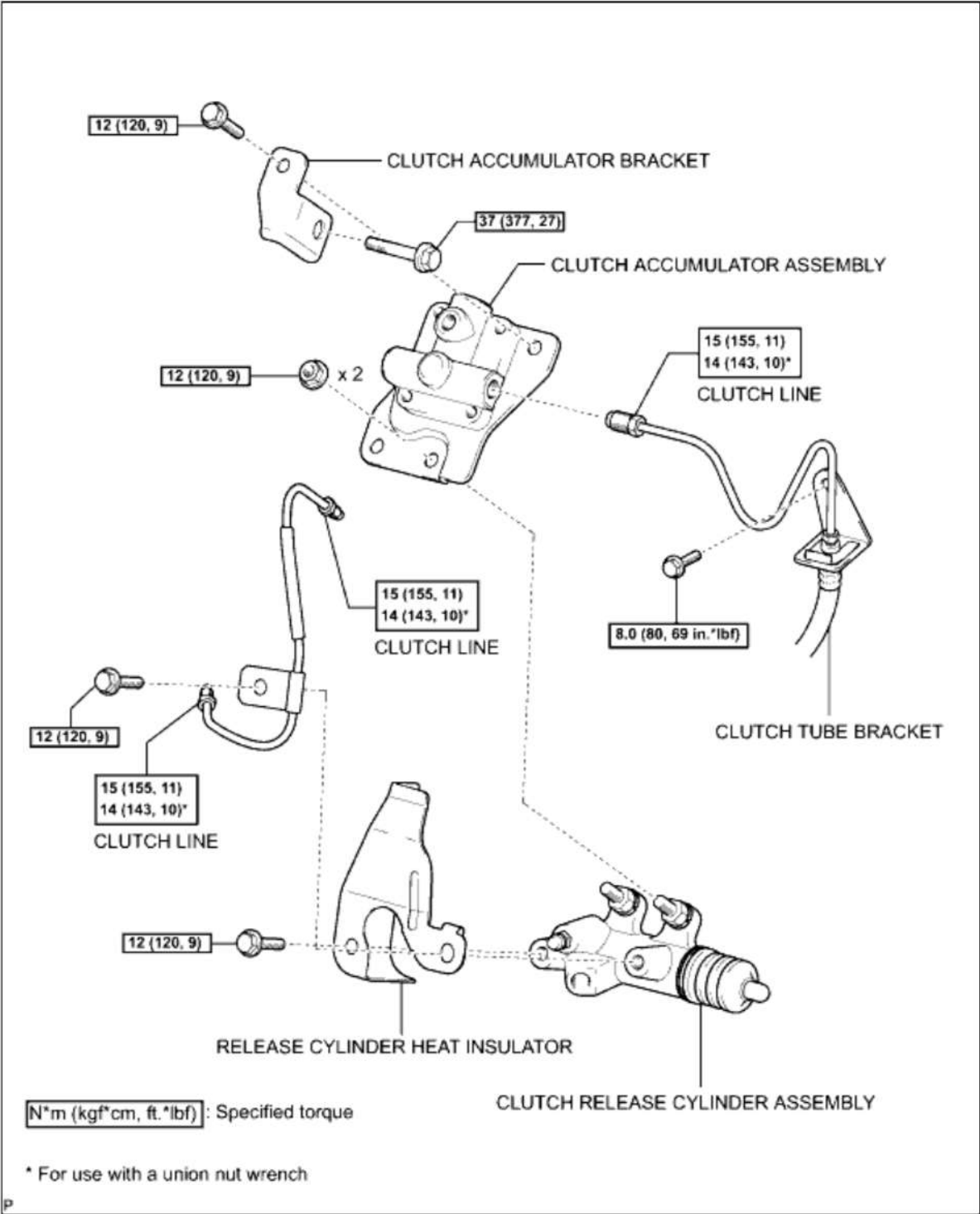


Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000000Z1500CX
Title: CLUTCH: CLUTCH ACCUMULATOR (for E351): COMPONENTS (2010 Corolla)		

COMPONENTS

ILLUSTRATION



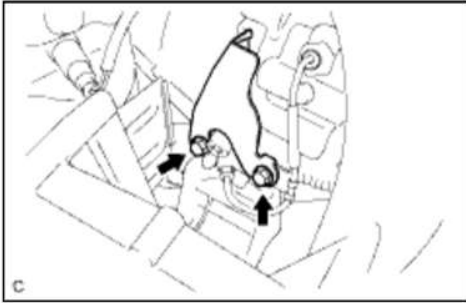


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Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000000Z1600EX
Title: CLUTCH: CLUTCH ACCUMULATOR (for E351): REMOVAL (2010 Corolla)		

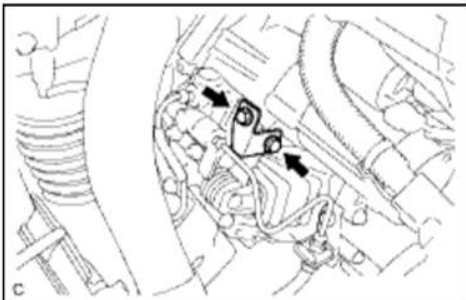
REMOVAL

1. REMOVE RELEASE CYLINDER HEAT INSULATOR



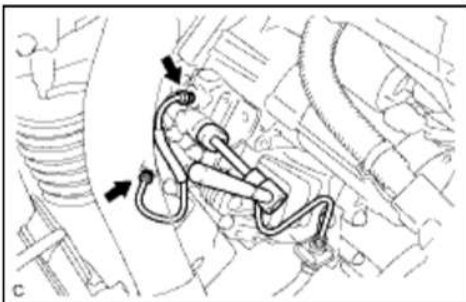
(a) Remove the 2 bolts and release cylinder heat insulator.

2. REMOVE CLUTCH ACCUMULATOR BRACKET



(a) Remove the 2 bolts and clutch accumulator bracket.

3. DISCONNECT CLUTCH LINE

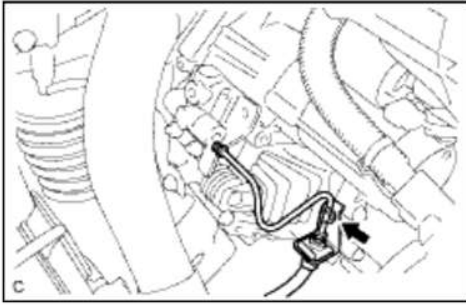


(a) Using a union nut wrench (10 mm), remove the clutch line.

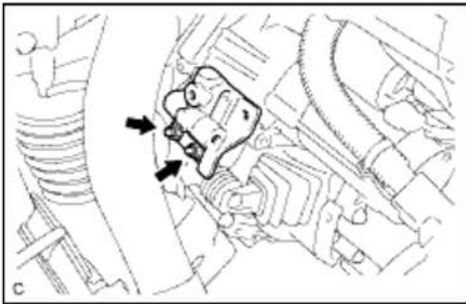
HINT:

Use a container to catch the fluid.

(b) Remove the bolt and disconnect the clutch tube bracket.



4. REMOVE CLUTCH ACCUMULATOR ASSEMBLY



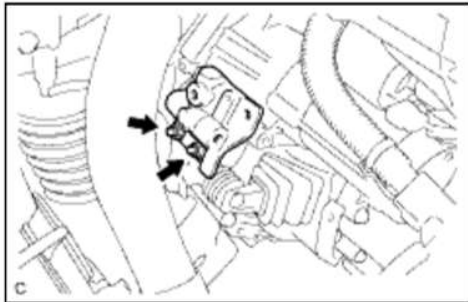
(a) Remove the 2 nuts and clutch accumulator assembly.



Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000000Z1400EX
Title: CLUTCH: CLUTCH ACCUMULATOR (for E351): INSTALLATION (2010 Corolla)		

INSTALLATION

1. INSTALL CLUTCH ACCUMULATOR ASSEMBLY



(a) Install the clutch accumulator assembly with the 2 nuts.

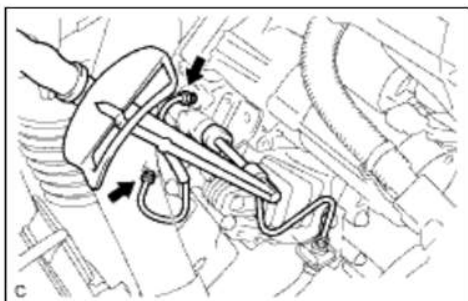
Torque: 12 N·m (120 kgf·cm, 9ft·lbf)

2. CONNECT CLUTCH LINE



(a) Connect the clutch tube bracket with the bolt.

Torque: 8.0 N·m (80 kgf·cm, 69in·lbf)



(b) Using a union nut wrench (10 mm), install the clutch line to the clutch accumulator assembly.

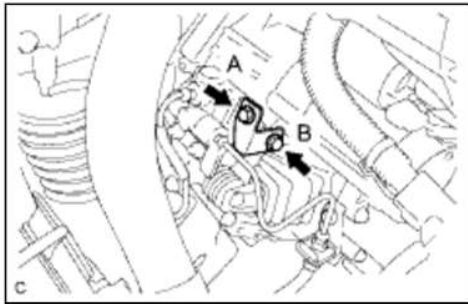
without a union nut wrench - Torque: 15 N·m (155 kgf·cm, 11ft·lbf)

with a union nut wrench - Torque: 14 N·m (143 kgf·cm, 10ft·lbf)

NOTICE:

- Use a torque wrench with a fulcrum length of 250 mm (9.84 in.).
- This torque value is effective when union nut wrench is parallel to the torque wrench.

3. INSTALL CLUTCH ACCUMULATOR BRACKET

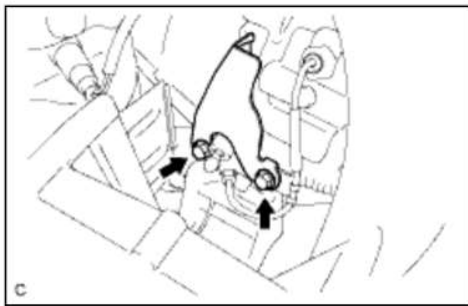


(a) Install the clutch accumulator bracket with the 2 bolts.

Bolt A - Torque: 12 N·m (120 kgf·cm, 9ft·lbf)

Bolt B - Torque: 37 N·m (377 kgf·cm, 27ft·lbf)

4. INSTALL RELEASE CYLINDER HEAT INSULATOR



(a) Install the release cylinder heat insulator with the 2 bolts.

Torque: 12 N·m (120 kgf·cm, 9ft·lbf)

5. FILL BRAKE FLUID RESERVOIR INFO

6. BLEED CLUTCH LINE INFO

7. INSPECT FLUID LEVEL INFO

8. INSPECT FOR FLUID LEAK

HINT:

Check for leaks from the clutch system.

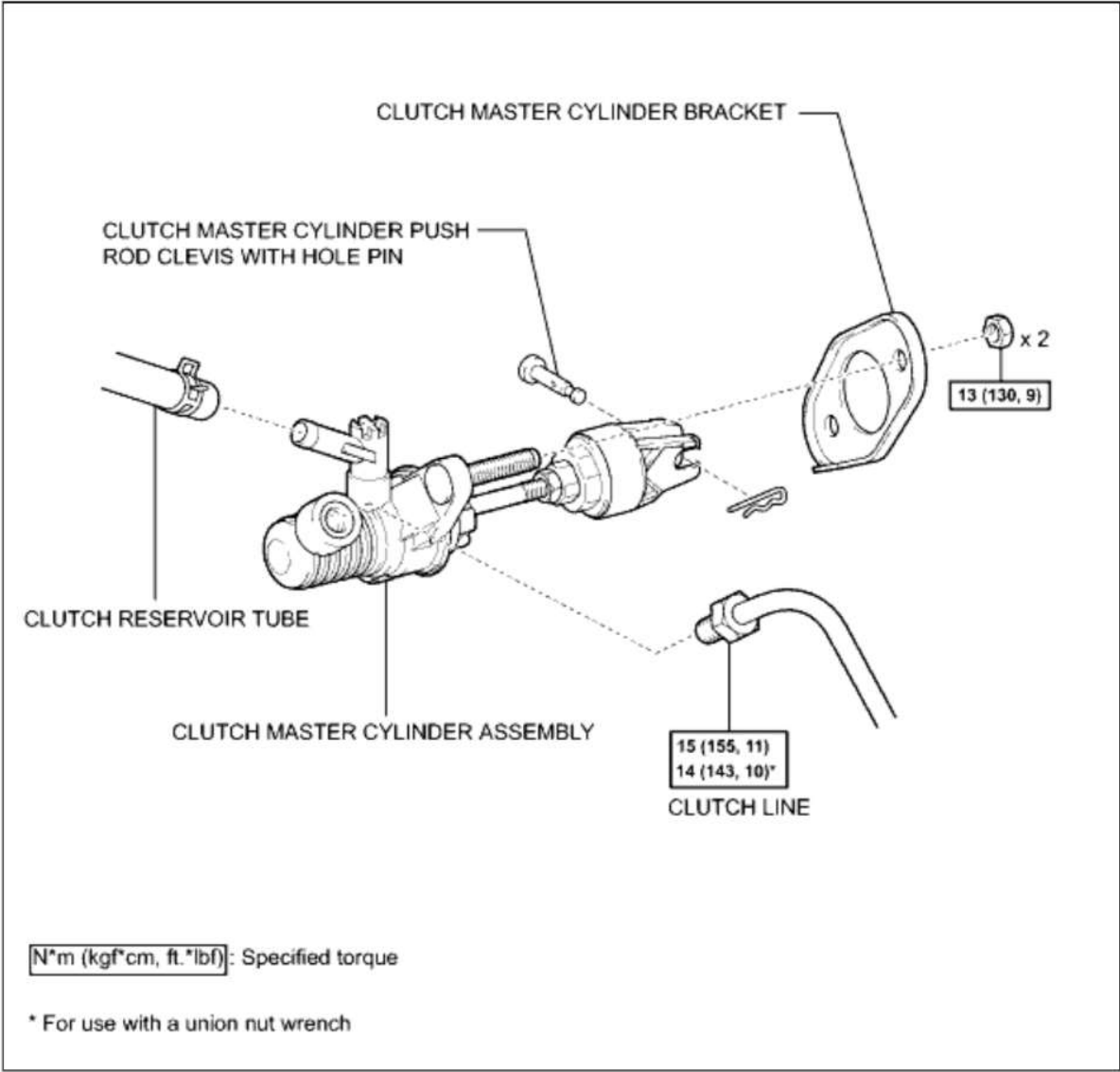


TOYOTA

Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001B2Z010X
Title: CLUTCH: CLUTCH MASTER CYLINDER: COMPONENTS (2010 Corolla)		

COMPONENTS

ILLUSTRATION



Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001B30016X
Title: CLUTCH: CLUTCH MASTER CYLINDER: REMOVAL (2010 Corolla)		

REMOVAL

1. DISCONNECT CLUTCH RESERVOIR TUBE

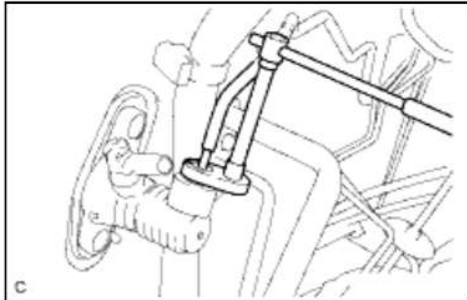
- (a) Loosen the clip and disconnect the clutch reservoir tube from the clutch master cylinder assembly.

NOTICE:

Wash off clutch fluid immediately if it comes in contact with any painted surface.

HINT:

Use a container to catch the fluid.



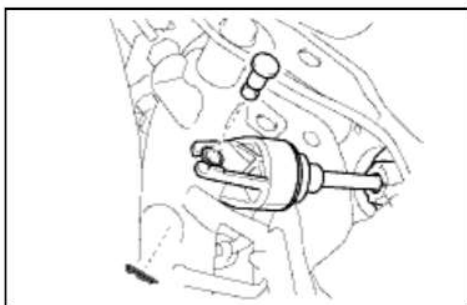
2. DISCONNECT CLUTCH LINE

- (a) Using a union nut wrench (10 mm), disconnect the clutch line.

