial service tool].
- 4. Install clutch cover, and then temporarily tighten clutch cover mounting bolts.
- 5. Tighten clutch cover mounting bolts to the specified torque evenly in two steps in the numerical order as shown in the figure.
- 6. For the next step and after, install in the reverse order of removal.



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EXCEPT FOR K9K : Inspection

INSPECTION AFTER REMOVAL

Clutch Disc

CL-30

< UNIT REMOVAL AND INSTALLATION >

• Measure circumferential runout relative to clutch disc center spline. If it is outside the specification, replace clutch disc.

Runout limit/diameter of the area : I to be measured "C

: Refer to <u>CL-35</u>, "Clutch Disc".

 Measure backlash to clutch disc spline and main drive gear spline at the circumference of clutch disc. If it is outside the specification, replace clutch disc.

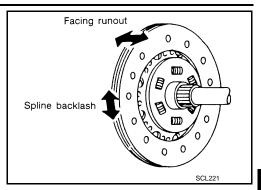
> Maximum allowable spline backlash (at outer edge of disc)

: Refer to <u>CL-35</u>, "Clutch Disc".

 Measure the depth "A" to clutch disc facing rivet heads, using a calipers. If it exceeds the allowable wear limit, replace clutch disc.

Facing wear limit (depth to the rivet head) "A"

: Refer to <u>CL-35,</u> "Clutch Disc".



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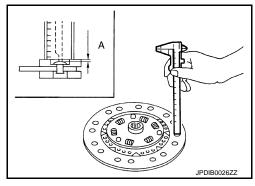
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Clutch Cover

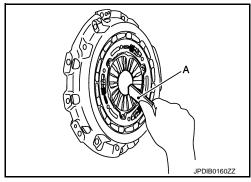
- Check clutch cover thrust ring for wear or breakage. If wear or breakage is found, replace clutch cover.
 NOTE:
 - Worn thrust ring will generate a beating noise when tapped at the rivet with a hammer.
 - Broken thrust ring will make a clinking sound when cover is shaken up and down.
- If a trace of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

INSPECTION AFTER INSTALLATION

Clutch Cover

Check diaphragm spring lever claws for unevenness with the lever still on the vehicle. If they exceed the tolerance, adjust lever height, using the diaphragm adjusting wrench (A) [SST: ST20050240].

Tolerance for diaphragm spring : Refer to <u>CL-36</u>, lever unevenness "Clutch Cover".



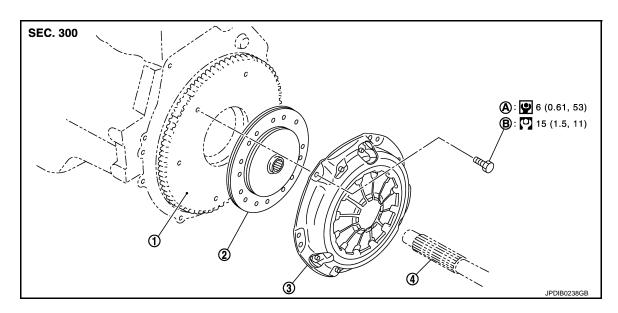
K9K

< UNIT REMOVAL AND INSTALLATION >

K9K: Exploded View

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- 1. Flywheel
- 4. Input shaft
- A. First step
- ——
- : N·m (kg-m, ft-lb)
 : N·m (kg-m, in-lb)

- 2. Clutch disc
- B. Final step

Clutch cover

K9K: Removal and Installation

CAUTION:

- Never reuse CSC (Concentric Slave Cylinder). Because CSC slides back to the original position
 every time when removing transaxle assembly. At this timing, dust on the sliding parts may damage
 a seal of CSC and may cause clutch fluid leakage. Refer to CL-27, "Removal and Installation".
- Never bring any grease to the clutch disc facing, pressure plate surface and flywheel surface.
- Never clean clutch disc using solvent.

REMOVAL

- Remove transaxle assembly. Refer to <u>TM-86, "K9K: Removal and Installation"</u>.
- Remove clutch cover mounting bolts while holding clutch cover.

CAUTION:

Never drop clutch disc.

3. Remove clutch cover and clutch disc.

CAUTION:

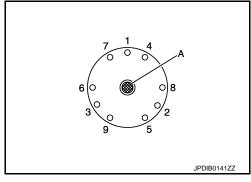
Never drop clutch disc.

INSTALLATION

1. Clean clutch disc and input shaft splines to remove powder arisen from abrasion.

< UNIT REMOVAL AND INSTALLATION >

- Install clutch disc, using a clutch aligner (A) [Commercial service
- 3. Install clutch cover, and then temporarily tighten clutch cover mounting bolts.
- 4. Tighten clutch cover mounting bolts to the specified torque evenly in two steps in the numerical order as shown in the fig-
- 5. For the next step and after, install in the reverse order of removal.



