Toyota Yaris 2007-Scion xD 2008Sport Shocks

Preparation

Part Number: PTR04-52061

Kit Contents:

Item #	Quantity Reqd.	Description	
1	2	Front Struts	
2	2	Rear Shocks	
3	4	Nuts / M12x1.25 (Front)	
4	4	Nuts / M10x1.25 (Rear)	
5	1	Instruction Form	

Hardware Bag Contents

Item#	Quantity Reqd.	Description
1		
2		
3		

Additional Items Required For Installation

Item #	Quantity Reqd.	Description
1		
2		
3		

Conflicts

None

Recommended Tools

Notes
Notes
Notes
Notes
Notes
Notes
Notes

General Applicability

Yaris (Liftback, Sedan, & S Sedan)
Scion xD

Recommended Sequence of Application

	FF		
Item #	Accessory		
1	TRD Strut brace can be installed easily when front		
	strut assemblies are removed.		
2	TRD Springs		
3	TRD Rear Sway Bar		

Vehicle Service Parts (may be required for reassembly)

Item#	Quantity Reqd.	Description
1		
2		
3		

Legend



STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with.



OPERATOR SAFETY: Use caution to avoid risk of injury.



<u>CAUTION:</u> A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.



<u>TOOLS & EQUIPMENT:</u> Used in Figures calls out the specific tools and equipment recommended for this process.



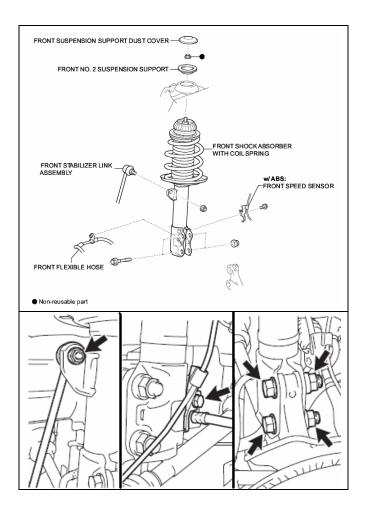
REVISION MARK: This mark highlights a change in installation with respect to previous issue.

Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation

These guidelines can be found in the "Accessory Installation Practices" document.

This document covers such items as:

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).



1. REMOVE FRONT STRUT ASSEMBLY.

- (a) Raise hood and protect fenders.
- (b) Remove suspension support dust cover.
- (c) Loosen upper strut assy nut.
 - (1) Using a 6 mm allen wrench, hold the center rod in place and loosen the nut with a deep offset wrench. Do NOT remove the nut yet.
- (d) Remove front wheels.
- (e) Separate front stabilizer link from the strut assy. If the ball joint spins use an allen wrench to hold the center stud in place.
- (f) Separate front flexible hose and speed sensor wire if equipped.
- (g) Disconnect strut assy from knuckle.
- (h) Remove strut assy.
 - (1) Supporting the weight of the strut assy remove the top nut by hand and pull the strut assy out of the wheel well.



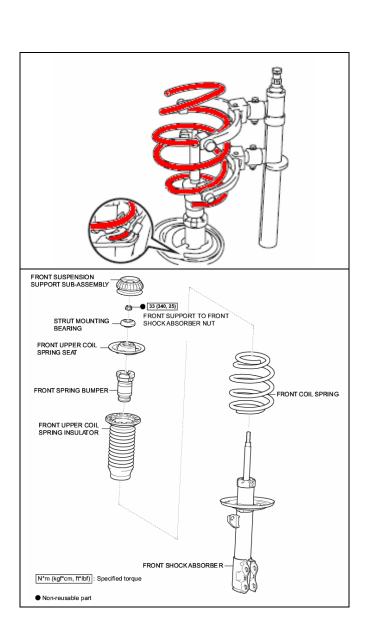
2. DISASSEMBLE STRUT.

- (a) Remove front suspension support sub-assembly (rubber bushing).
- (b) Compress spring in spring compressor.
- (c) Remove upper nut, coil spring seat, bumper, and insulator.
- (d) Remove original strut.

3. ASSEMBLE STRUT ASSEMBLY.

- (a) Install front TRD spring.
 - (1) Spring wrap with the smaller diameter should be installed in the upward direction.
 - (2) Fit the lower end of the coil spring into the pocket of the shock absorber lower seat.
- (b) Install front coil spring insulator upper.
- (c) Install front spring bumper.
 - (1) Securely insert the spring bumper into the coil spring seat upper.
- (d) Install the coil spring seat upper with the strut mount bearing and spring bumper onto the shock absorber.
- (e) Install new shock absorber nut.

Torque: 33N·m (340 kgf·cm, 25 ft.·lbf)





4. INSTALL FRONT STRUT ASSEMBLY.

- (a) Raise strut up into wheel well and hand start new upper nut. Leave assembly loose for now.
- (b) Attach strut assembly to knuckle with 2 bolts and 2 nuts.