HINT:

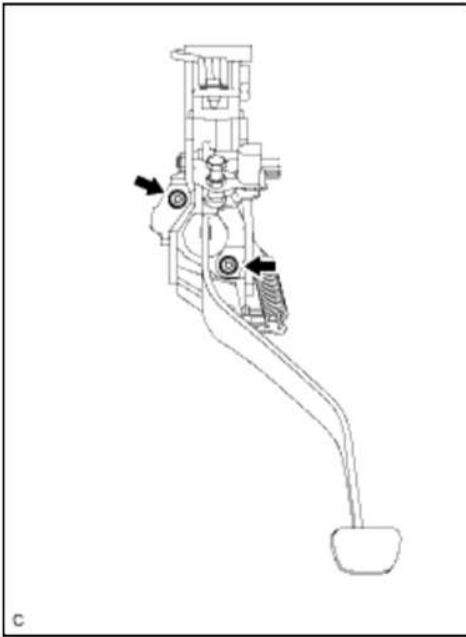
Use a container to catch the fluid.

3. REMOVE CLUTCH MASTER CYLINDER ASSEMBLY



- (a) Remove the clip and hole pin.

- (b) Remove the 2 nuts and clutch master cylinder.



(c) Remove the clutch master cylinder bracket.

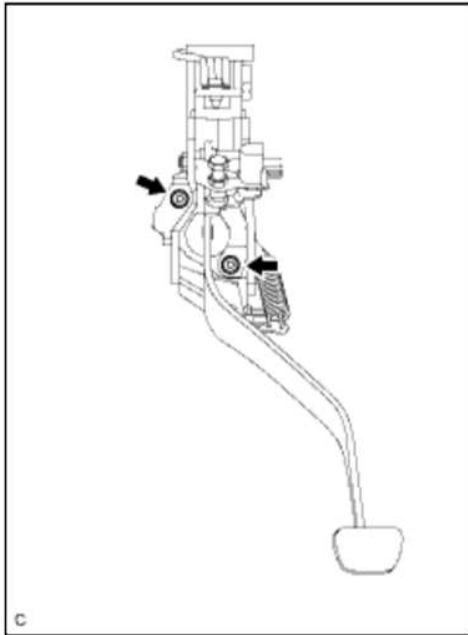


TOYOTA

Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001B2Y016X
Title: CLUTCH: CLUTCH MASTER CYLINDER: INSTALLATION (2010 Corolla)		

INSTALLATION

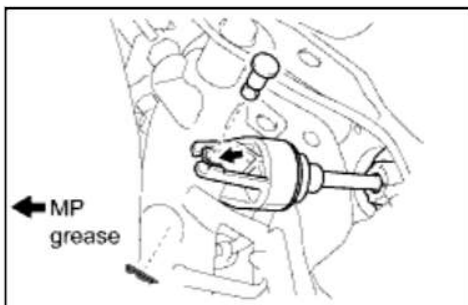
1. INSTALL CLUTCH MASTER CYLINDER ASSEMBLY



(a) Install the clutch master cylinder bracket.

(b) Install the clutch master cylinder with the 2 nuts.

Torque: 13 N·m (130 kgf·cm, 9ft·lbf)



(c) Apply MP grease to the contact surface of the clevis bushing.

(d) Connect the clevis to the clutch pedal sub-assembly with the hole pin.

HINT:

Install the hole pin from the right side of the vehicle.

(e) Install the clip to the hole pin.

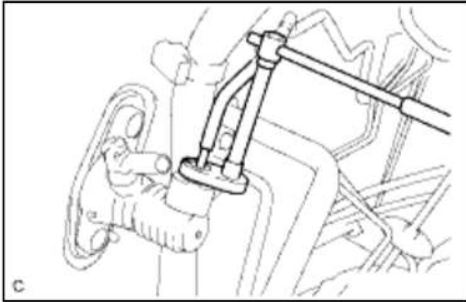
2. CONNECT CLUTCH LINE

(a) Using a union nut wrench (10 mm), connect the clutch line.

without a union nut wrench - Torque: 15 N·m (155 kgf·cm, 11ft·lbf)
with a union nut wrench - Torque: 14 N·m (143 kgf·cm, 10ft·lbf)

NOTICE:

- Use a torque wrench with a fulcrum length of 250 mm (9.84 in.).
- This torque value is effective when the union nut wrench is parallel to the torque wrench.



3. INSTALL CLUTCH RESERVOIR TUBE

(a) Connect the clutch reservoir tube to the clutch master cylinder assembly with the clip.

4. FILL BRAKE FLUID RESERVOIR INFO

5. BLEED CLUTCH LINE INFO

6. INSPECT FLUID LEVEL INFO

7. INSPECT FOR FLUID LEAK

HINT:

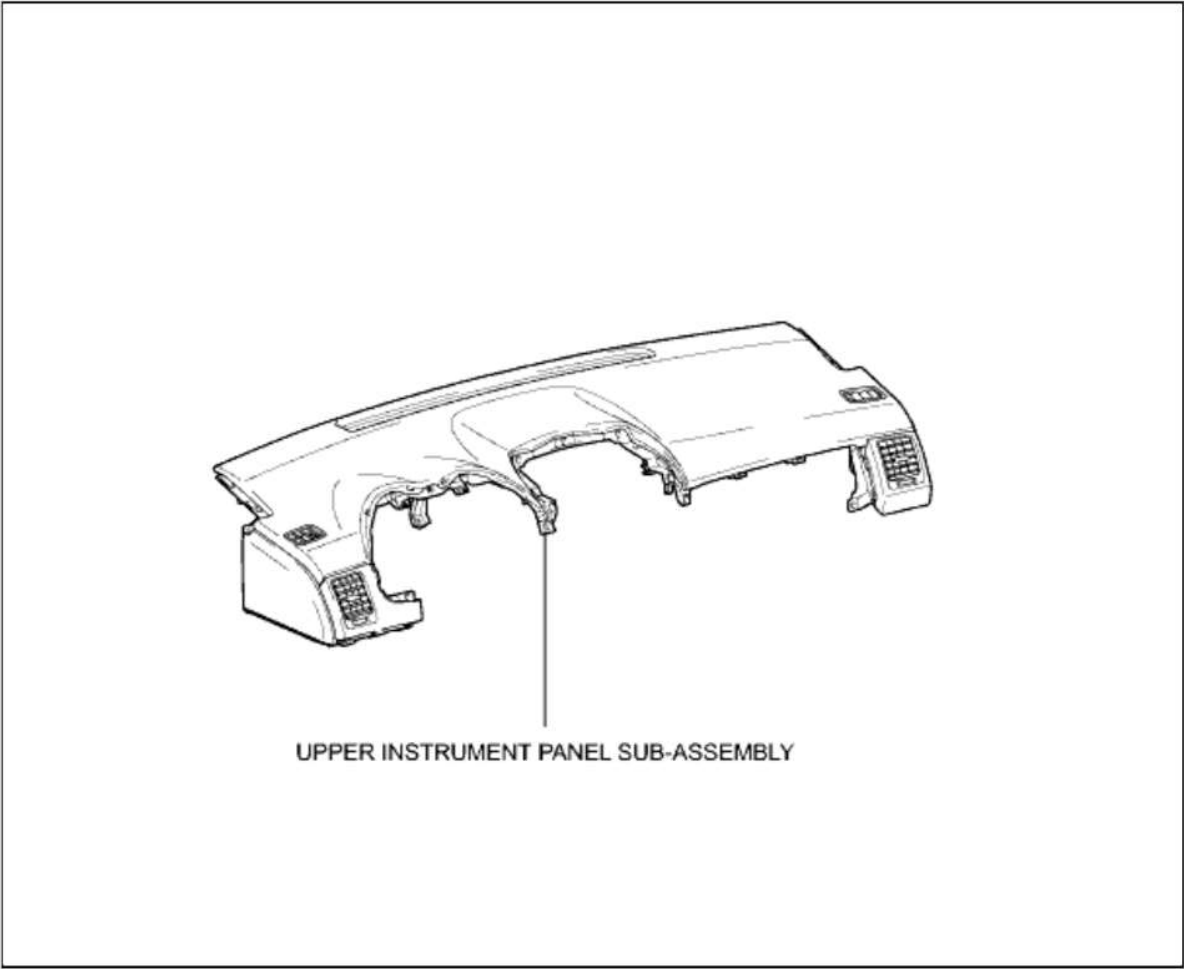
Check for leaks from the clutch system.



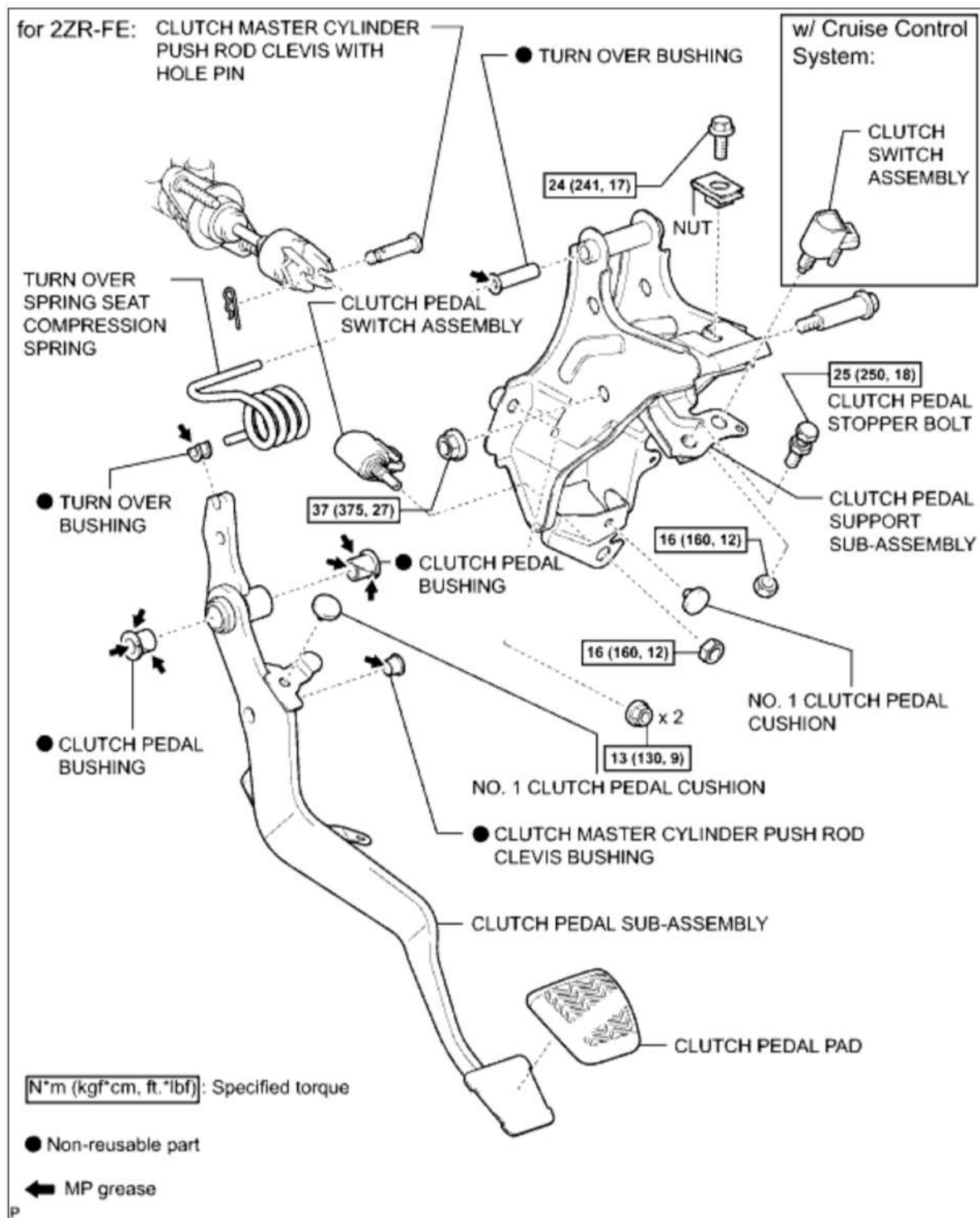
Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002414013X
Title: CLUTCH: CLUTCH PEDAL: COMPONENTS (2010 Corolla)		

COMPONENTS

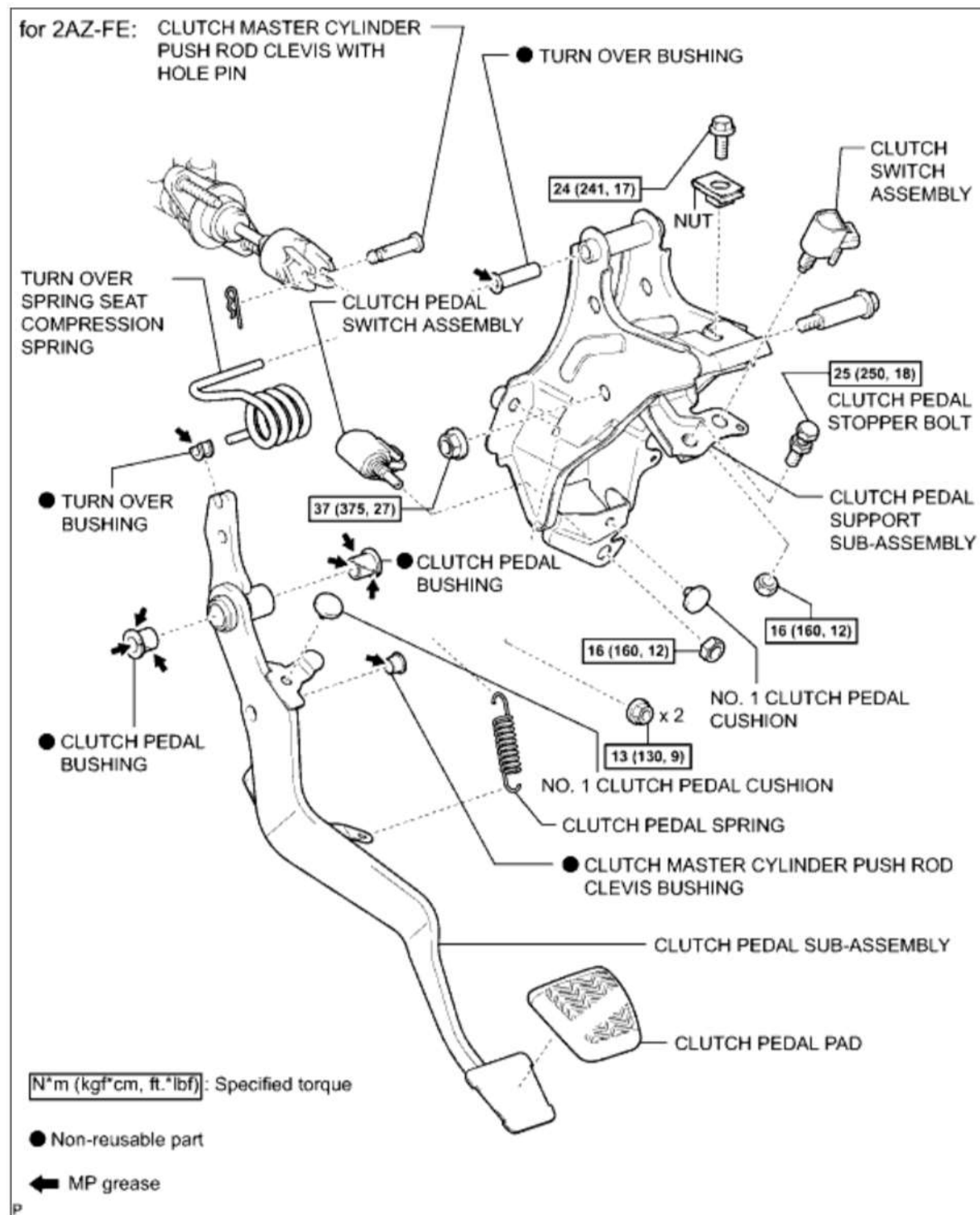
ILLUSTRATION



ILLUSTRATION



ILLUSTRATION



Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002415016X
Title: CLUTCH: CLUTCH PEDAL: REMOVAL (2010 Corolla)		

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

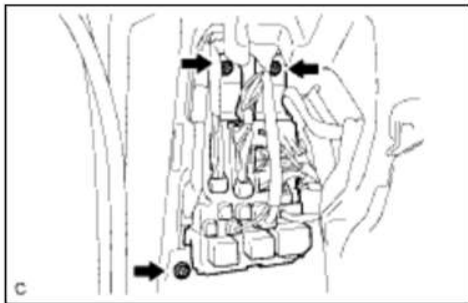
CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

2. REMOVE UPPER INSTRUMENT PANEL SUB-ASSEMBLY



3. SEPARATE MAIN BODY ECU (INSTRUMENT PANEL JUNCTION BLOCK)

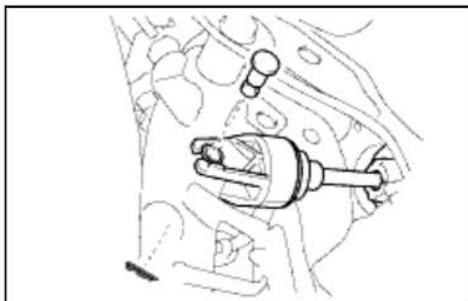


(a) Remove the 3 screws and separate the main body ECU.

