#### SUSPENSION AND AXLE Specifications (Front/2WD)

	<u> </u>		<b>,</b> .				
Cold tire	Tire size					Pressure	kPa (kgf/cm2, psi)
inflation pressure				Fro	nt		Rear
	P195/75R14 P205/75R14 P215/65R15	P205/75R14			.0, 29)		240 (2.4, 35)
	185R14LT-6PR			220 (2	.2, 32)		220 (2.2, 32)
	185R14LT-8PR	185R14LT-8PR		200 (2	.0, 29)		450 (4.5, 65)
Chassis	Model		Tire size			Clea	rance mm (in.)
ground clearance						Front	Rear
locaranoo	RN80L – TRMDEA RN80L – TRMDEK	P195/	75R14		2!	57 (10.12)	263 (10.35)
	RN80L – TRSDEA RN80L – TRSDEK	P195/	75R14		2!	57 (10.12)	263 (10.35)
	RN80L – TRMREA RN80L – TRMREK	P195/	75R14		26	60 (10.23)	268 (10.55)
	RN85L – TRMDEA RN85L – TRMDEK	P195/	P195/75R14		26	63 (10.35)	261 (10.28)
	RN85L – TRSDEA RN85L – TRSDEK	P195/	P195/75R14		262 (10.31)		261 (10.28)
	RN90L – CRMDEA RN90L – CRMDEK	P205/	P205/75R14		278 (10.94)		264 (10.39)
	RN90L – CRSDEA RN90L – CRSDEK	P205/	P205/75R14		278 (10.94)		264 (10.39)
	VZN85L – THMDEA	185R1	185R14LT - 8PR		20	60 (10.24)	284 (11.18)
	VZN85L – THSDEA	185R1	4LT —	8PR 258 (10.1		58 (10.16)	283 (11.14)
	VZN85L – TWMREA6	185R1	<u>14LT – 6PR</u>		2!	59 (10.20)	234 (9.21)
	VZN85L – TINSREA6	185R1	185R14LT - 6PR		2	59 (10.24)	235 (9.25)
	VZN90L – CRMDEA VZN90L – CRMDEK	P205/	P205/75R14		2	77 (10.91)	266 (10.47)
	VZN90L – CRSDEA VZN90L – CRSDEK	P205/	P205/75R14		277 (10.91)		265 (10.43)
	VZN90L – CRMGEA	P205/	75R14		273 (10.75)		262 (10.31)
		P205/	75R14		273 (10.75)		262 (10.31)
	VZN90L – CRPGEA	P215/	75R15		274 (10.7		263 (10.35)
	VZN95L – TWMREA6	185R1	4LT —	6PR	259 (10.20)		232 (9.13)
	VZN95L – TWSREA6 VZN95L – TWSREK6	185R1	4LT —	6PR	259 (10.20)		232 (9.13)
Front wheel alignment	Model	Carr	nber Cas		ter	Steering axis inclination	Toe–in mm (in.)
	RN80L – TRSDEA RN80L – TRSDEK	0°30′	<u>+</u> 45′	0°43′	<u>+</u> 45′	10°00′ <u>+</u> 45′	1.32±2 (0.0520±0.08)
	RN80L – TRMDEA RN80L – TRMDEK	0°30′	<u>+</u> 45′	0°44′	<u>+</u> 45'	10°00′ ± 45′	1.32 <u>+</u> 2 (0.0520 <u>+</u> 0.08)
	RN80L – TRMREA RN80L – TRMREK	0°28′	<u>+</u> 45'	0°40′	<u>+</u> 45′	10°01′ ± 45′	1.74 <u>+</u> 2 (0.0685 <u>+</u> 0.08)

