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PRECAUTIONS

PRECAUTIONS PFP:00001

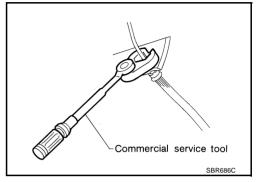
Service Notice or Precaution

NCS000JO

- Recommended fluid is brake fluid "DOT 3". Refer to MA-10, "RECOMMENDED FLUIDS AND LUBRI-CANTS".
- Never reuse drained brake fluid.
- Be careful not to splash brake fluid on painted areas.
- When removing and installing clutch piping, use Tool.
- Use new brake fluid to clean or wash all parts of master cylinder and operating cylinder.
- Never 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

REPARATION		PFP:00002
ecial Service Tools		NCS000JF
actual shapes of Kent-Moore tools may	differ from those of special service tool	s illustrated here.
ool number Kent-Moore No.) ool name		Description
CV30101400		Installing release bearing
—) Drift I: 51 mm (2.01 in) dia. I: 44 mm (1.73 in) dia.	a b	
T20050240	ZZA0838D	Adjusting unevenness of diaphragm spring of
—)		clutch cover
liaphragm adjusting wrench		
	ZZA0508D	
T20670000		Installing clutch disc
—) Clutch aligning bar I: 15 mm (0.59 in) dia. I: 23 mm (0.91 in) dia.	J.b	
ommercial Service Tools	2 ZZA1178D	NCS000JI
ool name		Description
Pin punch Tip diameter: 4.5 mm (0.177 in) dia.		Removing and installing master cylinder spring pin
	ZZA0515D	
. Flare nut crowfoot a: 10 mm (0.39 in)		Removing and installing clutch piping
. Torque wrench		
	S-NT360	Loopaning halts and suts
Power tool		Loosening bolts and nuts

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING NVH Troubleshooting Chart

PFP:00003

NCS000JR

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 pa	ge	<u>CL-5</u>	CL-7	<u>CL-9</u>	CL-11	EM-140	CL-14	<u>CL-16</u>	CL-16	CL-16	<u>CL-16</u>	CL-16	<u>CL-16</u>	CL-16	CL-16	<u>CL-16</u>	CL-16	CL-16	EM-179
SUSPECTED	PARTS (Possible cause)	CLUTCH PEDAL (Inspection and adjustment)	CLUTCH LINE (Air in line)	MASTER CYLINDER PISTON CUP (Damaged)	OPERATING CYLINDER PISTON CUP (Damaged)	ENGINE MOUNTING (Loose)	RELEASE BEARING (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)
	Clutch grabs/chatters					1			2			2	2	2			2		
	Clutch pedal spongy		1	2	2														
Symptom	Clutch noisy						1												
	Clutch slips	1										2	2			3		4	5
	Clutch does not disengage	1	2	3	4			5	5	5	5	5			5	6	6	7	

CLUTCH PEDAL

CLUTCH PEDAL PFP:46540

On-Vehicle Inspection and Adjustment

 Check to see if clevis pin floats freely in the bore of clutch pedal. It should not be bound by clevis or clutch pedal.

- a. If clevis pin is not free, check that ASCD clutch switch is not applying pressure to clutch pedal causing clevis pin to bind. To adjust, loosen lock nut and turn ASCD clutch switch.
- b. Tighten lock nut.
- Verify that clevis pin floats in the bore of clutch pedal. It should not be bound by clutch pedal.
- d. If clevis pin is still not free, remove clevis pin and check for deformation or damage. Replace clevis pin if necessary. Leave pin removed for step 2.