4. DISCONNECT CONNECTORS

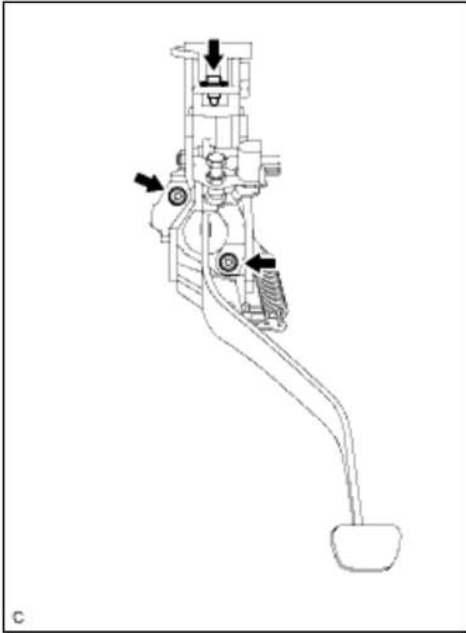
- (a) Disconnect the clutch pedal switch connector.
- (b) Disconnect the clutch switch connector.

5. REMOVE CLUTCH MASTER CYLINDER PUSH ROD CLEVIS WITH HOLE PIN

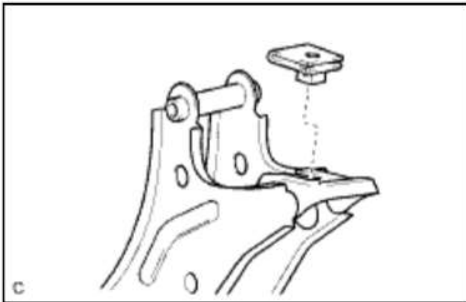


(a) Remove the clip and hole pin.

6. REMOVE CLUTCH PEDAL SUPPORT SUB-ASSEMBLY

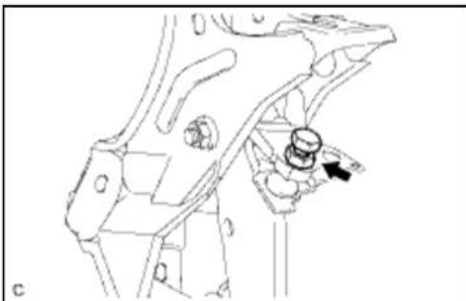


(a) Remove the 2 nuts, bolt and clutch pedal support sub-assembly.



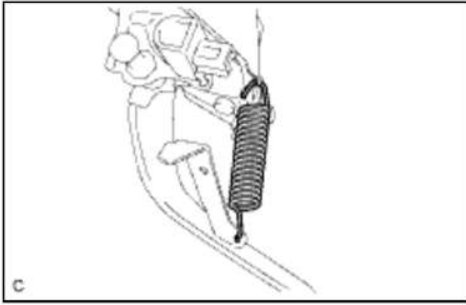
(b) Remove the nut from the clutch pedal support sub-assembly.

7. REMOVE CLUTCH PEDAL STOPPER BOLT



(a) Remove the clutch pedal stopper bolt from the clutch pedal support sub-assembly.

8. REMOVE CLUTCH PEDAL SPRING (for 2AZ-FE)

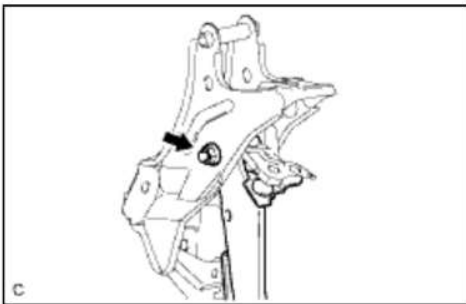


(a) Remove the clutch pedal spring.

9. REMOVE TURN OVER SPRING SEAT COMPRESSION SPRING

- (a) Mount the clutch pedal in a soft jaw vise.
- (b) While the clutch pedal is fully depressed, remove the turn over spring.
- (c) Remove the 2 turn over bushings from the clutch pedal sub-assembly and clutch pedal support sub-assembly.

10. REMOVE CLUTCH PEDAL SUB-ASSEMBLY

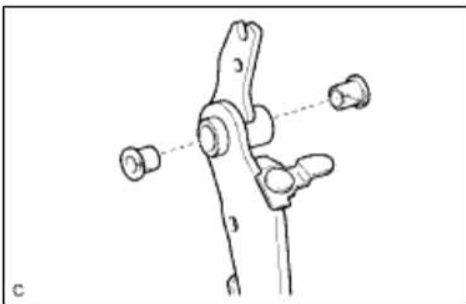


(a) Remove the bolt, nut and clutch pedal sub-assembly from the clutch pedal support sub-assembly.

11. REMOVE CLUTCH PEDAL PAD

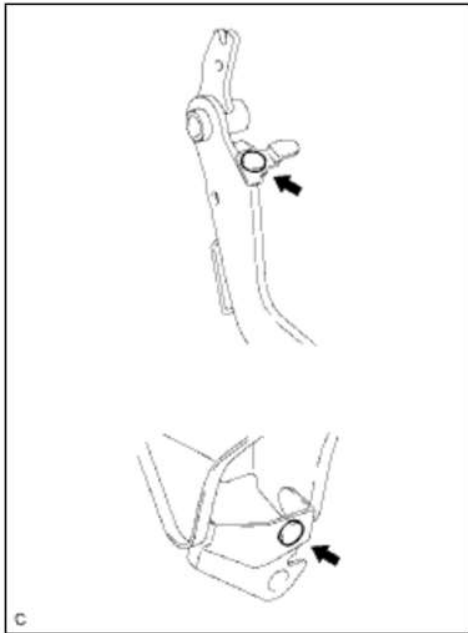
- (a) Remove the clutch pedal pad from the clutch pedal sub-assembly.

12. REMOVE CLUTCH PEDAL BUSHING



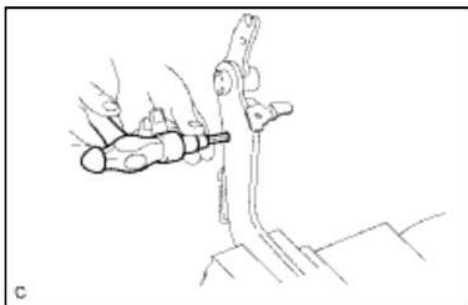
(a) Remove the 2 bushings from the clutch pedal sub-assembly.

13. REMOVE NO. 1 CLUTCH PEDAL CUSHION



- (a) Remove the 2 No. 1 clutch pedal cushions from the clutch pedal sub-assembly and clutch pedal support sub-assembly.

14. REMOVE CLUTCH MASTER CYLINDER PUSH ROD CLEVIS BUSHING



- (a) Using an 8 mm hexagon wrench and a hammer, remove the clevis bushing from the clutch pedal sub-assembly.

15. REMOVE CLUTCH SWITCH ASSEMBLY (w/ Cruise Control System)

- (a) Remove the nut and clutch switch assembly from the clutch pedal support sub-assembly.

16. REMOVE CLUTCH PEDAL SWITCH ASSEMBLY

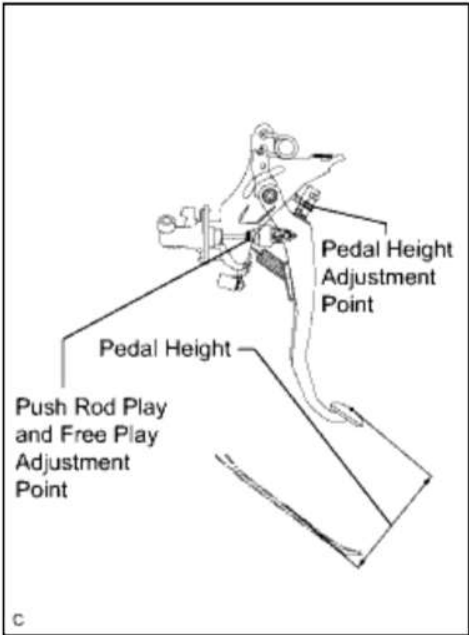
- (a) Remove the nut and clutch pedal switch assembly from the clutch pedal support sub-assembly.



Last Modified: 3-10-2010	6.4 N	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000000ERC01GX
Title: CLUTCH: CLUTCH PEDAL: ADJUSTMENT (2010 Corolla)		

ADJUSTMENT

1. INSPECT AND ADJUST CLUTCH PEDAL HEIGHT



(a) Turn back the floor carpet.

(b) Check that the pedal height is correct.

Pedal Height from Floor:

ENGINE TYPE	PEDAL HEIGHT: MM (IN.)
2AZ-FE	166.4 to 176.4 (6.551 to 6.945)
2ZR-FE	157.7 to 167.7 (6.209 to 6.602)

(c) Loosen the lock nut and turn the stopper bolt until the correct height is obtained.

(d) Tighten the lock nut.

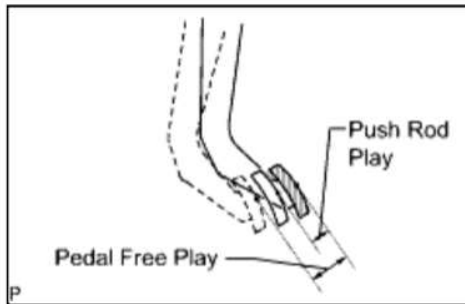
Torque: 25 N·m (250 kgf·cm, 18ft·lbf)

(e) Install the floor carpet.

2. INSPECT CLUTCH PEDAL FREE PLAY AND PUSH ROD PLAY

(a) Check that pedal free play and push rod play are correct.

(1) Depress the pedal until clutch resistance begins to be felt.



Pedal free play:

5.0 to 15.0 mm (0.197 to 0.591 in.)

- (2) Gently depress the pedal until resistance begins to increase a little.

Push rod play at pedal top:

1.0 to 5.0 mm (0.0394 to 0.197 in.)

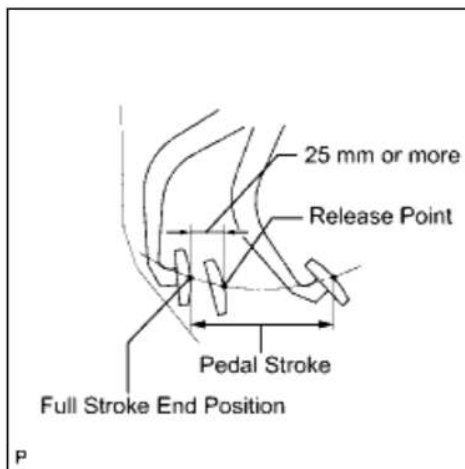
(b) If necessary, adjust the pedal free play and push rod play.

- (1) Loosen the lock nut and turn the push rod until correct free play and push rod play are obtained.
- (2) Tighten the lock nut.

Torque: 12 N·m (120 kgf·cm, 9ft·lbf)

- (3) After adjusting the pedal free play, check the pedal height.

3. INSPECT CLUTCH RELEASE POINT



(a) Check the clutch release point.

- (1) Pull the parking brake lever and install wheel chocks.
- (2) Start the engine and run it at idle.
- (3) Without depressing the clutch pedal, slowly move the shift lever into reverse until the gears contact.
- (4) Gradually depress the clutch pedal and measure the stroke distance from the point that the gear noise stops (release point) up to the full stroke end position.

Standard distance:

25 mm (0.984 in.) or more (from pedal stroke end position to release point)

If the distance is not as specified, perform the following procedure:

- Check the pedal height.
- Check the push rod play and pedal free play.
- Bleed the clutch line.
- Check the clutch cover and disc.



TOYOTA

Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002413016X
Title: CLUTCH: CLUTCH PEDAL: INSTALLATION (2010 Corolla)		

INSTALLATION

1. INSTALL CLUTCH PEDAL SWITCH ASSEMBLY

- (a) Install the clutch pedal switch assembly to the clutch pedal support sub-assembly with the nut.

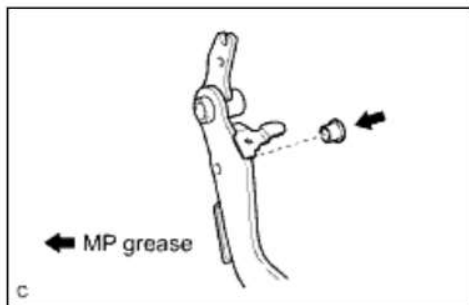
Torque: 16 N·m (160 kgf·cm, 12ft·lbf)

2. INSTALL CLUTCH SWITCH ASSEMBLY (w/ Cruise Control System)

- (a) Install the clutch switch assembly to the clutch pedal support sub-assembly with the nut.

Torque: 16 N·m (160 kgf·cm, 12ft·lbf)

3. INSTALL CLUTCH MASTER CYLINDER PUSH ROD CLEVIS BUSHING



- (a) Apply MP grease to the inside of a new clevis bushing.

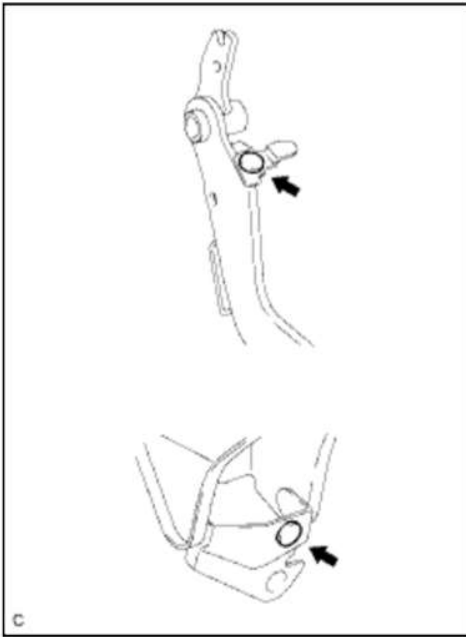
- (b) Install the clevis bushing to the clutch pedal sub-assembly.

HINT:

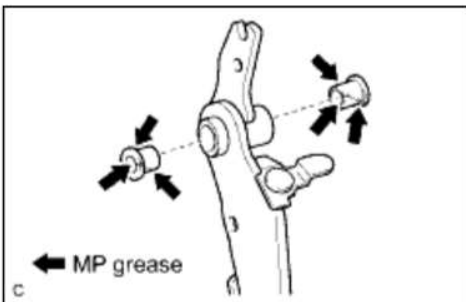
Install the clevis bushing from the right side of the vehicle.

4. INSTALL NO. 1 CLUTCH PEDAL CUSHION

- (a) Install the 2 No. 1 clutch pedal cushions to the clutch pedal sub-assembly and clutch pedal support sub-assembly.



5. INSTALL CLUTCH PEDAL BUSHING



(a) Apply MP grease to both sides and end surface of 2 new bushings.

(b) Install the 2 bushings to the clutch pedal.

6. INSTALL CLUTCH PEDAL PAD

(a) Install the clutch pedal pad to the clutch pedal sub-assembly.

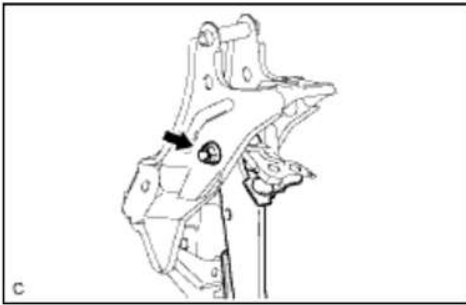
7. INSTALL CLUTCH PEDAL SUB-ASSEMBLY

(a) Install the clutch pedal sub-assembly to the clutch pedal support sub-assembly with the bolt and nut.

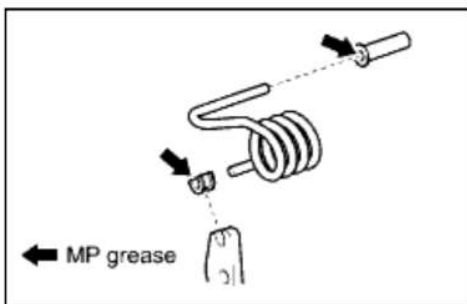
Torque: 37 N·m (375 kgf·cm, 27ft·lbf)

HINT:

Install the bolt from the right side of the vehicle.



