CLUTCH

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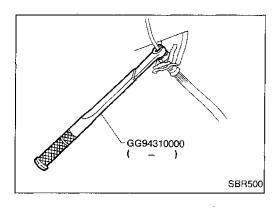
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PRECAUTIONS AND PREPARATION



Precautions

- Recommended fluid is brake fluid "DOT 3".
- 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, operating cylinder and clutch damper.
- Never use mineral oils such as gasoline or kerosene. It will ruin the rubber parts of the hydraulic system.

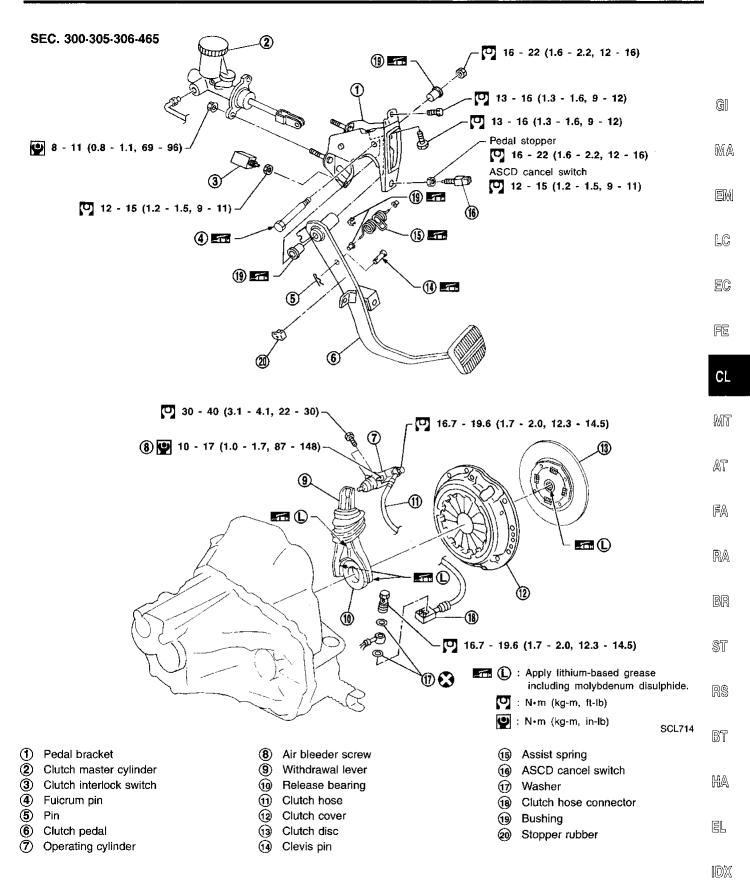
WARNING:

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

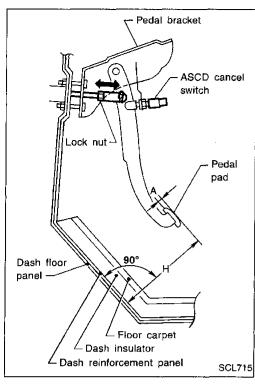
Special Service Tools

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	
GG94310000 (—) Flare nut torque wrench		Removing and installing clutch piping
	NT406	a: 10 mm (0.39 in)
KV30101000 (J33213) Clutch aligning bar	New e	Installing clutch cover and clutch disc
		a: 12 mm (0.47 in) dia.
	a b	b: 15.7 mm (0.618 in) dia.
	Former	c: 22.8 mm (0.898 in) dia. d: 21 mm (0.83 in)
	NT440	e: 22 mm (0.87 in)
ST20050240 (—) Diaphragm spring	a	Adjusting unevenness of diaphragm spring of clutch cover
adjusting wrench		o. 450 mm (5.04 im)
	NT404	a: 150 mm (5.91 in) b: 25 mm (0.98 in)



