CLUTCH

SECTION CL

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Precaution

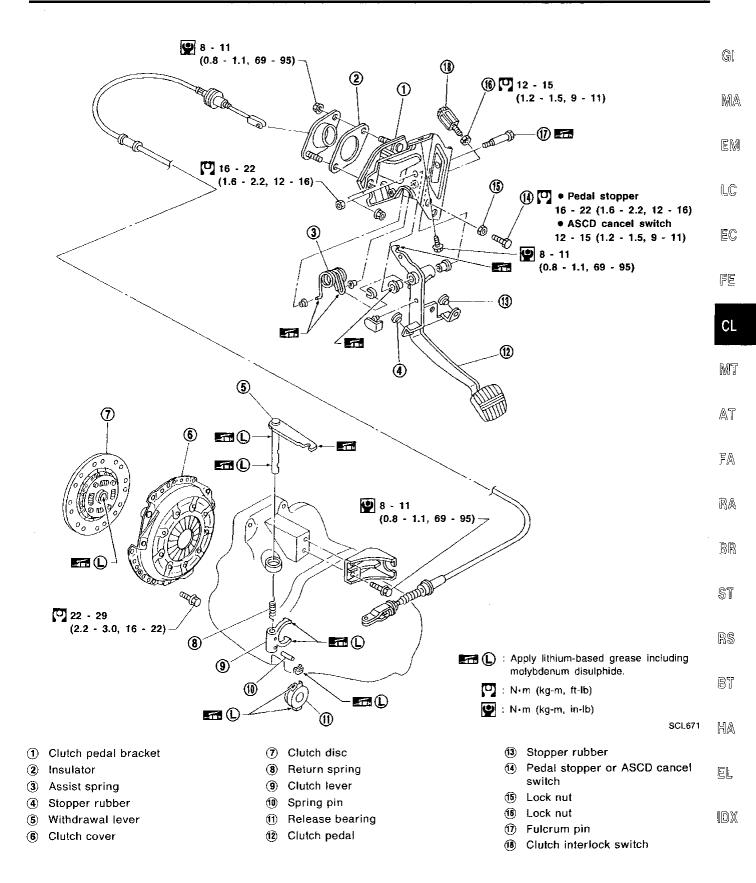
WARNING:

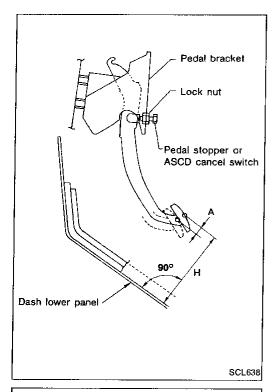
After cleaning the clutch disc, wipe it with a dust collector. Do not use compressed air.

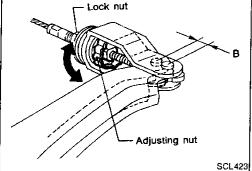
Special Service Tools

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

Tool number (Kent-Moore No.) Tool nam e	Description	
KV30101600 (New) KV30101000 (Former) (J33213) Clutch aligning bar	New a Former	Installing clutch cover and clutch disc
	NT645	a: 15.9 mm (0.626 in) dia. b: 17.9 mm (0.705 in) dia. c: 40 mm (1.57 in)
ST20050240 () Diaphragm spring	a	Adjusting unevenness of diaphragm spring of clutch cover
adjusting wrench	NT404	a: 150 mm (5.91 in) b: 25 mm (0.98 in)







Adjusting Clutch Pedal

1. Adjust pedal height with pedal stopper or ASCD cancel switch.

Pedal height "H":

159.5 - 169.5 mm (6.28 - 6.67 in)

2. Adjust withdrawal lever play "B" according to the following procedure.

CAUTION:

When clutch cable is replaced with a new one, fully depress clutch pedal 50 times as a break-in procedure (to pre-stretch the clutch cable). Then, adjust the cable as follows:

- a. Push withdrawal lever by hand until resistance is felt, and then tighten adjusting nut.
- b. Turn back adjusting nut 2.5 to 3.5 turns, and then tighten lock nut.

