Technical Bulletin

Division: Automotive
Category: Technical

Section Title: Suspension
TSB No. TS 01 05223

SUBJECT: **DESIGN CHANGE OF REAR SHOCK ABSORBER BUMP STOPPER**

MODEL(S): **KIZASHI (A6B424)**

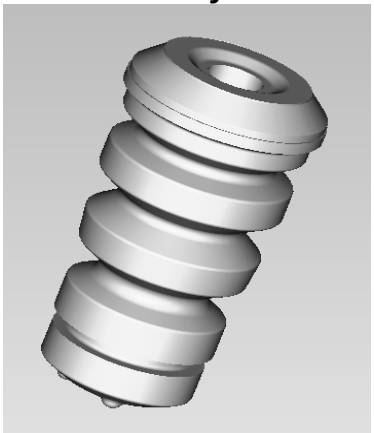
YEAR: **2010 ~ 2013**

CONDITION: The rear shock absorber develops a squeak as a result of corrosion on its piston rod.

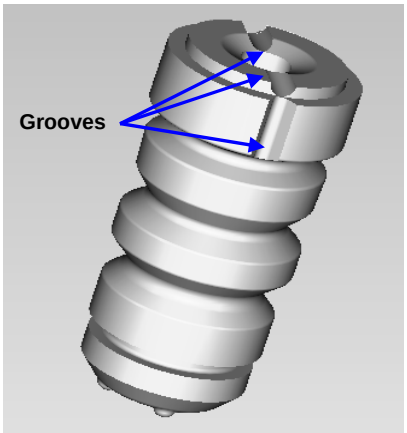
CAUSE: Water retention by the shock absorber bump stopper causes corrosion of the shock's piston rod, resulting in an abnormal sound.

CORRECTION: In order not to have corrosion develop on the rear shock absorber's piston rod, the bump stopper inner diameter has been made smaller, preventing water from entering into the space between the bump stopper and the piston rod. Grooves have also been added on the bump stopper's top surface to help shed water away from the piston rod. If you have a condition as described above, replace the bump stopper assembly and the rear shock absorber.

Early



Countermeasure

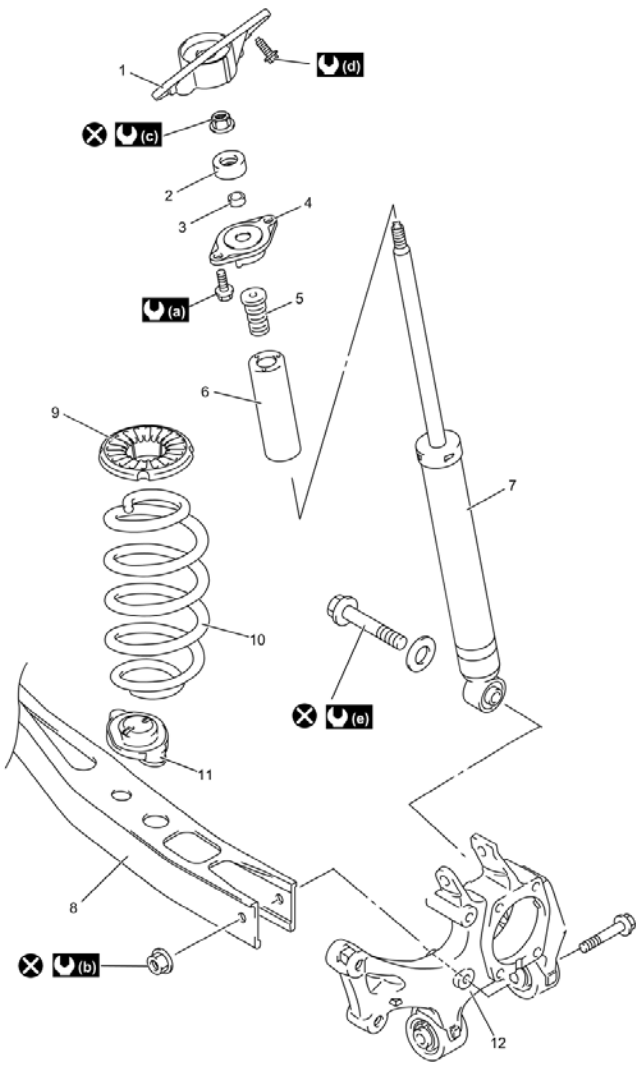


Technical Service Department
Suzuki Service Point Circulation – Initial and file:

