Part Number: PTR07-53080

Kit Contents:

Item #	Quantity Reqd.	Description
1	2	Front Springs
2	2	Rear Springs
3	1	Instruction Form

Hardware Bag Contents

	0	
Item #	Quantity Reqd.	Description
1		
2		
3		

Additional Items Required For Installation

Item #	Quantity Reqd.	Description
1	2	90177-12002 Shock Nut, Front
2	2	90179-12127 Shock Nut, Rear
3		

Conflicts

None	
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Recommended Tools		
Personal & Vehicle	Notes	7
Protection		
Fender Covers		
Safety Glasses		
Special Tools	Notes	
Spring Compressor		
Installation Tools	Notes	
Special Chemicals	Notes	

General Applicability

IS 250, IS 350

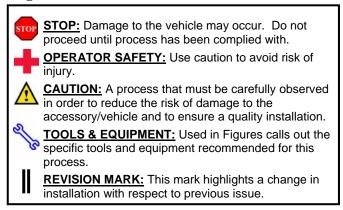
Recommended Sequence of Application

Item #	Accessory
1	F-Sport Springs should be installed at the same time as F-Sport Shocks
2	

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description
1		
2		
3		

Legend



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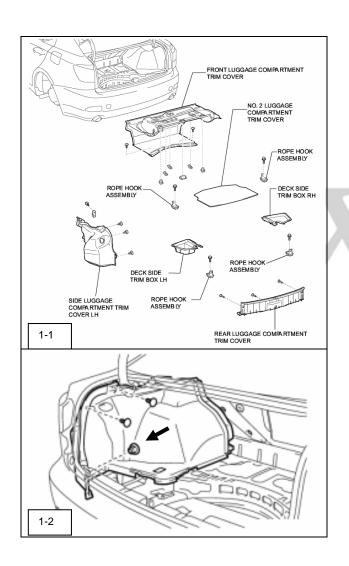
LEXUS IS 250/350 2006-Procedure

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 Rear Shock And Spring Assembly.

(Fig 1-1)

2

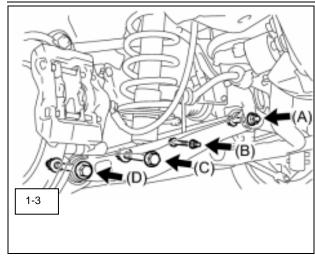
(a) Remove no. 2 luggage compartment trim cover.

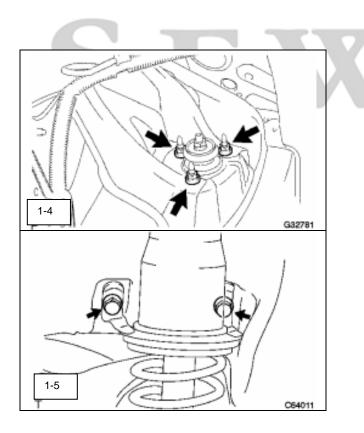
ESPORT Lowering Springs

- (b) Remove deck side trim box LH.
- (c) Remove deck side trim box RH.
- (d) Remove rear luggage compartment trim cover.
- (e) Partially remove front luggage compartment trim cover. (just enough to remove side trim pieces)
 - Disengage upper clips holding trim to package tray.
- (f) Remove side luggage compartment trim cover LH.
 - (1) Clip found under rear trim cover can be removed using a small screwdriver to unlock clips. Do not force clip. (Fig 1-2)
- (g) Remove side luggage compartment trim cover RH.

IS 250/350 LEXUS

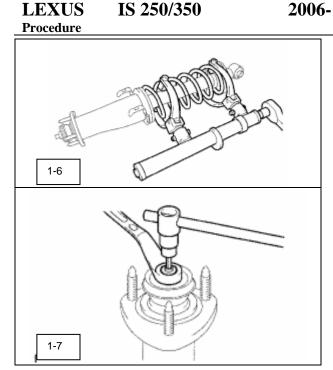
Procedure



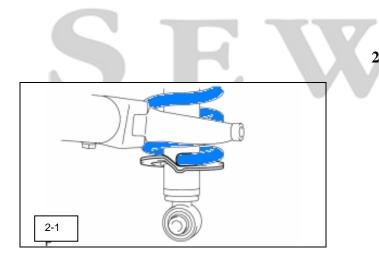


- (h) Remove rear wheels.
- (i) Lower rear no. 2 suspension arm. (Fig 1-3)
 - (1) Loosen nut A.
- NOTE: Do not remove the nut.
 - (2) Remove bolt B and the nut. Disconnect the stabilizer link assembly and height control sensor link bracket from the rear No. 2 suspension arm assembly. Note position of height control sensor link.
 - (3) Remove bolt C, nut, and rear shock absorber.
- NOTE: Turn the bolt while holding the nut.
 - (4) Remove bolt D and the nut on the axle carrier side and lower the rear No. 2 suspension arm assembly from the knuckle assy.
- NOTE: Turn the bolt while holding the nut.
- (j) Remove rear shock absorber assembly.
 - (1) Remove the 3 nuts on the upper side of the rear shock absorber assembly. (Fig 1-4)
 - (2) Remove the 2 bolts and the rear shock absorber assembly from the body. (Fig 1-5)
 - (1) You will need to remove two fender liner nuts to get access to these two bolts.