Withdrawal lever play "B":

2.5 - 3.5 mm (0.098 - 0.138 in)

Lock nut:

():3 - 4 N·m (0.3 - 0.4 kg-m, 26 - 35 in-lb)

3. As a final check, measure pedal free travel at center of pedal pad.

Pedal free travel "A":

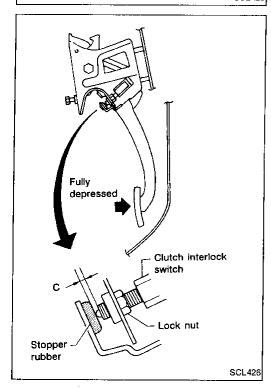
10.8 - 15.1 mm (0.425 - 0.594 in)

-MODELS WITH CLUTCH INTERLOCK SYSTEM-

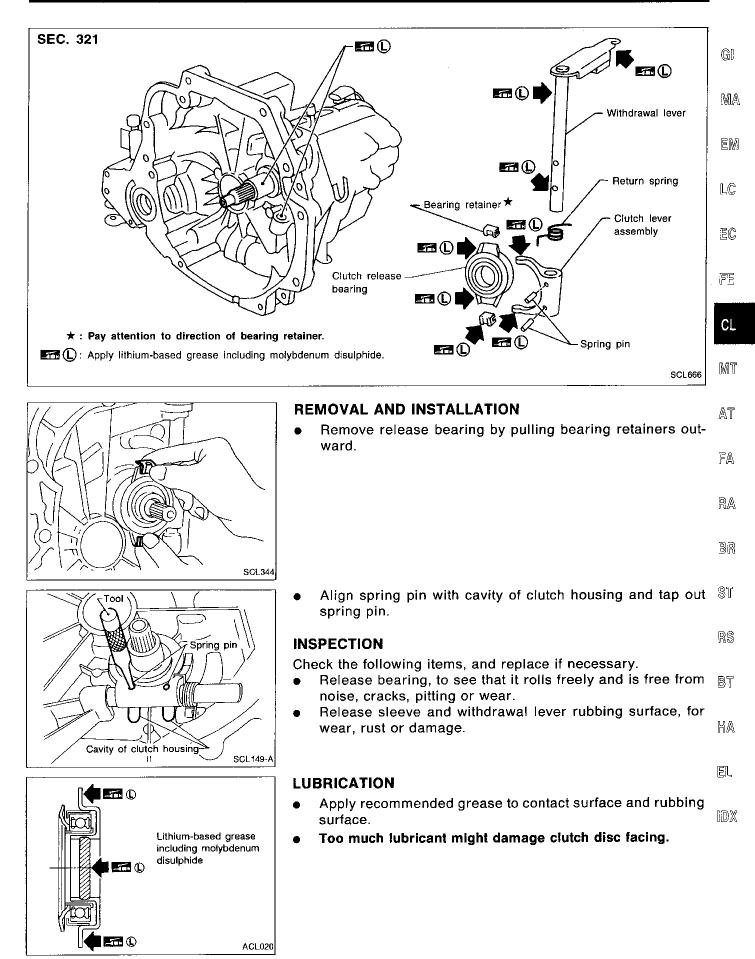
4. Adjust clearance "C" shown in the figure while fully depressing clutch pedal.

Clearance "C":

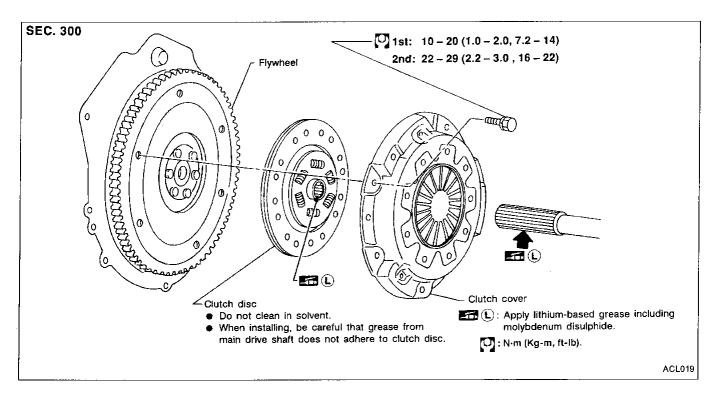
0.3 - 1.0 mm (0.012 - 0.039 in)

