

# SUSPENSION AND AXLE

SS00J-19

## SERVICE DATA

Front wheel alignment (RFS)	Vehicle height	Clearance*1
	G.C.C.	Front 36.8 mm (1.45 in.) Rear 86.7 mm (3.41 in.)
	AUSTRALIA	Front 47.1 mm (1.85 in.) Rear 110.0 mm (4.33 in.)
	OTHERS	Front 34.8 mm (1.37 in.) Rear 113.0 mm (4.45 in.)
	Camber	1° ± 45' (1° ± 0.75°) Left-right error 45' (0.75°) or less
	Caster (G.C.C.)	2°30' ± 45' (2.5° ± 0.75°) Left-right error 45' (0.75°) or less
	Caster (AUSTRALIA)	1°40' ± 45' (1.67° ± 0.75°) Left-right error 45' (0.75°) or less
	Caster (OTHERS)	2°10' ± 45' (2.17° ± 0.75°) Left-right error 45' (0.75°) or less
	Steering axis inclination	13° ± 45' (13° ± 0.75°) Left-right error 45' (0.75°) or less
	Toe-in (total)	0°12' ± 12' (0.2° ± 0.2°, 2 ± 2 mm, 0.08 ± 0.08 in.)
	Wheel angle	Inside wheel 32° – 35° Outside wheel: Reference 31°

\*Clearance:

Front: Distance from the front axle housing to the following spring

Rear: Distance from the rear axle housing to the bumper stopper

## SERVICE SPECIFICATIONS – SUSPENSION AND AXLE

Front wheel alignment (IFS)	Vehicle height (EUROPE)		
	Engine: 2UZ-FE		
	Front	A – B	75.0 mm (2.953 in.)
	Rear	C – D	40.0 mm (1.575 in.)
	Engine: 1HD-FT		
	Front	A – B	76.0 mm (2.992 in.)
	Rear	C – D	41.0 mm (1.614 in.)
	Vehicle height (GENERAL)		
	Engine: 2UZ-FE		
	Front	A – B	76.0 mm (2.992 in.)
	Rear	C – D	31.0 mm (1.220 in.)
	Engine: 1HD-T		
	Front	A – B	76.0 mm (2.992 in.)
	Rear	C – D	34.0 mm (1.339 in.)
	Vehicle height (G.C.C.)		
	Engine: 2UZ-FE		
	Front	A – B	72.0 mm (2.835 in.)
	Rear	C – D	53.0 mm (2.087 in.)
	Engine: 1FZ-FE		
	Front	A – B	71.0 mm (2.795 in.)
	Rear	C – D	64.0 mm (2.520 in.)
	Vehicle height (AUSTRALIA)		
	Front	A – B	75.0 mm (2.953 in.)
	Rear	C – D	39.0 mm (1.535 in.)
	Vehicle height (w/ AHC System)		
	Front	A – B	83.0 mm (3.268 in.)
	Rear	C – D	71.0 mm (2.795 in.)

A: Ground clearance of spindle center

B: Ground clearance of lower suspension arm front bolt center

C: Ground clearance of rear axle shaft center

D: Ground clearance of lower control arm front bolt center

EUROPE AND GENRAL (2UZ-FE)		
Camber		0°05' ± 45' (0.08° ± 0.75°)
	Left-right error	30' (0.5°) or less
Caster		2°10' ± 45' (2.17° ± 0.75°)
	Left-right error	30' (0.5°) or less
Steering axis inclination		12°10' ± 45' (12.17° ± 0.75°)
	Left-right error	30' (0.5°) or less
GENRAL (1HD-T)		
Camber		0°05' ± 45' (0.08° ± 0.75°)
	Left-right error	30' (0.5°) or less
Caster		2°25' ± 45' (2.42° ± 0.75°)
	Left-right error	30' (0.5°) or less
Steering axis inclination		12°10' ± 45' (12.17° ± 0.75°)
	Left-right error	30' (0.5°) or less
G.C.C. (2UZ-FE)		
Camber		0°05' ± 45' (0.08° ± 0.75°)
	Left-right error	30' (0.5°) or less
Caster		2°15' ± 45' (2.25° ± 0.75°)
	Left-right error	30' (0.5°) or less

Front wheel alignment (IFS)	Steering axis inclination		$12^{\circ}10' \pm 45'$ ( $12.17^{\circ} \pm 0.75^{\circ}$ )
	Left-right error		30' (0.5°) or less
	G.C.C. (1FZ-FE)		
	Camber		$0^{\circ}05' \pm 45'$ ( $0.08^{\circ} \pm 0.75^{\circ}$ )
	Left-right error		30' (0.5°) or less
	Caster		$2^{\circ}50' \pm 45'$ ( $2.83^{\circ} \pm 0.75^{\circ}$ )
	Left-right error		30' (0.5°) or less
	Steering axis inclination		$12^{\circ}10' \pm 45'$ ( $12.17^{\circ} \pm 0.75^{\circ}$ )
	Left-right error		30' (0.5°) or less
	AUSTRALIA		
	Camber		$0^{\circ}05' \pm 45'$ ( $0.08^{\circ} \pm 0.75^{\circ}$ )
	Left-right error		30' (0.5°) or less
	Caster		$2^{\circ}10' \pm 45'$ ( $2.17^{\circ} \pm 0.75^{\circ}$ )
	Left-right error		30' (0.5°) or less
	Steering axis inclination		$12^{\circ}10' \pm 45'$ ( $12.17^{\circ} \pm 0.75^{\circ}$ )
	Left-right error		30' (0.5°) or less
Front wheel alignment (IFS)	w/ AHC System		
	Camber		$0^{\circ}00' \pm 45'$ ( $0^{\circ} \pm 0.75^{\circ}$ )
	Left-right error		30' (0.5°) or less
	Caster		$3^{\circ}05' \pm 45'$ ( $3.08^{\circ} \pm 0.75^{\circ}$ )
	Left-right error		30' (0.5°) or less
	Steering axis inclination		$12^{\circ}15' \pm 45'$ ( $12.25^{\circ} \pm 0.75^{\circ}$ )
	Left-right error		30' (0.5°) or less
	w/ AHC System		
Front wheel alignment (IFS)	Toe-in (total)		$0^{\circ}00' \pm 12'$ ( $0^{\circ} \pm 0.2^{\circ}$ , $0 \pm 2$ mm, $0 \pm 0.08$ in.)
	Rack end length difference		3.0 mm (0.118 in.) or less
Front wheel alignment (IFS)	OTHERS		
	Toe-in (total)		$0^{\circ}06' \pm 12'$ ( $0.1^{\circ} \pm 0.2^{\circ}$ , $1 \pm 2$ mm, $0.04 \pm 0.08$ in.)
	Rack end length difference		3.0 mm (0.118 in.) or less
Front wheel alignment (IFS)	Wheel angle	Inside wheel	$36^{\circ}42'$ ( $33^{\circ}42' - 36^{\circ}42'$ )
		Outside wheel: Reference	$36.7^{\circ}$ ( $33.7^{\circ} - 36.7^{\circ}$ ) $32^{\circ}36'$ $32.6^{\circ}$