INSPECTION AND ADJUSTMENT

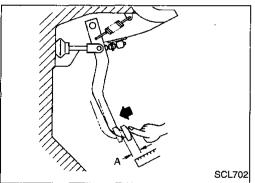


Adjusting Clutch Pedal

1. Adjust pedal height with ASCD cancel switch.

Pedal height "H":

168 - 175 mm (6.61 - 6.89 in)

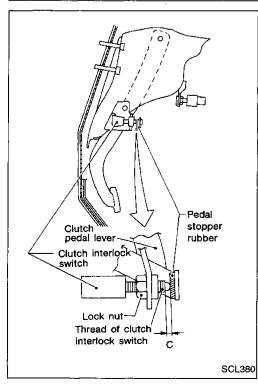


Adjust pedal free play with master cylinder push rod. Then tighten lock nut.

Pedal free play "A":

9 - 16 mm (0.35 - 0.63 in)

 Push or step on clutch pedal until resistance is felt, and check the distance the pedal moves.



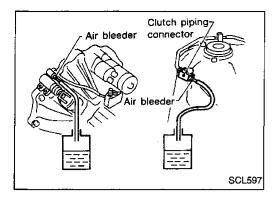
For U.S.A. model only

Adjust clearance "C" shown in the figure while fully depressing clutch pedal.

Clearance C:

0.3 - 1.0 mm (0.012 - 0.039 in)

INSPECTION AND ADJUSTMENT



Bleeding Procedure

1. Bleed air from clutch operating cylinder according to the following procedure.

Carefully monitor fluid level at master cylinder during bleeding operation.

- Top up reservoir with recommended brake fluid.
- b. Connect a transparent vinyl tube to air bleeder valve.
- c. Slowly depress clutch pedal all the way several times.
- With clutch pedal depressed, open bleeder valve to release air.
 Then close bleeder valve.
- e. Release clutch pedal and wait for a few seconds.
- f. Repeat steps c through e above until brake fluid flows from air bleeder valve without air bubbles.
- 2. Bleed air from clutch piping connector according to the above same procedure.
- 3. Repeat the above bleeding procedures 1 and 2 several times.

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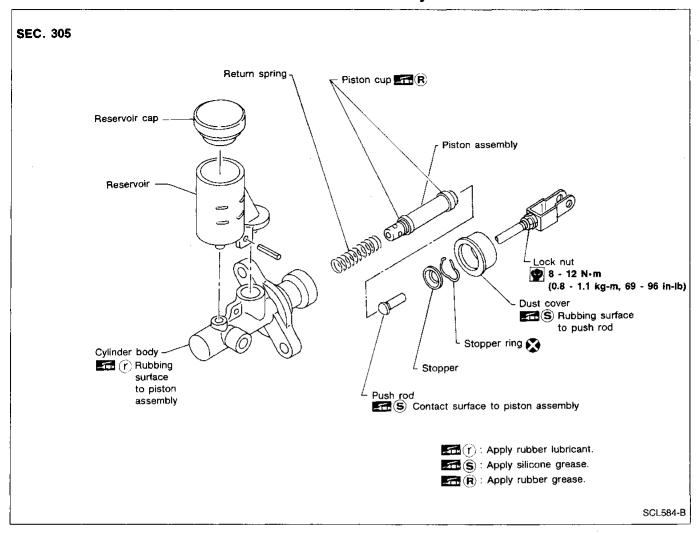
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Clutch Master Cylinder



DISASSEMBLY AND ASSEMBLY

Push piston into cylinder body with screwdriver when removing and installing valve stopper.

