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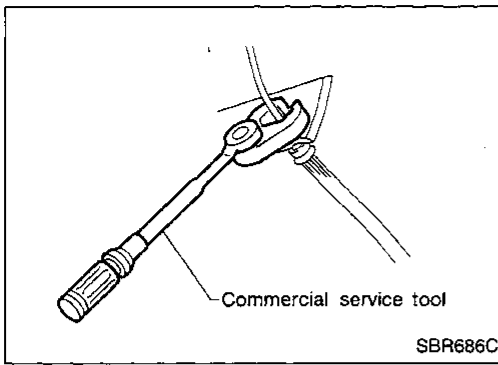
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PRECAUTIONS AND PREPARATION



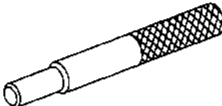
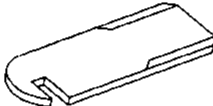
Precautions

- 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.
- To clean or wash all parts of master cylinder, operating cylinder and clutch damper, use clean brake fluid.
- Never use mineral oils such as gasoline or kerosene. They will ruin the rubber parts of the hydraulic system.

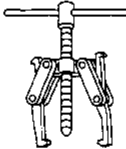
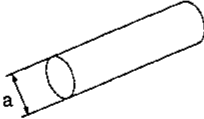
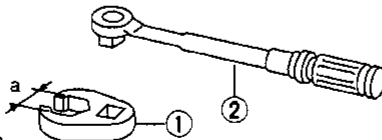
WARNING:

Remove all dust from clutch disc with a dust collector after cleaning with waste cloth.

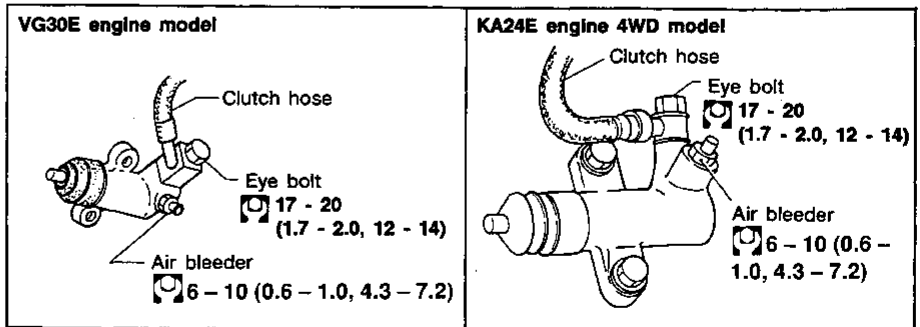
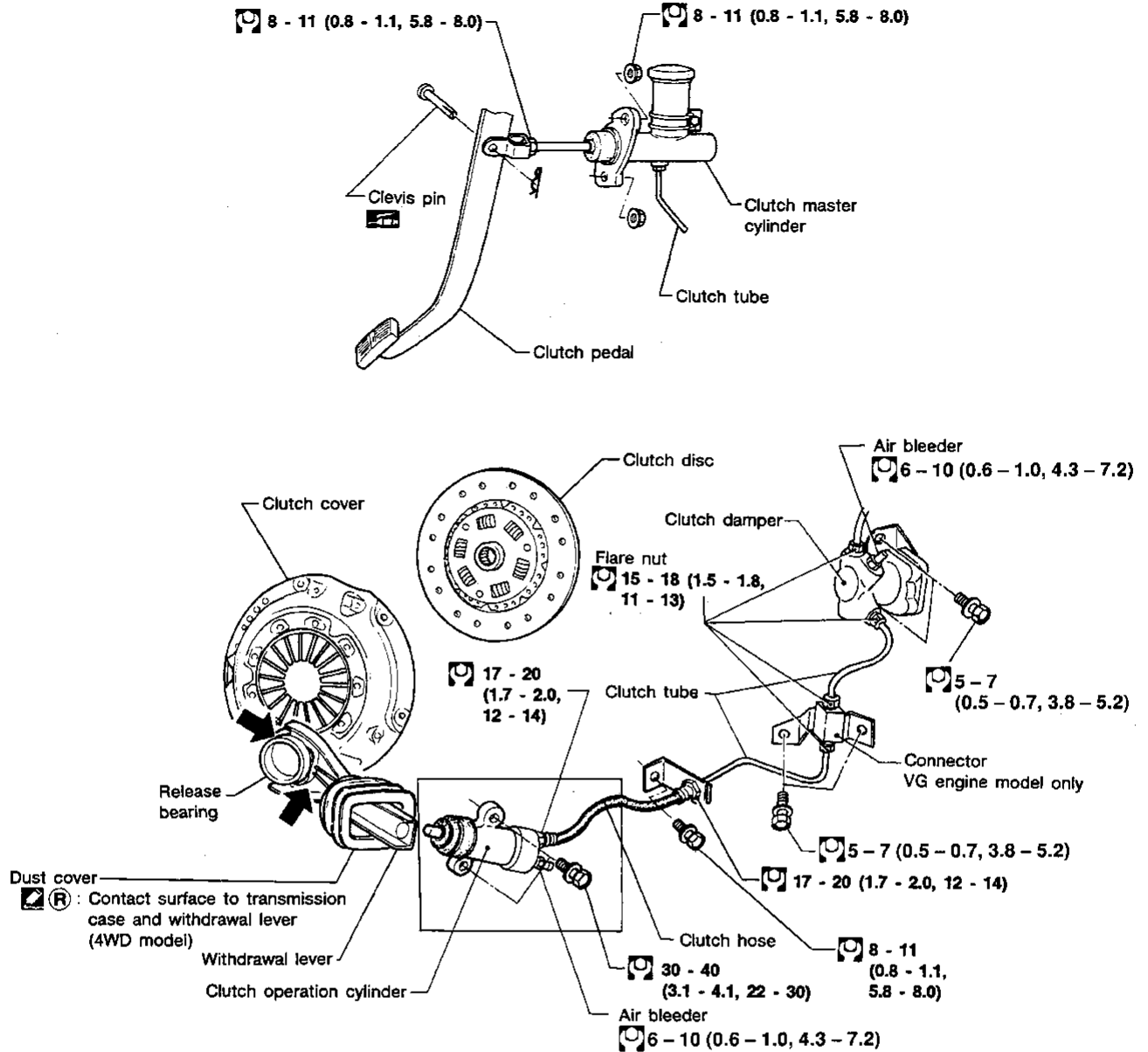
Special Service Tools