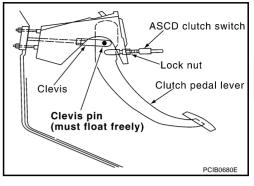
- a. With clevis pin removed, manually move clutch pedal up and down to determine if it moves freely.
- b. If any sticking is noted, replace the related parts (clutch pedal bracket, assist spring, bushing etc.) Reassemble clutch pedal and re-verify that clevis pin floats freely in the bore of clutch pedal.
- 3. Adjust clearance "C" while depressing clutch pedal fully.(With clutch interlock switch)

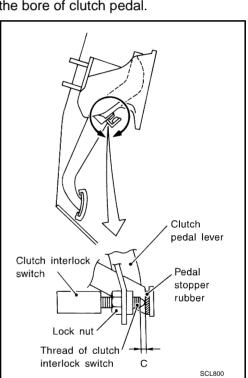
Clearance C : 0.1 - 1.0 mm (0.004 - 0.039 in)

- 4. Check clutch hydraulic and system components (clutch master cylinder, clutch operating cylinder, clutch withdrawal lever, clutch release bearing, etc.) for sticking or binding.
- a. If any sticking or binding noted, repair or replace related parts as necessary.
- b. If hydraulic system repair was necessary, bleed the clutch hydraulic system. Refer to <u>CL-7</u>, "<u>Bleeding</u>".

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.





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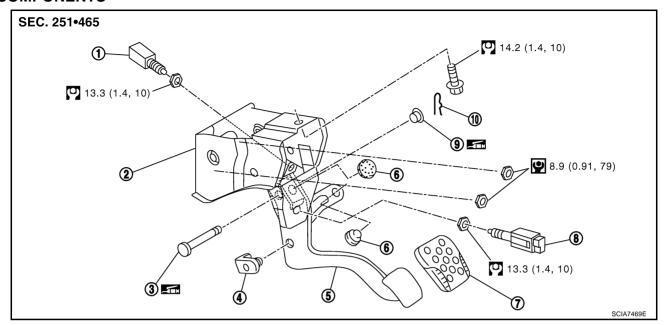
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Removal and Installation COMPONENTS

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- 1. Clutch interlock switch
- 4. Pedal stopper rubber
- 7. Pedal pad
- 10. Snap pin

- 2. Bracket
- 5. Clutch pedal
- 8. ASCD clutch switch
- 3. Clevis pin
- 6. Stopper rubber
- 9. Bushing

Refer to GI-10, "Components", and the followings for the symbols in the figure.

Apply lithium-based grease including molybdenum disulphide.

REMOVAL

- 1. Remove kicking plate. Refer to EI-39, "Removal and Installation".
- 2. Remove foot-rest. Refer to EI-43, "Removal and Installation" .
- 3. Remove dash side finisher. Refer to El-39, "Removal and Installation".
- 4. Remove instrument lower driver panel. Refer to IP-11, "Removal and Installation".
- 5. Remove VDC/TCS/ABS control unit. Refer to BRC-60, "Removal and Installation".
- 6. Remove clutch interlock switch and ASCD clutch switch connector and harness.
- 7. Remove snap pin and clevis pin.
- 8. Remove pedal bracket mounting bolt and nuts and then remove clutch pedal assembly.

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 assembly.

INSTALLATION

To install, reverse the removal procedure, following the cautions below:

- Install clutch pedal assembly and adjust the pedal height. Tighten ASCD clutch switch lock nut to the specified torque.
- After installing clutch interlock switch, adjust the switch position.

NOTE:

Tighten ASCD clutch switch lock nut to the specified torque after installing clutch pedal assembly in vehicle and adjusting the pedal free play.

CLUTCH FLUID

CLUTCH FLUID PFP:00017

Bleeding

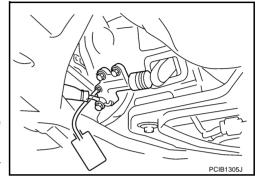
CAUTION:

- Monitor fluid level in reservoir tank to make sure it does not empty.
- 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.

- 1. Fill master cylinder reservoir tank with new clutch fluid.
- 2. Connect a transparent vinyl hose to air bleeder.
- 3. Depress clutch pedal quickly and fully a few times and hold it.
- 4. With clutch pedal depressed, open air bleeder.
- 5. Close air bleeder.
- 6. Release clutch pedal and wait for 5 seconds.
- 7. Repeat steps 3 to 6 until no bubbles can be observed in brake fluid.
- Tighten air bleeder to the specified torque. Refer to <u>CL-11</u>, "Components".



