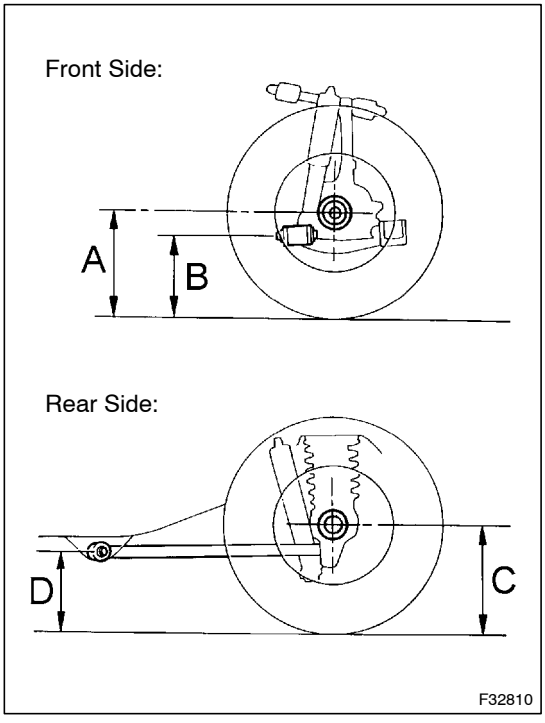
4. WHEEL ALIGNMENT STANDARD

(a) FRONT WHEEL ALIGNMENT: USA, Canada



(1) Standard Vehicle Height (Unloaded Vehicle):

NOTICE:

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

Measuring points:

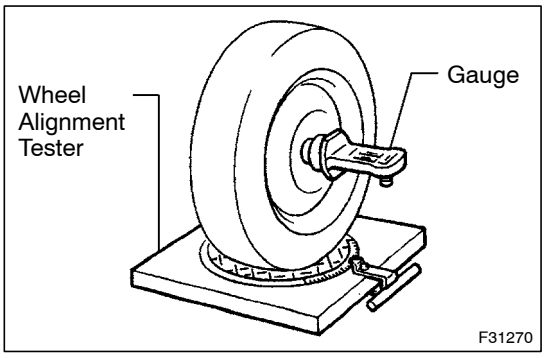
A: Ground clearance of the front wheel center

B: Ground clearance of the front adjusting cam bolt center

C: Ground clearance of the rear wheel center

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

Vehicle Model	Grade	Front A – B	Rear C – D
GRN280L-GKAGKA	SR5	115.6 mm (4.55 in.)	79.8 mm (3.14 in.)
	S-Runner	116.4 mm (4.58 in.)	80.5 mm (3.17 in.)
	X-Runner	116.7 mm (4.59 in.)	85.2 mm (3.35 in.)
GRN285L-GKAGKA	SR5	93.9 mm (3.70 in.)	68.1 mm (2.68 in.)
	S-Runner	94.6 mm (3.72 in.)	68.8 mm (2.71 in.)
	Trail Edition	95.7 mm (3.77 in.)	69.8 mm (2.75 in.)
	Trail Edition (w/ KDSS)	98.3 mm (3.87 in.)	72.1 mm (2.84 in.)
	X-Runner	97.5 mm (3.84 in.)	72.4 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.)



(2) Standard Camber Inclination (Unloaded Vehicle):

