SECTION CL

CLUTCH

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RS5F50A

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PRECAUTIONS

Precautions



Precautions

- Recommended fluid is brake fluid "DOT 4". Refer to MA-16, "Fluid and Lubricants".
- 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:

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

PREPARATION

Special Service Tools

Special Service Tools

NJCL0002

		NJCLO
Tool number Tool name	Description	
GG94310000 Flare nut torque wrench		Removing and installing clutch piping a: 10 mm (0.39 in)
KV30101600 (New) KV30101000 (Former) Clutch aligning bar	NT406 New Former	Installing clutch cover and clutch disc (F30A and F70A) a: 15.9 mm (0.626 in) dia. b: 17.9 mm (0.705 in) dia. c: 40 mm (1.57 in)
ST20630000 Clutch aligning bar	NT645	Installing clutch cover and clutch disc (F50A) a: 15.8 mm (0.622 in) dia. b: 22.9 mm (0.902 in) dia. c: 45.0 mm (1.772 in)
ST20050240 Diaphragm spring adjust- ing wrench	NT405	Adjusting unevenness of diaphragm spring of clutch cover a: 150 mm (5.91 in) b: 25 mm (0.98 in)
KV32101000 Pin punch	NT404	Removing and installing spring pin a: 4 mm (0.16 in) dia.
	NT410	

Commercial Service Tools

Tool name	Description	
1 Flare nut crowfoot 2 Torque wrench	a () NT360	Removing and installing clutch piping a: 10 mm (0.39 in)

	Symptom				SUSPECTED PARTS (Possible cause)	Reference page	
Clutch does not disen- gage	Clutch slips	Clutch noisy	Clutch pedal spongy	Clutch grabs/chatters	TED PARTS cause)	page e	
<u> </u>	<u> </u>				CLUTCH PEDAL (Free play out of adjustment)	CL-10	
N			-		CLUTCH LINE (Air in line)	CL-10	
ω			Ν		MASTER CYLINDER PISTON CUP (Damaged)	CL-11	
4			2		OPERATING CYLINDER PISTON CUP (Damaged)	CL-14	
				-	ENGINE MOUNTING (Loose)	Refer to EM-137, "Removal and Installation" (QG engine model) and EM-137, "Removal and Installation" (YD engine model).	
		<u> </u>			RELEASE BEARING (Worn, dirty or damaged)	CL-17 (RS5F30A, RS5F70A), CL-20 (RS5F50A)	
СЛ					CLUTCH DISC (Out of true)	CL-22	
СЛ				N	CLUTCH DISC (Runout is excessive)	CL-22	
л					CLUTCH DISC (Lining broken)	CL-22	
СЛ					CLUTCH DISC (Dirty or burned)	CL-22	
СЛ	N			N	CLUTCH DISC (Oily)	CL-22	
	N			N	CLUTCH DISC (Worn out)	CL-22	
				N	CLUTCH DISC (Hardened)	CL-22	
СЛ					CLUTCH DISC (Lack of spline grease)	CL-22	
6	ω				DIAPHRAGM SPRING (Damaged)	CL-23	
ი				N	DIAPHRAGM SPRING (Out of tip alignment)	CL-23	1
7	4				PRESSURE PLATE (Distortion)	CL-23	NJCL
	СЛ				FLYWHEEL (Distortion)	CL-23	NJCL0004S0101

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

NVH Troubleshooting Chart

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.