Tool number (Kent-Moore No.) Tool name	Description
ST20600000 (J26366) Clutch aligning bar	 Installing clutch cover and clutch disc NT062
ST20050240 (—) Diaphragm spring adjusting wrench	 Adjusting unevenness of diaphragm spring of clutch cover NT060

Commercial Service Tools

Tool name	Description
Bearing puller	 Removing release bearing NT077
Bearing drift	 Installing release bearing a = 50 mm (1.97 in) dia. NT063
① Flare nut crows foot ② Torque wrench	 Removing and installing each brake piping a: 10 mm (0.39 in) NT360

CLUTCH SYSTEM

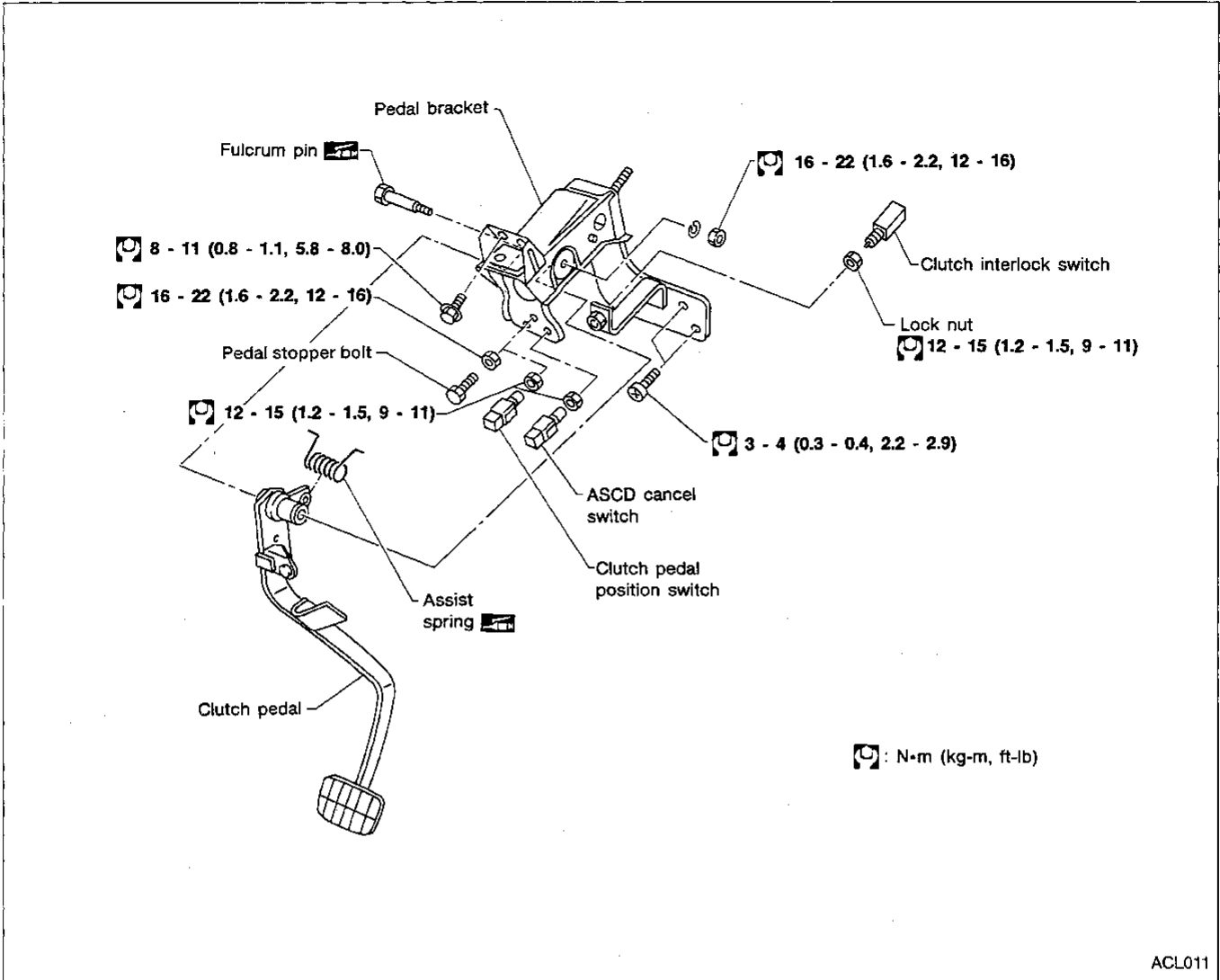


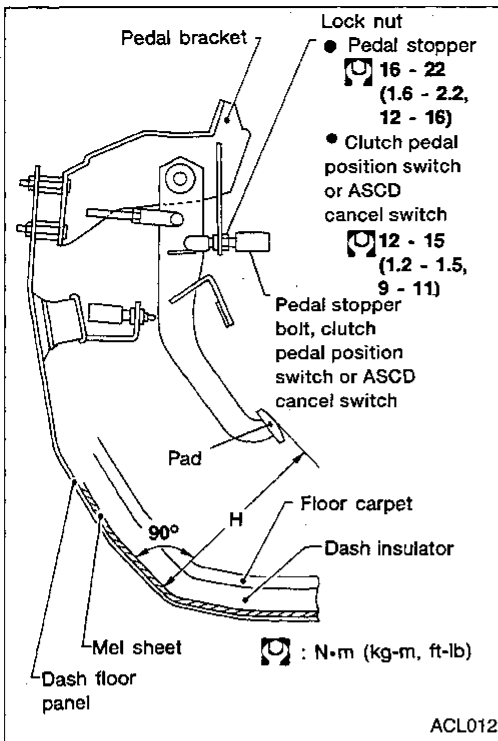
- Ⓜ Ⓡ : Apply recommended sealant (Nissan genuine part: KP115-00100) or equivalent.
- Ⓜ Ⓛ : Apply lithium-based grease including molybdenum disulphide.