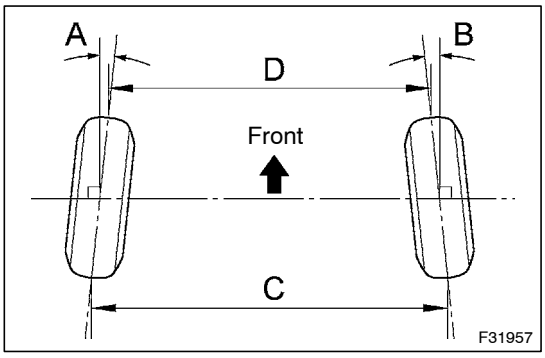
Vehicle Model	Grade	Camber Inclination	Right-left Difference
GRN280L-GKAGKA	SR5	-0°35' +/-45' (-0.58° +/-0.75°)	45' (0.75°) or less
	S-Runner	-0°37' +/-45' (-0.62° +/-0.75°)	45' (0.75°) or less
	X-Runner	-0°38' +/-45' (-0.63° +/-0.75°)	45' (0.75°) or less
GRN285L-GKAGKA	SR5	0°0' +/-45' (0.00°+/-0.75°)	45' (0.75°) or less
	S-Runner	-0°1' +/-45' (-0.02° +/-0.75°)	45' (0.75°) or less
	Trail Edition	-0°3' +/-45' (-0.05° +/-0.75°)	45' (0.75°) or less
	Trail Edition (w/ KDSS)	-0°7' +/-45' (-0.12° +/-0.75°)	45' (0.75°) or less
	X-Runner	-0°6' +/-45' (-0.10° +/-0.75°)	45' (0.75°) or less
TRN280L-GKPGKA	SR5	-0°34'+/-45' (0.57° +/-0.75°)	45' (0.75°) or less
	DeContent	-0°34'+/-45' (0.57° +/-0.75°)	45' (0.75°) or less
	S-Runner	-0°36' +/-45' (0.60° +/-0.75°)	45' (0.75°) or less
TRN285L-GKPGKA	SR5	-0°3' +/-45' (0.50° +/-0.75°)	45' (0.75°) or less
	DeContent	-0°3' +/-45' (0.50° +/-0.75°)	45' (0.75°) or less
	S-Runner	-0°4' +/-45' (0.67° +/-0.75°)	45' (0.75°) or less

(3) Standard Caster Inclination (Unloaded Vehicle):

Vehicle Model	Grade	Caster Inclination	Right-left Difference
GRN280L-GKAGKA	SR5	3°34' +/-45' (3.57°+/-0.75°)	45' (0.75°) or less
	S-Runner	3°36' +/-45' (3.60°+/-0.75°)	45' (0.75°) or less
	X-Runner	3°44' +/-45' (3.73°+/-0.75°)	45' (0.75°) or less
GRN285L-GKAGKA	SR5	3°11' +/-45' (3.18°+/-0.75°)	45' (0.75°) or less
	S-Runner	3°12' +/-45' (3.20°+/-0.75°)	45' (0.75°) or less
	Trail Edition	3°14' +/-45' (3.23°+/-0.75°)	45' (0.75°) or less
	Trail Edition (w/ KDSS)	3°18' +/-45' (3.30°+/-0.75°)	45' (0.75°) or less
	X-Runner	3°20' +/-45' (3.33°+/-0.75°)	45' (0.75°) or less
TRN280L-GKPGKA	SR5	3°39' +/-45' (5.65° +/-0.75°)	45' (0.75°) or less
	DeContent	3°39' +/-45' (5.65° +/-0.75°)	45' (0.75°) or less
	S-Runner	3°40' +/-45' (5.67° +/-0.75°)	45' (0.75°) or less
TRN285L-GKPGKA	SR5	3°14' +/-45' (5.23 ° +/-0.75°)	45' (0.75°) or less
	DeContent	3°14' +/-45' (5.23 ° +/-0.75°)	45' (0.75°) or less
	S-Runner	3°15' +/-45' (5.25 ° +/-0.75°)	45' (0.75°) or less

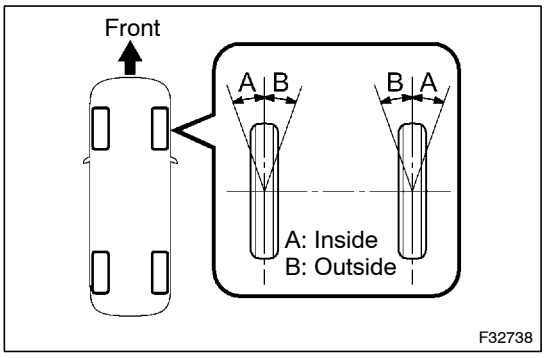
(4) Standard Steering Axis Inclination (Unloaded Vehicle):