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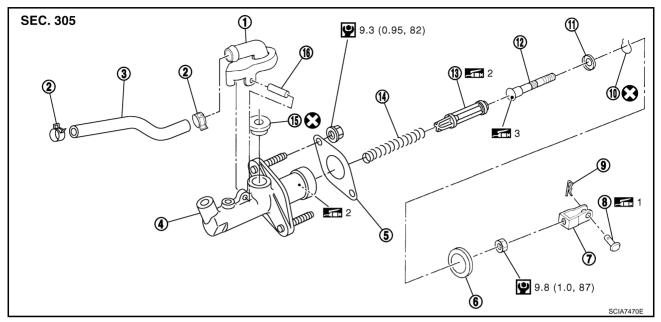
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CLUTCH MASTER CYLINDER

CLUTCH MASTER CYLINDER

PFP:30610

Components



- 1. Nipple
- 4. Cylinder body
- 7. Clevis
- 10. Stopper ring
- 13. Piston assembly
- 16. Spring pin

- 2. Clamp
- Packing
- 8. Clevis pin
- 11. Stopper
- 14. Return spring

- 3. Reservoir hose
- 6. Seat
- 9. Snap pin
- 12. Push rod
- 15. Reservoir seal

ro. Spring pin

Refer to GI-10, "Components", and the followings for the symbols in the figure.

1: Apply lithium-based grease including molybdenum disulphide.

2: Apply rubber lubricant.
3: Apply silicone grease.

Removal and Installation REMOVAL

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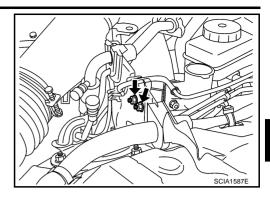
- 1. Remove kicking plate. Refer to EI-39, "Removal and Installation".
- 2. Remove foot-rest. Refer to EI-43, "Removal and Installation".
- 3. Remove dash side finisher. Refer to EI-39, "Removal and Installation".
- 4. Remove instrument lower driver panel. Refer to IP-11, "Removal and Installation".
- 5. Remove VDC/TCS/ABS control unit. Refer to BRC-60, "Removal and Installation".
- 6. Remove snap pin and clevis pin from clevis, and separate it from clutch pedal.
- 7. Remove hoodledge cover.
- 8. Drain clutch fluid in reservoir tank and remove reservoir hose.

CAUTION

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

CLUTCH MASTER CYLINDER

- Remove reservoir tank.
- 10. Remove clutch tube using a flare nut wrench.
- 11. Remove master cylinder assembly.



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INSTALLATION

Check position of clevis and push rod. If measurement is outside the standard length, adjust position of clevis and push rod.

Length "L": 110.5 mm (4.35 in)

- 2. Connect clutch tube to master cylinder assembly and temporarily tighten flare nut.
- Install master cylinder assembly and tighten mounting nuts to the specified torque. Refer to CL-8, "Components" .
- Tighten clutch tube flare nut to the specified torque using a flare nut torque wrench. Refer to CL-13, "Removal and Installation".
- Install clevis to clutch pedal, and fix clevis with clevis pin.
- Install snap pin to clevis pin.
- Install reservoir hose to nipple. Install reservoir tank to vehicle, and then tighten mounting nuts to the specified torque.

2: 5.8 N·m (0.59 Kg-m, 51 in-lb)

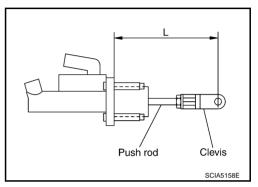
- After completing this procedure, inspect and adjust for clutch pedal and then bleed clutch hydraulic system. Refer to CL-5, "On-Vehicle Inspection and Adjustment" and CL-7, "Bleeding".
- 9. Install hoodledge cover.
- 10. Install VDC/TCS/ABS control unit. Refer to BRC-60, "Removal and Installation".
- 11. Install instrument lower driver panel. Refer to IP-11, "Removal and Installation".
- 12. Install dash side finisher. Refer to EI-39, "Removal and Installation".
- 13. Install foot-rest. Refer to EI-43, "Removal and Installation".
- 14. Install kicking plate. Refer to EI-39, "Removal and Installation".