NJCL0004

CL-4

Components - RHD Model with QG Engine -



- 1. Clutch pedal bracket
- 2. Pedal stopper bolt
- 3. Bush
- 4. Clutch pedal
- 5. Bush
- 6. Clevis pin
- 7. Assist spring
- 8. Return spring
- 9. Bush
- 10. Stopper rubber

- 11. Bush
- 12. Snap pin
- 13. Fulcrum pin
- 14. Clutch master cylinder
- 15. Nipple
- 16. Reservoir cap
- 17. Reservoir tank
- 18. Hose clamp
- 19. Hose
- 20. Washer

- 21. Clutch disc
- 22. Clutch cover
- 23. Withdrawal lever
- 24. Spacer
- 25. Operating cylinder
- 26. Clutch hose
- 27. Clutch lever
- 28. Spring pin
- 29. Release bearing
- 30. Release bearing spring



- 1. Clutch pedal bracket
- 2. Clevis pin
- 3. Bush
- 4. Snap pin
- 5. Pedal stopper bolt
- 6. Clutch pedal
- 7. Clutch master cylinder
- 8. Nipple

- 9. Reservoir cap
- 10. Reservoir tank
- 11. Hose clamp
- 12. Hose
- 13. Washer
- 14. Clutch disc
- 15. Clutch cover
- 16. Withdrawal lever

- 17. Spacer
- 18. Operating cylinder
- 19. Clutch hose
- 20. Clutch lever
- 21. Spring pin
- 22. Release bearing
- 23. Release bearing spring

Components — RHD Model with YD Engine -



- 1. Clutch pedal bracket
- 2. Pedal stopper bolt
- 3. Bush
- 4. Clutch pedal
- 5. Bush
- 6. Clevis pin
- 7. Assist spring
- 8. Bush
- 9. Stopper rubber
- 10. Bush

- 11. Snap pin
- 12. Fulcrum pin
- 13. Clutch master cylinder
- 14. Nipple
- 15. Reservoir cap
- 16. Reservoir tank
- 17. Hose clamp
- 18. Hose
- 19. Washer

- 20. Air bleeder screw
- 21. Withdrawal lever
- 22. Operating cylinder
- 23. Clutch hose
- 24. Clutch disc
- 25. Clutch cover
- 26. Clutch hose connector
- 27. Release bearing
- 28. Washer



- 1. Clutch pedal bracket
- 2. Clevis pin
- 3. Bush
- 4. Snap pin
- 5. Pedal stopper bolt
- 6. Clutch pedal
- 7. Clutch master cylinder
- 8. Nipple

- 9. Reservoir cap
- 10. Reservoir tank
- 11. Hose clamp
- 12. Hose
- 13. Washer
- 14. Air bleeder screw
- 15. Withdrawal lever

- 16. Operating cylinder
- 17. Clutch hose
- 18. Clutch disc
- 19. Clutch cover
- 20. Clutch hose connector
- 21. Release bearing
- 22. Washer

Inspection and Adjustment CLUTCH PEDAL INSPECTION

NJCL0006

NJCL0006S03

Pedal Stroke

N ICL 000650301 Check clutch pedal stroke by using a 1-meter rule to measure the total pedal stroke. Place end of rule onto the middle of the clutch pedal pad. Place a book/clipboard on the driver's seat to set a reference point, ensure the book/clipboard does not move during pedal depression. Mark (A) the pedal fully up position on the rule. Depress the clutch pedal and mark (B) the rule again next to the reference point on the book/clipboard. Measure the distance between the marks (A and B), this is the actual pedal stroke (S). Check the specified pedal stroke in the table, adjust actual pedal stroke if necessary (refer to "CLUTCH PEDAL ADJUSTMENT").

NOTE:

- Do not use steering wheel as a reference point, angle gives incorrect reading.
- Ensure there is no interference between the floor carpet and clutch pedal when fully depressed.



SCL702

CLUTCH PEDAL ADJUSTMENT

Pedal Stroke

NJCL0006S04

- Loosen the pedal stopper bolt completely (so there is no contact between pedal and stopper bolt).
- 2. Adjust pedal stroke to the specified value with the master cylinder push rod.
- 3. Adjust the pedal stopper bolt until it is just in contact with the pedal, then tighten the lock nut.
- 4. Once stroke is set to specification, adjust clutch pedal free play.

Pedal stroke "S". Refer to "SDS", CL-24.

Pedal Free Play

- Adjust pedal free play to the specified value with the master cylinder push rod.
- 2. Tighten lock nut of the master cylinder push rod.
- Push on the clutch pedal until resistance is felt, and check the distance the pedal moves.