- Ⓜ : N•m (kg-m, ft-lb)

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CLUTCH SYSTEM

Clutch Pedal



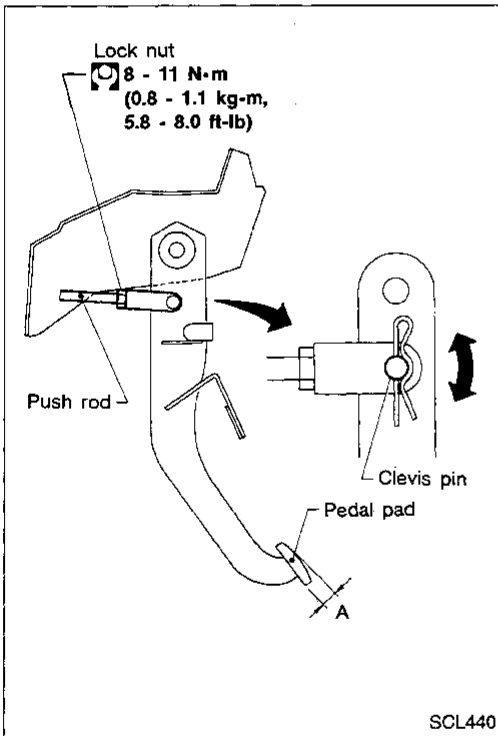


Adjusting Clutch Pedal

- Adjust pedal height with pedal stopper bolt or clutch pedal position switch.

Pedal height "H":

KA24E engine	236 - 246 mm (9.29 - 9.69 in)
VG30E engine	227 - 237 mm (8.94 - 9.33 in)



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

Pedal free play "A":

1.0 - 1.5 mm (0.039 - 0.059 in)

Pedal free play means the following total measured at position of pedal pad:

- Play due to clevis pin and clevis pin hole in clutch pedal.
- Make sure that clevis pin can rotate smoothly. If not, readjust pedal free play with master cylinder push rod.