Vehicle Model	Grade	Steering Axis Inclination
GRN280L-GKAGKA	SR5	12°50' +/-45' (12.83°+/-0.75°)
	S-Runner	12°51' +/-45' (12.85°+/-0.75°)
	X-Runner	12°52' +/-45' (12.87°+/-0.75°)
GRN285L-GKAGKA	SR5	12°13' +/-45' (12.22°+/-0.75°)
	S-Runner	12°14' +/-45' (12.23°+/-0.75°)
	Trail Edition	12°15' +/-45' (12.25°+/-0.75°)
	Trail Edition (w/ KDSS)	12°19' +/-45' (12.32°+/-0.75°)
	X-Runner	12°18' +/-45' (12.30°+/-0.75°)
TRN280L-GKPGKA	SR5	12°41' +/-45' (20.68 +/-0.75°)
	DeContent	12°41' +/-45' (20.68 +/-0.75°)
	S-Runner	12°42' +/-45' (20.70 +/-0.75°)
TRN285L-GKPGKA	SR5	12°12' +/-45' (20.20 +/-0.75°)
	DeContent	12°12' +/-45 (20.20 +/-0.75°)
	S-Runner	12°13' +/-45' (20.22 +/-0.75°)



(5) Standard Toe-in (Unloaded Vehicle):

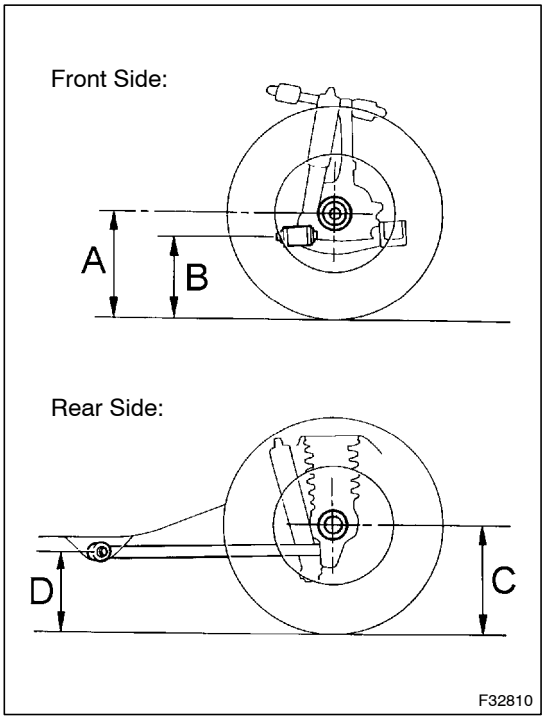
Vehicle Model	Grade	Toe-in
GRN280L-GKAGKA	SR5	A + B: 0°6' +/-0°10' (0.10° +/-0.16°) C – D: 2.52 +/-2 mm (0.10 +/-0.08 in.)
	S-Runner	A + B: 0°5' +/-0°10' (0.08° +/-0.16°) C – D: 2.35 +/-2 mm (0.09 +/-0.08 in.)
	X-Runner	A + B: 0°5' +/-0°10' (0.08° +/-0.16°) C – D: 2.16 +/-2 mm (0.09 +/-0.08 in.)
GRN285L-GKAGKA	SR5	A + B: 0°6' +/-0°10' (0.10° +/-0.16°) C – D: 2.47 +/-2 mm (0.10 +/-0.08 in.)
	S-Runner	A + B: 0°5' +/-0°10' (0.08° +/-0.16°) C – D: 2.29 +/-2 mm (0.09 +/-0.08 in.)
	Trail Edition	A + B: 0°5' +/-0°10' (0.08° +/-0.16°) C – D: 2.11 +/-2 mm (0.08 +/-0.08 in.)
	Trail Edition (w/ KDSS)	A + B: 0°3' +/-0°10' (0.05° +/-0.16°) C – D: 1.49 +/-2 mm (0.06 +/-0.08 in.)
	X-Runner	A + B: 0°4' +/-0°10' (0.07° +/-0.16°) C – D: 1.60 +/-2 mm (0.06 +/-0.08 in.)
TRN280L-GKPGKA	SR5	A + B: 0°6' +/-0°10' (0.10° +/-0.16°) C – D: 2.59 +/-2 mm (0.10 +/-0.08 in.)
	DeContent	A + B: 0°6' +/-0°10' (0.10° +/-0.16°) C – D: 2.59 +/-2 mm (0.10 +/-0.08 in.)
	S-Runner	A + B: 0°5' +/-0°10' (0.08° +/-0.16°) C – D: 2.41 +/-2 mm (0.09 +/-0.08 in.)
TRN285L-GKPGKA	SR5	A + B: 0°5' +/-0°10' (0.08° +/-0.16°) C – D: 2.07 +/-2 mm (0.08 +/-0.08 in.)
	S-Runner	A + B: 0°5' +/-0°10' (0.08° +/-0.16°) C – D: 2.07 +/-2 mm (0.08 +/-0.08 in.)
	DeContent	A + B: 0°4' +/-0°10' (0.07° +/-0.16°) C – D: 1.89 +/-2 mm (0.07 +/-0.08 in.)

