CLUTCH

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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.

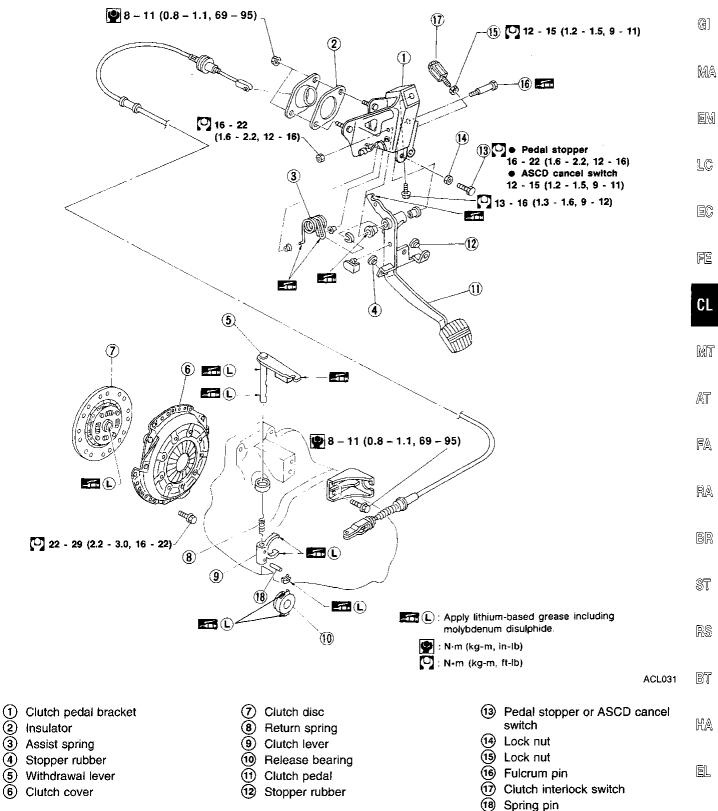
Tool number (Kent-Moore No.) Tool name	Description	
KV30101600 (New) KV30101000 (Former) (J33213) Clutch aligning bar	New a Former	Installing clutch cover and clutch disc
	NT645	a: 15.9 mm (0.626 in) dia. b: 17.9 mm (0.705 in) dia. c: 40 mm (1.57 in)
ST20050240 (—) Diaphragm spring adjusting wrench	a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

SEC. 300-307-465

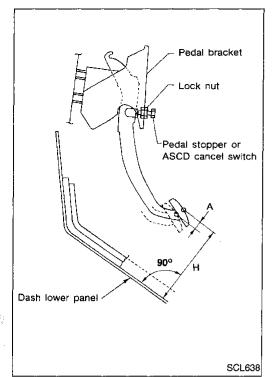
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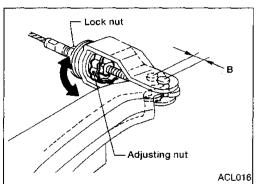
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Adjusting Clutch Pedal

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

Pedal height "H":

- 153 163 mm (6.02 6.42 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 prestretch 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.

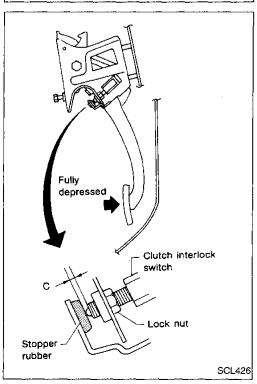
Pedal free travel "A":

11.0 - 15.0 mm (0.433 - 0.591 in)



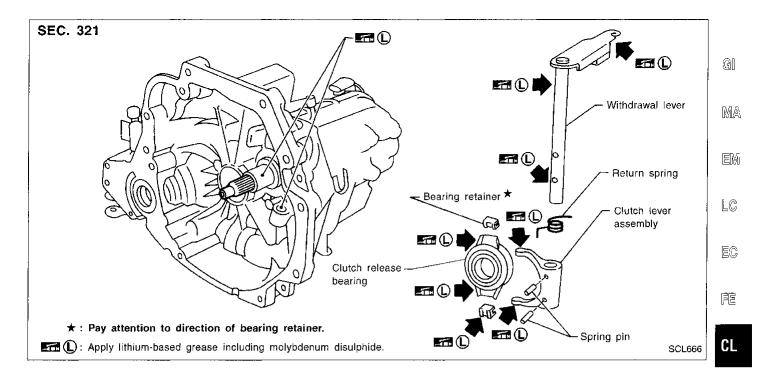
 Adjust clearance "C" shown in the figure while fully depressing clutch pedal. Clearance "C":

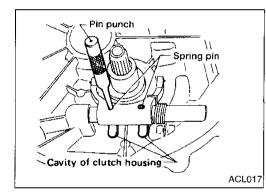
0.3 - 1.0 mm (0.012 - 0.039 in)



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CLUTCH RELEASE MECHANISM





Lithium-based grease including molybdenum

ACL020

disulphide

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Clutch Release Mechanism

REMOVAL AND INSTALLATION

- AT Remove release bearing by pulling bearing retainers out-. ward.
- Align spring pin with cavity of clutch housing and tap out FA spring pin.
- To install, reverse removal procedure.

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INSPECTION

Check the following items, and replace if necessary.