## Specifications (Front/2WD) (Cont'd)

				-	
Model	Camber	Caster	Steering axis inclination	Toe–in mm (in.)	
RN85L – TRMDEA RN85L – TRMDEK	0°27′ <u>+</u> 45′	0°59' <u>+</u> 45'	10°02′ <u>+</u> 45′	2.09 <u>+</u> 2 (0.0822 <u>+</u> 0.08)	
RN85L – TRSDEA RN85L – TRSDEK	0°27′ <u>+</u> 45′	0°58′ <u>+</u> 45′	10°02′ <u>+</u> 45′	2.09±2 (0.0822±0.08)	
RN90L – CRSDEA RN90L – CRSDEK	0°23′ <u>+</u> 45′	1°15′ ± 45′	10°06′ ± 45′	3.27±2 (0.1287±0.08)	
RN90L – CRMDEA RN90L – CRMDEK	0°23′ ± 45′	1°15' <u>+</u> 45'	10°06′ ± 45′	3.27±2 (0.1287±0.08)	
VZN85L – THMDEA	0°29′ <u>+</u> 45′	0°34′ <u>+</u> 45′	10°00' <u>+</u> 45'	5.61 <u>+</u> 2 (0.2209 <u>+</u> 0.08)	
VZN85L – THSDEA	0°30′ ± 45′	0°33′ <u>+</u> 45′	10°00′ <u>+</u> 45′	4.85 <u>+</u> 2 (0.1909 <u>+</u> 0.08)	
VZN85L – TWMREA6	0°29′ ± 45′	1°46′ <u>+</u> 45′	10°00' <u>+</u> 45'	5.73 <u>+</u> 2 (0.2256 <u>+</u> 0.08)	
VZN85L – TWSREA6	0°29′ <u>+</u> 45′	1°45′ <u>+</u> 45′	10°00′ <u>+</u> 45′	5.73 <u>+</u> 2 (0.2256 <u>+</u> 0.08)	
VZN90L – CRMDEA VZN90L – CRMDEK	0°23′ <u>+</u> 45′	1°11′ <u>+</u> 45′	10°06′ <u>+</u> 45′	3.27 <u>+</u> 2 (0.1287 <u>+</u> 0.08)	
VZN90L – CRSDEA VZN90L – CRSDEK	0°23′ <u>+</u> 45′	1°12′ ± 45′	10°06′ <u>+</u> 45′	3.27±2 (0.1287±0.08)	
VZN90L – CRMGEA	0°25′ <u>+</u> 45′	1°13′ <u>+</u> 45′	10°04′ <u>+</u> 45′	2.82±2 (0.1110±0.08)	
VZN90L – CRPGEA	0°25′ <u>+</u> 45′	1°12′ <u>+</u> 45′	10°04′ <u>+</u> 45′	2.82±2 (0.1110±0.08)	
VZN95L – T1IVMREA6	0°29′ <u>+</u> 45′	1°47′ <u>+</u> 45′	10°00′ <u>+</u> 45′	5.73 <u>+</u> 2 (0.2256 <u>+</u> 0.08)	
VZN95L – TWSREA6 VZN95L – TWSREK6	0°29′ <u>+</u> 45′	1°46′ <u>+</u> 45′	10°00′ <u>+</u> 45′	5.73 <u>+</u> 2 (0.2256 <u>+</u> 0.08)	
Wheel angle Max.	Inside wheel	$34^{\circ} + 1^{\circ} - 2^{\circ}$			
	Outside wheel	30°	30°		
At 20° (c	outside wheel)	22°15′ (Insi	de wheel)		
l runout	Limit	1.2 mm		0.047 in.	
eload (starting)		1		kgf 1.3 – 4.0 lbf	
(rotating load at hub bolt)					
ertical play	Limit			0.091 in.	
ertical play	Lower ball joint				
condition	Upper ball joint		n 20—40 kgf	·cm 17—35 in.∙lbf	
•	RN85L - TRMDEA RN85L - TRMDEK RN85L - TRSDEA RN85L - TRSDEK RN90L - CRSDEA RN90L - CRSDEA RN90L - CRMDEA RN90L - CRMDEA VZN85L - THMDEA VZN85L - THSDEA VZN85L - TWMREA6 VZN85L - TWSREA6 VZN90L - CRMDEA VZN90L - CRMDEA VZN90L - CRMDEA VZN90L - CRSDEA VZN90L - CRSDEA VZN90L - CRMGEA VZN90L - CRMGEA VZN90L - CRMGEA VZN90L - CRMGEA VZN90L - CRMGEA VZN95L - T11VMREA6 VZN95L - TWSREA6 VZN95L - TWSREA6	RN85L - TRMDEA RN85L - TRMDEK0°27' ± 45'RN85L - TRSDEA RN85L - TRSDEK0°27' ± 45'RN90L - CRSDEA RN90L - CRDEK0°23' ± 45'RN90L - CRMDEA RN90L - CRMDEK0°23' ± 45'VZN85L - THMDEA0°29' ± 45'VZN85L - THSDEA0°30' ± 45'VZN85L - THSDEA0°29' ± 45'VZN85L - TWMREA60°29' ± 45'VZN85L - TWSREA60°29' ± 45'VZN85L - TWSREA60°23' ± 45'VZN90L - CRMDEK0°23' ± 45'VZN90L - CRMDEK0°23' ± 