TOYOTA SERVICE BULLETIN
Group: 07 No.: 13 Date: Oct, 13

RAV4 ACA33/38 & GSA33

Tightening Sequence for Rear Tie Rod Adjustment

The purpose of this bulletin is to supplement the rear tie rod adjustment procedure in the Repair Manual to assure that the proper tightening sequence is followed. The following procedure should be used whenever performing a toe adjustment during a rear wheel alignment.

Please ensure these pages are distributed to all relevant staff for their information; and a copy made available for future reference, with the above repair manual.

Required Tools & Equipment

SPECIAL SERVICE TOOL (SST)	Part No.	QTY
Steering Gear Housing Overhaul Tool Set (Steering Rack Wrench)	09612-24014 (09617-24011)	1

Part No. Information :

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
N/A	Not Applicable to Warranty	-	-	-	-

Production Effective :

VIN			Production Date
WMI	VDS	VIS	
Jxx	xxxxVx	05000007 - BD039852	20050721 - 20100831
Lxx	xxxxFx	90001529 - A0088533	20090206 - 20101031

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Repair Procedure:

REAR WHEEL ALIGNMENT

ADJUSTMENT

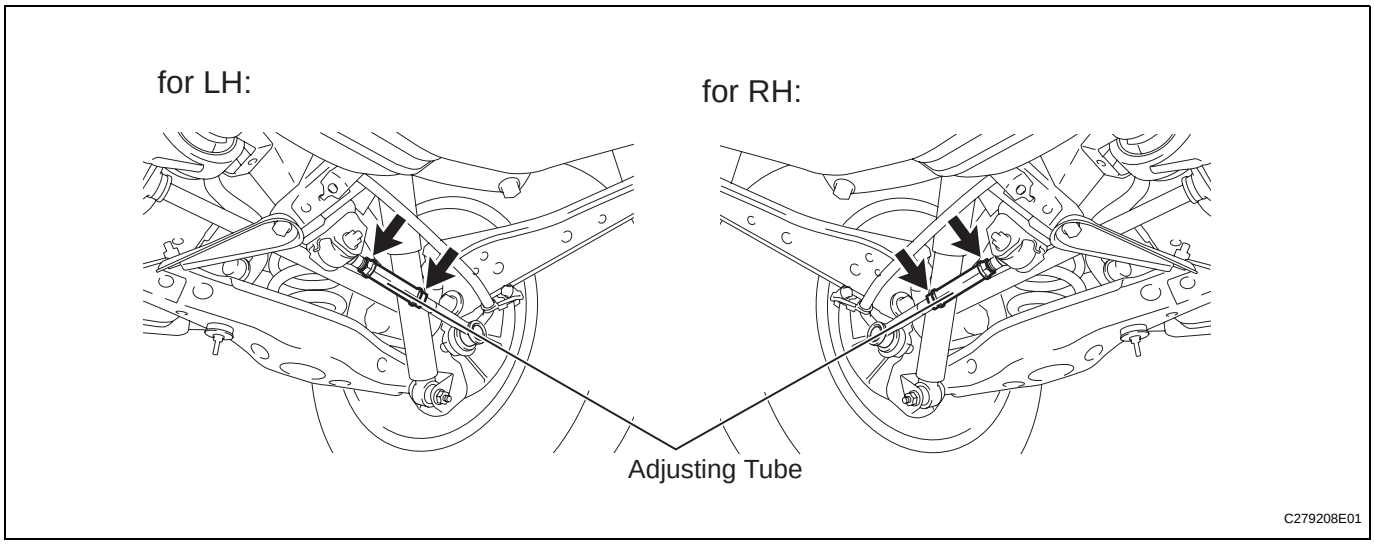
When performing a rear wheel toe adjustment, carefully follow the instructions in this bulletin.