Service Manager	Parts Manager	Service Advisor	Technicians							

PART(S) INFORMATION			
Description	**Qty**	**Part Number**	**Comments**
Stopper Assembly, Rear Bump	1	42250-57L03	*Counter Measure Part Stop Bumper and Shock Cover Assembly.
Rear Shock Absorber	1	41810-57L00	GTS/SLS/S/DLX/SE
Rear Shock Absorber	1	41810-57L50	Sport/Sport GTS/SportSLS
Nut, Rear Shock Upper	1	41814-57L00	**Do not reuse**
Bolt, Rear Shock Lower	1	41891-57L00	**Do not reuse**

***Bump Stopper Assembly**



(a)	40 N·m (4.1 kg-m, 29.5 lb-ft)
(b)	75 N·m (7.6 kg-m, 55.5 lb-ft)
(c)	30 N·m (3.1 kg-m, 22.5 lb-ft)
(d)	60 N·m (6.1 kg-m, 44.5 lb-ft)
(e)	50 N·m (5.1 kg-m, 37.0 lb-ft)
	Do not reuse

NOTICE

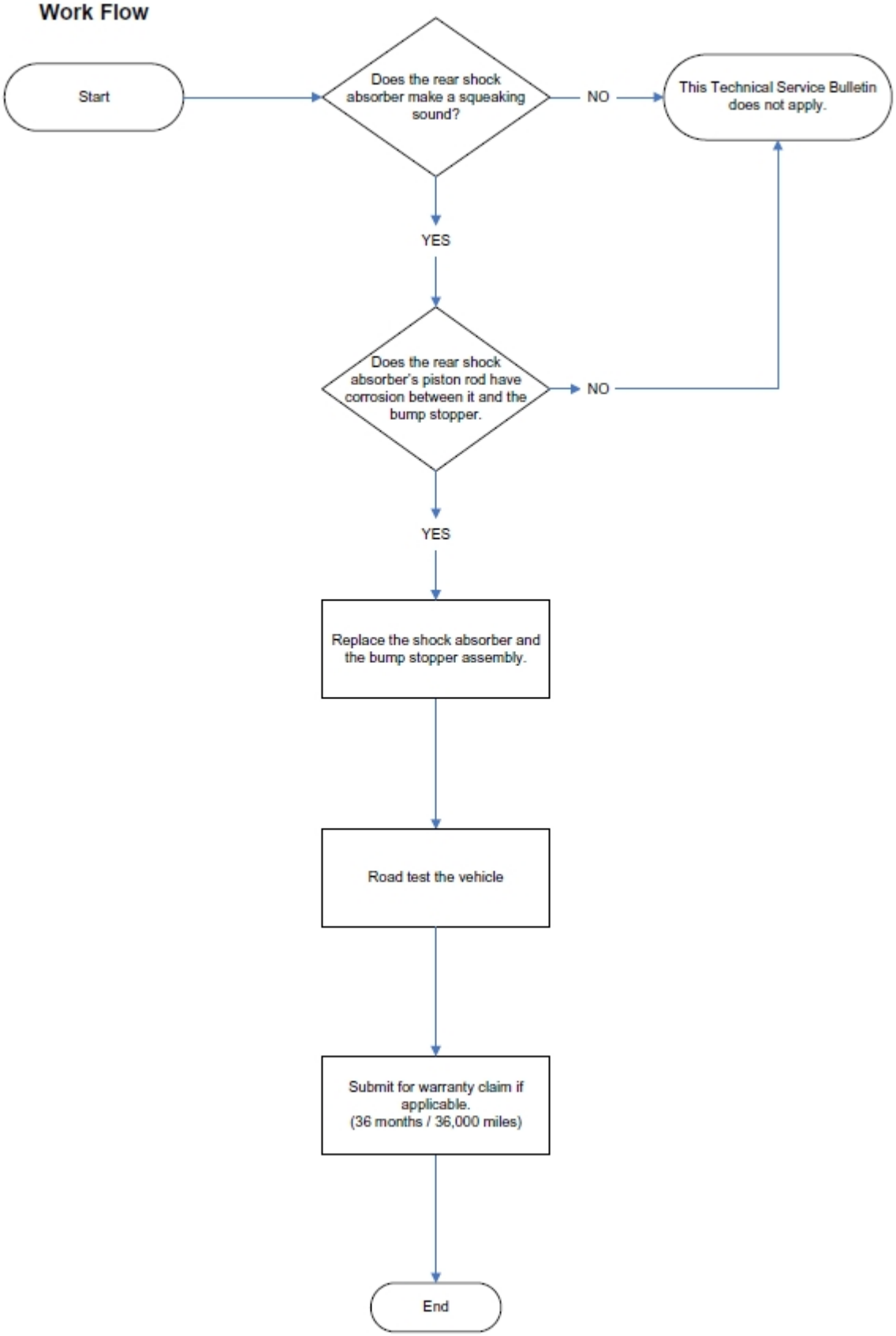
The following fasteners are pre coated with friction stabilizer. If these bolts are reused, they may work loose.

