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Model Year: 2010	Model: 4Runner	Doc ID: RM000001V4300YX
Title: ALIGNMENT / HANDLING DIAGNOSIS: FRONT WHEEL ALIGNMENT: ADJUSTMENT (2010 4Runner)		

ADJUSTMENT

NOTICE:

If the wheel alignment has been adjusted, and if suspension or underbody components have been removed/installed or replaced, be sure to perform the following initialization procedure in order for the system to function normally:

- Perform zero point calibration of the yaw rate and acceleration sensor and the test mode inspection.

1. INSPECT TIRES

(a) Inspect the tires .

2. MEASURE VEHICLE HEIGHT

NOTICE:

Before inspecting the wheel alignment, adjust the vehicle height to the specification.

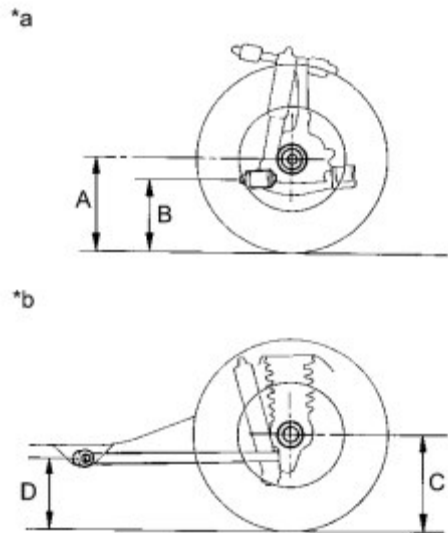
(a) Press down on the vehicle several times to stabilize the suspension, and then measure the vehicle height.

Text in Illustration

*a	Front Side
*b	Rear Side

Standard Vehicle Height (Unloaded Vehicle):

VEHICLE MODEL	GRADE	FRONT (A - B)	REAR (C - D)
GRN280L-GKAGKA	SR5	115.9 mm (4.56 in.)	79.9 mm (3.15 in.)
	S-Runner	116.7 mm (4.59 in.)	80.7 mm (3.18 in.)
	X-Runner	117.2 mm (4.61 in.)	85.4 mm (3.36 in.)
GRN285L-	SR5	94.2 mm (3.71 in.)	68.1 mm (2.68 in.)
	S-Runner	94.9 mm (3.74 in.)	68.8 mm (2.71 in.)
	Trail	95.6 mm (3.76 in.)	69.8 mm (2.75 in.)



GKAGKA	Edition	in.)	(2.75 in.)
	Trail Edition (w/ KDSS)	98.2 mm (3.87 in.)	72.1 mm (2.84 in.)
	X-Runner	97.6 mm (3.84 in.)	72.5 mm (2.85 in.)
TRN280L-GKPGKA	SR5	115.6 mm (4.55 in.)	79.2 mm (3.12 in.)
	DeContent	115.6 mm (4.55 in.)	79.2 mm (3.12 in.)
	S-Runner	116.4 mm (4.58 in.)	79.9 mm (3.15 in.)
TRN285L-GKPGKA	SR5	96.0 mm (3.78 in.)	67.9 mm (2.67 in.)
	DeContent	96.0 mm (3.78 in.)	67.9 mm (2.67 in.)
	S-Runner	96.7 mm (3.81 in.)	68.6 mm (2.70 in.)

Measuring points:

A

Ground clearance of the center of the front wheel

B

Ground clearance of the center of the front adjusting cam bolt

C

Ground clearance of the center of the rear wheel

D

Ground clearance of the center of the rear lower control arm front side

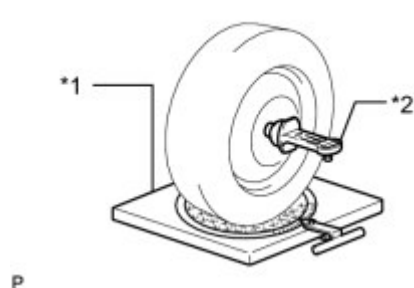
If the vehicle height is not as specified, adjust the height by pressing down on the vehicle several times to stabilize the suspension.