NOTICE:

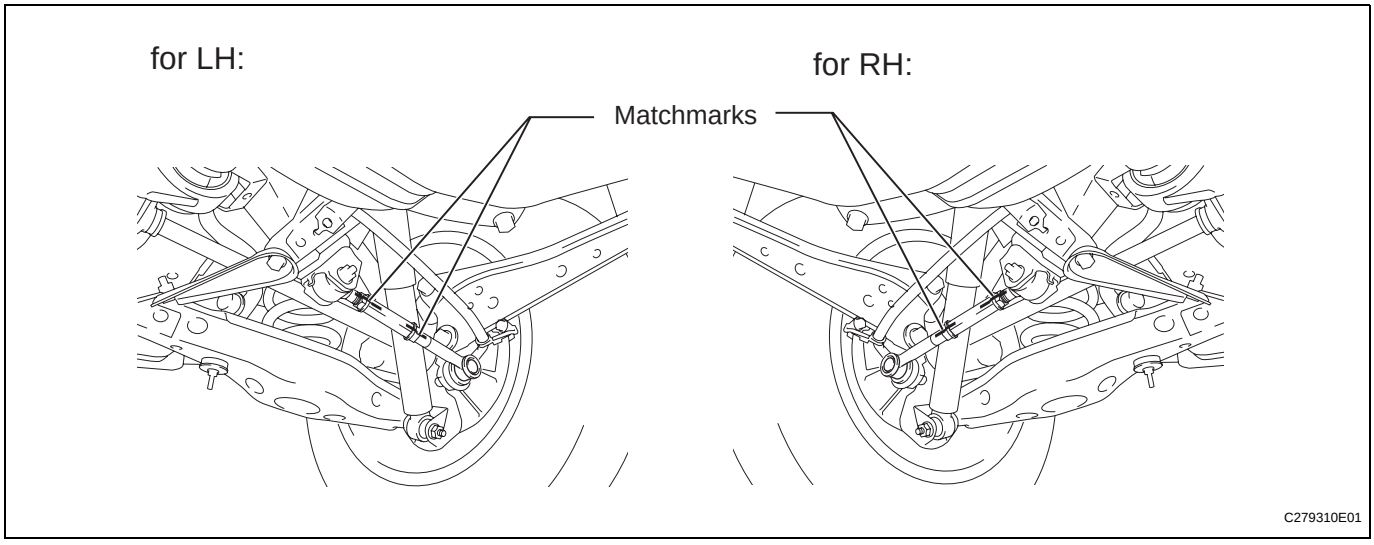
Inspect the lock nuts and adjusting tube for looseness as detailed below. If either nut is found abnormally loose during inspection, or if either lock nut does not rotate smoothly by hand after loosening, replace the rear No. 1 suspension arm.

1. ADJUST TOE-IN

(a) Inspect the rear No. 1 suspension arm by removing clip with instruction label and inspecting the nuts and adjusting tube for looseness visually and by hand.

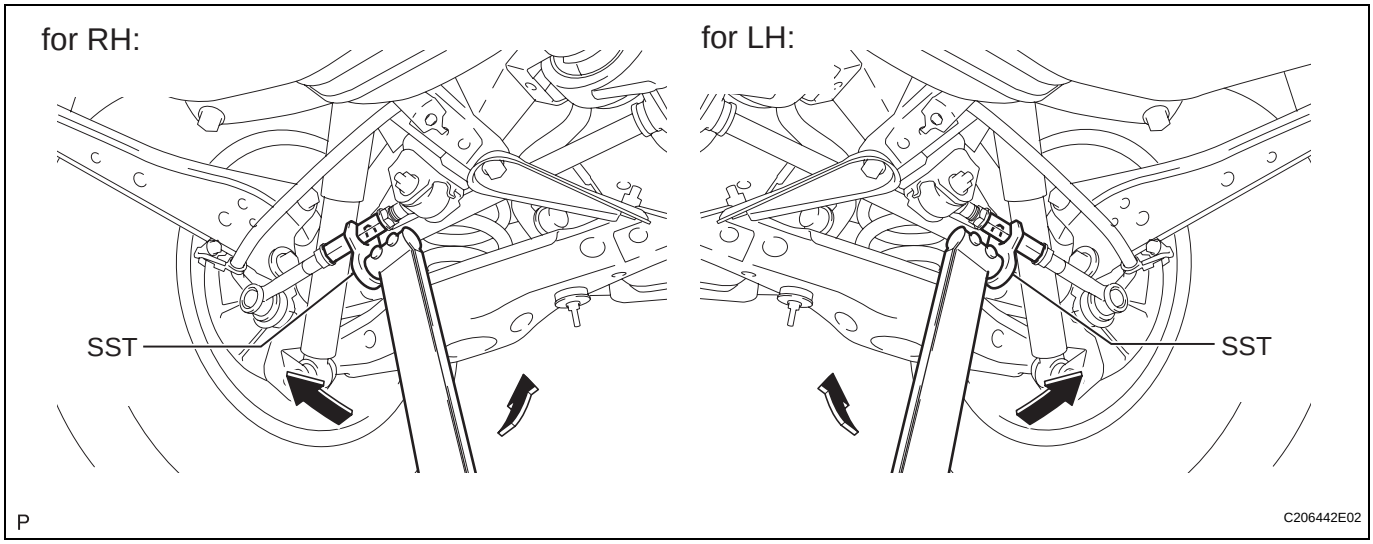


(b) Put matchmarks onto the rear No. 1 suspension arm assembly as shown in the illustration below.