Never reuse! Always replace the following fasteners when removed for shock absorber replacement.

- **Rear shock absorber support nut.**
- **Rear shock absorber lower bolt.**

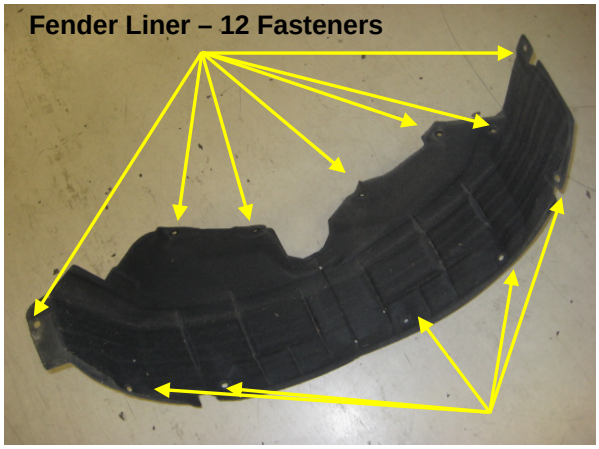
1. Rear shock absorber support	7. Rear shock absorber
2. Rear shock absorber support mount	8. Lower arm
3. Rear shock absorber washer	9. Upper spring seat
4. Rear shock absorber support cap	10. Coil spring
5. Rear shock absorber bump stopper	11. Lower spring seat
6. Shaft cover	12. Suspension knuckle

Work Flow


Start
Does the rear shock absorber make a squeaking sound?
NO
This Technical Service Bulletin does not apply.
YES
Does the rear shock absorber's piston rod have corrosion between it and the bump stopper.
NO
YES
Replace the shock absorber and the bump stopper assembly.
Road test the vehicle
Submit for warranty claim if applicable.
(36 months / 36,000 miles)
End