8. INSTALL TURN OVER SPRING SEAT COMPRESSION SPRING

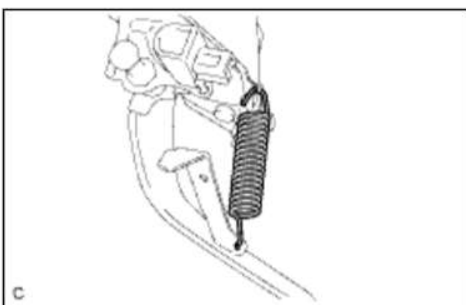


(a) Apply MP grease to the sliding portion of the 2 turn over bushings.

(b) Install a 2 new turn over bushings to the clutch pedal sub-assembly and clutch pedal support sub-assembly.

(c) Install the turn over spring.

9. INSTALL CLUTCH PEDAL SPRING (for 2AZ-FE)



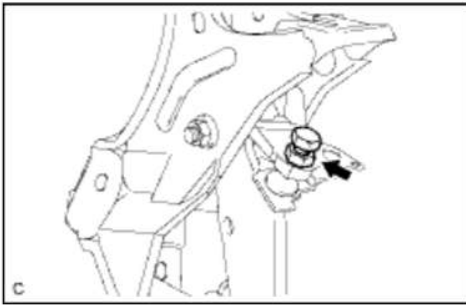
(a) Install the clutch pedal spring.

10. INSTALL CLUTCH PEDAL STOPPER BOLT

(a) Install the clutch pedal stopper bolt so that its end touches the clutch pedal cushion.

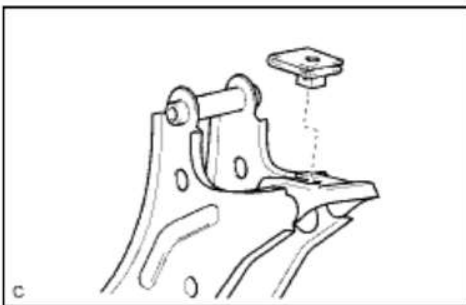
HINT:

Tighten the lock nut to the specified torque when adjusting the

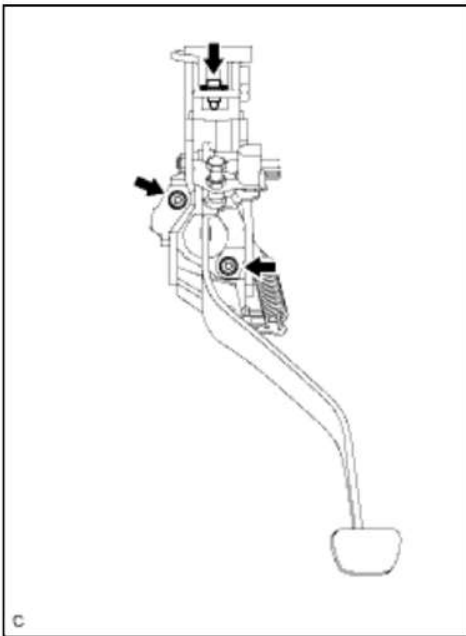


clutch pedal.

11. INSTALL CLUTCH PEDAL SUPPORT SUB-ASSEMBLY



(a) Install the nut to the clutch pedal support sub-assembly.



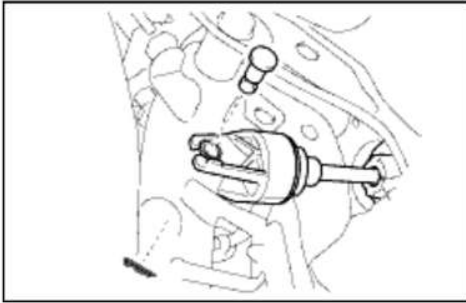
(b) Install the clutch pedal support sub-assembly with the 2 nuts and bolt.

Bolt - Torque: 24 N·m (241 kgf·cm, 17ft·lbf)

Nut - Torque: 13 N·m (130 kgf·cm, 9ft·lbf)

12. INSTALL CLUTCH MASTER CYLINDER PUSH ROD CLEVIS WITH HOLE PIN

(a) Connect the clevis to the clutch pedal sub-assembly with



the hole pin.

HINT:

Install the hole pin from the right side of the vehicle.

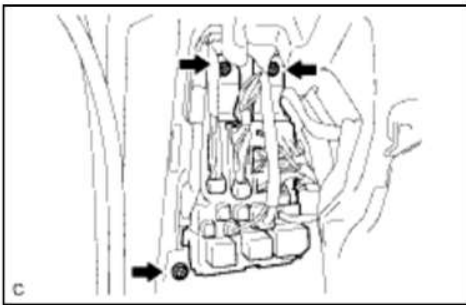
(b) Install the clip to the hole pin.

13. CONNECT CONNECTORS

(a) Connect the clutch pedal switch connector.

(b) Connect the clutch switch assembly connector.

14. INSTALL MAIN BODY ECU (INSTRUMENT PANEL JUNCTION BLOCK)



(a) Install the main body ECU with the 3 screws.

15. INSPECT CLUTCH PEDAL SWITCH ASSEMBLY INFO

16. INSTALL UPPER INSTRUMENT PANEL SUB-ASSEMBLY

INFO

17. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

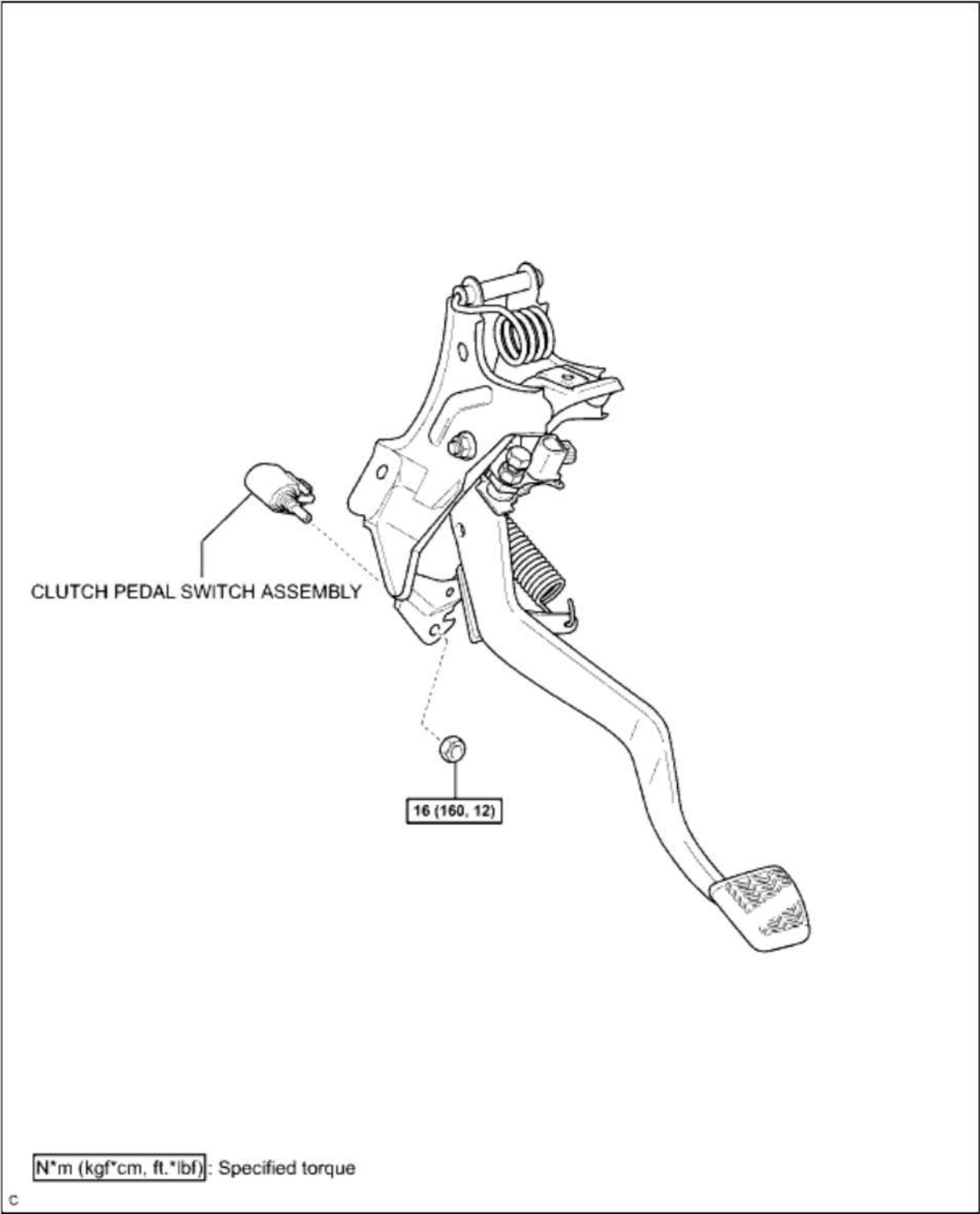
18. INSPECT SRS WARNING LIGHT

INFO

Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM00000241P00JX
Title: CLUTCH: CLUTCH PEDAL SWITCH: COMPONENTS (2010 Corolla)		

COMPONENTS

ILLUSTRATION



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Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM00000241N00JX
Title: CLUTCH: CLUTCH PEDAL SWITCH: REMOVAL (2010 Corolla)		

REMOVAL

1. REMOVE CLUTCH PEDAL SWITCH ASSEMBLY

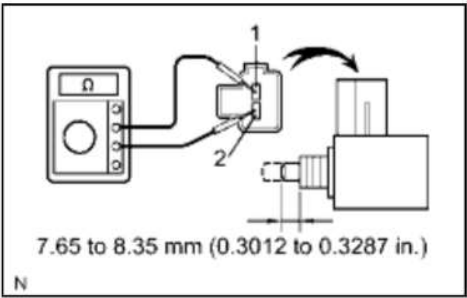
- (a) Disconnect the clutch pedal switch assembly connector.
- (b) Remove the nut and clutch pedal switch assembly from the clutch pedal support sub-assembly.



Last Modified: 3-10-2010	6.4 G	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM00000241M00JX
Title: CLUTCH: CLUTCH PEDAL SWITCH: INSPECTION (2010 Corolla)		

INSPECTION

1. INSPECT CLUTCH PEDAL SWITCH ASSEMBLY



(a) Measure the resistance between the terminals when the switch is ON and OFF.

Standard Resistance:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
1 - 2	ON (pushed)	Below 1 Ω
	OFF (free)	10 k Ω or higher

Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM00000241L00JX
Title: CLUTCH: CLUTCH PEDAL SWITCH: INSTALLATION (2010 Corolla)		

INSTALLATION

1. INSTALL CLUTCH PEDAL SWITCH ASSEMBLY

- (a) Install the clutch pedal switch assembly to the clutch pedal support sub-assembly with the nut.
Torque: 16 N·m (160 kgf·cm, 12ft·lbf)
- (b) Connect the clutch pedal switch assembly connector.

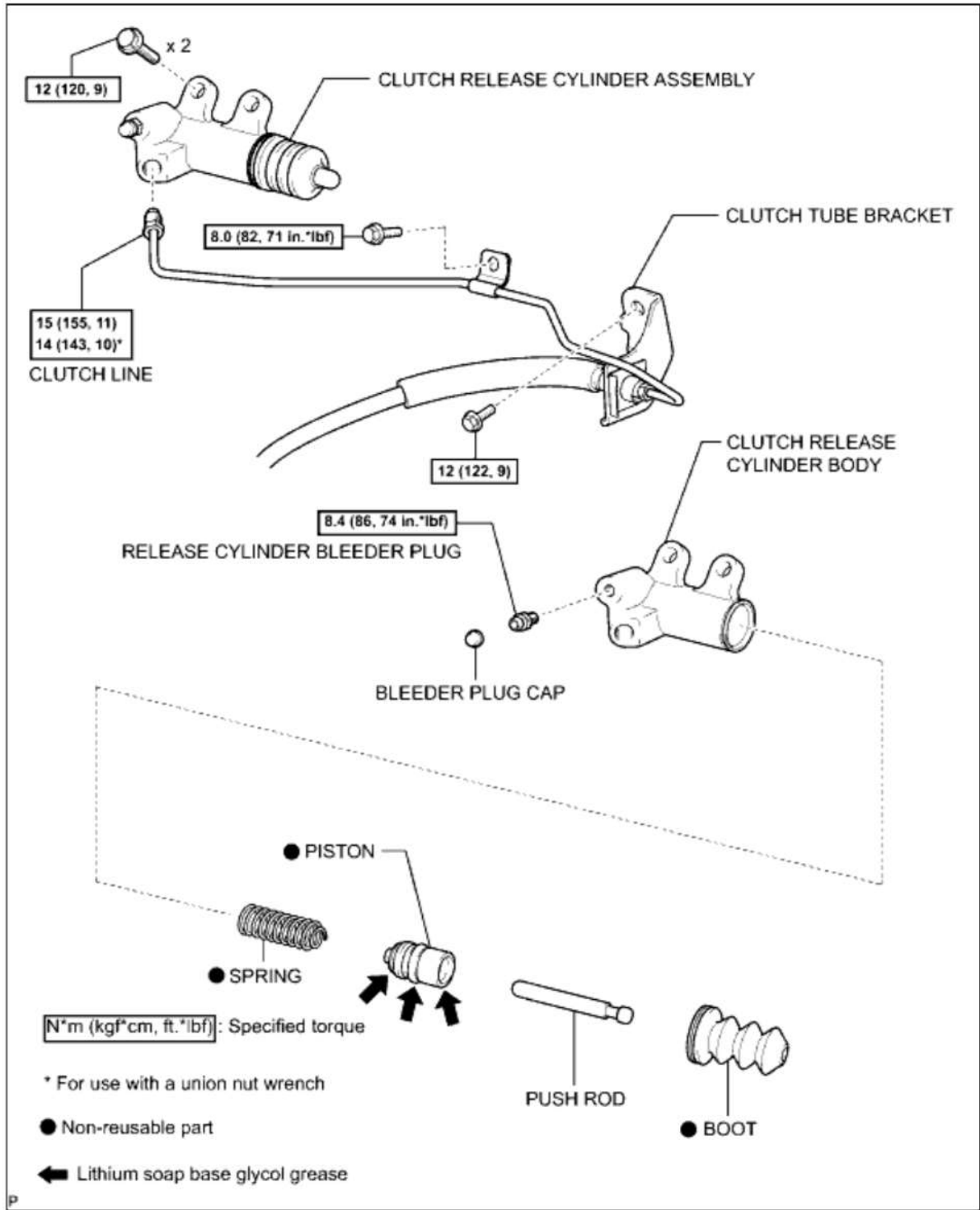
2. INSPECT CLUTCH PEDAL SWITCH ASSEMBLY



Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001B3201AX
Title: CLUTCH: CLUTCH RELEASE CYLINDER (for C59): COMPONENTS (2010 Corolla)		

COMPONENTS

ILLUSTRATION



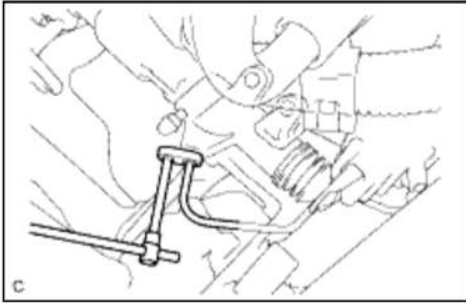


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Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001B3301AX
Title: CLUTCH: CLUTCH RELEASE CYLINDER (for C59): REMOVAL (2010 Corolla)		

REMOVAL

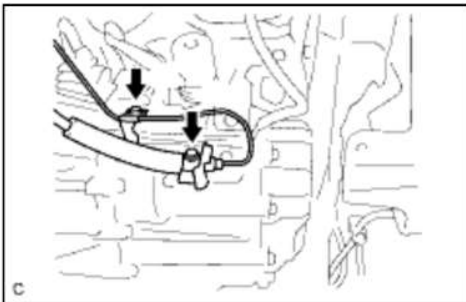
1. REMOVE CLUTCH RELEASE CYLINDER ASSEMBLY



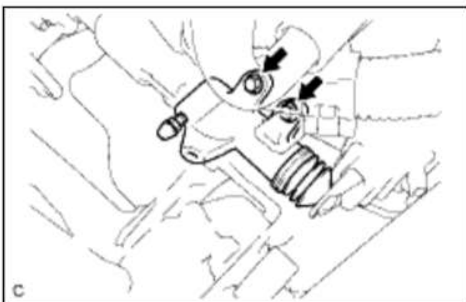
(a) Using a union nut wrench (10 mm), disconnect the clutch line.

HINT:

Use a container to catch the fluid.



(b) Remove the 2 bolts and disconnect the clutch tube bracket.



(c) Remove the 2 bolts and the clutch release cylinder.