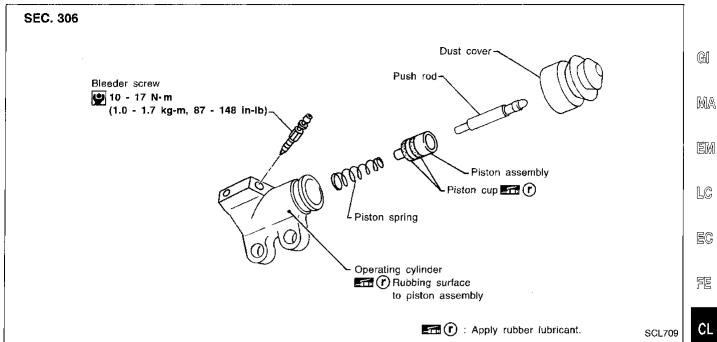
INSPECTION

Check the following items, and replace if necessary.

- Rubbing surface of cylinder and piston, for uneven wear, rust or damage
- Piston with piston cup, for wear or damage
- · Return spring, for wear or damage
- Dust cover, for cracks, deformation or damage
- Reservoir, for deformation or damage

HYDRAULIC CLUTCH CONTROL

Operating Cylinder



INSPECTION

Check the following items, and replace if necessary.

- Rubbing surface of cylinder and piston, for uneven wear, rust or damage
- Piston with piston cup, for wear or damage
- Piston spring, for wear or damage
- Dust cover, for cracks, deformation or damage

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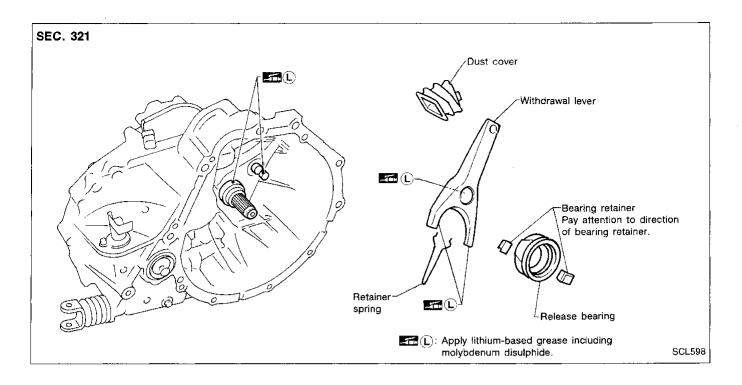
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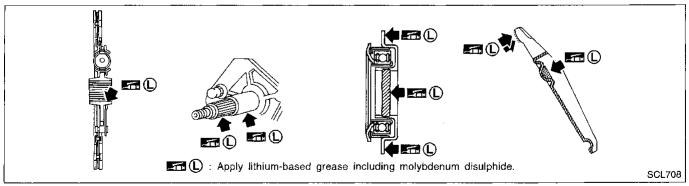
CLUTCH RELEASE MECHANISM



INSPECTION

Check the following items, and replace if necessary.

- Release bearing, to see that it rolls freely and is free from noise, cracks, pitting or wear
- Release sleeve and withdrawal lever rubbing surface, for wear, rust or damage

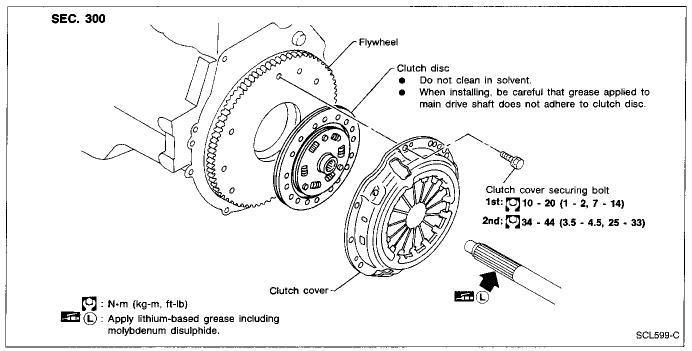


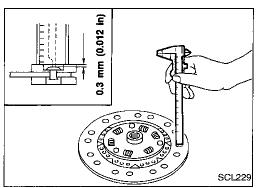
LUBRICATION

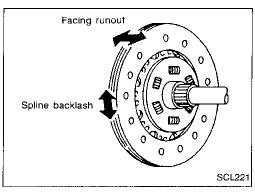
- Apply recommended grease to contact surface and rubbing surface.
- Too much lubricant might damage clutch disc facing.