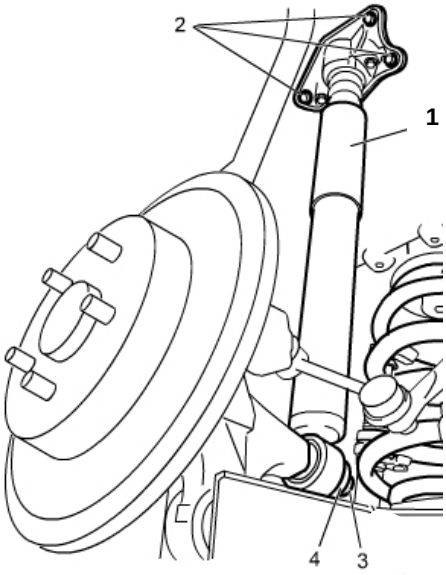
SERVICE PROCEDURE:

Rear Shock Absorber Removal and Disassembly



1. Hoist the vehicle and remove the rear wheel.

2. Remove the rear fender lining fasteners (Qty 12) from the locations identified and remove the liner.



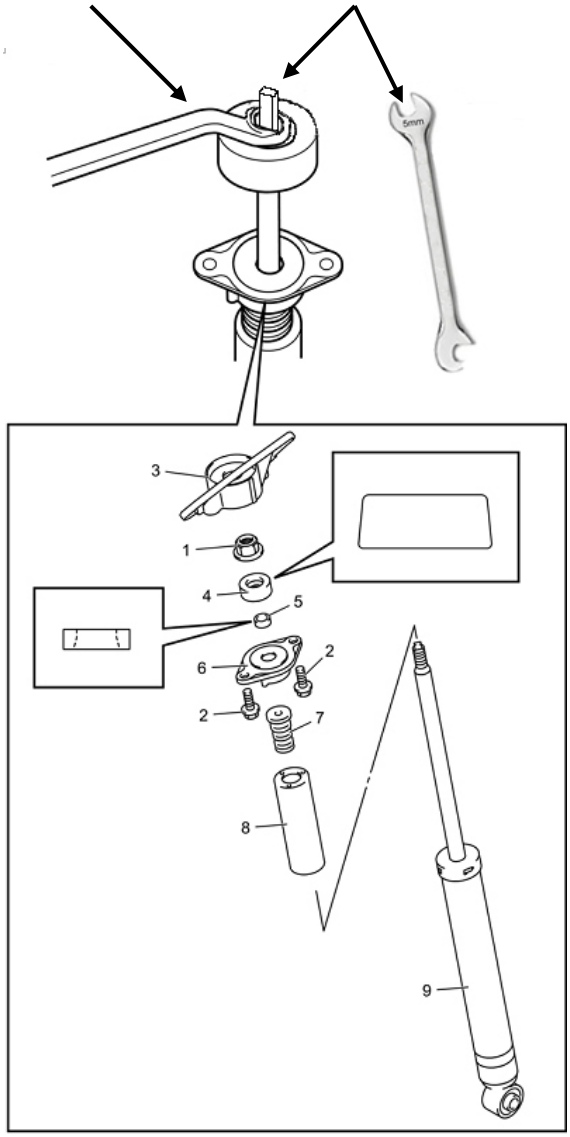
3. Remove the rear shock absorber assembly (1) from the vehicle.
   a. Remove the 3 rear shock absorber support bolts (2).
   b. Remove the single rear shock absorber lower bolt (3) and washer (4). Discard the bolt and retain the washer for reassembly.

The following steps 4 through 8 are necessary to recover specific parts for reuse: Support (#3), Support Mount (#4), Washer (#5), Support Cap (#6) and Support Cap Bolts (#2).

4. Remove the 2 rear shock absorber support cap bolts (2) and remove the rear shock absorber support (3).
5. While holding the rear shock absorber piston rod by the flat portion of its tip, loosen the rear shock absorber nut (1), and then remove it from the piston rod and discard.
6. Note the orientation and then remove the rear shock absorber support mount (4).
7. Note the orientation and then remove the rear shock absorber washer (5).
8. Remove the rear shock absorber support cap (6).