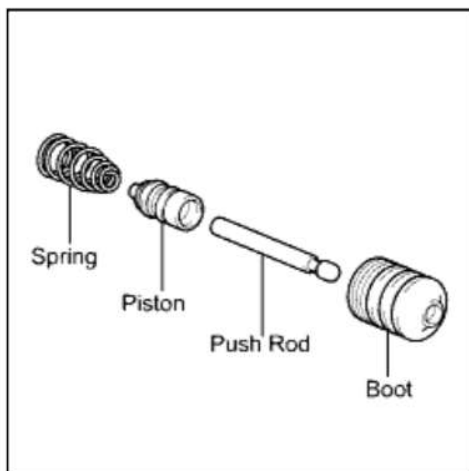
Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001B3401HX
Title: CLUTCH: CLUTCH RELEASE CYLINDER (for C59): DISASSEMBLY (2010 Corolla)		

DISASSEMBLY

1. REMOVE RELEASE CYLINDER BLEEDER PLUG

- (a) Remove the bleeder plug cap from the bleeder plug.
- (b) Remove the bleeder plug from the cylinder body.

2. REMOVE CLUTCH RELEASE CYLINDER KIT



- (a) Remove the boot from the cylinder body.

- (b) Remove the push rod from the cylinder body.
- (c) Remove the piston and spring from the cylinder body.

NOTICE:

Do not damage the inside of the cylinder body.

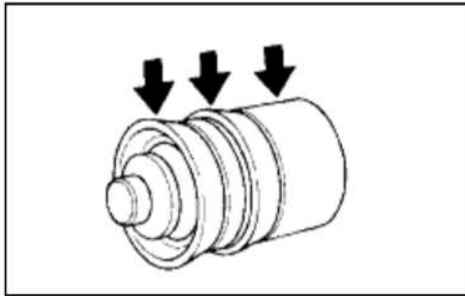


TOYOTA

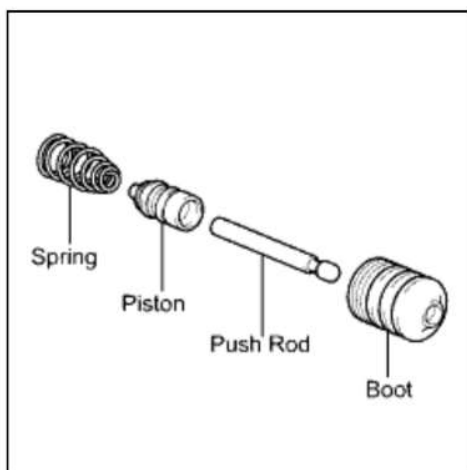
Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001B3501HX
Title: CLUTCH: CLUTCH RELEASE CYLINDER (for C59): REASSEMBLY (2010 Corolla)		

REASSEMBLY

1. INSTALL CLUTCH RELEASE CYLINDER KIT



(a) Coat a new piston with lithium soap base glycol grease as shown in the illustration.



(b) Install the piston and a new spring to the cylinder body.

NOTICE:

Do not damage the inside of the cylinder body.

HINT:

Install the smaller end of the spring to the piston.

(c) Install a new boot to the push rod.

(d) Install the push rod to the cylinder body.

2. INSTALL RELEASE CYLINDER BLEEDER PLUG

(a) Install the bleeder plug to the cylinder body.

Torque: 8.4 N·m (86 kgf·cm, 74in·lbf)

(b) Install the bleeder plug cap to the bleeder plug.

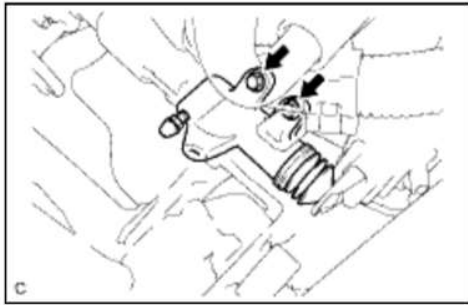


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Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001B3101AX
Title: CLUTCH: CLUTCH RELEASE CYLINDER (for C59): INSTALLATION (2010 Corolla)		

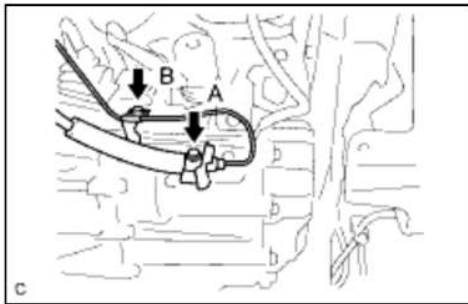
INSTALLATION

1. INSTALL CLUTCH RELEASE CYLINDER ASSEMBLY



(a) Install the clutch release cylinder with the 2 bolts.

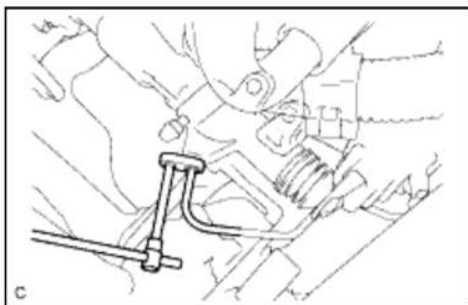
Torque: 12 N·m (120 kgf·cm, 9ft·lbf)



(b) Connect the clutch tube bracket with the 2 bolts.

Bolt A - Torque: 12 N·m (122 kgf·cm, 9ft·lbf)

Bolt B - Torque: 8.0 N·m (82 kgf·cm, 71in·lbf)



(c) Using a union nut wrench (10 mm), connect the clutch line.

without a union nut wrench - Torque: 15 N·m (155 kgf·cm, 11ft·lbf)

with a union nut wrench - Torque: 14 N·m (143 kgf·cm, 10ft·lbf)

NOTICE:

- Use a torque wrench with a fulcrum length of 250 mm (9.84 in.).
- This torque value is effective when the union nut wrench is parallel to the torque wrench.

2. FILL BRAKE FLUID RESERVOIR INFO

3. BLEED CLUTCH LINE INFO

4. INSPECT FLUID LEVEL **5. INSPECT FOR FLUID LEAK****HINT:**

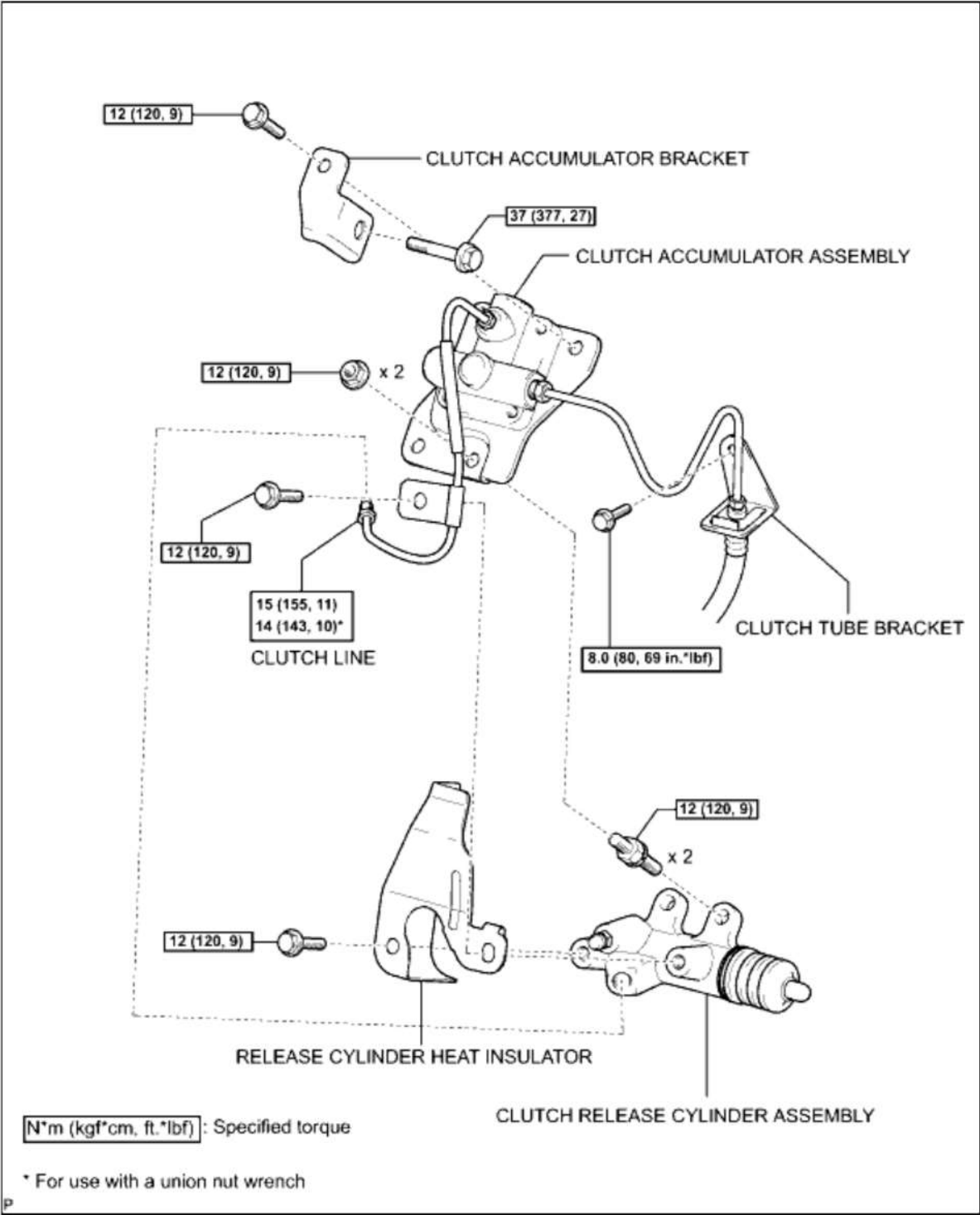
Check for leaks from the clutch system.



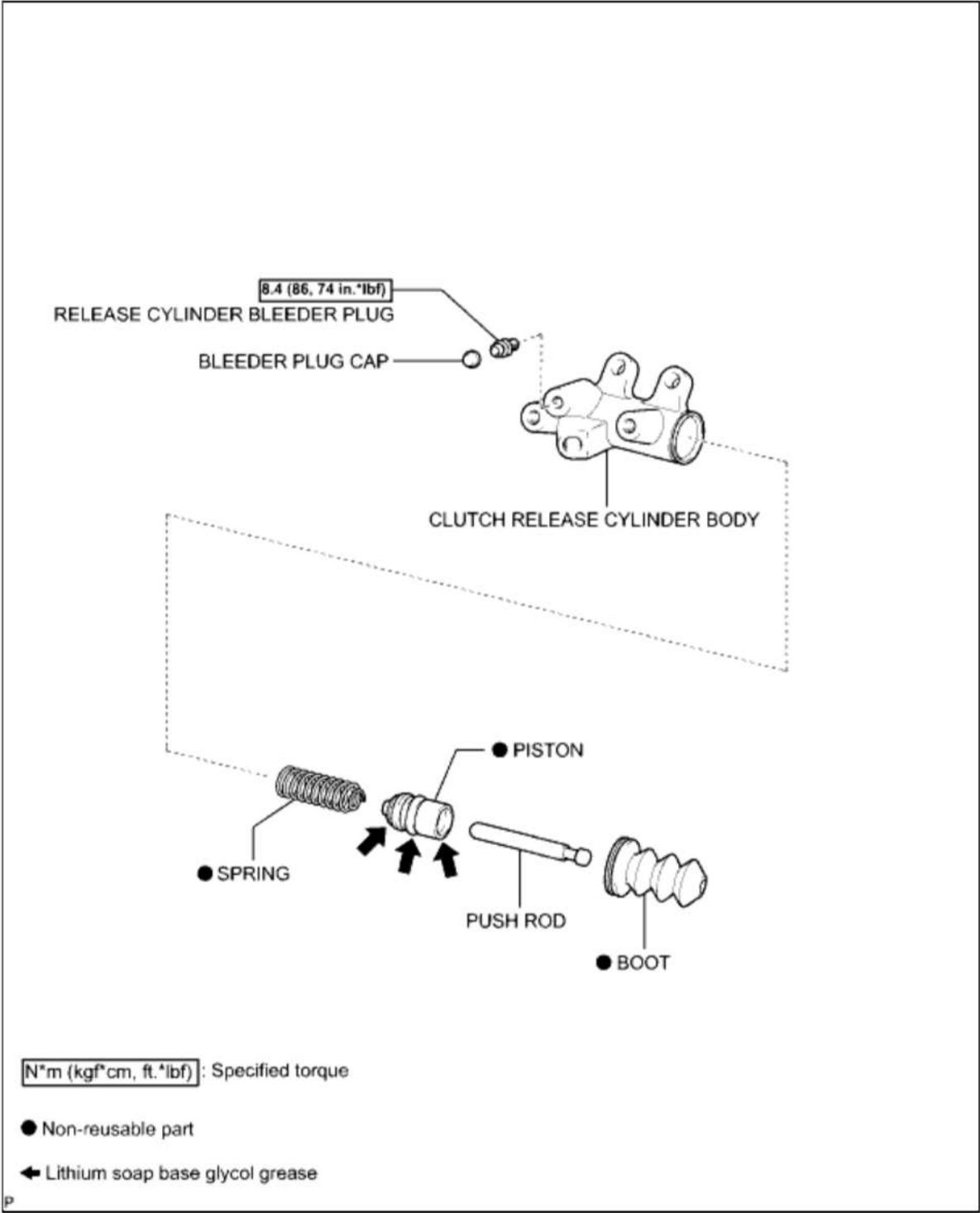
Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000000Z1100CX
Title: CLUTCH: CLUTCH RELEASE CYLINDER (for E351): COMPONENTS (2010 Corolla)		

COMPONENTS

ILLUSTRATION



ILLUSTRATION



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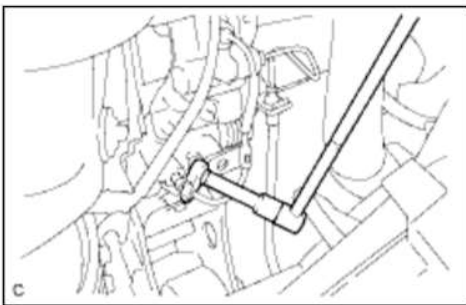
Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM0000015N600MX
Title: CLUTCH: CLUTCH RELEASE CYLINDER (for E351): REMOVAL (2010 Corolla)		

REMOVAL

1. REMOVE RELEASE CYLINDER HEAT INSULATOR

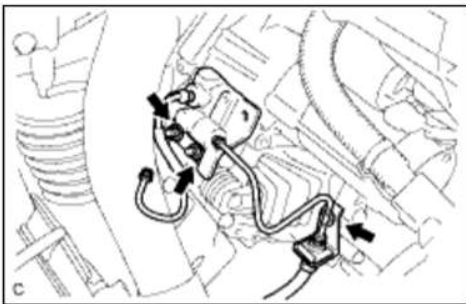
2. REMOVE CLUTCH ACCUMULATOR BRACKET

3. DISCONNECT CLUTCH LINE



(a) Using a union nut wrench (10 mm), disconnect the clutch line.

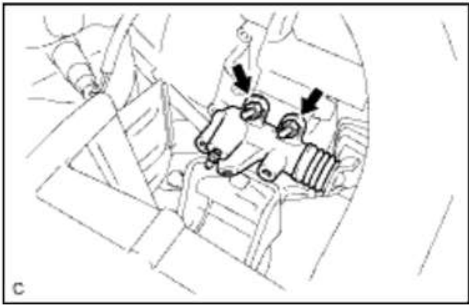
4. DISCONNECT CLUTCH ACCUMULATOR ASSEMBLY



(a) Remove the bolt and 2 nuts, and disconnect the clutch accumulator assembly and clutch tube bracket.

5. REMOVE CLUTCH RELEASE CYLINDER ASSEMBLY

(a) Remove the 2 bolts and clutch release cylinder assembly.

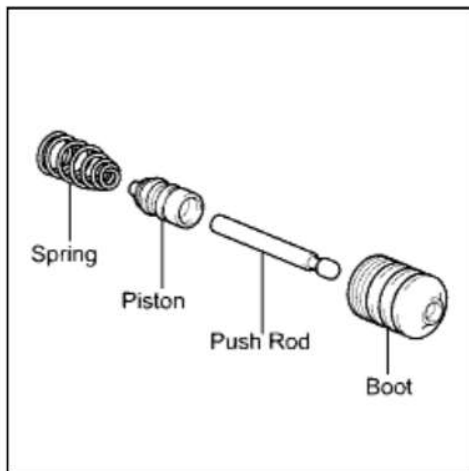


Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000000Z1200CX
Title: CLUTCH: CLUTCH RELEASE CYLINDER (for E351): DISASSEMBLY (2010 Corolla)		

DISASSEMBLY

1. REMOVE RELEASE CYLINDER BLEEDER PLUG

- (a) Remove the bleeder plug from the cylinder body.
- (b) Remove the bleeder plug cap from the bleeder plug.