Torque: 164 N·m (1,672 kgf·cm, 121 ft.·lbf)

- (c) Attach front flexible brake hose and speed sensor, if equipped.
 - (1) Install the flexible hose and speed sensor without twisting them.

Torque: 29 N·m (300 kgf·cm, 22 ft.·lbf)

- (d) Attach front stabilizer link assembly.
 - (1) If the ball joint turns with the nut, use a 6mm allen wrench to hold the stud.

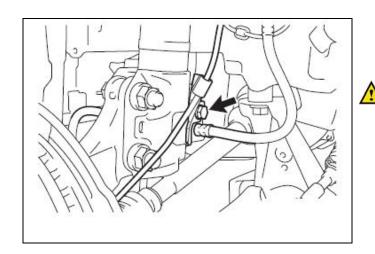
Torque: 74 N·m (755 kgf·cm, 55 ft.·lbf)

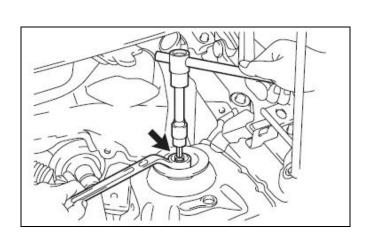
(e) Install front wheels.

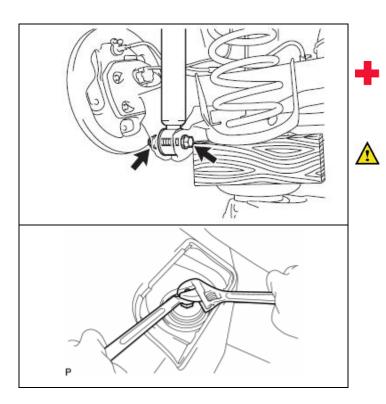
Torque: 103 N·m (1,050 kgf·cm, 76 ft.·lbf)

(f) Now go back to the upper strut mounting nut and tighten it.

Torque: 55 N·m (561 kgf·cm, 41 ft.·lbf)







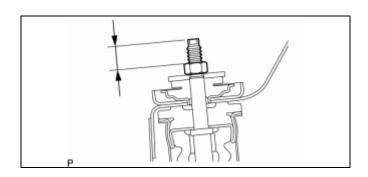
5. REPLACE REAR SHOCKS.

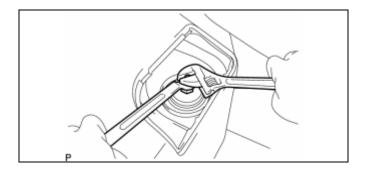
- (a) Remove rear wheel.
- (b) Remove rear seat cushion cover pad subassembly (for Yaris Sedan fixed seat type).
- (c) Remove rear seatback assy (for Yaris Sedan fixed seat type).
- (d) Remove rear shock absorber cap.
- (e) Remove rear shock absorber.
 - (1) Support the axle beam with a jack. Insert a wooden block between the jack and the rear axle spring seat to prevent damage.
 - (2) Replace one shock at a time. Do not let the beam axle hang unsupported.
 - (3) Remove the 2 nuts while keeping the piston rod from rotating.
 - (4) Remove the cushion retainer and suspension support.
 - (5) Remove lower bolt and pull shock from vehicle.

6. INSTALL REAR SHOCK

- (a) Install shock support cushions and temporarily install upper shock up into the vehicle body.
- (b) Support the axle beam with a jack. Insert a wooden block between the jack and the rear axle spring seat to prevent damage.
- (c) Jack up the axle beam slowly, and provisionally tighten the shock absorber (lower side) with the bolt and nut to the axle beam.







- (d) Install the suspension support and cushion retainer.
- (e) While holding the piston rod, install a <u>new</u> lower nut to the specified standard.
- (f) Standard: 15 to 18 mm (0.591 to 0.709 in.)
- (g) While holding the piston rod, tighten a <u>new</u> upper nut.

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

- (h) Install rear shock absorber cap.
- (i) Install rear seatback assembly (for Yaris Sedan fixed seat type).
- (j) Install rear seat cushion cover pad subassembly (for Yaris Sedan fixed seat type).
- (k) Install rear wheels.

Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)

- (l) Stabilize suspension.
 - (1) Lower the vehicle from the jack.
 - (2) Bounce the vehicle up and down several times to stabilize the suspension.
- (m) Fully tighten rear shock absorber.
 - (1) Fully tighten the shock absorber (lower side) with the bolt.

Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)

TOYOTA Checklist. Thes	YARIS te points MUST be ch	2007- necked to ensure a quality ins	tallation.	Sport Socks
CHECK FOR: Accessory Fun			LOOK FOR:	
Vehicle Functi	on Checks			

TOYOTA