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(c) Check adjusting tube for looseness.
Using the SST, try turning the adjusting tube in both clockwise and counterclockwise directions with the specified torque to check that the matchmarks will not be misaligned.
SST 09612-24014 (09617-24011)

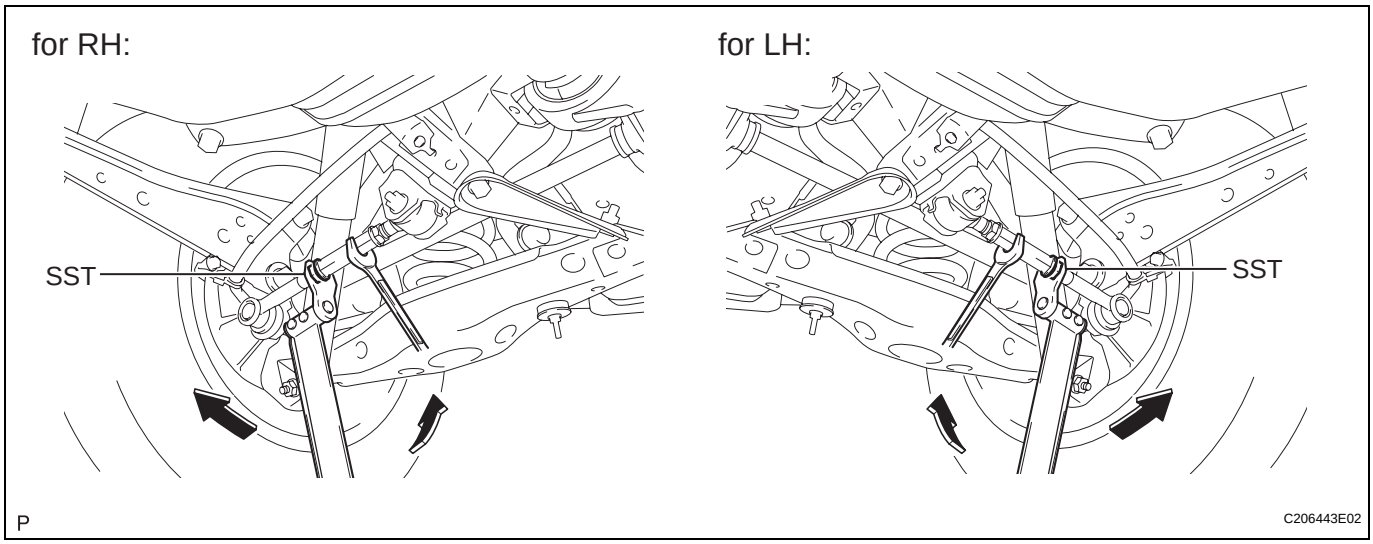


Torque: Without SST
20 N*m (204 kgf*cm, 15 ft.*lbf)
With SST
17 N*m (173 kgf*cm, 13 ft.*lbf)

NOTICE:
Do NOT apply more force than specified when checking for adjusting tube or lock nut looseness.

HINT:
Use a torque wrench with a fulcrum length of 300 mm (11.8 in.).

(d) Check the lock nut at the ball joint side for looseness.
Hold the adjusting tube and using the SST, turn the lock nut at the ball joint side in both clockwise and counterclockwise directions with the specified torque to check that the matchmarks will not be misaligned.
SST 09612-24014 (09617-24011)



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Torque: Without SST

20 N*m (204 kgf*cm, 15 ft.*lbf)

With SST

17 N*m (173 kgf*cm, 13 ft.*lbf)

NOTICE:

The wrench applied to the adjusting tube should NOT be turned during this step. HOLD the wrench applied to the adjusting tube while applying force to the SST or torque wrench.