45'VZN90L - CRMDEK0°23' ± 45'VZN90L - CRMDEK0°25' ± 45'VZN90L - CRMGEA0°25' ± 45'VZN90L - CRMGEA0°29' ± 45'VZN90L - CRMGEA0°29' ± 45'VZN90L - CRMGEA0°29' ± 45'VZN95L - TIIVMREA60°29' ± 45'VZN95L - TWSREA6 VZN95L - TWSREK60°29' ± 45'Wheel angleMax.Inside wheel Outside wheel At 20° (outside wheel)IrunoutLimit eload (starting)hub bolt)Limit Limit ertical playLimit ertical playLimit Limit Lower ball joint	RN85L - TRMDEA $0^{\circ}27' \pm 45'$ $0^{\circ}59' \pm 45'$ RN85L - TRSDEA $0^{\circ}27' \pm 45'$ $0^{\circ}58' \pm 45'$ RN85L - TRSDEK $0^{\circ}23' \pm 45'$ $1^{\circ}15' \pm 45'$ RN90L - CRSDEA $0^{\circ}23' \pm 45'$ $1^{\circ}15' \pm 45'$ RN90L - CRMDEA $0^{\circ}23' \pm 45'$ $1^{\circ}15' \pm 45'$ RN90L - CRMDEA $0^{\circ}23' \pm 45'$ $1^{\circ}15' \pm 45'$ VZN85L - THMDEA $0^{\circ}29' \pm 45'$ $0^{\circ}34' \pm 45'$ VZN85L - THSDEA $0^{\circ}30' \pm 45'$ $0^{\circ}33' \pm 45'$ VZN85L - TWSREA6 $0^{\circ}29' \pm 45'$ $1^{\circ}46' \pm 45'$ VZN85L - TWSREA6 $0^{\circ}23' \pm 45'$ $1^{\circ}45' \pm 45'$ VZN90L - CRMDEA $0^{\circ}23' \pm 45'$ $1^{\circ}11' \pm 45'$ VZN90L - CRMDEA $0^{\circ}23' \pm 45'$ $1^{\circ}11' \pm 45'$ VZN90L - CRMDEA $0^{\circ}23' \pm 45'$ $1^{\circ}11' \pm 45'$ VZN90L - CRMDEA $0^{\circ}25' \pm 45'$ $1^{\circ}12' \pm 45'$ VZN90L - CRMGEA $0^{\circ}25' \pm 45'$ $1^{\circ}13' \pm 45'$ VZN90L - CRMGEA $0^{\circ}29' \pm 45'$ $1^{\circ}47' \pm 45'$ VZN90L - CRPGEA $0^{\circ}29' \pm 45'$ $1^{\circ}46' \pm 45'$ VZN95L - TWSREA6 $0^{\circ}29' \pm 45'$ $1^{\circ}46' \pm 45'$	Model         Camber         Caster         inclination           RN85L – TRMDEA RN85L – TRMDEK         0°27' ± 45'         0°59' ± 45'         10°02' ± 45'           RN85L – TRSDEA RN85L – TRSDEK         0°27' ± 45'         0°58' ± 45'         10°06' ± 45'           RN90L – CRMDEA RN90L – CRMDEA         0°23' ± 45'         1°15' ± 45'         10°06' ± 45'           RN90L – CRMDEA RN90L – CRMDEA         0°23' ± 45'         1°15' ± 45'         10°06' ± 45'           VZN85L – THMDEA         0°29' ± 45'         0°33' ± 45'         10°00' ± 45'           VZN85L – THMDEA         0°29' ± 45'         1°46' ± 45'         10°00' ± 45'           VZN85L – TWMREA6         0°29' ± 45'         1°46' ± 45'         10°00' ± 45'           VZN85L – TWMREA6         0°29' ± 45'         1°46' ± 45'         10°00' ± 45'           VZN85L – TWSREA6         0°23' ± 45'         1°11' ± 45'         10°00' ± 45'           VZN90L – CRMDEA VZN90L – CRMDEA         0°23' ± 45'         1°12' ± 45'         10°06' ± 45'           VZN90L – CRMDEA         0°25' ± 45'         1°12' ± 45'         10°04' ± 45'           VZN90L – CRMGEA         0°29' ± 45'         1°12' ± 45'         10°04' ± 45'           VZN90L – CRMGEA         0°29' ± 45'         1°46' ± 45'         10°00' ± 45'           VZN95L –	