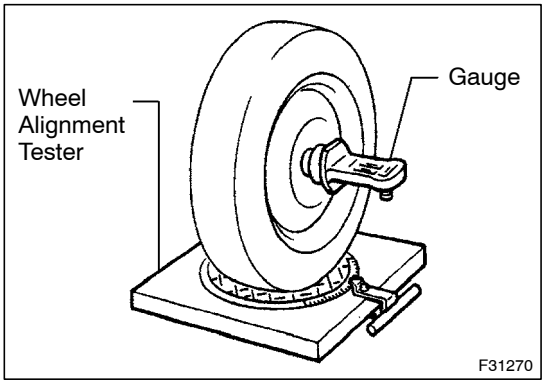


(6) Standard Wheel Turning Angle (Unloaded Vehicle):

Vehicle Model	Grade	Inside Wheel Angle	Outside Wheel Angle: Reference
GRN280L-GKAGKA	SR5	29°49' to 32°49' (29.82° to 32.82°)	29°35' (29.58°)
	S-Runner	29°49' to 32°49' (29.82° to 32.82°)	29°33' (29.55°)
	X-Runner	29°48' to 32°48' (29.80° to 32.80°)	29°2' (29.03°)
GRN285L-GKAGKA	SR5	30°21' to 33°21' (30.35° to 33.35°)	29°30' (29.50°)
	S-Runner	30°20' to 33°20' (30.33° to 33.33°)	29°28' (29.47°)
	Trail Edition	30°20' to 33°20' (30.33° to 33.33°)	29°27' (29.45°)
	Trail Edition (w/ KDSS)	30°17' to 33°17' (30.28° to 33.28°)	29°23' (29.38°)
	X-Runner	30°18' to 33°18' (30.30° to 33.30°)	29°24' (29.40°)
TRN280L-GKPGKA	SR5	29°49' to 32°49' (29.82° to 32.82°)	29°34' (29.57°)
	DeContent	29°49' to 32°49' (29.82° to 32.82°)	29°34' (29.57°)
	S-Runner	29°48' to 32°48' (29.80° to 32.80°)	29°33' (29.55°)
TRN285L-GKPGKA	SR5	30°19' to 33°19' (30.32° to 33.32°)	29°27' (29.45°)
	S-Runner	30°19' to 33°19' (30.32° to 33.32°)	29°27' (29.45°)
	DeContent	30°18' to 33°18' (30.30° to 33.30°)	29°26' (29.37°)

(b) FRONT WHEEL ALIGNMENT: Except USA, Canada





(1) Standard Vehicle Height (Unloaded Vehicle):

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

Measuring points:

A: Ground clearance of the front wheel center

B: Ground clearance of the front adjusting cam bolt center

C: Ground clearance of the rear wheel center

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

Vehicle Model	Grade	Front A – B	Rear C – D
GRN280L-GKAGK	SR5	96.5 mm (3.80 in.)	67.9 mm (2.67 in.)
	Limited	97.3 mm (3.83 in.)	68.7 mm (2.70 in.)
GRN285L-GKAGK	SR5	93.9 mm (3.70 in.)	68.1 mm (2.68 in.)
	Limited	94.6 mm (3.72 in.)	68.8 mm (2.71 in.)