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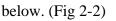
- (k) Remove spring from shock assembly.
 - (1) Using a spring compressor, compress the rear coil spring until tension is removed from the shock assy. (Fig 1-6)
 - (2) Remove the lock nut using an impact gun or if using a wrench hold the rod of the rear shock absorber assembly with a socket hexagon wrench (6 mm). (Fig 1-7)
 - (1) Note the order and position of washer, jounce bumper and bushings for reassembly.

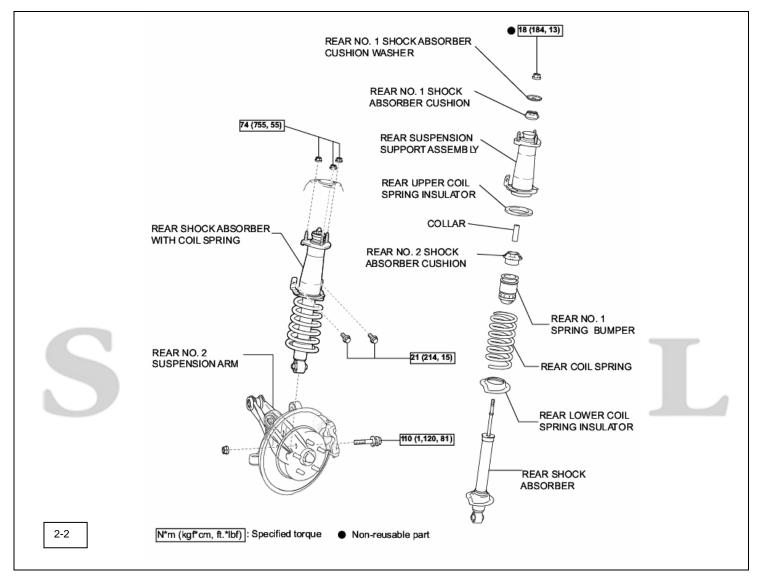


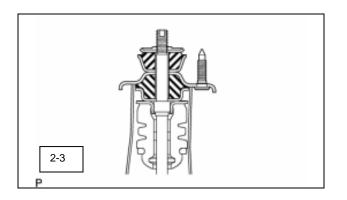
2. Install *F-Sport* Rear Spring.

(a) Install the rear lower coil spring insulator and fit the rear coil spring end into the recessed part of the rear lower shock absorber seat. (Fig 2-1)

(b) Reassemble the shock spring assembly as shown



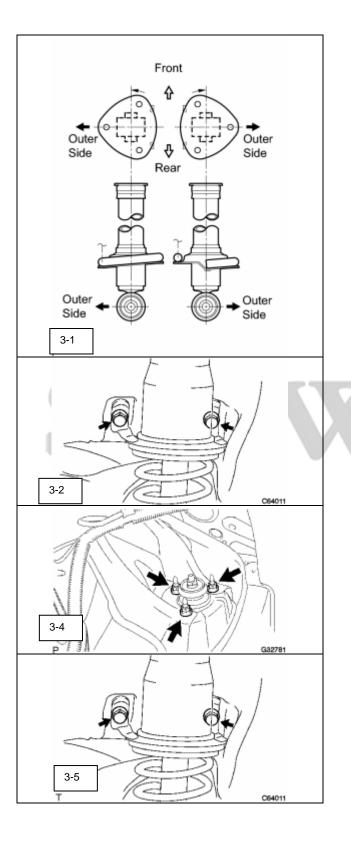




- (c) Make sure the cushions and washer are assembled in the correct direction and order as shown. (Fig. 2-3)
- (d) Tighten the new shock absorber shaft nut.