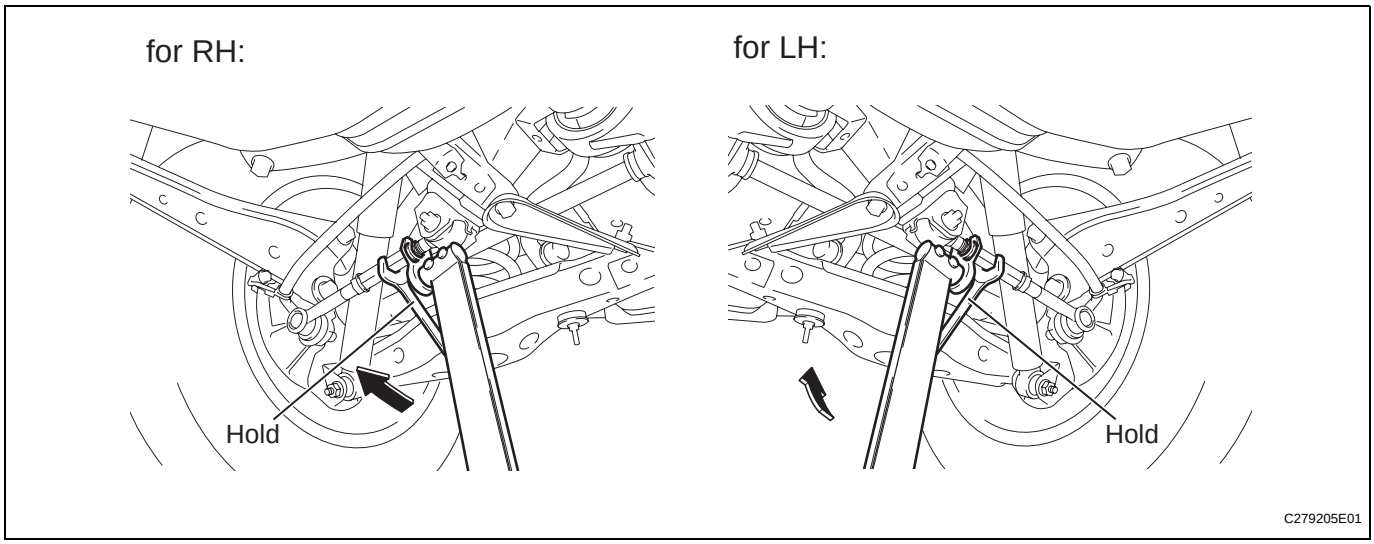
HINT:

Use a torque wrench with a fulcrum length of 300 mm (11.8 in.).

If the lock nut is found loose, replace the tie rod assembly and adjust the rear wheel alignment.

If tie rod replacement is necessary, proceed to step (e) to perform the tie rod lock nut tightening sequence.

(e) Tighten the inboard (bushing side) lock nut.



Torque: Without SST

56 N*m (571 kgf*cm, 41 ft.*lbf)

With SST

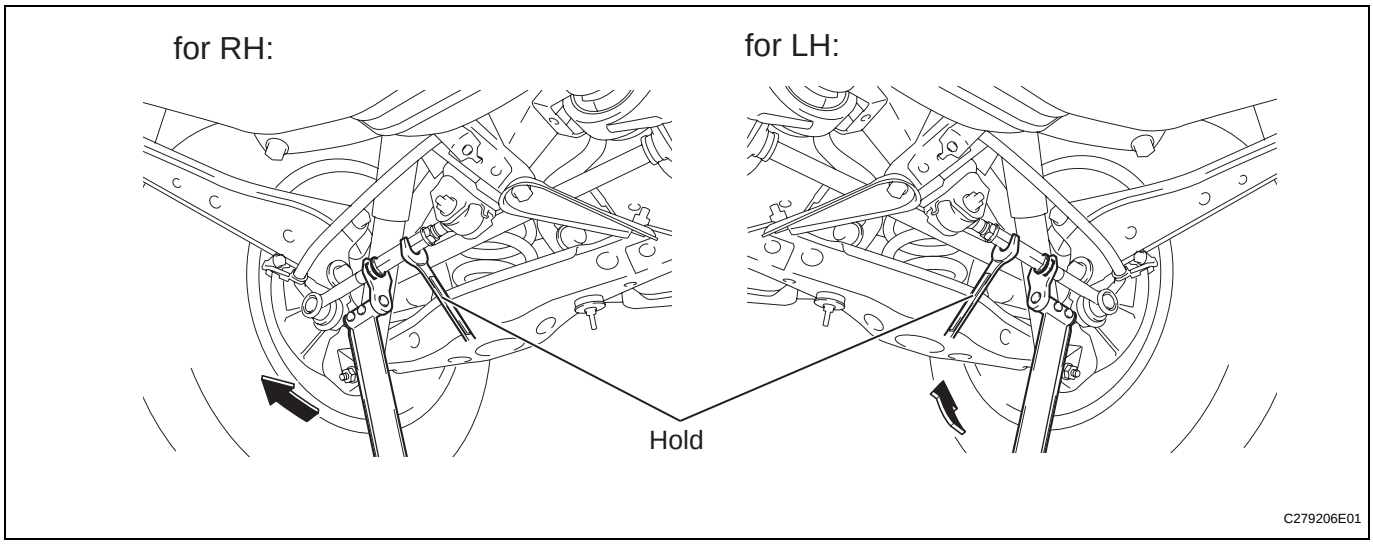
49 N*m (500 kgf*cm, 36 ft.*lbf)