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INSPECTION AFTER REMOVAL

Clutch Disc

K9K: Inspection

 Measure circumferential runout relative to clutch disc center spline. If it is outside the specification, replace clutch disc.

> Runout limit/diameter of the area to be measured

: Refer to CL-35. "Clutch Disc".

 Measure backlash to clutch disc spline and main drive gear spline at the circumference of clutch disc. If it is outside the specification, replace clutch disc.

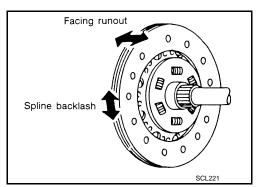
> Maximum allowable spline backlash (at outer edge of disc)

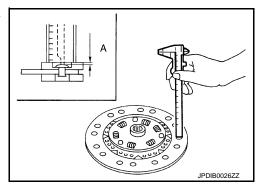
: Refer to CL-35, "Clutch Disc".

 Measure the depth "A" to clutch disc facing rivet heads, using a calipers. If it exceeds the allowable wear limit, replace clutch disc.

> Facing wear limit (depth to the rivet head) "A"

: Refer to CL-35, "Clutch Disc".





Clutch Cover

- Check clutch cover thrust ring for wear or breakage. If wear or breakage is found, replace clutch cover.
 - Worn thrust ring will generate a beating noise when tapped at the rivet with a hammer.
 - 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 the clutch cover pressure plate to clutch disc contact surface. repair the surface with sandpaper. If surface is damaged or distorted, replace clutch cover.

INSPECTION AFTER INSTALLATION

Clutch Cover

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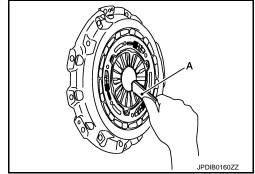
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CL-33

< UNIT REMOVAL AND INSTALLATION >

Check diaphragm spring lever claws for unevenness with the lever still on the vehicle. If they exceed the tolerance, adjust lever height, using the diaphragm adjusting wrench (A) [SST: ST20050240].

Tolerance for diaphragm spring : Refer to <u>CL-36</u>, lever unevenness <u>"Clutch Cover"</u>.



SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

General Specifications

Clutch Pedal

INFOID:0000000006404952

Unit: mm (in)

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Engine type		HR16DE	MR16DDT	K9K			
Transaxle ty	ре	RS5F92R	RS6F94R				
Type of cluto	ch control		Hydraulic				
Clutch disc	Facing size (Outer dia. × Inner dia. × Thickness)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
Recommend	ded clutch fluid	Refer to MA-13, "Fluids and Lubricants".					

INFOID:0000000006404953

Unit: mm (in)

Engine type	HR1	6DE	MR1	MR16DDT		9K		
Transaxle type	RS5	F92R		RS6	F94R			
Handle	LHD	RHD	LHD	RHD	LHD	RHD		
Clutch pedal height	162.9 – 172.9 (6.41 – 6.81)	168.1 – 178.1 (6.62 – 7.01)	169.7 – 179.7 (6.68 – 7.07)	178.2 – 188.2 (7.02 – 7.41)	169.7 – 179.7 (6.68 – 7.07)	178.2 – 188.2 (7.02 – 7.41)		
Clutch pedal height at clutch disengagement	80 (3.15) or more	90 (3.54) or more	80 (3.15) or more	90 (3.54) or more	80 (3.15) or more	90 (3.54) or more		
Clutch pedal play [Looseness at clutch pedal pin]	2 - 8 (0.08 - 0.31) [0 - 1.3 (0 - 0.051)]							
Clearance between stopper rubber and clutch interlock switch threaded end while clutch pedal is fully depressed. (For LHD) *1								
Clearance between clutch pedal and clutch interlock switch threaded end while clutch pedal is fully depressed. (For RHD) *1	0.74 – 1.96 (0.0291 – 0.0772)							
Clearance between clutch pedal and clutch pedal position switch threaded end while clutch pedal is fully released.*2	0.74 – 1.96 (0.0291 – 0.0772)							

^{*1 :} With push-button ignition switch system

Clutch Disc

Unit: mm (in)

Engine type	HR16DE	MR16DDT	K9K	
Transaxle type	RS5F92R	RS6	F94R	
Runout limit/diameter of the area to be measured	1.0 (0.039) / 205 (8.07) dia.	1.0 (0.039) / 220 (8.66) dia.	1.0 (0.039) / 215 (8.46) dia.	
Maximum allowable spline backlash (at outer edge of disc)	0.9 (0	0.035)	0.507 (0.0200)	
Facing wear limit (depth to the rivet head)	0.3 (0.012)	0.35 (0.0138)	1.0 (0.039)	

CL-35

^{*2:} With ASCD or with push-button ignition switch system

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

Clutch Cover

Unit: mm (in)

Engine type	HR16DE	MR16DDT	K9K		
Transaxle type	RS5F92R	RS6F94R			
Tolerance for diaphragm spring lever unevenness	0.7 (0.02	1.2 (0.047) or less			