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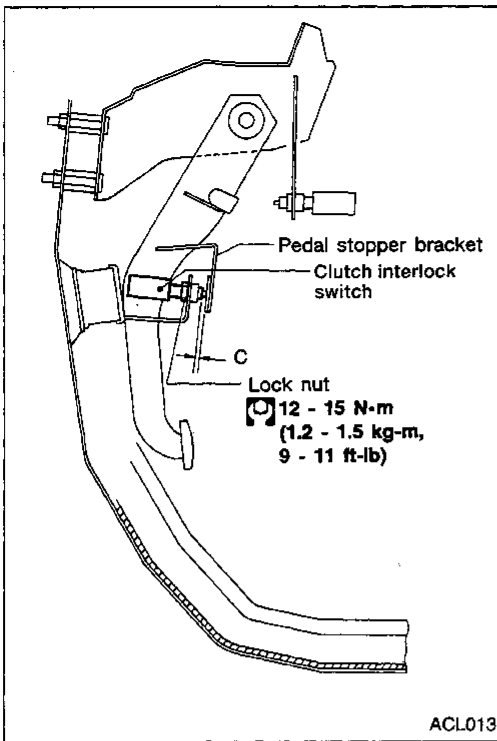
INSPECTION AND ADJUSTMENT

Adjusting Clutch Pedal (Cont'd)

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

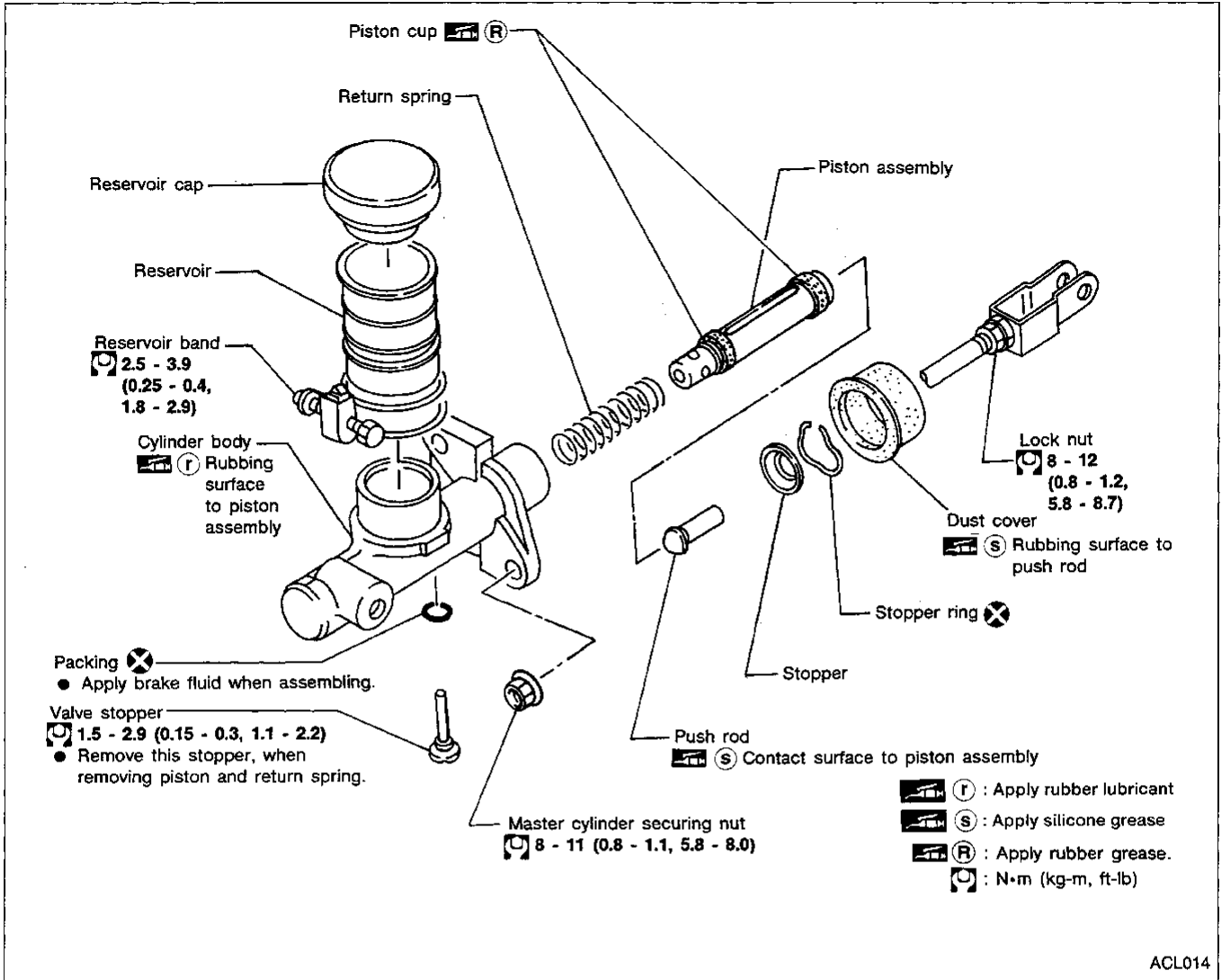
Clearance "C":