2. REMOVE CLUTCH RELEASE CYLINDER KIT

- (a) Remove the boot from the cylinder body.
- (b) Remove the push rod from the cylinder body.
- (c) Remove the piston and spring from the cylinder body.

NOTICE:

Do not damage the inside of the cylinder body.

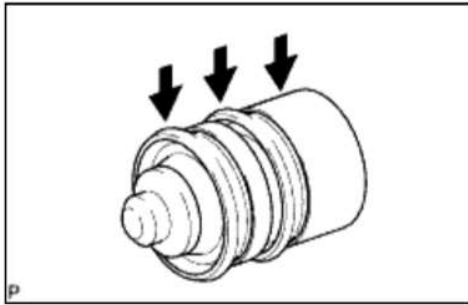


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Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000000Z1300CX
Title: CLUTCH: CLUTCH RELEASE CYLINDER (for E351): REASSEMBLY (2010 Corolla)		

REASSEMBLY

1. INSTALL CLUTCH RELEASE CYLINDER KIT



(a) Coat a new piston with lithium soap base glycol grease as shown in the illustration.

(b) Install the piston and a new spring to the cylinder body.

NOTICE:

Do not damage the inside of the cylinder body.

HINT:

Install the smaller end of the spring to the piston.

(c) Install a new boot to the push rod.

(d) Install the push rod to the cylinder body.

2. INSTALL RELEASE CYLINDER BLEEDER PLUG

(a) Install the bleeder plug to the cylinder body.

Torque: 8.4 N·m (86 kgf·cm, 74in·lbf)

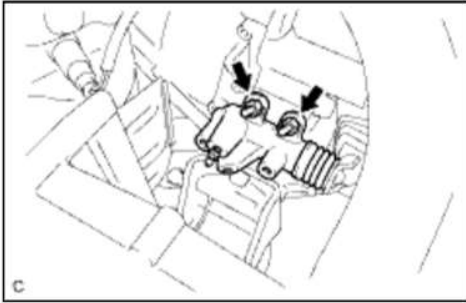
(b) Install the bleeder plug cap to the bleeder plug.



Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM0000015N400MX
Title: CLUTCH: CLUTCH RELEASE CYLINDER (for E351): INSTALLATION (2010 Corolla)		

INSTALLATION

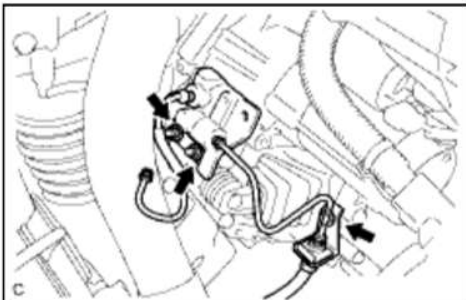
1. INSTALL CLUTCH RELEASE CYLINDER ASSEMBLY



(a) Install the clutch release cylinder with the 2 bolts.

Torque: 12 N·m (120 kgf·cm, 9ft·lbf)

2. CONNECT CLUTCH ACCUMULATOR ASSEMBLY

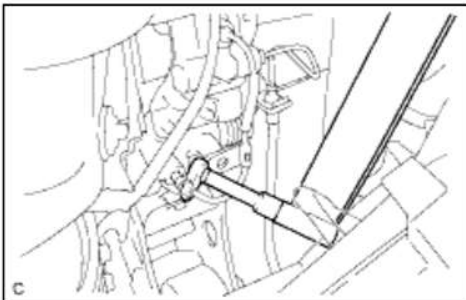


(a) Connect the accumulator assembly and clutch tube bracket with the bolt and 2 nuts.

Nut - Torque: 12 N·m (120 kgf·cm, 9ft·lbf)

Bolt - Torque: 8.0 N·m (80 kgf·cm, 69in·lbf)

3. CONNECT CLUTCH LINE



(a) Using a union nut wrench (10 mm), connect the clutch line.

without a union nut wrench - Torque: 15 N·m (155 kgf·cm, 11ft·lbf)

with a union nut wrench - Torque: 14 N·m (143 kgf·cm, 10ft·lbf)

NOTICE:

- Use a torque wrench with a fulcrum length of 250 mm (9.84 in.).
- This torque value is effective when the union nut wrench is parallel to the torque wrench.

4. INSTALL CLUTCH ACCUMULATOR BRACKET 

5. INSTALL RELEASE CYLINDER HEAT INSULATOR 

6. FILL BRAKE FLUID RESERVOIR 

7. BLEED CLUTCH LINE 

8. INSPECT FLUID LEVEL 

9. INSPECT FOR FLUID LEAK

HINT:

Check for leaks from the clutch system.



Last Modified: 3-10-2010	6.4 T	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001B3E00SX
Title: CLUTCH: CLUTCH SYSTEM (for C59): PROBLEM SYMPTOMS TABLE (2010 Corolla)		

PROBLEM SYMPTOMS TABLE

Use the table below to help determine the cause of problem symptoms. If multiple suspected areas are listed, the potential causes of the symptoms are listed in order of probability in the "Suspected Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.

Clutch System

SYMPTOM	SUSPECTED AREA	SEE PAGE
Clutch grabs/chatters	Engine mounting (Loose)	-
	Clutch disc assembly (Excessive runout)	INFO
	Clutch disc assembly (Oily)	INFO
	Clutch disc assembly (Worn out)	INFO
	Clutch disc torsion spring (Damaged)	INFO
	Clutch disc assembly (Glazed)	INFO
	Diaphragm spring (Tip out of alignment)	INFO
Clutch pedal spongy	Clutch line (Air in line)	INFO
	Master cylinder (Damaged)	INFO
	Release cylinder piston (Damaged)	INFO
Clutch noisy	Clutch release bearing assembly (Worn, dirty or damaged)	INFO
	Clutch disc torsion spring (Damaged)	INFO
Clutch slips	Clutch pedal (Free play out of adjustment)	INFO
	Clutch disc assembly (Oily)	INFO
	Clutch disc assembly (Worn out)	INFO
	Diaphragm spring (Damaged)	INFO
	Pressure plate (Distorted)	INFO
	Flywheel sub-assembly (Distorted)	INFO
Clutch does not disengage fully	Clutch pedal (Free play out of adjustment)	INFO
	Clutch line (Air in line)	INFO

SYMPTOM	SUSPECTED AREA	SEE PAGE
	Master cylinder (Damaged)	INFO
	Release cylinder piston (Damaged)	INFO
	Clutch disc assembly (Out of line)	INFO
	Clutch disc assembly (Excessive runout)	INFO
	Clutch disc assembly (Lining broken)	INFO
	Clutch disc assembly (Dirty or burned)	INFO
	Clutch disc assembly (Oily)	INFO
	Clutch disc assembly (Lack of spline grease)	INFO

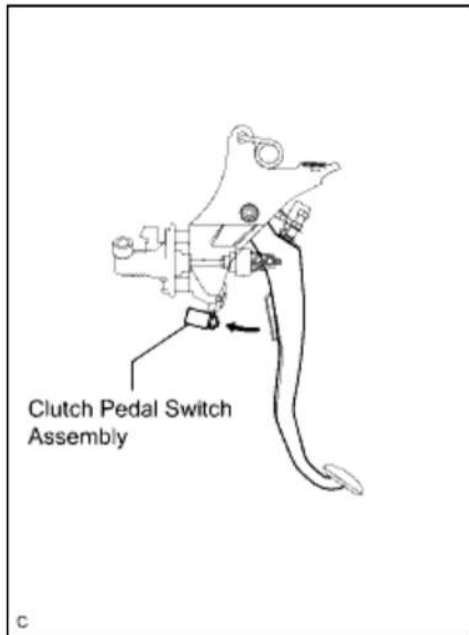


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Last Modified: 3-10-2010	6.4 G	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002410000X
Title: CLUTCH: CLUTCH SYSTEM (for C59): ON-VEHICLE INSPECTION (2010 Corolla)		

ON-VEHICLE INSPECTION

1. INSPECT CLUTCH PEDAL SWITCH ASSEMBLY



(a) Check that the engine does not start when the clutch pedal is released.

(b) Check that the engine starts when the clutch pedal is fully depressed.

If necessary, inspect and replace the clutch pedal switch assembly.



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Last Modified: 3-10-2010	6.4 N	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM0000010R701VX
Title: CLUTCH: CLUTCH SYSTEM (for C59): BLEEDING (2010 Corolla)		

BLEEDING

NOTICE:
Wash off clutch fluid immediately if it comes in contact with any painted surface.

HINT:
If any work is performed on the clutch system or if air in the clutch lines is suspected, bleed air from the clutch hydraulic system.

1. FILL BRAKE FLUID RESERVOIR

2. BLEED CLUTCH LINE

- (a) Remove the bleeder plug cap.
- (b) Connect a vinyl tube to the bleeder plug.
- (c) Depress the clutch pedal several times, and then loosen the bleeder plug while the pedal is depressed.
- (d) When fluid no longer comes out, tighten the bleeder plug, and then release the clutch pedal.
- (e) Repeat the previous 2 steps until all the air in the fluid is completely bled.
- (f) Tighten the bleeder plug.
Torque: 8.4 N·m (86 kgf·cm, 74in·lbf)
- (g) Install the bleeder plug cap.
- (h) Check that all the air has been bled from the clutch line.

3. INSPECT BRAKE FLUID LEVEL IN RESERVOIR



Last Modified: 3-10-2010	6.4 T	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001B3E00TX
Title: CLUTCH: CLUTCH SYSTEM (for E351): PROBLEM SYMPTOMS TABLE (2010 Corolla)		

PROBLEM SYMPTOMS TABLE

Use the table below to help determine the cause of problem symptoms. If multiple suspected areas are listed, the potential causes of the symptoms are listed in order of probability in the "Suspected Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.

Clutch System

SYMPTOM	SUSPECTED AREA	SEE PAGE
Clutch grabs/chatters	Engine mounting (Loose)	-
	Clutch disc assembly (Excessive runout)	INFO
	Clutch disc assembly (Oily)	INFO
	Clutch disc assembly (Worn out)	INFO
	Clutch disc torsion spring (Damaged)	INFO
	Clutch disc assembly (Glazed)	INFO
	Diaphragm spring (Tip out of alignment)	INFO
Clutch pedal spongy	Clutch line (Air in line)	INFO
	Master cylinder (Damaged)	INFO
	Release cylinder piston (Damaged)	INFO
Clutch noisy	Clutch release bearing assembly (Worn, dirty or damaged)	INFO
	Clutch disc torsion spring (Damaged)	INFO
Clutch slips	Clutch pedal (Free play out of adjustment)	INFO
	Clutch disc assembly (Oily)	INFO
	Clutch disc assembly (Worn out)	INFO
	Diaphragm spring (Damaged)	INFO
	Pressure plate (Distorted)	INFO
	Flywheel sub-assembly (Distorted)	INFO
Clutch does not disengage fully	Clutch pedal (Free play out of adjustment)	INFO
	Clutch line (Air in line)	INFO

SYMPTOM	SUSPECTED AREA	SEE PAGE
	Master cylinder (Damaged)	INFO
	Release cylinder piston (Damaged)	INFO
	Clutch disc assembly (Out of line)	INFO
	Clutch disc assembly (Excessive runout)	INFO
	Clutch disc assembly (Lining broken)	INFO
	Clutch disc assembly (Dirty or burned)	INFO
	Clutch disc assembly (Oily)	INFO
	Clutch disc assembly (Lack of spline grease)	INFO

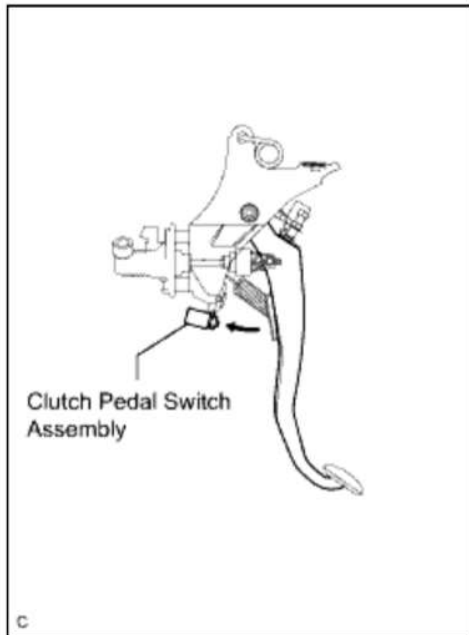


TOYOTA

Last Modified: 3-10-2010	6.4 G	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM00000241000PX
Title: CLUTCH: CLUTCH SYSTEM (for E351): ON-VEHICLE INSPECTION (2010 Corolla)		

ON-VEHICLE INSPECTION

1. INSPECT CLUTCH PEDAL SWITCH ASSEMBLY



(a) Check that the engine does not start when the clutch pedal is released.

(b) Check that the engine starts when the clutch pedal is fully depressed.

If necessary, inspect and replace the clutch pedal switch assembly.



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Last Modified: 3-10-2010	6.4 N	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM0000010R701WX
Title: CLUTCH: CLUTCH SYSTEM (for E351): BLEEDING (2010 Corolla)		

BLEEDING

NOTICE:

Wash off clutch fluid immediately if it comes in contact with any painted surface.

HINT:

If any work is performed on the clutch system or if air in the clutch lines is suspected, bleed air from the clutch hydraulic system.

1. FILL BRAKE FLUID RESERVOIR

2. BLEED CLUTCH LINE

- (a) Remove the bleeder plug cap.
- (b) Connect a vinyl tube to the bleeder plug.
- (c) Depress the clutch pedal several times, and then loosen the bleeder plug while the pedal is depressed.
- (d) When fluid no longer comes out, tighten the bleeder plug, and then release the clutch pedal.
- (e) Repeat the previous 2 steps until all the air in the fluid is completely bled.
- (f) Tighten the bleeder plug.

Torque: 8.4 N·m (86 kgf·cm, 74in·lbf)

- (g) Install the bleeder plug cap.
- (h) Check that all the air has been bled from the clutch line.