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CLUTCH DISC AND CLUTCH COVER







Clutch Disc

INSPECTION

Check the following items, and replace if necessary.

- Clutch disc, for burns, discoloration, oil or grease leakage
- Clutch disc, for wear of facing

Wear limit of facing surface to rivet head: 0.3 mm (0.012 in)

Clutch disc, for spline backlash

Maximum spline backlash (at outer edge of disc):

1.0 mm (0.039 in)

Clutch disc, for facing runout

Runout limit:

1.0 mm (0.039 in)

Distance of runout check point (from hub cen-

115 mm (4.53 in)

INSTALLATION

Apply recommended grease to contact surface of spline portion.

Too much lubricant might damage clutch facing.

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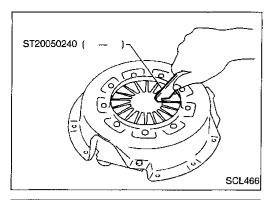
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CLUTCH DISC AND CLUTCH COVER



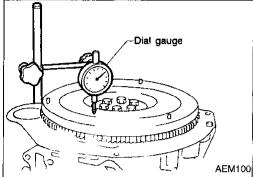
Clutch Cover and Flywheel INSPECTION AND ADJUSTMENT

Check clutch cover installed on vehicle for unevenness of diaphragm spring toe height.

Uneven limit:

0.5 mm (0.020 in)

If out of limit, adjust the height with Tool.

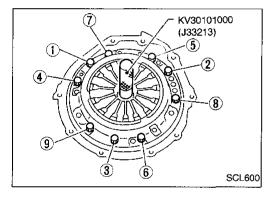


FLYWHEEL INSPECTION

- Check contact surface of flywheel for slight burns or discoloration. Repair flywheel with emery paper.
- Check flywheel runout.

Maximum allowable runout:

Refer to EM section ("Inspection", "CYLINDER BLOCK").



INSTALLATION

- Insert Tool into clutch disc hub when installing clutch cover and
- fighten bolts in numerical order.
- Be careful not to allow grease to contaminate clutch facing.

First step:

(i): 10 - 20 N·m (1 - 2 kg-m, 7 - 14 ft-lb) Final step:

(C): 34 - 44 N·m (3.5 - 4.5 kg-m, 25 - 33 ft-lb)

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SERVICE DATA AND SPECIFICATIONS (SDS)

General Specifications CLUTCH DISC

CLUTCH CONTROL SYSTEM

Type of clutch control Hydraulic

CLUTCH MASTER CYLINDER

Inner diameter	mm (in)	15.87 (5/8)

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CLUTCH OPERATING CYLINDER

Inner diameter	mm (in)	19.05 (3/4)

CLUTCH COVER

Model		240
Set load	N (kg, lb)	5,688 (580, 1,279)

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Inspection and Adjustment CLUTCH DISC

CLUTCH PEDAL

Unit: mm (in)

Pedal height*	168 - 175 (6.61 - 6.89)
Pedal free play	9 - 16 (0.35 - 0.63)
Clearance between pedal stopper rubber and clutch interlock switch threaded end while clutch pedal is fully depressed.	0.3 - 1.0 (0.012 - 0.039)

^{*:} Measured from surface of dash reinforcement panel to surface of pedal pad

Unit: mm (in)

Model	240
Wear limit of facing surface to rivet head	0.3 (0.012)
Facing runout limit	1.0 (0.039)
Distance of runout check point (from the hub center)	115 (4.53)
Maximum spline backlash (at outer edge of disc)	1.0 (0.039)



CLUTCH COVER

	Unit: mm (in)	BR
Model	240	מופו
Uneven limit of diaphragm spring toe height	0.5 (0.020)	ST





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