3. INSPECT CAMBER, CASTER AND STEERING AXIS INCLINATION

- (a) Install a camber-caster-kingpin gauge or place the front wheels on the center of a wheel alignment tester.

Text in Illustration

*1	Wheel Alignment Tester
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*2	Gauge
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(b) Inspect the camber, caster and steering axis inclination.

Standard Camber Inclination (Unloaded Vehicle):

VEHICLE MODEL	GRADE	CAMBER INCLINATION	RIGHT-LEFT DIFFERENCE
GRN280L-GKAGKA	SR5	$-0^{\circ}35' \pm 45'$ ($-0.58^{\circ} \pm 0.75^{\circ}$)	45' (0.75°) or less
	S-Runner	$-0^{\circ}37' \pm 45'$ ($-0.62^{\circ} \pm 0.75^{\circ}$)	45' (0.75°) or less
	X-Runner	$-0^{\circ}38' \pm 45'$ ($-0.63^{\circ} \pm 0.75^{\circ}$)	45' (0.75°) or less
GRN285L-GKAGKA	SR5	$0^{\circ}0' \pm 45'$ ($0.00^{\circ} \pm 0.75^{\circ}$)	45' (0.75°) or less
	S-Runner	$-0^{\circ}1' \pm 45'$ ($-0.02^{\circ} \pm 0.75^{\circ}$)	45' (0.75°) or less
	Trail Edition	$-0^{\circ}3' \pm 45'$ ($-0.05^{\circ} \pm 0.75^{\circ}$)	45' (0.75°) or less
	Trail Edition (w/ KDSS)	$-0^{\circ}7' \pm 45'$ ($-0.12^{\circ} \pm 0.75^{\circ}$)	45' (0.75°) or less
	X-Runner	$-0^{\circ}6' \pm 45'$ ($-0.10^{\circ} \pm 0.75^{\circ}$)	45' (0.75°) or less
TRN280L-GKPGKA	SR5	$-0^{\circ}34' \pm 45'$ ($-0.57^{\circ} \pm 0.75^{\circ}$)	45' (0.75°) or less
	DeContent	$-0^{\circ}34' \pm 45'$ ($-0.57^{\circ} \pm 0.75^{\circ}$)	45' (0.75°) or less
	S-Runner	$-0^{\circ}36' \pm 45'$ ($-0.60^{\circ} \pm 0.75^{\circ}$)	45' (0.75°) or less
TRN285L-GKPGKA	SR5	$-0^{\circ}3' \pm 45'$ ($-0.05^{\circ} \pm 0.75^{\circ}$)	45' (0.75°) or less
	DeContent	$-0^{\circ}3' \pm 45'$ ($-0.05^{\circ} \pm 0.75^{\circ}$)	45' (0.75°) or less
	S-Runner	$-0^{\circ}4' \pm 45'$ ($-0.07^{\circ} \pm 0.75^{\circ}$)	45' (0.75°) or less

Standard Caster Inclination (Unloaded Vehicle):

VEHICLE MODEL	GRADE	CASTER INCLINATION	RIGHT-LEFT DIFFERENCE
GRN280L-GKAGKA	SR5	$3^{\circ}40' \pm 45'$ ($3.67^{\circ} \pm 0.75^{\circ}$)	45' (0.75°) or less
	S-Runner	$3^{\circ}40' \pm 45'$ ($3.67^{\circ} \pm 0.75^{\circ}$)	45' (0.75°) or less
	X-Runner	$3^{\circ}50' \pm 45'$ ($3.83^{\circ} \pm 0.75^{\circ}$)	45' (0.75°) or less
GRN285L-GKAGKA	SR5	$3^{\circ}13' \pm 45'$ ($3.22^{\circ} \pm 0.75^{\circ}$)	45' (0.75°) or less
	S-Runner	$3^{\circ}15' \pm 45'$ ($3.25^{\circ} \pm 0.75^{\circ}$)	45' (0.75°) or less
	Trail Edition	$3^{\circ}16' \pm 45'$ ($3.27^{\circ} \pm 0.75^{\circ}$)	45' (0.75°) or less
	Trail Edition		