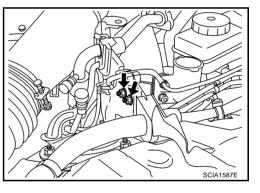
Disassembly and Assembly DISASSEMBLY

- 1. Remove spring pin, nipple and reservoir seal from cylinder body using a pin punch.
- 2. Loosen push rod lock nut. Remove clevis and lock nut.
- Remove seat from cylinder body. 3.
- Remove stopper ring and stopper, then remove push rod, piston assembly, and return spring from cylinder body.

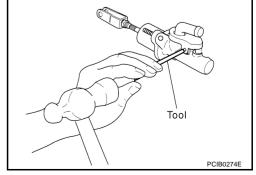
CAUTION:

Restrain push rod while doing this because there is a danger piston assembly will fly out of cylinder body.





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CLUTCH MASTER CYLINDER

INSPECTION AFTER DISASSEMBLY

Check for any of the conditions shown below. If any malfunction is found, replace the part concerned.

- Damaged cylinder internal wall, foreign matter, wear, corrosion, or pin hole
- Damaged or deformed nipple or reservoir tank
- Settling of the spring
- Cracked and deformed seat

ASSEMBLY

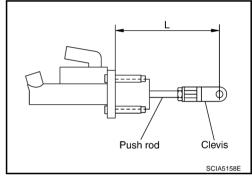
- 1. Apply rubber lubricant to internal surface of cylinder body, sliding surface of piston assembly, and piston cup. Insert return spring and piston assembly to cylinder body.
- 2. Apply silicone grease to push rod and install stopper before installing stopper ring.

CAUTION

Restrain push rod while doing this because there is a danger piston assembly will fly out of master cylinder.

- 3. Install seat to cylinder body.
- 4. Install clevis to push rod and tighten lock nut to the specified torque. Refer to CL-8, "Components".
- 5. Install reservoir seal and nipple to cylinder body. Install spring pin using a pin punch.
- 6. Check and adjust the positions of clevis and push rod. After adjusting "L", tighten lock nut to the specified torque. Refer to CL-8, "Components".

Length "L": 110.5 mm (4.35 in)



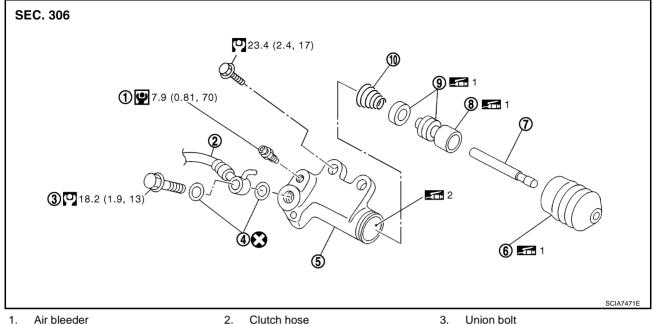
OPERATING CYLINDER

OPERATING CYLINDER

PFP:30620

Components

NCS001AB



- Air bleeder 1.
- 4. Copper washer
- Push rod 7.
- 10. Piston spring

Clutch hose

Cylinder body

- Piston

5.

- Union bolt 3.
- 6. Dust cover
- Piston cup

9.

Refer to GI-10, "Components", and the followings for the symbols in the figure.

1: Apply rubber grease.

2: Apply rubber lubricant.

Removal and Installation **REMOVAL**

NCS000JX

Drain clutch fluid.

CAUTION:

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

- Remove clutch hose from operating cylinder.
- Remove operating cylinder mounting bolts and then remove operating cylinder from vehicle.

INSTALLATION

To install, reverse the removal procedure, following the cautions below:

- Install hose with care so that it will not be bent or twisted. Refer to CL-13, "Removal and Installation".
- After completing the procedure, bleed clutch hydraulic system. Refer to CL-7, "Bleeding".