0.3 - 1.0 mm (0.012 - 0.039 in)



HYDRAULIC CLUTCH CONTROL

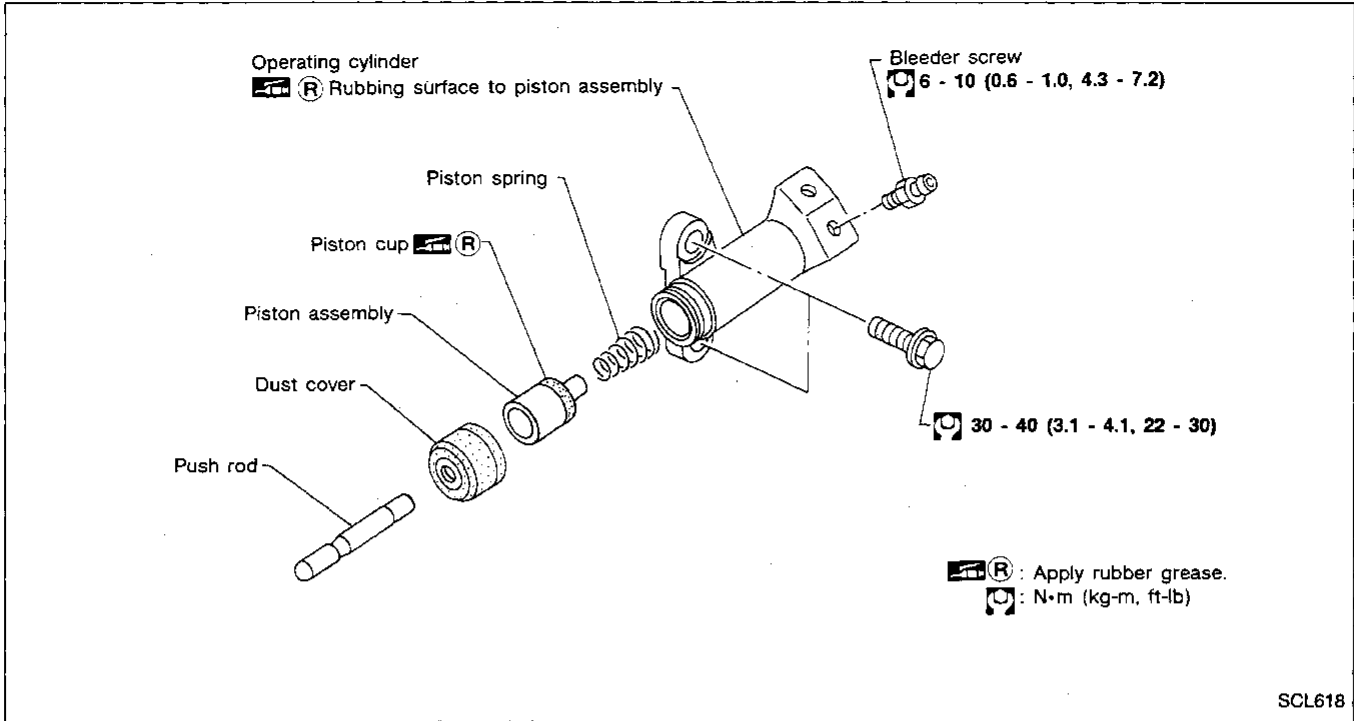
Clutch Master Cylinder



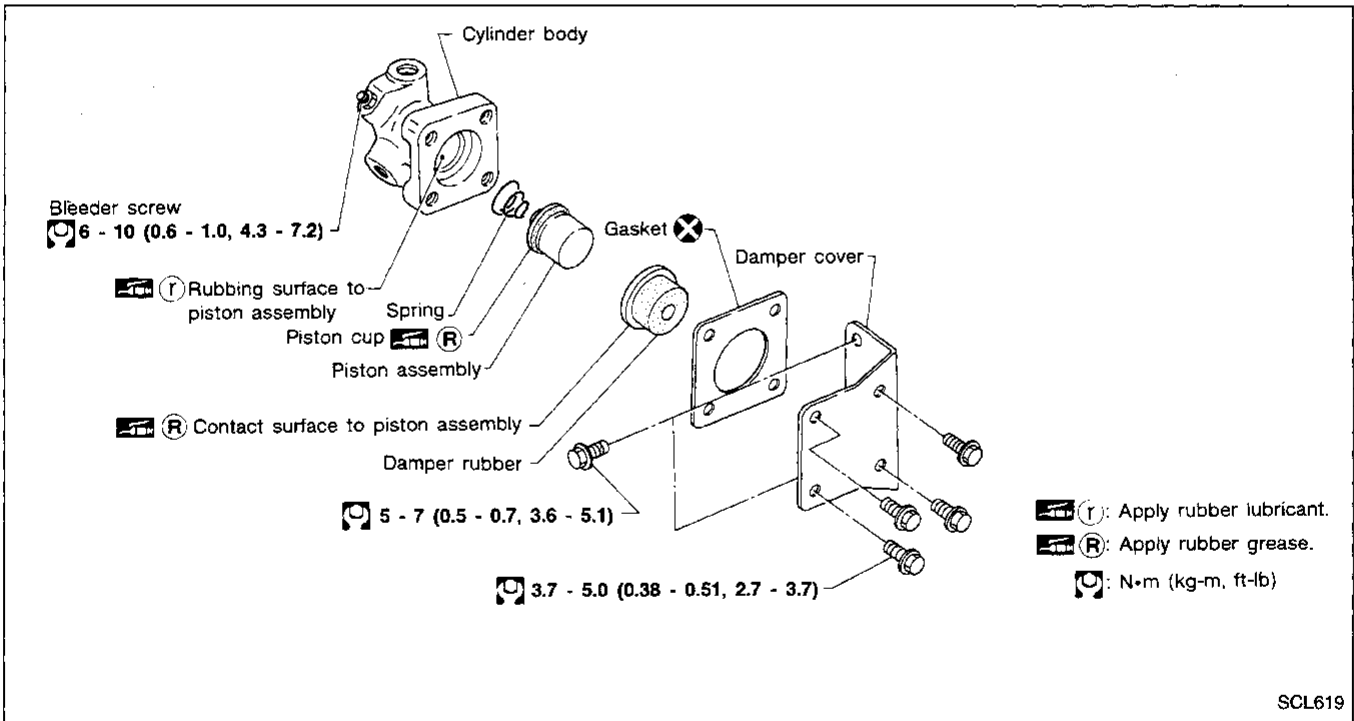
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HYDRAULIC CLUTCH CONTROL