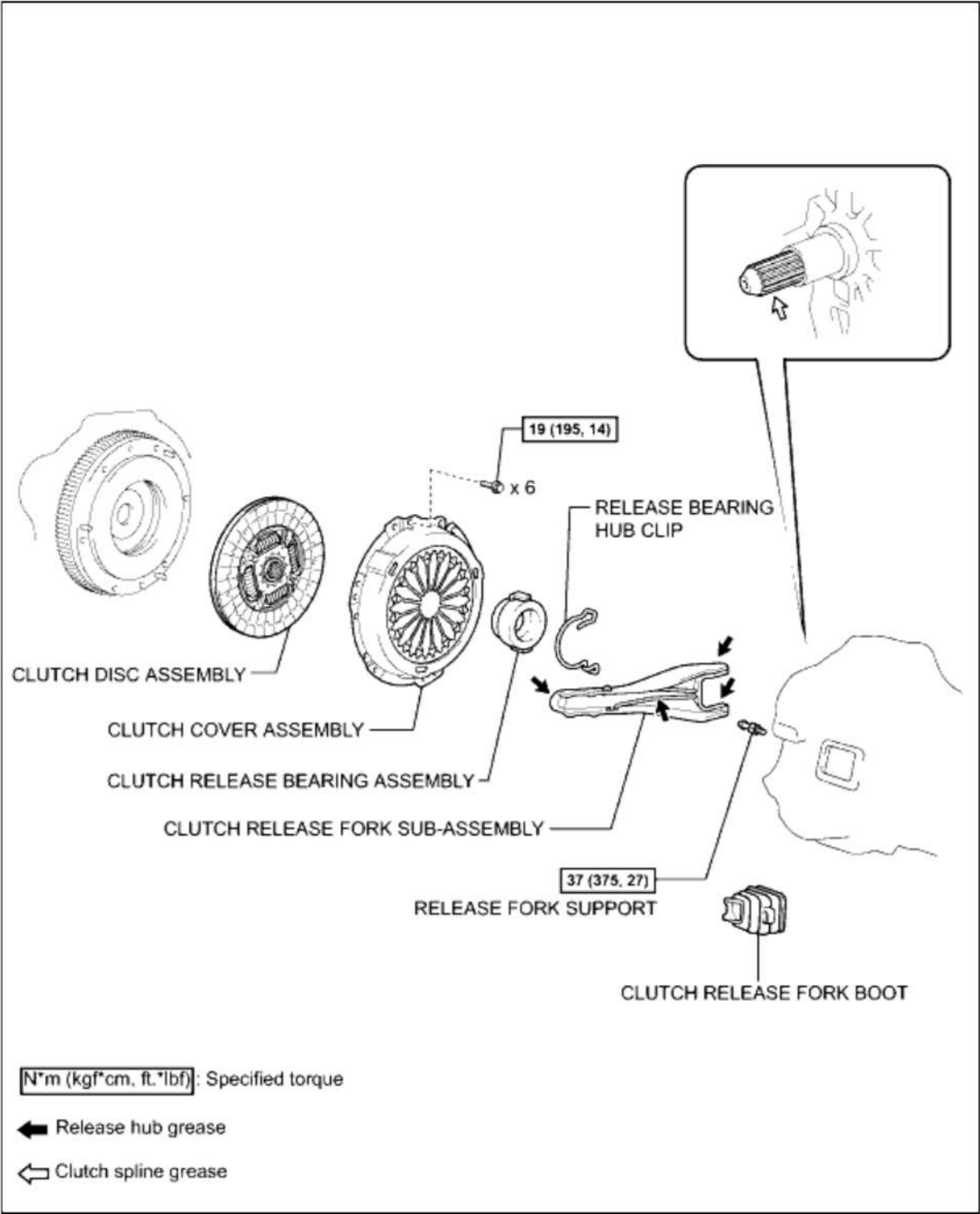
3. INSPECT BRAKE FLUID LEVEL IN RESERVOIR



Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001B3801JX
Title: CLUTCH: CLUTCH UNIT (for C59): COMPONENTS (2010 Corolla)		

COMPONENTS

ILLUSTRATION





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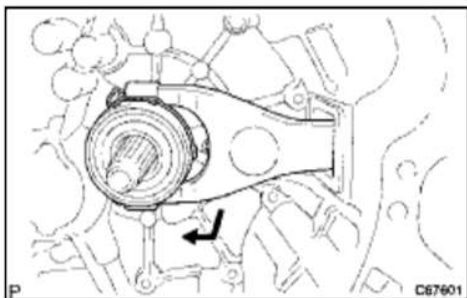
Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001B3901QX
Title: CLUTCH: CLUTCH UNIT (for C59): REMOVAL (2010 Corolla)		

REMOVAL

1. REMOVE MANUAL TRANSAXLE ASSEMBLY

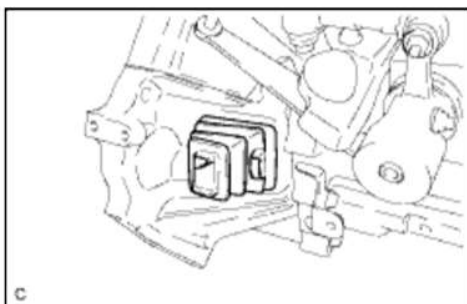


2. REMOVE CLUTCH RELEASE FORK SUB-ASSEMBLY



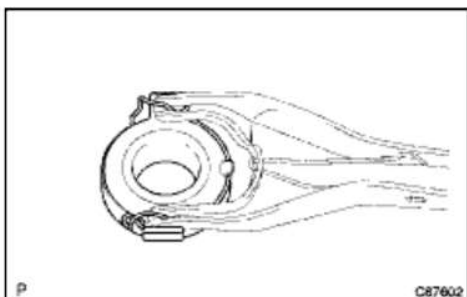
(a) Remove the clutch release fork with the clutch release bearing from the manual transaxle.

3. REMOVE CLUTCH RELEASE FORK BOOT



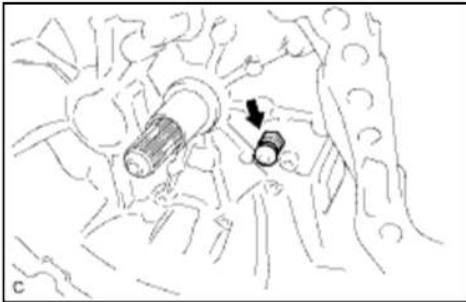
(a) Remove the clutch release fork boot from the manual transaxle.

4. REMOVE CLUTCH RELEASE BEARING ASSEMBLY



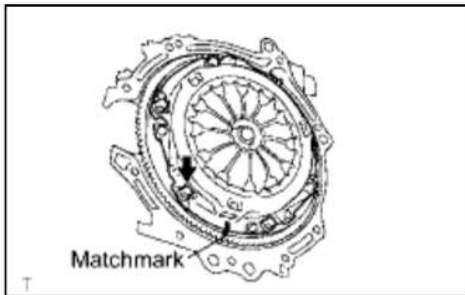
(a) Remove the release bearing and clip from the clutch release fork.

5. REMOVE RELEASE FORK SUPPORT



- (a) Remove the release fork support from the manual transaxle.

6. REMOVE CLUTCH COVER ASSEMBLY



- (a) Put matchmarks on the clutch cover assembly and the flywheel sub-assembly.

(b) Loosen each set bolt one turn at a time until the spring tension is released.

(c) Remove the set bolts and pull off the clutch cover.

NOTICE:

Do not drop the clutch disc.

7. REMOVE CLUTCH DISC ASSEMBLY

NOTICE:

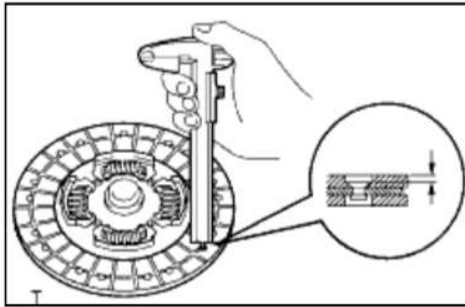
Keep the parts clutch disc lining, the pressure plate, and the surface of the flywheel sub-assembly free of oil and foreign matter.



Last Modified: 3-10-2010	6.4 G	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001B37020X
Title: CLUTCH: CLUTCH UNIT (for C59): INSPECTION (2010 Corolla)		

INSPECTION

1. INSPECT CLUTCH DISC ASSEMBLY



(a) Using a vernier caliper, measure the rivet head depth.

Minimum rivet depth:

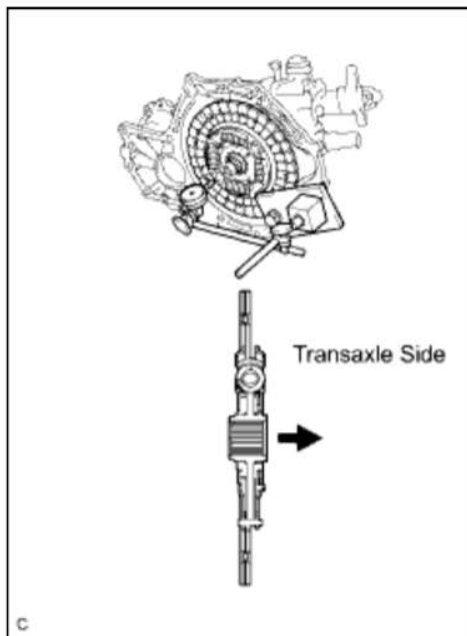
0.3 mm (0.0118 in.)

If necessary, replace the clutch disc assembly.

(b) Install the clutch disc assembly onto the transaxle assembly.

NOTICE:

Insert the clutch disc assembly in the correct direction.



(c) Using a dial indicator, measure the clutch disc assembly runout.

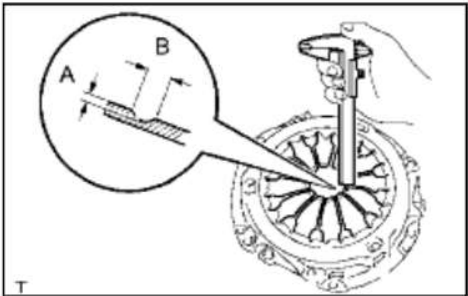
Maximum runout:

0.8 mm (0.0315 in.)

If necessary, replace the clutch disc assembly.

2. INSPECT CLUTCH COVER ASSEMBLY

(a) Using a vernier caliper, measure the depth and width of the



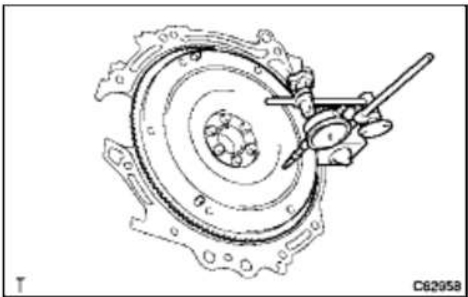
diaphragm spring wear.

Maximum:

A (DEPTH)	B (WIDTH)
0.5 mm (0.0197 in.)	6.0 mm (0.236 in.)

If necessary, replace the clutch cover assembly.

3. INSPECT FLYWHEEL SUB-ASSEMBLY

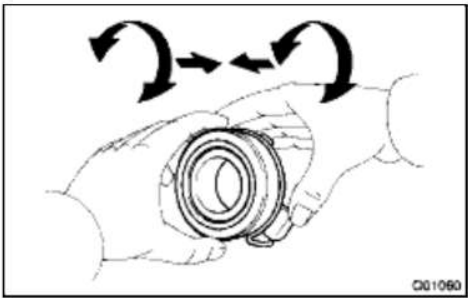


(a) Using a dial indicator, measure the flywheel sub-assembly runout.

Maximum runout:
0.1 mm (0.00394 in.)

If necessary, replace the flywheel sub-assembly.

4. INSPECT CLUTCH RELEASE BEARING ASSEMBLY



(a) Check that the clutch release bearing assembly moves smoothly without abnormal resistance by turning the sliding parts of the clutch release bearing assembly (contact surfaces with the clutch cover) while applying force in the axial direction.

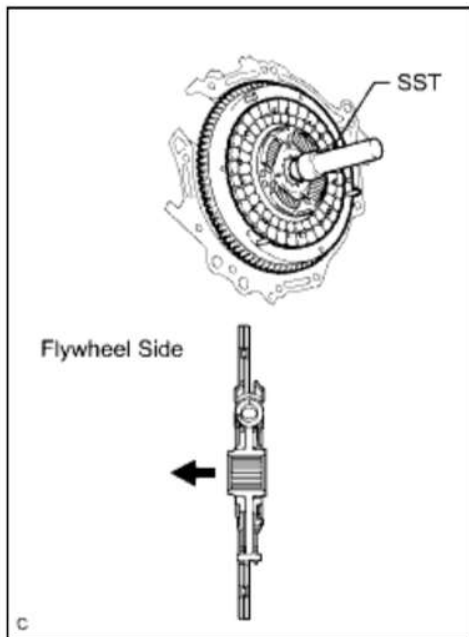
(b) Inspect the clutch release bearing assembly for damage and wear.

If necessary, replace the release bearing assembly.

Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001B3601QX
Title: CLUTCH: CLUTCH UNIT (for C59): INSTALLATION (2010 Corolla)		

INSTALLATION

1. INSTALL CLUTCH DISC ASSEMBLY



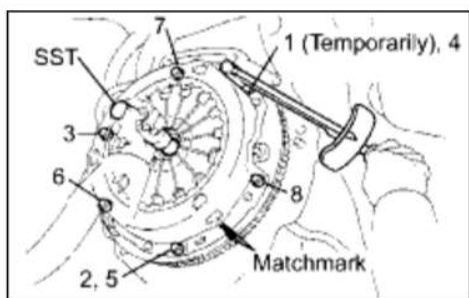
- (a) Insert SST into the clutch disc assembly, then insert them both into the flywheel sub-assembly.

SST: 09301-00110

NOTICE:

Insert the clutch disc assembly in the correct direction.

2. INSTALL CLUTCH COVER ASSEMBLY



- (a) Align the matchmark on the clutch cover assembly with the one on the flywheel sub-assembly.

- (b) Following the procedure shown in the illustration, tighten the 6 bolts in order, starting with the bolt located near the knock pin at the top.

Torque: 19 N·m (195 kgf·cm, 14ft·lbf)

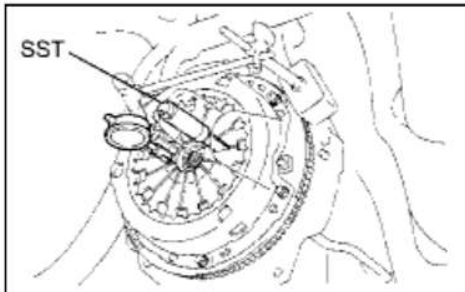
HINT:

- Following the order in the illustration, tighten the bolts evenly one at a time.
- Move SST up and down, right and left lightly after checking that the disc is in the center, and

tighten the bolts.

SST: 09301-00110

3. INSPECT AND ADJUST CLUTCH COVER ASSEMBLY



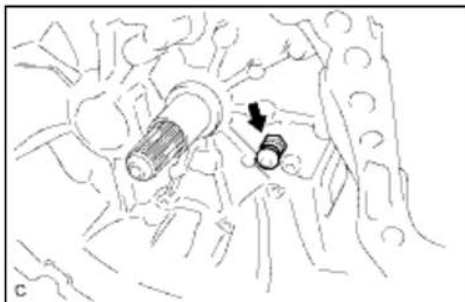
(a) Using a dial indicator with a roller instrument, check the diaphragm spring tip alignment.

Maximum non-alignment:
0.9 mm (0.0354 in.)

(b) If the alignment is not as specified, adjust the diaphragm spring tip alignment using SST.

SST: 09333-00013

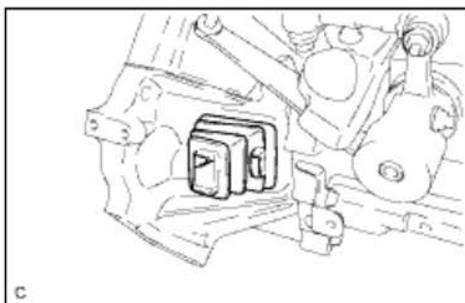
4. INSTALL RELEASE FORK SUPPORT



(a) Install the release fork support onto the transaxle assembly.

Torque: 37 N·m (375 kgf·cm, 27ft·lbf)

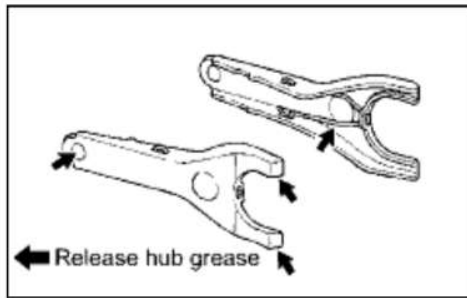
5. INSTALL CLUTCH RELEASE FORK BOOT



(a) Install the clutch release fork boot to the manual transaxle.

6. INSTALL CLUTCH RELEASE FORK SUB-ASSEMBLY

(a) Apply release hub grease to the contact surfaces between



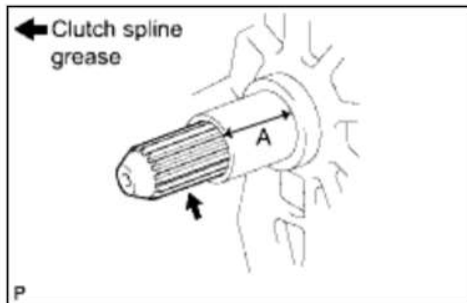
the release fork and release bearing assembly, release fork and push rod, and release fork and fork support.

Grease:

Toyota Genuine Release Hub Grease or equivalent

(b) Install the release fork onto the release bearing assembly with the clip.

7. INSTALL CLUTCH RELEASE BEARING ASSEMBLY



(a) Apply clutch spline grease to the input shaft spline.

Grease:

Toyota Genuine Clutch Spline Grease or equivalent

NOTICE:

Do not apply grease to portion A shown in the illustration.

(b) Install the clutch release bearing with the release fork onto the transaxle assembly.

NOTICE:

After installation, move the fork back and forth to check that the release bearing slides smoothly.