(2) Standard Camber Inclination (Unloaded Vehicle):

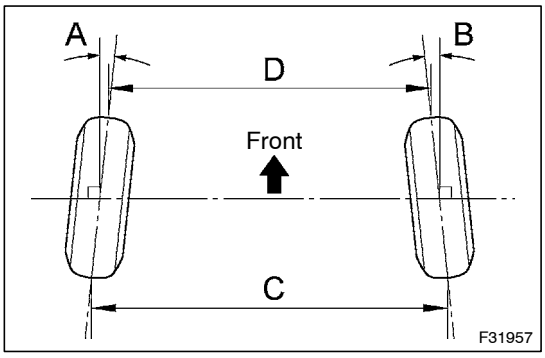
Vehicle Modelx	Grade	Camber Inclination	Right-left Difference
GRN280L-GKAGK	SR5	-0°4' +/-45' (0.67° +/-0.75°)	45' (0.75°) or less
	Limited	-0°5' +/-45' (0.83° +/-0.75°)	45' (0.75°) or less
GRN285L-GKAGK	SR5	-0°1' +/-45' (0.17° +/-0.75°)	45' (0.75°) or less
	Limited	-0°1' +/-45' (0.17° +/-0.75°)	45' (0.75°) or less

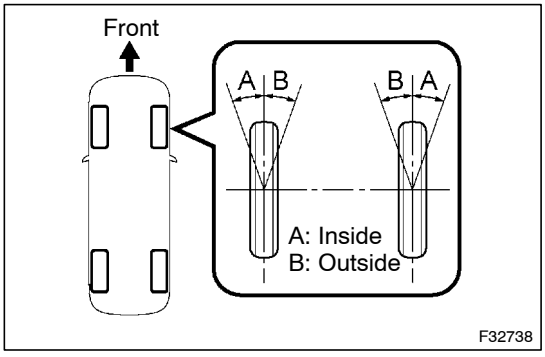
(3) Standard Caster Inclination (Unloaded Vehicle):

Vehicle Model	Grade	Caster Inclination	Right-left Difference
GRN280L-GKAGK	SR5	12°13' +/-45' (20.22° +/-0.75°)	45' (0.75°) or less
	Limited	12°14' +/-45' (20.23° +/-0.75°)	45' (0.75°) or less
GRN285L-GKAGK	SR5	12°9' +/-45' (21.50° +/-0.75°)	45' (0.75°) or less
	Limited	12°14' +/-45' (20.23° +/-0.75°)	45' (0.75°) or less

(4) Standard Steering Axis Inclination (Unloaded Vehicle):

Vehicle Model	Grade	Steering Axis Inclination
GRN280L-GKAGK	SR5	12°13' +/-45' (20.22 +/-0.75°)
	Limited	12°14' +/-45' (20.23 +/-0.75°)
GRN285L-GKAGK	SR5	12°9' +/-45' (21.50 +/-0.75°)
	Limited	12°14' +/-45' (20.23 +/-0.75°)





(5) Standard Toe-in (Unloaded Vehicle):

Vehicle Model	Grade	Toe-in
GRN280L-GKAGK	SR5	A + B: 0°4' +/-0°10' (0.07° +/-0.16°) C – D: 1.86 +/-2 mm (0.073 +/-0.08 in.)
	Limited	A + B: 0°4' +/-0°10' (0.07° +/-0.16°) C – D: 1.68 +/-2 mm (0.066 +/-0.08 in.)
GRN285L-GKAGK	SR5	A + B: 0°6' +/-0°10' (0.10° +/-0.16°) C – D: 2.46 +/-2 mm (0.097 +/-0.08 in.)
	Limited	A + B: 0°6' +/-0°10' (0.10° +/-0.16°) C – D: 2.30 +/-2 mm (0.091 +/-0.08 in.)

(6) Standard Wheel Turning Angle (Unloaded Vehicle):

Vehicle Model	Grade	Inside Wheel Angle	Outside Wheel Angle: Reference
GRN280L-GKAGK	SR5	33°54' to 36°54' (33.90° to 36.90°)	32°24' (32.40°)
	Limited	33°54' to 36°54' (33.90° to 36.90°)	32°23' (32.38°)
GRN285L-GKAGK	SR5	33°57' to 36°57' (33.95° to 36.95°)	32°28' (32.47°)
	Limited	33°56' to 36°56' (33.93° to 36.93°)	32°27' (32.45°)