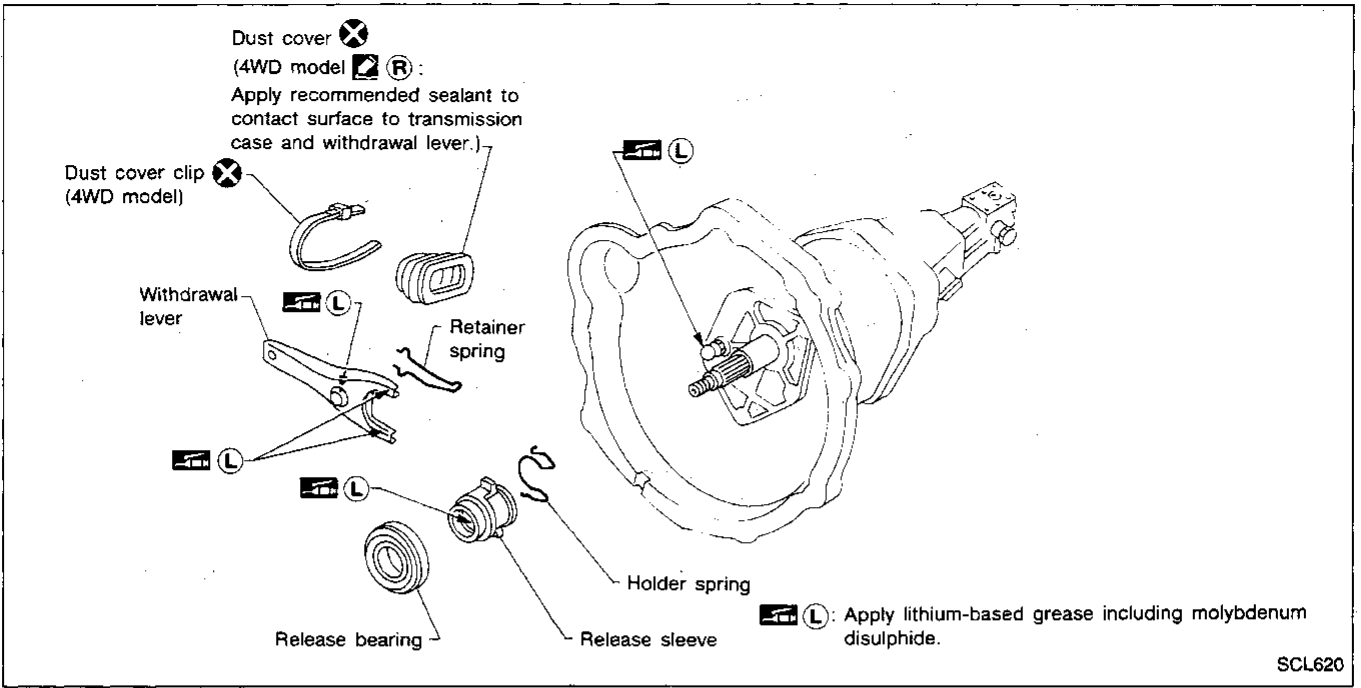
Operating Cylinder



Clutch Damper



CLUTCH RELEASE MECHANISM



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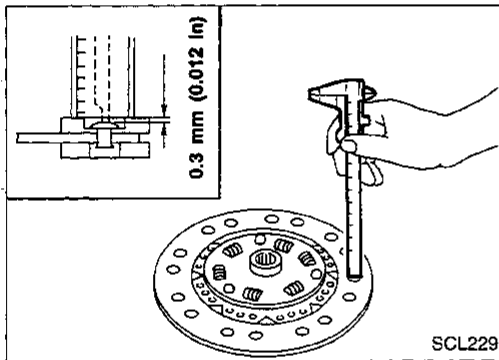