Pedal free play "A". Refer to "SDS", CL-24.

AIR BLEEDING PROCEDURE

- 1. Bleed air from clutch operating cylinder according to the following procedure.
- Carefully monitor fluid level at master cylinder during bleeding operation.
- a. Top up reservoir with recommended brake fluid.
- b. Connect a transparent vinyl tube to air bleeder valve.
- c. Slowly depress the clutch pedal to its full stroke and release it completely. Repeat this operation several times at 2 to 3 seconds intervals.
- d. Open the air bleeder with the clutch pedal fully depressed.
- e. Close the air bleeder.
- f. Release the clutch pedal and wait at least 5 seconds.
- g. Repeat steps c through f mentioned above, then air bubbles will no longer appear at the damper in the brake fluid.

Air bleeder valve tightening torque:

(: 5.9 - 9.8 N·m (0.6 - 1.0 kg-m, 52 - 86 in-lb)





CLUTCH MASTER CYLINDER

Components

Components NJCL0007 SEC. 305 **RHD model** Push rod 🚾 S Stopper Nipple Contact surface Reservoir cap 🕒 5.1 - 6.4 to piston assembly (0.52 - 0.66)Spring pin 46 - 57) Piston assembly Bracket Stopper ring Return spring 3.0 - 5.8 GS ((0.3 - 0.6, d Reservoir Seal 💽 26 - 52) Å Snap pin AMMANA AMMANA Washer tank Piston cup Clamp Rubbing surface Clevis to piston assembly Clamp Hose Cylinder body 0 11 - 14 (1.1 - 1.5, 8 - 10) Rubbing surface to piston assembly Clevis pin 0 11 - 14 Lock nut Image: N•m (kg-m, ft-lb) (1.1 - 1.5, 8 - 10)🕑 8 - 10 Dust cover Figure : Apply rubber lubricant. (0.8 - 1.1, 70 - 95) (S) : Apply silicone grease. Contact surface $\mathbf{rad}(\mathbf{L})$: Apply lithium-based grease including molybdenum disulphide. to piston assembly SCL840-A **SEC. 305** LHD model Stopper ring **9** 5.1 - 6.4 (0.52 - 0.66, 46 - 57) Reservoir cap Push rod 🗺 S Contact surface Piston cup to piston assembly Reservoir tank Nipple Q Rubbing surface to piston assembly Spring pin Washer Stopper 0 Return spring 9 3.0 - 5.8 -0 $\underline{0}$ 0 Seal 💽 (0.3 - 0.6, 26 - 52)INNI MANA Piston Clamp Snap pin m assembly Bracket Ø Ó Clevis Hose Clamp A 🕑 : N•m (kg-m, in-lb) Clevis pin Cylinder body Lock nut 9 - 10 🕐 : N•m (kg-m, ft-lb) (0.8 - 1.1, 70 - 95) Rubbing surface 🖬 🛈 : Apply rubber lubricant. Dust cover to piston assembly **5** S : Apply silicone grease. Contact surface 🖬 🕦 : Apply lithium-based grease to piston assembly including molybdenum disulphide. SCL847-A

Removal

1. Drain brake fluid.

CAUTION:

Be careful not to splash brake fluid on painted areas; it may cause paint damage. If brake fluid is splashed on painted areas, wash it away with water immediately.

- 2. Remove clutch tube using a flare nut wrench.
- 3. Remove snap pin between clutch pedal and push rod, and remove clevis pin.
- 4. Unscrew master cylinder assembly mounting nuts and remove master cylinder assembly from vehicle.

Installation

- 1. Connect clutch tube to master cylinder assembly, and handtighten flare nut.
- 2. Install master cylinder assembly to vehicle, and tighten mounting nuts to the specified torque.