1. Rear shock absorber nut
2. Rear shock absorber support cap bolt
3. Rear shock absorber support
4. Rear shock absorber support mount
5. Rear shock absorber washer
6. Rear shock absorber support cap
7. Rear shock absorber bump stopper
8. Rear shock absorber shaft cover
9. Rear shock absorber

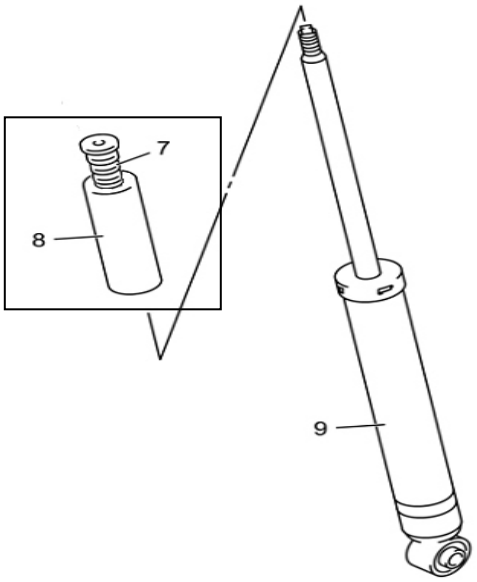
Loosen Nut (1) While Holding Piston Rod Flat Tip



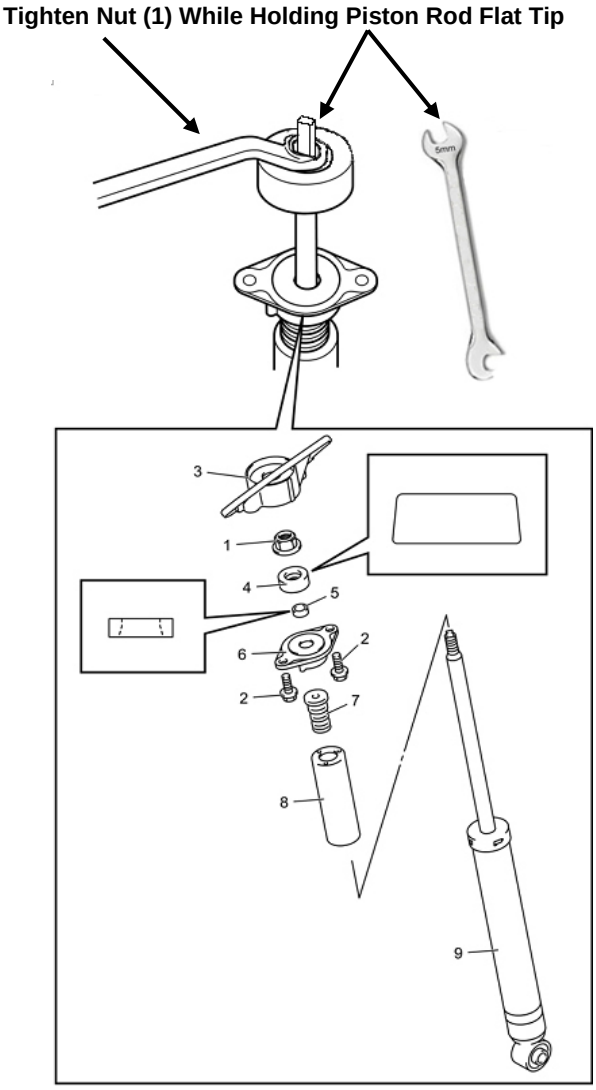
Rear Shock Absorber Assembly and Installation

NOTICE
The following fasteners are pre coated with friction stabilizer. If these bolts are reused, they may work loose. **Never reuse! Always replace the following fasteners when removed for shock absorber replacement.** • **Rear shock absorber support nut.** • **Rear shock absorber lower bolt.**