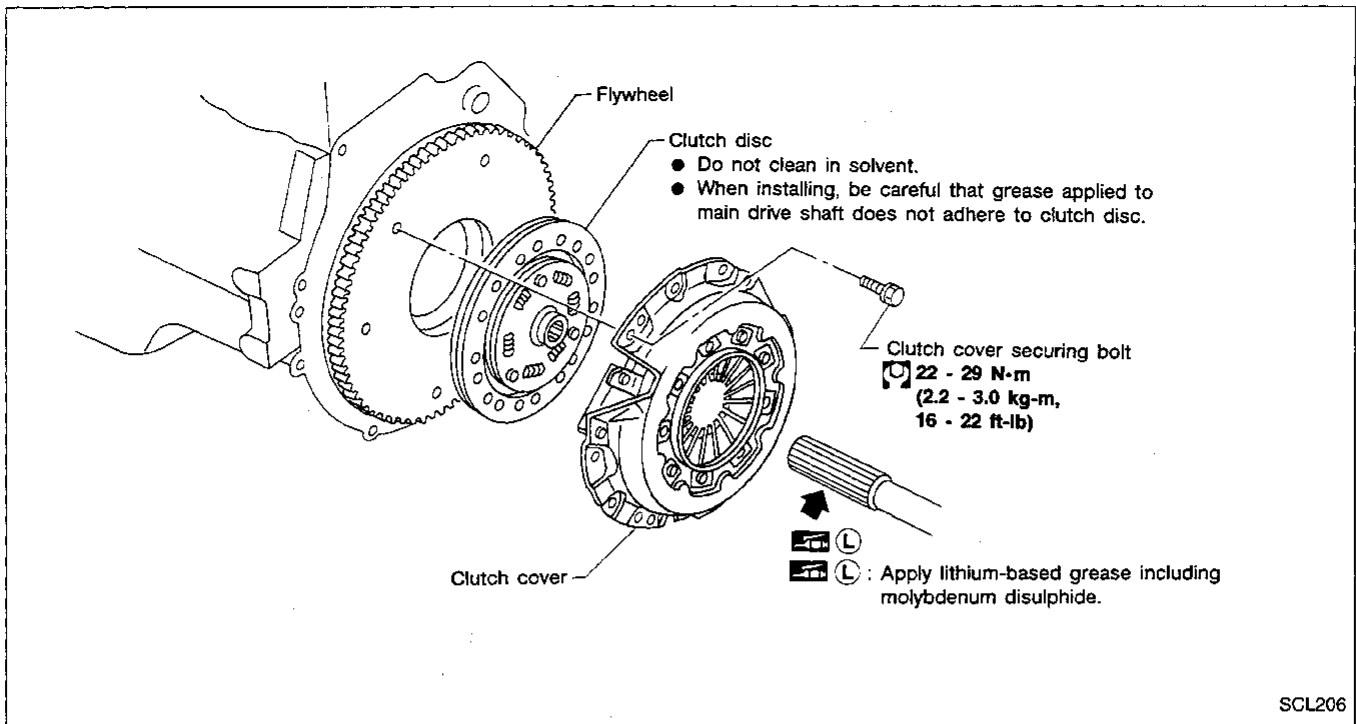
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CLUTCH DISC AND CLUTCH COVER

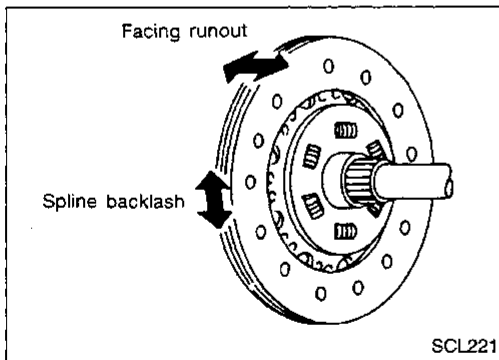


Clutch Disc

INSPECTION

Check clutch disc for wear of facing.