🖸 : 11 - 14 N·m (1.1 - 1.5 kg-m, 8 - 10 ft-lb)

- Tighten clutch tube flare nut using a flare nut torque wrench.
 15 18 N·m (1.5 1.8 kg-m, 11 13 ft-lb)
- 4. After installing clevis pin, install snap pin to connect clutch pedal to push rod.
- 5. After finishing the operation, bleed air from clutch piping connector and operating cylinder. (Refer to "Air Bleeding Procedure", CL-10.)



Disassembly

- 1. Loosen push rod lock nut A to remove clevis and lock nut A.
- 2. Remove dust cover.
- 3. Remove stopper ring and stopper, and remove push rod from cylinder body. During removal, keep push rod depressed, to prevent piston inside master cylinder from popping out.
- 4. Remove piston assembly from cylinder body.

Inspection

Check the following items, and replace if necessary.

NJCL0011

- 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

Assembly

- Apply rubber lubricant to the sliding part of piston assembly, and insert piston assembly.
- 2. After installing stopper to push rod, install stopper ring while keeping piston assembly depressed by hand, so that piston assembly will not pop out.

CAUTION:

Stopper ring cannot be reused. Always use a new stopper ring for assembly.

- 3. Install dust cover.
- 4. Install clevis to push rod, and tighten lock nut A to the specified torque.

♀ : 8 - 10 N·m (0.8 - 1.1 kg-m, 70 - 95 in-lb)

5. Install spring pin using a pin punch.

OPERATING CYLINDER

Components

Components



Removal

1. Drain brake fluid.

CAUTION:

Be careful not to splash brake fluid on painted areas; it may cause paint damage. If brake fluid is splashed on painted areas, wash it away with water immediately.

- 2. Remove union bolt and clutch hose from operating cylinder.
- 3. Remove operating cylinder mounting bolts, and remove cylinder from vehicle.

Disassembly

Remove dust cover, and remove piston assembly from cylinder body.

Inspection

NJCL0022

- Inspect for following, and replace parts if necessary.
- Damage, foreign material, wear, rust, and pinholes on the cylinder inner surface, piston, and sliding part of piston cup
- Weak spring
- Crack and deformation of dust cover

OPERATING CYLINDER

Assembly

Assembly

- Apply recommended rubber grease to piston cup and piston, and insert piston assembly.
- 2. Install dust cover.

Installation

Install the components in the reverse order of removal. Adhere to the operations described below.

CAUTION:

Install the hose without twisting it.

- The copper washer of the union bolt should not be reused. Always use a new copper washer for installation.
- After finishing the operation, bleed air from the clutch piping connector and operating cylinder. Refer to "Air Bleeding Procedure", CL-10.

PIPING

Drain brake fluid.

Removal

CAUTION:

1.

2.

3.

4.

5.

Removal



Installation direction I. When installing clutch hose to bracket, face lock plate in the correct direction as shown to secure clutch hose. CAUTION:

Install clutch hose without twisting or bending it.

Remove fuel filter mounting bracket.

areas, wash it away with water immediately.

Remove clutch hose and clutch tube.

Remove flare nut using a flare nut wrench.

Remove air cleaner and air duct.

2. Tighten flare nut to the specified torque, using a flare nut wrench.

Be careful not to splash brake fluid on painted areas; it may cause paint damage. If brake fluid is splashed on painted

[□]: 15 - 18 N·m (1.5 - 1.8 kg-m, 11 - 13 ft-lb) CAUTION:

Be careful not to damage flare nut and clutch tube.

3. Install clutch hose to operating cylinder, and tighten mounting bolts to the specified torque.

🖸 : 17 - 19 N·m (1.7 - 2.0 kg-m, 13 - 14 ft-lb)

- 4. After finishing the operation, bleed air from the clutch piping. Refer to "Bleeding Procedure", CL-10.
- Lock plate Bracket Protrusion SCL730

Components







Removal

- 1. Remove manual transaxle from vehicle. Refer to MT-24, "Removal".
- 2. Move withdrawal lever enough to remove release bearing, and remove release bearing from clutch lever.
- 3. Support clutch lever claws with an appropriate wood block, align retaining pin with A in the figure, and drive out spring pin using a pin punch.
- 4. Pull out withdrawal lever and remove clutch lever.