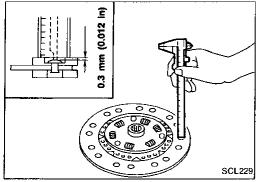


CLUTCH RELEASE MECHANISM



CLUTCH DISC AND CLUTCH COVER





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SCL221-A

Runout of facing

Backlash of spline

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

Maximum backlash of spline (at outer edge of disc): 0.9 mm (0.035 in) Runout limit:

1.0 mm (0.039 in)

Distance of runout check point (from hub center): 102.5 mm (4.04 in)

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

INSTALLATION

- Apply recommended grease to contact surface of splines.
- Too much lubricant may damage clutch disc facing.

CLUTCH DISC AND CLUTCH COVER

	Clutch Cover and Flywheel	GI
ST20050240 (-)	NSPECTION AND ADJUSTMENT	Gil
	Check clutch cover, installed on vehicle, for uneven dia- phragm spring toe height. Uneven limit:	MA
	0.7 mm (0.028 in) If out of limit, adjust the height with Tool.	EM
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	LYWHEEL INSPECTION	EĈ
	AUTION:	20
	o not allow any magnetic materials to contact the ring gear	
		FÊ
	coloration. Clean flywheel with emery paper.	
	Check flywheel runout.	CL
Contraction of the second seco	Maximum allowable runout:	
SUPERIOR TO AEM100	Refer to EM section ("Inspection", "CYLINDER BLOCK").	MT
	ISTALLATION	AT
6 (1) KV30101600 (J33213)	Insert Tool into clutch disc hub when installing clutch cover and disc.	<i>1</i> 44 U
	Be careful not to allow grease to contaminate clutch facing. Tighten bolts in numerical order, in two steps. First step:	FA
	[]: 10 - 20 N·m (1.0 - 2.0 kg-m, 7 - 14 ft-lb)	RA
	Final step:	
5	FN : 22 - 30 N.m. (2.0 - 2.0 km m. 16 - 02 H lb.)	BR
SCL511-A		
		st
		RS
		BT

- HA
- EL

IDX

CLUTCH CONTROL SYSTEM

Type of clutch control

Mechanical type

CLUTCH DISC

CLUTCH PEDAL

	Unit: mm (in)
Engine	SR20DE
Model	215
Facing size (Outer dia. x inner dia. x thickness)	215 x 140 x 3.5 (8.46 x 5.51 x 0.138)
Thickness of disc assembly with load	7.6 - 8.0 (0.299 - 0.315) with 3,923 N (400 kg, 882 lb)

General Specifications CLUTCH COVER

Engine		SR20DE
Model		215
Full-load	N (kg, lb)	4,413 (450, 992)

Inspection and Adjustment CLUTCH COVER

Unit: mm (in)

	Unit: mm (in)
Pedal height "H" *1	159.5 - 169.5 (6.28 - 6.67)
Pedal free travel "A" (at pedal pad)	10.8 - 15.1 (0.425 - 0.594)
Withdrawal lever play "B"	2.5 - 3.5 (0.098 - 0.138)
Clearance "C" (between pedal stopper rubber and clutch interlock switch) *2	0.3 - 1.0 (0.012 - 0.039)

*1: Measured from surface of dash lower panel to surface of pedal pad.

*2: Clutch pedal fully depressed.

CLUTCH DISC

	Unit: mm (in)
Disc model	215
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)	102.5 (4.04)
Maximum backlash of spline (at outer edge of disc)	0.9 (0.035)

 Cover model
 215

 Uneven limit of diaphragm spring toe
 0.7 (0.028)