# Specifications (Front/4WD)

Cold tire				Press	sure	kF	Pa (kgf/cm², psi)	
inflation	lire	e size	Front		Rear			
pressure	P225/75R15		180 (1.8, 20	6)	200 (2.0, 29)			
	31X10.5 R15	.T	180 (1.8, 26)			200 (2	2.0, 29)	
Front wheel alignment	Standard vehicle height for alignment	cle height Front of drive shaft and the height at center side adjusting cam bolt						
Specifications with vehicle height set to standard	inspection	Difference between the height of center of Rear rear leaf spring front bushing and the height of center of rear axle shaft				61.0 mm (2.402 in.)		
height	Camber	Left-ri	ght error	0°45′ ± 30′ or les				
	Caster	Left–ri	ght error	2°30′ <u>+</u> 30′ or les				
	Steering axis inc		ght error	11°50′ <u>+</u> 30′ or les				
	Toe–in			1 <u>+</u> 2 mr	n (0.0	4 <u>+</u> 0.0	8 in.)	
	Wheel angle	Max. I	nside wheel	32°00′ <sup>+1°</sup> -2°				
		C	itside wheel 31 °					
		(outside wheel)	21°10' (inside wheel)					
Front wheel alignment Specifications at vehicle height of non-	Vehicle height of non-loaded vehicle	Model	Tire size	Fro Height at o of tip of fro adjusting o	center ont side	e of	mm (in.) Rear eight of center f rear leaf spring ont bushing	
loaded vehicle		RN101 L – TRLDEA RN101 L – TRLDEK	P225/75R15	281.6 (*	11.087	7) 4	26.9 (16.807)	
		RN101 L – TRMDEA	P225/75R15	281.8 (	11.095	5) 4	26.9 (16.807)	
		RN101 L – TRPDEA	P225/75R15	281.4 (			24.9 (16.728)	
		RN106L – TRMDEA	P225/75R15	285.9 (			27.5 (16.831)	
		RN106L – TRMDEA RN106L – TRLDEK	P225/75R15	285.6 (			27.5 (16.831)	
		RN110L – CRMDEA	P225/75R15	292.0 (	11.496	5) 4	23.2 (16.661)	
		RN110L – CRPDEA	P225/75R15	291.4 (	11.472	2) 4	20.2 (16.543)	
		RN110L – CRLDEA	P225/75R15	291.3 (	11.468	3) 4	23.1 (16.657)	
		RN110L – CRLDEK	P225/75R15	291.1 (	11.461	1) 4	26.4 (16.787)	
		VZN100L – TRMDEA	P225/75R15	279.5 (	11.003	3) 4	22.5 (16.634)	
		VZN100L – TRMDEK	31X10.5R15LT	311.0 (	12.244	1) 4	54.1 (17.878)	
		VZN105L – TRMDEA	P225/75R15	283.6 (	11.165	5) 4	22.6 (16.638)	
		VZN105L – TRMDEK	31X10.5R15LT	315.1 (	12.40	5) 4	54.3 (17.886)	
		VZN110L – CRMDEA	P225/75R15	289.8 (	11.409	3) 4	18.8 (16.448)	
			31X10.5R15LT	321.3 (	12.650	D) 4	50.4 (17.732)	
		VZN110L – CRMDEK	P225/75R15	289.8 (	11.409	3) 4	22.1 (16.618)	
			31X10.5R15LT	321.3 (	12.650	)) 4	53.4 (17.850)	
		VZN110L – CRPDEA	P225/75R15	289.4 (	11.394	1) 4	17.4 (16.433)	
			31X10.5R15LT	321.0 (	12.638	3) 4	49.0 (17.677)	