Inspection

- Replace the release bearing if it is seized, damaged, faulty in rotation direction, or has poor aligning function.
- Replace the withdrawal lever if its contact surface is worn abnormally.
- Replace the clutch lever if its contact surface is worn abnormally.
- Replace the dust seal if it is deformed or cracked.

Installation

CAUTION:

 Be sure to apply grease to the clutch components. Otherwise, abnormal noise, poor clutch disengagement, or clutch damage may occur. Wipe the excess grease off completely, because it may cause the clutch components to slip and shudder.

- Keep the clutch disc facing, pressure plate, and flywheel free of oil and grease.
- Clean old grease and abrasive materials off the grease application area.

Installation (Cont'd)



- Apply approximately 1 mm (0.04 in)-thick clutch sleeve grease evenly on the sliding part of the clutch lever and the release bearing spring.
- Apply just enough clutch sleeve grease to fill up the release bearing inner groove.
- Apply the clutch grease to the clutch disc and the input shaft spline. Install the clutch disc to the input shaft, remove the excess grease around the shaft, and remove the clutch disc.
- Lightly and evenly apply the clutch sleeve grease on the sliding part of the release bearing, install the release bearing, remove the excess grease around the bearing, and remove the release bearing.

- Assemble clutch lever to clutch housing, and insert withdrawal 1 lever.
- 2. Support clutch lever claws with an appropriate wood block, and install a new spring pin using a pin punch.

CAUTION:

Spring pin cannot be reused.

3. Install release bearing spring to release bearing as shown in the figure.

Operate withdrawal lever manually, press clutch spring from 4. both sides, and install release bearing to clutch lever securely. 5. Make sure a click is heard when release bearing spring is pressed from both sides.

RS5F30A, RS5F70A Installation (Cont'd)



6. Make sure each sliding part operates smoothly when withdrawal lever is moved.

CAUTION:

Remove any excess grease with a shop towel.

Components

RS5F50A



Removal

- 1. Remove manual transaxle from vehicle. Refer to MT-27, "Removal".
- 2. Move withdrawal lever enough to remove release bearing, and remove release bearing from clutch withdrawal lever.
- 3. Remove dust cover.
- 4. Remove retainer spring from withdrawal lever.



Inspection

- Replace the release bearing if it is seized, damaged, faulty in rotation direction, or has poor aligning function.
- Replace the withdrawal lever if its contact surface is worn abnormally.
- Replace the dust cover if it is deformed or cracked.

Installation

1. Apply a coat of grease to parts as instructed in the following cautions and notes before installation.

CAUTION:

- Be sure to apply grease to the clutch components. Otherwise, abnormal noise, poor clutch disengagement, or clutch damage may occur. Wipe the excess grease off completely, because it may cause the clutch components to slip and shudder.
- Keep the clutch disc facing, pressure plate, and flywheel free of oil and grease.

Clean old grease and abrasive materials off the grease application area.



NOTE:

- Equally apply a coat [approximately 1 mm (0.04 in) thick] of clutch sleeve grease to withdrawal lever and holder spring frictional surfaces.
- Apply a coat of clutch sleeve grease to the grooves on contact surfaces of the withdrawal lever ball pin and inner surface of release bearing so that grease application, make sure that grease is flush with grooves.
- Equally apply a thin coat of clutch sleeve grease to release bearing frictional surface. After grease application, install release bearing. Wipe off excess grease forced out during bearing installation. Remove release bearing.
- 2. Installation is in the reverse order of removal.