- ST 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 RŜ wear, rust or damage

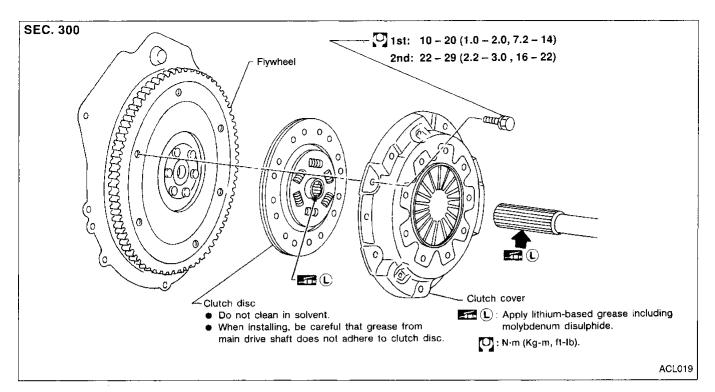
LUBRICATION

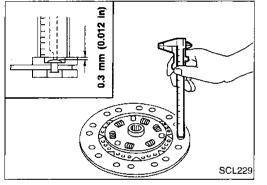
- BT Apply recommended grease to contact surface and rubbing surface.
- Too much lubricant may damage clutch disc facing. HA

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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)

Backlash of spline

 Clutch disc, for backlash of spline and runout of facing Maximum backlash of spline (at outer edge of disc): MODEL 190 0.8 mm (0.031 in) MODEL 215 0.9 mm (0.035 in)

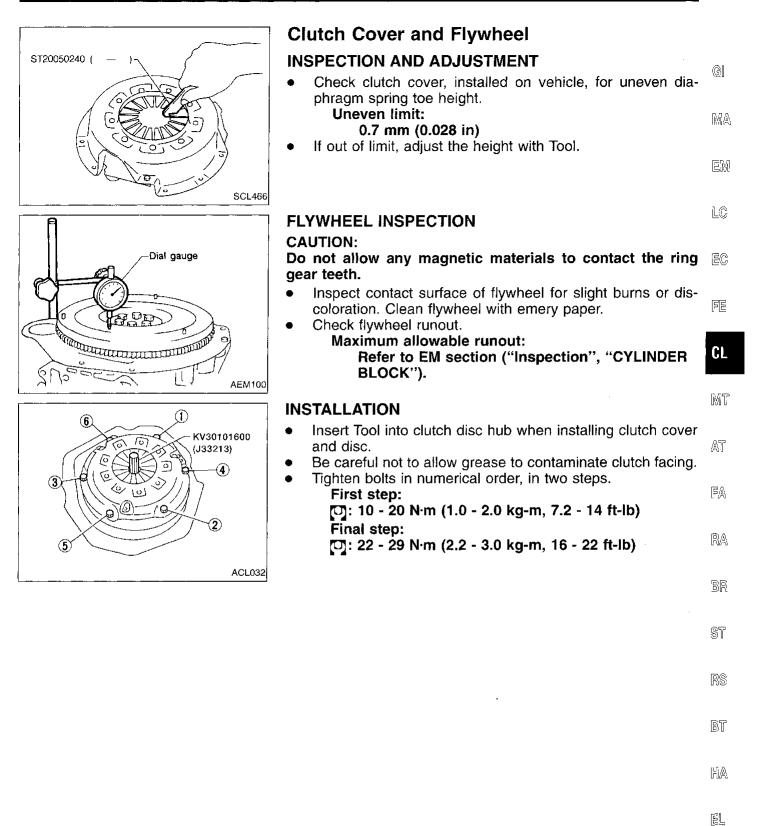
Runout limit: 1.0 mm (0.039 in)

Distance of runout check point (from hub center): MODEL 190 90 mm (3.54 in)

MODEL 215 102.5 mm (4.04 in)

INSTALLATION

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



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General Specifications CLUTCH COVER

CLUTCH CONTROL SYSTEM

Type of clutch control

Mechanical type

CLUTCH DISC

		Unit: mm (in)
Engine	GA16DE	SR20DE
Model	190	215
Facing size (Outer dia. x inner dia. x thickness)	190 x 132 x 3.5 (7.48 x 5.20 x 0.138)	215 x 140 x 3.5 (8.46 x 5.51 x 0.138)
Thickness of disc assembly with load	7.6 - 8.0 (0.315 - 0.331) with 3,825 N (390 kg, 860 lb)	7.6 - 8.0 (0.299 - 0.315) with 3,923 N (400 kg, 882 lb)

Engine	GA16DE	SR20DE
Model	190	215
Full-load N (F	3,825 g, lb) (390, 860)	4,413 (450, 992)

CLUTCH PEDAL

	Unit: mm (in)
Pedal height "H" ^{*1}	153 - 163 (6.02 - 6.42)
Pedal free travel "A" (at pedal pad)	11.0 - 15.0 (0.433 - 0.591)
Withdrawal lever play "B"	2.5 - 3.5 (0.098 - 0.138)
Clearance "C" (between pedal stopper rubber and clutch inter- lock 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)
Model	190	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)	90 (3.54)	102.5 (4.04)
Maximum backlash of spline (at outer edge of disc)	0.8 (0.031)	0.9 (0.035)

Inspection and Adjustment CLUTCH COVER

		Unit: mm (in)
Model	190	215
Diaphragm spring height	29.7 - 31.7 (1.169 - 1.248)	30.5 - 32.5 (1.201 - 1.280)
Uneven limit of diaphragm spring toe height	0.7 (0.028)	