## Specifications (Front/4WD) (Cont'd)

Front wheel	Vehicle height		}			He	eight mm (in.)
alignment Specifications at vehicle height of non-	of non-loaded vehicle	Model	Tire size		Height at center of tip of front side		Rear Height of center of rear leaf spring front bushing
loaded vehicle			P225/75R	15	28	9.2 (11.386)	420.6 (16.559)
		VZN110L – CRPDEK	31X10.5R			0.7 (12.626)	452.3 (17.807)
			P225/75R	15	28	3.1 (11.146)	415.6 (16.362)
		VZN110L – CRMGEA	10.5R15L1	r l	314	4.7 (12.390)	447.3 (17.610)
		VZN110L – CRMGEK	P225/75R1	15	282	2.9 (11.138)	418.8 (16.488)
		VZNTIUL - CHIMGER	31X10.5R	15LT	314	4.4 (12.378)	450.5 (17.736)
		VZN110L - CRPGEA	P225/75R1	15	282	2.7 (11.130)	413.9 (16.296)
		VZN110L – CRPGEK	31X10.5R	15LT	314	4.3 (12.374)	445.6 (17.543)
	Alignment	Model	Camber	Cas	ter	Steering axis inclination	Toe–in mm (in.)
		RN106L series	0°42′ <u>+</u> 45′	1°41′	<u>+ 45'</u>	11°53′ <u>+</u> 45′	2.22 <u>+</u> 2 (0.0874 <u>+</u> 0.08)
		VZN100L series	0°43′ <u>+</u> 45′	1°41′	<u>+</u> 45'	<u>11°52′ ± 45′</u>	1.91 <u>+</u> 2 (0.0751 <u>+</u> 0.08)
		VZN105L series	0°42′ <u>+</u> 45′	1°45′	<u>+</u> 45'	11°53′ <u>+</u> 45′	2.22±2 (0.0874±0.08)
		RN101L – TRMDEA	0°43′ <u>+</u> 45′	1°38′	<u>+</u> 45'	11°52′ <u>+</u> 45′	1.92 <u>+</u> 2 (0.0756 <u>+</u> 0.08)
		RN101L – TRLDEA	0°43′ <u>+</u> 45′	1°38′	<u>+</u> 45'	11°52′ <u>+</u> 45′	1.92 <u>+</u> 2 (0.0756 <u>+</u> 0.08)
		RN101L – TRLDEK	0°43′ <u>+</u> 45′	1°37′	<u>+</u> 45'	11°52′ <u>+</u> 45′	1.92 <u>+</u> 2 (0.0756 <u>+</u> 0.08)
		RN101L - TRPDEA	0°43′ <u>+</u> 45′	1°41′	<u>+</u> 45'	11°52′ <u>+</u> 45′	1.91 <u>+</u> 2 (0.0752 <u>+</u> 0.08)
		RN110L – CRMDEA	0°40′ <u>+</u> 45′	1°49′	<u>+</u> 45'	11°55′ <u>+</u> 45′	2.69 <u>+</u> 2 (0.1059 <u>+</u> 0.08)
		RN110L – CRPDEA	0°40′ <u>+</u> 45′	1°52′	<u>+</u> 45'	11°55′ <u>+</u> 45′	2.69 <u>+</u> 2 (0.1059 <u>+</u> 0.08)
		RN110L – CRLDEA	0°40′ <u>+</u> 45′	1°49′	<u>+ 45'</u>	11°55′ <u>+</u> 45′	2.68±2 (0.1055±0.08)
		RN110L – CRLDEK				11°55′ <u>+</u> 45′	2.68 <u>+</u> 2 (0.1055 <u>+</u> 0.08)
		VZN110L – CRMDEA					2.69 <u>+</u> 2 (0.1059 <u>+</u> 0.08)
		VZN110L – CRMDEK					2.69±2 (0.1059±0.08)
		VZN110L – CRPDEA					2.69 <u>+</u> 2 (0.1059 <u>+</u> 0.08)
		VZN110L – CRPDEK					2.69 <u>+</u> 2 (0.1059 <u>+</u> 0.08)
		VZN110L – CRMGEA					2.25 <u>+</u> 2 (0.0886 <u>+</u> 0.08)
		VZN110L – CRMGEK					
		VZN110L – CRPGEA	0°42′ <u>+</u> 45′	1°56′	<u>+</u> 45'	<u>11°53′ +</u> 45′	2.25 <u>+</u> 2 (0.0886 <u>+</u> 0.08)
		Camber left-right error				30' or less	
		Caster left-right error				30' or less	
		Steering axis inclination le	eft-right error			30' or less	
		Ū	Inside wheel			32°00′ <sup>+ 1°</sup> - 2°	
			Dutside wheel			31°	
		At 200 (	outside wheel	)		21°10' (insid	
Disc wheel latera	al runout Limit		1.2 mm			0.047 i	
Wheel bearing pr	reload (starting)		28 - 56	N	2.9	) — 5.7 kgf	6.4 – 12.6 lbf
(rotating load at h	nub bolt)		0.2			0.040 -	
Free wheeling hu	ub ring oil clearand	се	0.3 mm			0.012 i	n.
Automatic locking	g hub brake shoe	thickness	1 5			0.050	
	-	Minimum	1.5 mm	0 600		0.059 ii	
Front drive shaft	thrust clearance	N 4	0.075 - 0	0.090	mm		0.0272 in.
		Maximum	1.0 mm			0.039 ii	1.