CLUTCH DISC, CLUTCH COVER AND FLYWHEEL

Components

Components NJCL0031 **SEC. 300** Ć Flywheel 555XX Clutch disc 0 Do not clean in solvent. 0 When installing, be careful that grease applied to main drive shaft does not adhere to clutch disc. (0 Ø Clutch cover securing bolt First step: 🔽 10 - 20 (1 - 2, 7 - 14) Final step: QG, YD22E engine models (200, 215, 225) 22 - 29 (2.2 - 3.0, 15 - 21) YD22DDT engine models (240) Clutch cover 🕐 : N•m (kg-m, ft-lb) 35 - 44 (3.5 - 4.5, 26 - 32) 📻 🕜 : Apply lithium-based grease including molybdenum disulphide. SCL816-C



Wear limit of facing surface to rivet head: MODEL 240, MODEL 200, MODEL 215 (Part number MODEL 215 (Part number 30100-2F215) Check clutch disc for backlash of spline and runout of facing. Maximum spline backlash (at outer edge of disc): MODEL 200 0.8 mm (0.031 in) MODEL 215 0.9 mm (0.035 in) MODEL 240 1.0 mm (0.039 in) Distance of runout check point (from hub center): MODEL 200 95 mm (3.74 in) MODEL 215 102.5 mm (4.04 in) MODEL 240 115 mm (4.53 in)

NJCL0032

NJCL0032S01

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

CLUTCH DISC, CLUTCH COVER AND FLYWHEEL

NJCL0032S03

NJCL0033



3

SCL600-F

SERVICE DATA AND SPECIFICATIONS (SDS)

Clutch Control System

Wear limit of facing surface

Wearing thickness of facing

Runout limit of facing

Distance of runout check

point (from the hub center) Maximum backlash of

spline (at outer edge disc)

to rivet head

Clutch Control System NJCL0034 Type of clutch control Hydraulic **Clutch Master Cylinder** NJCL0035 Unit: mm (in) Inner diameter 15.87 (5/8) **Clutch Operating Cylinder** NJCL0036 Unit: mm (in) Inner diameter 19.05 (3/4) **Clutch Disc** NJCL0038 Unit: mm (in) QG15DE QG18DE YD22DDT Engine 215 Model 200 240 Part number 30100-2F205 Part number 30100-2F215 Facing size (Outer dia. \times $200\times134\times3.5$ (7.87 \times $215\times140\times3.5$ (8.46 \times $216\times153\times3.45$ (8.50 \times 240 \times 160 \times 3.5 (9.45 \times inner dia. × thickness) 5.28 imes 0.138)5.51 imes 0.138)6.02 × 0.1358) 6.30 × 0.138) 7.4 - 8.0 (0.291 - 0.315) 7.6 - 8.0 (0.299 - 0.315) 7.3 - 7.9 (0.2874 - 0.310) 7.85 - 8.35 (0.3091 -Thickness of disc assembly with 3,780 N (385.6 kg, with 4,904 N (500 kg, 1,103 with 4,900 N (499.8 kg, 0.3287) with 5,690 N (580.2 with load

lb)

0.3 (0.012)

1,102 lb)

1.3 (0.051)

1.0 (0.039)

102.5 (4.04)

0.9 (0.035)

Clutch Cover

849.7 lb)

0.3 (0.012)

95 (3.74)

0.8 (0.031)

NJCL0039 Unit: mm (in)

kg, 1,279 lb)

0.3 (0.012)

_

115 (4.53)

1.0 (0.039)

Engine	QG15DE	QG18DE	YD22DDT
Model	200	215	240
Full-load	3,481 N (355 kg, 783 lb)	4,413 N (450 kg, 992 lb)	5,690 N (580.2 kg, 1,279 lb)
Uneven limit of diaphragm spring toe height	t of diaphragm spring 0.8 (0.031)		0.7 (0.028)

Clutch Pedal

NJCL0040 Unit: mm (in)

Applied model		Hatchback		
Applieu model	QG15DE	YD22DDT	QG18DE	Hatchback
Pedal height "S"	138 - 148 (5.43 - 5.83)	138 - 148 (5.43 - 5.83)	134 - 144 (5.28 - 5.67)	140 - 150 (5.51 - 5.91)
Pedal free play "A"		1 - 3 (0.03	39 - 0.118)	