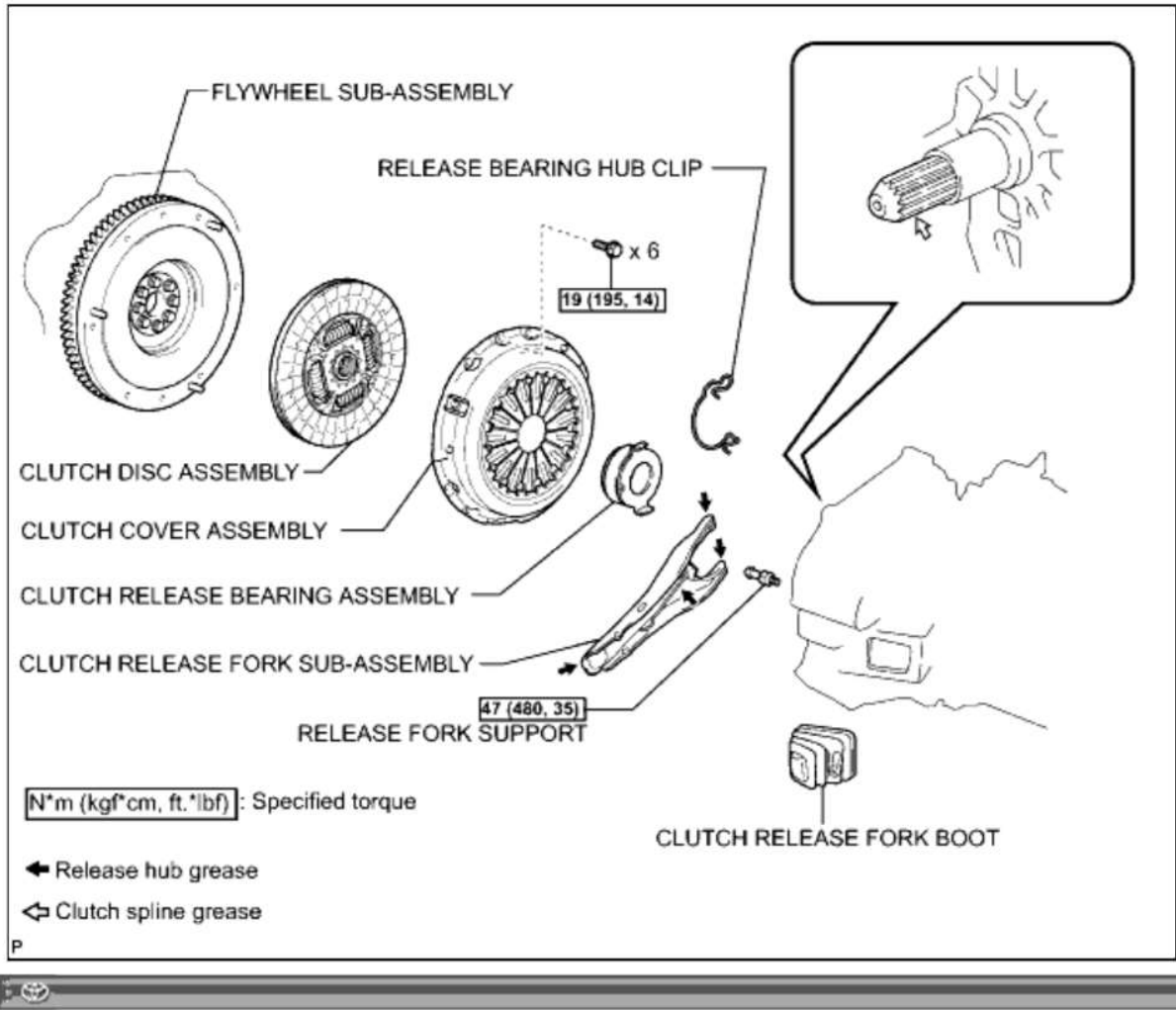
8. INSTALL MANUAL TRANSAXLE ASSEMBLY



Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000000Z1800HX
Title: CLUTCH: CLUTCH UNIT (for E351): COMPONENTS (2010 Corolla)		

COMPONENTS

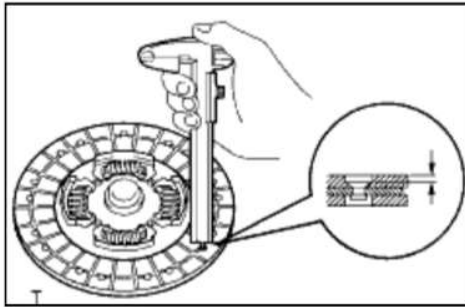
ILLUSTRATION



Last Modified: 3-10-2010	6.4 G	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000000Z1700HX
Title: CLUTCH: CLUTCH UNIT (for E351): INSPECTION (2010 Corolla)		

INSPECTION

1. INSPECT CLUTCH DISC ASSEMBLY

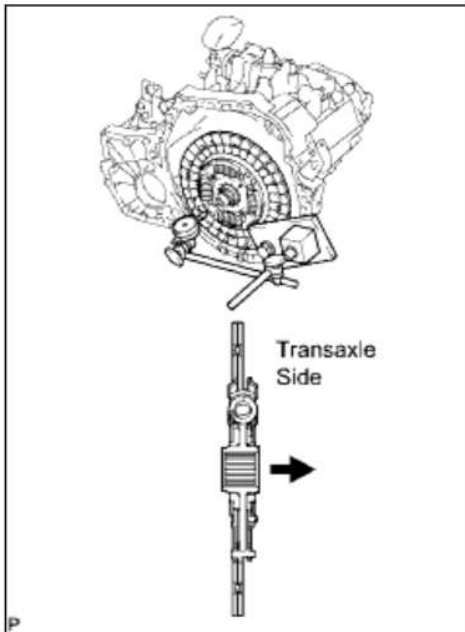


(a) Using a vernier caliper, measure the rivet head depth.

Minimum rivet depth:

0.3 mm (0.0118 in.)

If necessary, replace the clutch disc assembly.



(b) Install the clutch disc assembly to the transaxle assembly.

NOTICE:

Take care not to insert the clutch disc assembly in the wrong direction.

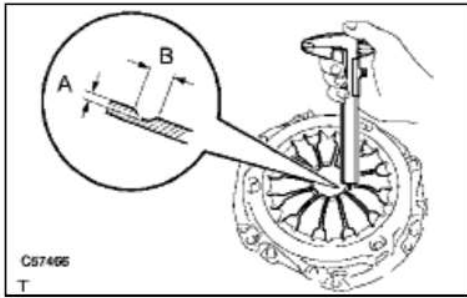
(c) Using a dial indicator with a roller instrument, measure the clutch disc assembly runout.

Maximum runout:

0.8 mm (0.0315 in.)

If necessary, replace the clutch disc assembly.

2. INSPECT CLUTCH COVER ASSEMBLY



- (a) Using a vernier caliper, inspect the diaphragm spring for depth and width of wear.

Maximum:

A (Depth)

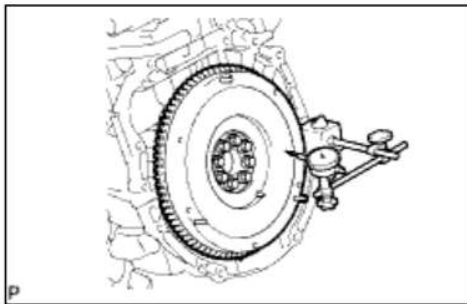
0.5 mm (0.0197 in.)

B (Width)

6.0 mm (0.236 in.)

If necessary, replace the clutch cover assembly.

3. INSPECT FLYWHEEL SUB-ASSEMBLY



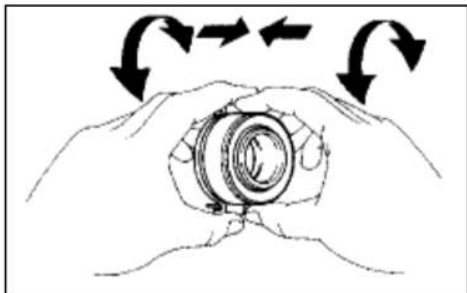
- (a) Using a dial indicator, measure the flywheel runout.

Maximum runout:

0.1 mm (0.00394 in.)

If necessary, replace the flywheel sub-assembly.

4. INSPECT CLUTCH RELEASE BEARING ASSEMBLY



- (a) Check that the bearing moves smoothly without abnormal resistance by turning the sliding parts of the bearing (contact surfaces with the clutch cover) while applying force in the axial direction.

- (b) Inspect the bearing for damage or wear. If necessary, replace the release bearing assembly.

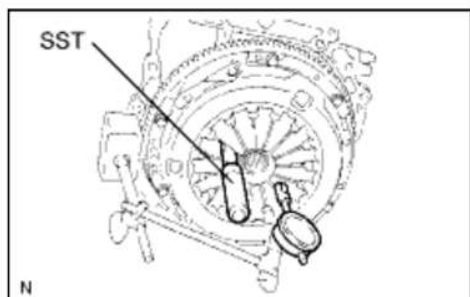
5. INSPECT AND ADJUST CLUTCH COVER ASSEMBLY

- (a) Using a dial indicator with a roller instrument, check the diaphragm spring tip alignment.

Maximum variation:

0.9 mm (0.0354 in.)

If the alignment is not as specified, adjust the diaphragm spring tip alignment with SST.



SST: 09333-00013



TOYOTA

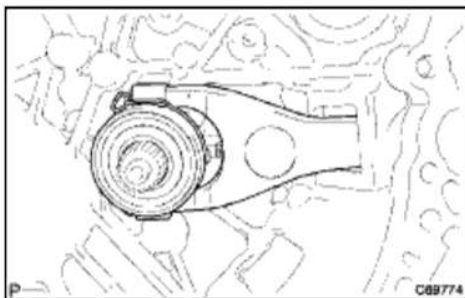
Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000000Z1900JX
Title: CLUTCH: CLUTCH UNIT (for E351): REMOVAL (2010 Corolla)		

REMOVAL

1. REMOVE MANUAL TRANSAXLE ASSEMBLY



2. REMOVE CLUTCH RELEASE FORK SUB-ASSEMBLY

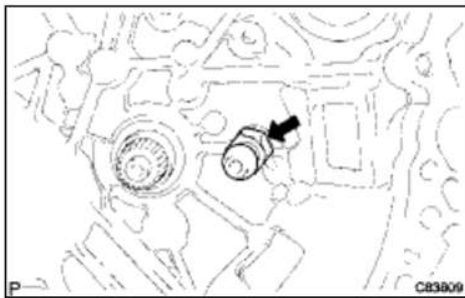


- (a) Remove the clutch release fork with the clutch release bearing from the transaxle assembly.

3. REMOVE CLUTCH RELEASE BEARING ASSEMBLY

- (a) Remove the release bearing hub clip and clutch release bearing assembly from the clutch release fork.

4. REMOVE RELEASE FORK SUPPORT

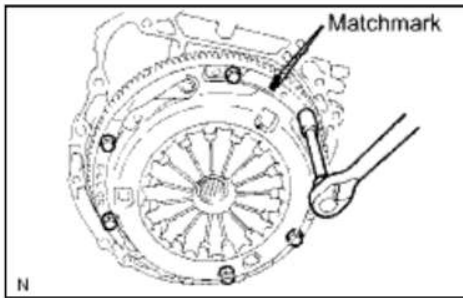


- (a) Remove the release fork support from the manual transaxle assembly.

5. REMOVE CLUTCH RELEASE FORK BOOT

6. REMOVE CLUTCH COVER ASSEMBLY

- (a) Put matchmarks on the clutch cover assembly and flywheel sub-assembly.



(b) Loosen the 6 bolts one turn at a time until spring tension is released.

(c) Remove the 6 bolts and pull off the clutch cover assembly.

NOTICE:

Do not drop the clutch disc assembly.

7. REMOVE CLUTCH DISC ASSEMBLY

NOTICE:

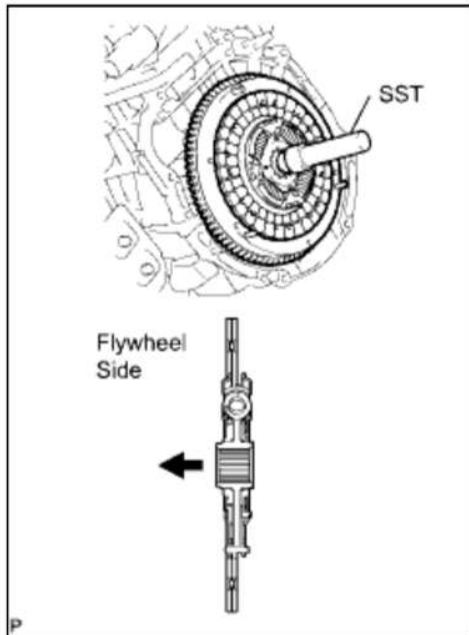
Keep the parts clutch disc lining, the pressure plate and surface of the flywheel sub-assembly free of oil and foreign matter.



Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000000Z1A00JX
Title: CLUTCH: CLUTCH UNIT (for E351): INSTALLATION (2010 Corolla)		

INSTALLATION

1. INSTALL CLUTCH DISC ASSEMBLY



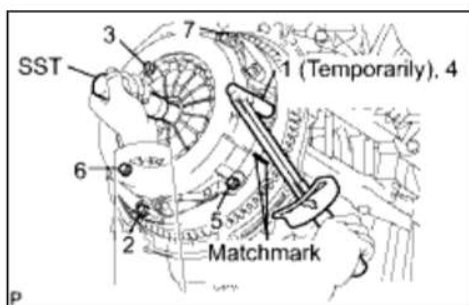
(a) Insert SST into the clutch disc assembly, then insert them into the flywheel sub-assembly.

SST: 09301-00220

NOTICE:

Take care not to insert the clutch disc assembly in the wrong direction.

2. INSTALL CLUTCH COVER ASSEMBLY



(a) Align the matchmarks on the clutch cover assembly with the one on the flywheel sub-assembly.

(b) Following the procedure shown in the illustration, tighten the 6 bolts in order, starting with the bolt located near the knock pin on the top.

Torque: 19 N·m (195 kgf·cm, 14ft·lbf)

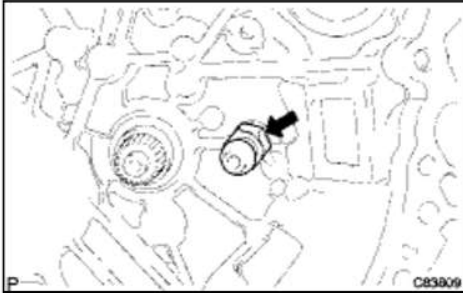
HINT:

- Following the order in the illustration, evenly tighten the bolts one turn at a time.
- Lightly move SST up and down, and right and left after checking that the disc is in the center to

tighten the bolts.

SST: 09301-00210

3. INSTALL RELEASE FORK SUPPORT



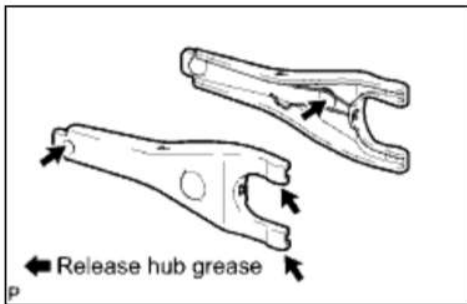
(a) Install the release fork support to the manual transaxle assembly.

Torque: 47 N·m (480 kgf·cm, 35ft·lbf)

4. INSTALL RELEASE BEARING HUB CLIP

(a) Install the release bearing hub clip to the release bearing assembly.

5. INSTALL CLUTCH RELEASE FORK SUB-ASSEMBLY



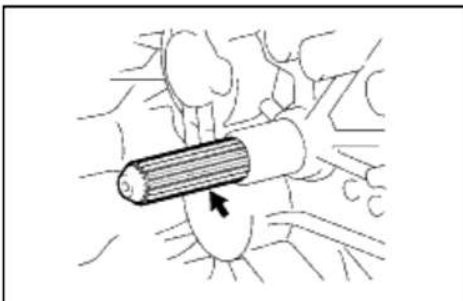
(a) Apply release hub grease to the contact surfaces between the release fork and release bearing, fork and push rod, and fork and fork support.

Grease:

Toyota Genuine Release Hub Grease or equivalent

(b) Install the release fork to the release bearing assembly.

6. INSTALL CLUTCH RELEASE BEARING ASSEMBLY

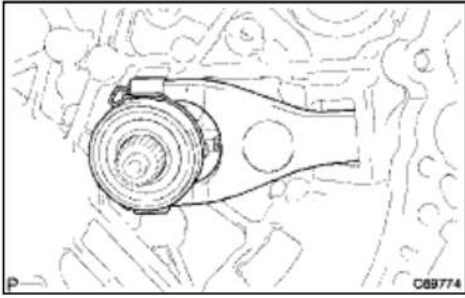


(a) Apply clutch spline grease to the input shaft spline as shown in the illustration.

Grease:

Toyota Genuine Clutch Spline Grease or equivalent

(b) Install the release fork with the release bearing assembly



to the manual transaxle assembly.

NOTICE:

After installation, move the fork back and forth to check that the release bearing slides smoothly.

7. INSTALL CLUTCH RELEASE FORK BOOT

8. INSTALL MANUAL TRANSAXLE ASSEMBLY

INFO



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