## Specifications (Front/4WD) (Cont'd)

Front drive shaft thrust cleara	ance adjusting shim	1.80 mm	0.0709 in.		
thickness		2.25 mm	0.0886 in.		
		2.25 11111	0.0000 m.		
Front drive shaft grease capa	•				
	Outboard joint (black)	195 — 205 g	0.43 - 0.45 lb		
	Inboard joint (brown)	270 — 280 g	0.60 — 0.62 lb		
Front differential drive pinion	bearing preload				
(starting)	New bearing	1.2 — 1.9 N⋅m	12 - 19 kgf⋅cm 10.4 - 16.5 in. lbf		
	Reused bearing	0.6 — 1.0 N∙m	6 — 10 kgf·cm 5.2 — 8.7 in.·lbf		
Front differential companion f	flange deviation				
	Maximum vertical runout	0.10 mm	0.0039 in.		
Maximum lateral runout		0.10 mm	0.0039 in.		
Front differential ring gear rur	nout	0.07 mm	0.0028 in.		
Front differential ring gear ba	cklash	0.13 — 0.18 mn	n 0.0051 – 0.0071 in.		
Front differential preload (star	rting). Total preload	Add drive pinion preload			
		0.4 — 0.6 N∙m	4 - 6 kgf·cm 3.5 - 5.2 in. lbf		
Front differential side gear ba	acklash	0.05 - 0.20 mn	n $0.0020 - 0.0079$ in.		
Front differential rear oil seal	drive in depth	1.5 mm	0.059 in.		
Clutch sleeve clearance (A.D	.D.) Limit	0.35 mm	0.0138 in.		
Nut tightening limit		70 mm	3.43 in.		
Lower ball joint vertical play		2.3 mm	0.091 in.		
Upper ball joint vertical play	Limit	0 mm	0 in.		
Lower ball joint turning torque	e	0.1 — 4.9 N·m	1 — 50 kgf·cm 1 — 43 in.·lbf		
Upper ball joint turning torque	e	2.0 — 3.9 N·m	20 - 40 kgf·cm 17 - 35 in.·lbf		