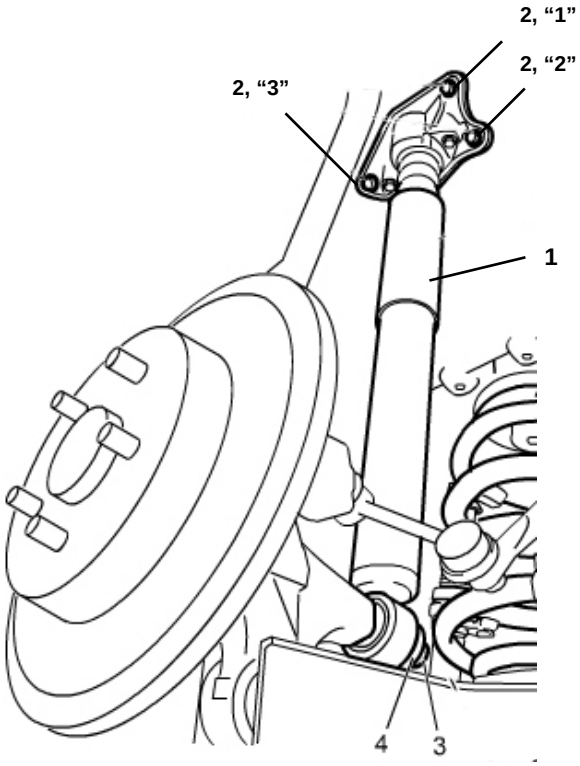
1. Install the countermeasure rear bump stopper assembly (7) and (8), (part# 42250-57L03) to the rear shock absorber (9).



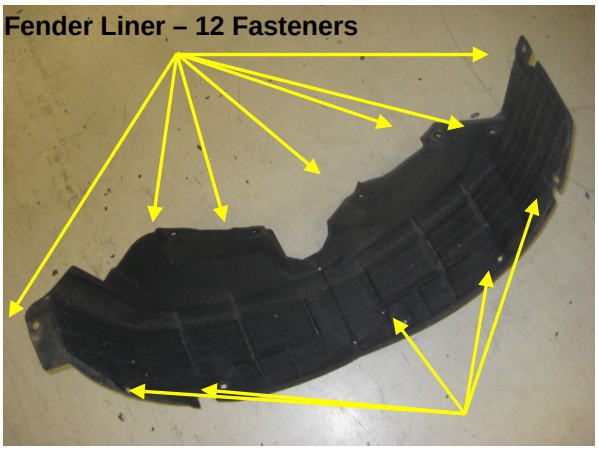
2. Install the rear shock absorber support cap (6).
3. Install the rear shock absorber washer (5) being careful to orient it as noted during disassembly.
4. Install the rear shock absorber support mount (4) being careful to orient it as noted during disassembly.
5. Using a new nut, install and lightly tighten the rear shock absorber nut (1).
6. While holding the flat portion at the tip of the piston rod of the rear shock absorber, tighten the nut to 30 N·m (3.1 kg-m, 22.5 lb-ft).
7. Install the rear shock absorber support (3) and rear shock absorber support cap bolts (2). Tighten the bolts to 40 N·m (4.1 kg-m, 29.5 lb-ft).



8. Install the rear shock absorber assembly (1).
   a. Install 3 rear shock absorber support bolts (2) in the sequence “1”, “2”, then “3”. Tighten the bolts to 60 N·m (6.1 kg-m, 44.5 lb-ft).
   b. Using a new bolt, install the single rear shock absorber lower bolt (3) and washer (4). Tighten the bolt to 50 N·m (5.1 kg-m, 37.0 lb-ft).



9. Install rear fender lining.



10. Install the rear wheel and torque the lug nuts in three steps. Use the tightening sequence: “1” – “2” – “3” – “4” – “5”. Torque the lug nuts to 140 N·m (14.3 kg-m, 103.5 lb-ft).

11. Road test the vehicle.
12. Submit warranty claim if applicable. (36 months / 36,000 miles)