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



- Check clutch disc for backlash of spline and runout of facing.

Maximum backlash of spline (at outer edge of disc):

1.0 mm (0.039 in)

Runout limit:

1.0 mm (0.039 in)

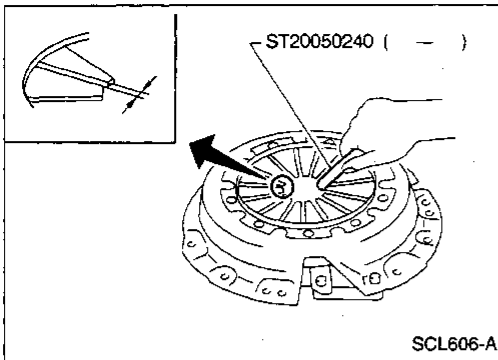
Distance of runout check point (from hub center):

Model 240 115 mm (4.53 in)

Model 250 115 mm (4.53 in)

- Check clutch disc for burns, discoloration or oil or grease leakage. Replace if necessary.

CLUTCH DISC AND CLUTCH COVER



Clutch Cover and Flywheel

INSPECTION AND ADJUSTMENT

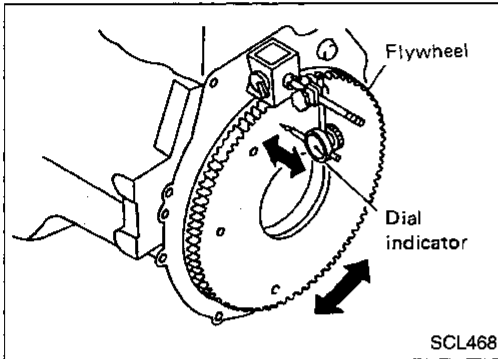
- Check clutch cover installed on vehicle for unevenness of diaphragm spring toe height.

Uneven limit:

Model 240 0.5 mm (0.020 in)

Model 250 0.5 mm (0.020 in)

- If out of limit, adjust the height with Tool.



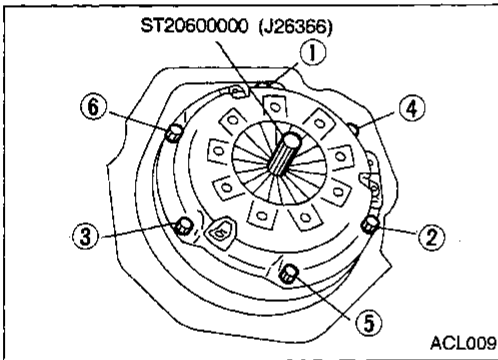
FLYWHEEL INSPECTION

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

Runout (Total indicator reading):

Flywheel

Refer to EM section. (Inspection — CYLINDER BLOCK)



INSTALLATION

- Insert Tool into clutch disc hub when installing clutch cover and disc.
- Tighten clutch cover fixing bolts in numerical order by 2 steps.

Tightening torque:

First step 10 - 20 N·m (1.0 - 2.0 kg·m, 7 - 14 ft·lb)

Final step 22 - 29 N·m (2.2 - 3.0 kg·m, 16 - 22 ft·lb)

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SERVICE DATA AND SPECIFICATIONS (SDS)

Inspection and Adjustment

CLUTCH PEDAL

Unit: mm (in)

Pedal height "H"	
KA24E engine model	236 - 246 (9.29 - 9.69)
VG30E engine model	227 - 237 (8.94 - 9.33)
Pedal free play "A"	1.0 - 1.5 (0.039 - 0.059)
Clearance "C" between pedal stopper bracket and threaded end of clutch interlock switch (when depressing clutch pedal fully.)	0.3 - 1.0 (0.012 - 0.039)

*: Measured from surface of melt sheet to pedal pad.

CLUTCH DISC

Unit: mm (in)

Model	240	250
Wear limit of facing surface to rivet head	0.3 (0.012)	
Runout limit of facing	1.0 (0.039)	
Distance of runout check point (from hub center)	115 (4.53)	
Maximum backlash of spline (at outer edge of disc)	1.0 (0.039)	

CLUTCH COVER

Unit: mm (in)

Model	240	250
Uneven limit of diaphragm spring toe height	0.5 (0.020)	0.5 (0.020)