Torque: 18 N·m (184 kgf·cm, 13 ft·lbf)

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- 3. Install Rear Shock And Spring Assembly.
 - (a) Make sure that the left (driver's side) coil spring end faces toward the front of the vehicle and the right coil spring end faces toward the rear. (Fig 3-1)

- (b) Temporarily install the rear shock absorber assy with the 2 bolts. (Fig 3-2)
- (c) Install the 3 nuts on the upper side of the rear shock absorber assy. (Fig 3-4)

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

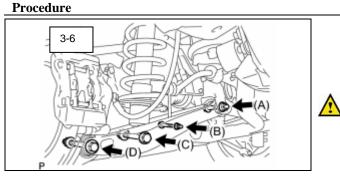
(d) Fully tighten the 2 bolts. (Fig 3-5)

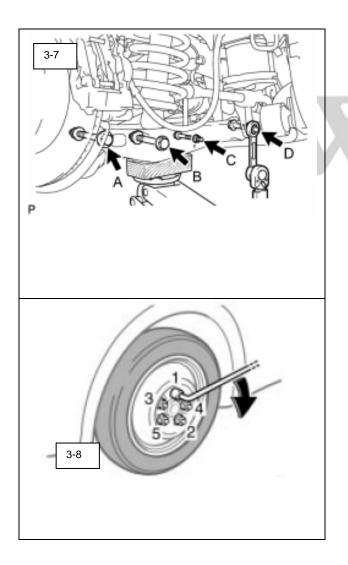
Torque: 21 N·m (214 kgf·cm, 15 ft·lbf)

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- (e) Raise the lower suspension arm and temporarily install the nuts and bolts for the sway bar, shock, and knuckle. (Fig 3-6)
 - (1) Confirm height control sensor link is positioned correctly. (not folded inward)
- (f) Safely load the suspension. (1 of 3 ways)
 - (1) Lower vehicle arm onto a tripod stand.
 - (2) Raise arm with a block of wood and floor jack.
 - (3) Install wheel and lower vehicle onto a load ramp.

Note: Drive axle should be about level.

(g) Fully tighten the bolt and nut on the rear No. 2 suspension arm assembly LH . (Fig 3-7)

A: Torque: 161 N·m (1,640 kgf·cm, 118 ft·lbf)

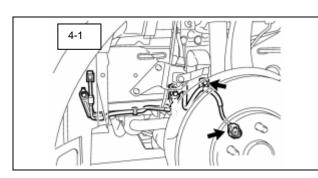
- B: Torque: 110 N·m (1,120 kgf·cm, 80 ft·lbf)
- C: Torque: 27 N·m (275 kgf·cm, 20 ft·lbf)
- D: Torque: 102 N·m (1,040 kgf·cm, 75 ft·lbf)

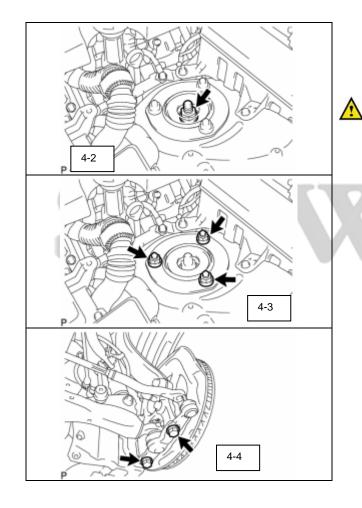
NOTE: If using Lexus special service tool SST 09022-12170 for nut and bolt D use the following spec.

- (h) D: Torque: 140 N·m (1,426 kgf·cm, 103 ft·lbf)
- (i) Install rear fender liner nuts.
- (j) Install rear wheels. (Fig 3-8)

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

- (k) Install side luggage compartment trim covers.
- (l) Install front and rear luggage compartment trim covers.
- (m)Install deck side trim box RH and LH.
- (n) Install No. 2 luggage compartment trim cover.





4. Remove front Shock assemblies.

- (a) Remove front wheel.
- (b) Detach speed sensor wire from shock assembly and disconnect it from the speed sensor. (Fig 4-1)
- (c) Remove bolt holding lower end of shock absorber.
- (d) Remove engine room side covers.
 - (1) Remove 4 clips from each side.
- (e) Loosen the lock nut of the front shock absorber. (Fig 4-2)

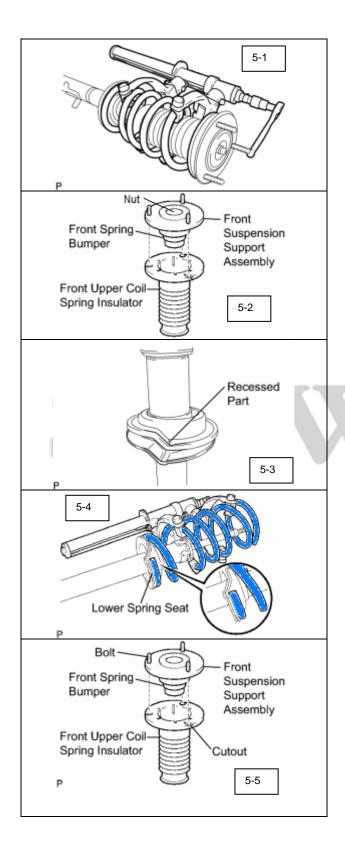
NOTE: Do not remove the lock nut.