NOTICE:

The wrench applied to the adjusting tube should NOT be turned during this step. HOLD the wrench applied to the adjusting tube while applying force to the SST or torque wrench.

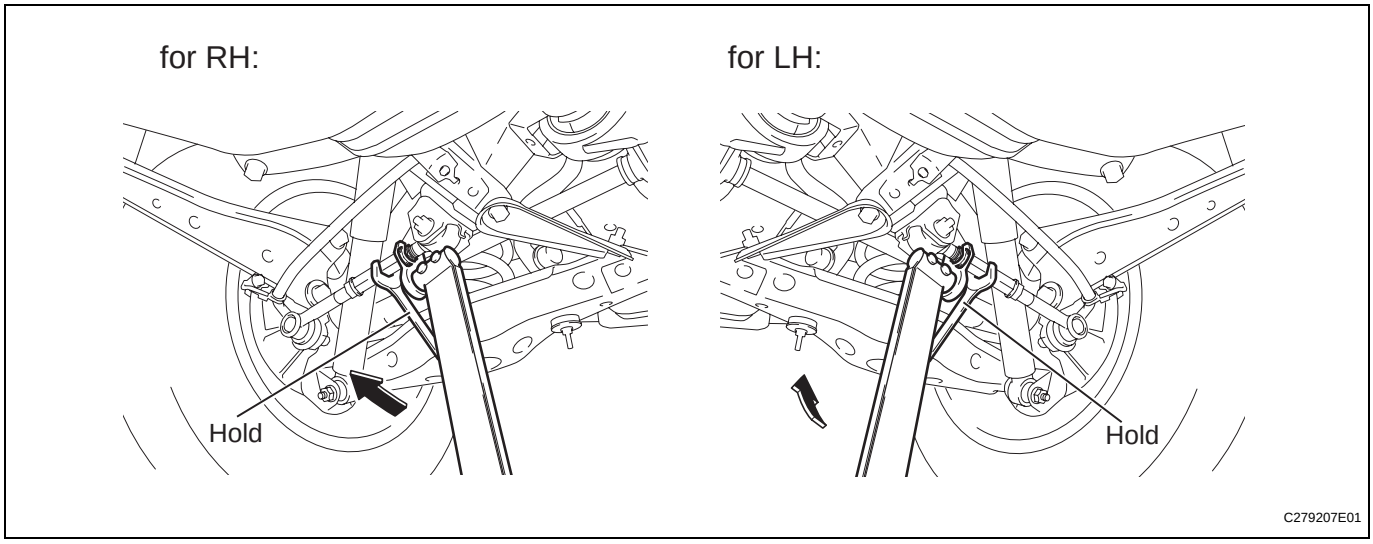
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(f) Tighten the outboard (ball joint side) lock nut.



Torque: Without SST
56 N*m (571 kgf*cm, 41 ft.*lbf)
With SST
49 N*m (500 kgf*cm, 36 ft.*lbf)

(g) Tighten the inboard (bushing side) lock nut again and reinstall clip with instruction label.



Torque: Without SST
56 N*m (571 kgf*cm, 41 ft.*lbf)
With SST
49 N*m (500 kgf*cm, 36 ft.*lbf)

NOTICE:
Failure to follow this procedure will result in the lock nut not being tightened to the proper torque and/or becoming loose.

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