Disassembly and Assembly DISASSEMBLY

NCS000.IY

Remove dust cover and push rod. Remove piston assembly and piston spring from inside cylinder body.

INSPECTION AFTER DISASSEMBLY

Check for any of the conditions shown below. If any malfunction is found, replace the part concerned.

- Damage to cylinder inner surface or piston sliding surface. Foreign matter, wear, corrosion, or pin hole
- Settling of the spring
- Cracked or deformed dust cover

CL-11 Revision: 2006 August 2006 G35 Sedan

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OPERATING CYLINDER

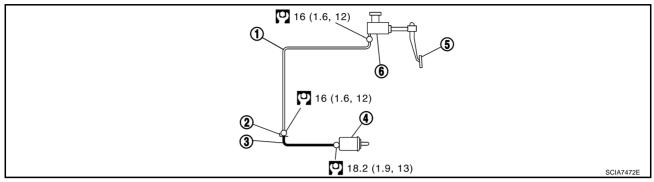
ASSEMBLY

- 1. Apply rubber lubricant to cylinder body inner surface and rubber grease to piston cup and piston. Insert piston assembly and piston spring into cylinder body.
- 2. Apply rubber grease to dust cover and install push rod and dust cover.

CLUTCH PIPING PFP:30650

Removal and Installation

NCS000JZ



Clutch tube

- 2. Lock plate
- Operating cylinder
- 5. Clutch pedal

- 3. Clutch hose
- 6. Master cylinder

Refer to GI-10, "Components", for the symbol in the figure.

Carefully observe the following steps during clutch tube removal and installation.

- Do not spill clutch fluid onto painted surfaces. If it spills, wipe up immediately and wash the affected area with water.
- When fixing clutch hose to bracket, align clutch hose metal fittings with bracket positioning emboss and lock plate to secure. At this time, prevent twisting or damage of clutch hose. In addition, be careful not to damage clutch hose.
- Tighten clutch tube flare nut to the specified torque.

CAUTION:

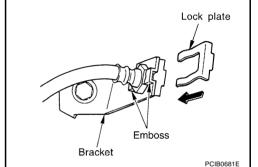
Be careful not to damage flare nut and clutch tube.

Tighten union bolt to the specified torque. Refer to CL-11, "Components".

CAUTION:

Do not reuse copper washer.

After installation, bleed clutch hydraulic system. Refer to CL-7, "Bleeding".



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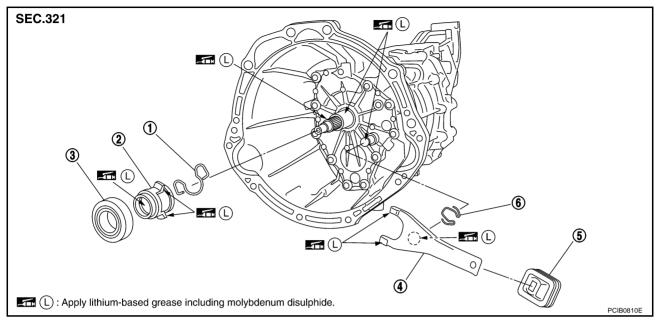
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CLUTCH RELEASE MECHANISM

PFP:30502

Removal and Installation COMPONENTS

NCS000K0



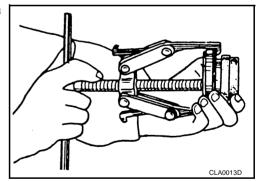
1. Holder spring

- 2. Release bearing sleeve
- Withdrawal lever 5. Dust cover

- 3. Release bearing
- Snap spring

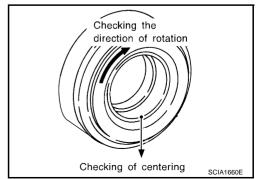
REMOVAL

- 1. Remove manual transmission from vehicle. Refer to MT-18, "Removal and Installation".
- 2. Remove release bearing sleeve assembly, holder spring, and withdrawal lever from inside clutch housing.
- Remove dust cover.
- 4. Remove snap spring from withdrawal lever.
- Remove release bearing from release bearing sleeve using a puller.