(f) Remove the 3 nuts on the upper side of the front suspension support. (Fig 4-3)

Note: Lower arm bushing preload will not allow the shock assembly to fall.

- (g) Remove the 2 bolts from the front lower ball joint. (Fig 4-4)
- (h) Pull shock assembly from the vehicle.
- (i) Repeat for other side of vehicle.

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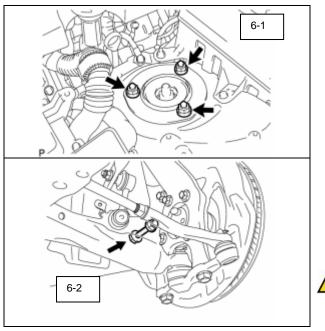


5. Replace front springs

(a) Compress spring enough to remove tension from the upper spring support. (Fig 5-1)

- (b) Remove the lock nut. (Fig 5-2)
- (c) Remove the front suspension support assembly with the front upper coil spring insulator.
- (d) Remove the front coil spring.
- (e) Confirm lower spring insulator is indexed properly and free from debris. (Fig 5-3)
 - ELL
- (f) Compress new front spring and place over shock assy.
- (g) Confirm that the end of the spring sits in the stepped portion of the lower spring seat. (Fig 5-4)
- (h) Install the front spring bumper onto the front suspension support assembly.
- (i) Align the bolt heads of the front suspension support assembly with the cutouts of the front upper coil spring insulator, and install the front upper coil spring insulator on the front suspension support assembly. (Fig 5-5)

IS 250/350 2006-**ESPORT** Lowering Springs LEXUS Procedure (j) Match the shape of the piston rod end to the hole in the front suspension support assembly to install the front shock absorber. (Fig 5-6) Piston Rod 5-6 Front Suspension Upper Side View (k) Adjust the front suspension support assembly so that the bolts come to the positions shown in the Outer Side Outer Side of Vehicle of Vehicle illustration, and remove the spring compressor from the front coil spring. (Fig 5-7) Front (1) Temporarily tighten a new lock nut to the front í٢ shock absorber. Paint Mark Paint Mark LH RH 5-7 6. Install front shock assy.



(b) Insert the bolt from the rear of the vehicle, and install the front shock absorber lower side on the front lower suspension arm. (Fig 6-2)

(a) Install the front shock absorber assy onto the

support side. (Fig 6-1)

Torque: 67 N·m (683 kgf·cm, 49 ft·lbf)

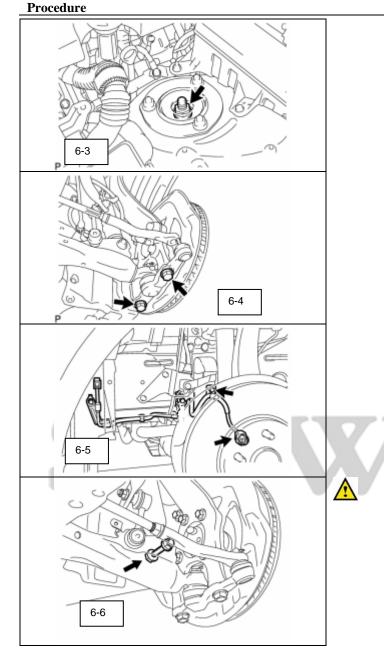
vehicle by tightening the 3 nuts on the suspension

(c) Temporarily tighten the nut while holding the bolt.

NOTE: You will fully tighten the nut after settling the suspension.

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(d) Now fully tighten the new shock assy lock nut. (Fig 6-3)

Torque: 28 N·m (286 kgf·cm, 21 ft·lbf)

(e) Install the front lower ball joint with the 2 bolts.(Fig 6-4)

Torque: 120 N·m (1,220 kgf·cm, 89 ft·lbf)

- (f) Connect front speed sensor wire. (Fig 6-5)
 - (1) Install the front speed sensor to the front shock absorber.

Torque: 6.0 N·m (61 kgf·cm, 4.4 ft·lbf)

- (g) Fully tighten lower shock bolt. (Fig 6-6)
 - (1) Jack up lower suspension arm so that weight of vehicle is supported.

Torque: 157 N·m (1,600 kgf·cm, 116 ft·lbf)

(h) Install engine room side covers

(i) Install front wheel assy

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



7. ADJUST WHEEL ALIGNMENT

LEXUS IS 250/350

Checklist. These points MUST be checked to ensure a quality installation.

2006-

SPORT	Lowering	Springs
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CHECK FOR: Accessory Function Checks	LOOK FOR:
Check for noise	Confirm all springs are seated properly.
Vehicle Function Checks	
Confirm VSC light is off	Confirm speed sensor wires are plugged in.
Confirm all hardware with torque values are tight	Loose hardware.
	ΈΙΙ