INSPECTION AFTER REMOVAL

- If release bearing is seized, damaged, not properly centered or does not rotate smoothly, replace it.
- If contact surface of withdrawal lever is excessively worn out, replace it.
- If dust cover is cracked or deformed, replace it.



CLUTCH RELEASE MECHANISM

INSTALLATION

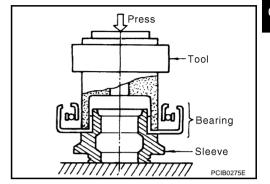
CAUTION:

- 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 quiver. Wipe off any grease oozing from the parts.
- Be careful not to bring any grease into contact with clutch disc facing, pressure plate surface, or flywheel surface.
- 1. Install release bearing to release bearing sleeve using the drift.

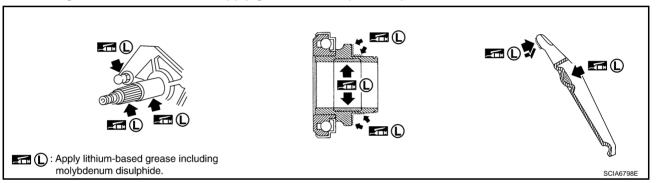
Tool number : KV30101400 (—)

CAUTION:

Press bearing inner race by pushing with the drift.



2. Following the instructions below, apply grease to the specified points.



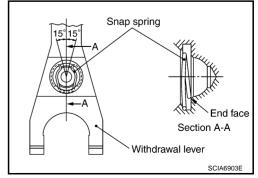
CAUTION:

Wipe off any old grease, debris, or powdery residue left on the surfaces.

- Evenly apply a 1 mm (0.04 in) thick coating of recommended grease to withdrawal lever and release bearing sleeve or holder spring sliding surface.
- Apply recommended grease to ball pin contact surface of withdrawal lever and inner slots of release bearing. The grease surface should be level with the surrounding area.
- Evenly apply a thin coat of recommended grease to release bearing sliding surface. Install release bearing. Wipe off any excess grease that oozes from the parts and then remove release bearing.
- 3. To install, reverse the removal procedure, following the cautions below.

CAUTION:

- Before installing manual transmission to vehicle, check that each sliding surface slides smoothly by operating withdrawal lever.
- When assembling, make sure that both ends of snap spring touch the end face of withdrawal lever.
- Be careful with the orientation of installation.



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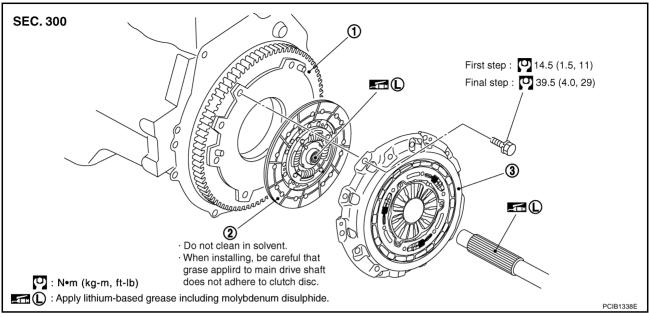
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CLUTCH DISC, CLUTCH COVER

PFP:30100

Removal and Installation COMPONENTS

NCS000K1



Flywheel

2. Clutch disc

Clutch cover

CAUTION:

- Be careful not to bring any grease into contact with clutch disc facing, pressure plate surface, and flywheel surface.
- If flywheel is removed, align dowel pin with the smallest hole of flywheel. Refer to <u>EM-157</u>, "ASSEMBLY".
- Replace clutch disc and clutch cover as a set.

REMOVAL

- Remove manual transmission from vehicle. Refer to MT-18, "Removal and Installation".
- 2. Loosen clutch cover mounting bolts with power tool. Remove clutch cover and clutch disc.

INSPECTION AND ADJUSTMENT AFTER REMOVAL Clutch Disc

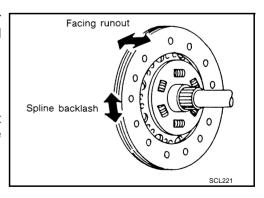
 Measure circumference runout relative to clutch disc center spline. If it is outside the specification, replace clutch disc and clutch cover as a set.

Runout limit/diameter of the area to be measured: 1.0 mm (0.039 in) or less/ 230 mm (9.06 in) dia.

 Measure backlash for clutch disc spline and main drive shaft spline at the circumference of clutch disc. If it is outside the specified range, replace clutch disc and clutch cover as a set.

Maximum backlash of spline:

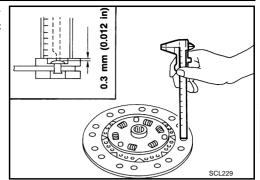
1.0 mm (0.039 in)



CLUTCH DISC, CLUTCH COVER

 Measure the depth to clutch disc facing rivet heads using calipers. If it exceeds the allowable wear limit, replace clutch disc and clutch cover as a set.

Facing wear limit (depth to the rivet head): 0.3 mm (0.012 in)



Clutch Cover

Check diaphragm spring lever claws for unevenness with the lever still on vehicle. If they exceed the tolerance, adjust lever height using the diaphragm adjusting wrench.

Tolerance for diaphragm spring lever unevenness: 0.8 mm (0.031 in)

Tool number : ST20050240 (—)

- Check clutch cover thrust ring for wear or breakage. If wear or breakage is found, replace clutch disc and clutch cover as a set.
 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 clutch cover pressure plate to clutch disc contact surface, repair the surface with sandpaper. If surface is damaged or distorted, replace clutch disc and clutch cover as a set.

INSTALLATION

1. Apply recommended grease to clutch disc and main drive shaft spline.

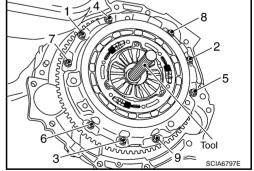
CAUTION:

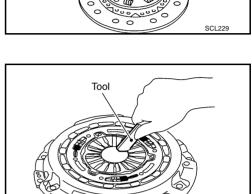
Be sure to apply grease to the points specified. Otherwise, noise, poor disengagement, or damage to the clutch may result. Excessive grease may cause slip or quiver. Wipe off any grease oozing from the parts.

2. Install clutch disc and clutch cover. Pre-tighten mounting bolts and install clutch aligning bar.

Tool number : ST20670000 (—)

- Tighten clutch cover mounting bolts evenly in two steps in the order shown in the figure. Refer to <u>CL-16</u>, "<u>Removal and Installation</u>".
- 4. Install manual transmission. Refer to MT-18, "Removal and Installation".





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SERVICE DATA AND SPECIFICATIONS (SDS)

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Clutch Control System	NCS000K2							
Type of clutch control	Hydraulic							
Clutch Master Cylinder	NCS000K3							
•	Unit: mm (in)							
Inner diameter	15.87 (5/8)							
Clutch Operating Cylinder	NCS000K4							
	Unit: mm (in)							
Inner diameter	19.05 (3/4)							
Clutch Disc	NCS000K5							
	Unit: mm (in)							
Engine model	VQ35DE							
Model	240							
Facing size (Outer dia. × inner dia. × thickness)	240 × 160 × 3.8 (9.45 × 6.30 × 0.150)							
Wear limit (depth to the rivet head)	0.3 (0.012)							
Runout limit/diameter of the area to be measured	1.0 (0.039) or less/230 (9.06) dia.							
Maximum backlash of spline (at outer edge disc)	1.0 (0.039)							
Clutch Cover	NCS000K6							
	Unit: mm (in)							
Engine model	VQ35DE							
Set-load Set-load	9,900 N (1,009 kg)							
Diaphragm spring lever height	41.9 - 44.1 (1.650 - 1.736)							
Uneven limit of diaphragm spring toe height	0.8 (0.031)							
Clutch Pedal	NCS000K7							
	Unit: mm (in)							
Clearance "C" between pedal stopper rubber and clutch interlock switch threaded while clutch pedal is fully depressed.	0.1 - 1.0 (0.004 - 0.039)							