## **Specifications (Rear)**

Rear axle shaft	Maximum shaft runout	2.0 mm 0.079 in.
(Single tire)	Maximum flange runout	0.2 mm 0.008 in.
Rear axle shaft	Maximum shaft runout	2.0 mm 0.079 in.
and hub	Preload (starting)	Add oil seal frictional force
(Double tire)		1.0 – 14.7 N 0.1 – 1.5 kgf 0.2 – 3.3 lbf
7.5 in.	Drive pinion bearing preload (starting)	
differential	New bearing	1.2 - 1.9 N·m 12 - 19 kgf·cm 10.4 - 16.5 in. · lbf
	Reused bearing	0.6 - 1.0 N·m 6 - 10 kgf·cm 5.2 - 8.7 in. Ibf
	Total preload (starting)	Add drive pinion bearing preload
	New and reused bearing	$0.4 - 0.6 \text{ N} \cdot \text{m}$ 4 - 6 kgf · cm 3.5 - 5.2 in. · lbf
	Drive pinion to ring gear backlash	0.13 - 0.18 mm 0.0051 - 0.0071 in.
	Pinion gear to side gear backlash	0.05 - 0.20 mm 0.0020 - 0.0079 in.
	Ring gear runout Limit	0.07 mm 0.0028 in.
	Companion flange deviation	
1	Maximum vertical runout	0.10 mm 0.0039 in.
	Maximum lateral runout	0.10 mm 0.0039 in.
8.0 in.	Drive pinion bearing preload (starting)	
differential	2 pinion type New bearing	1.9 – 2.5 N·m 19 – 26 kgf·cm 16.5 – 22.6 in. Ibf
	Reused bearing	0.9 – 1.3 N·m 9 – 13 kgf·cm 7.8 – 11.3 in · lbf
	4 pinion type New bearing	1.0 - 1.6 N·m $10 - 16$ kgf·cm $8.7 - 13.9$ in.·lbf
	Reused bearing	0.5 - 0.8 N·m $5 - 8$ kgf·cm $4.3 - 6.9$ in.·lbf

#### Specifications (Rear) (Cont'd)

8.0 in.	Total preload (starting)	Add drive pinion bearing preload
differential		0.4 - 0.6 N·m 4 - 6 kgf·cm 3.5 - 5.2 in. Ibf
(cont'd)	Drive pinion to ring gear backlash	0.13 - 0.18 mm 0.0051 - 0.0071 in.
	Pinion gear to side gear- backlash	0.05 - 0.20 mm 0.0020 - 0.0079 in.
	Ring gear runout Limit	0.10 mm 0.0039 in.
	Companion flange deviation	
	Maximum vertical runout	0.10 mm 0.0039 in.
	Maximum lateral runout	0.10 mm 0.0039 in.

#### **Torque Specifications (Front/2WD)**

Part tightened	N∙m	kgf∙cm	ft·lbf
Knuckle stopper bolt lock nut	34	350	25
Tie rod clump bolt	22	225	16
Steering knuckle x Upper ball joint	108	1,100	80
Steering knuckle x Lower ball joint	142	1,450	105
Steering knuckle x Tie rod	90	920	67
Upper suspension arm x Upper ball joint	31	320	23
Lower suspension arm x Lower ball joint	127	1,300	94
Torsion bar spring lock nut	83	850	61
Lower suspension arm x Strut bar	95	970	70
Lower suspension arm x Stabilizer bar	13	130	9
Lower suspension arm x Shock absorber	18	185	13
Shock absorber x Frame	25	250	18
Lower arm shaft nut	226	2,300	166
Upper arm shaft x Frame	96	980	71
Upper suspension arm set bolt	126	1,280	93
Strut bar x Frame	123	1,250	90
Stabilizer bar bracket x Frame	29	300	22
Hub nut	103	1,050	76

## **Torque Specifications (Front/4WD)**

Part tightened	N∙m	kgf∙cm	ft∙lbf
Knuckle stopper bolt lock nut	47	480	35
Free wheeling hub body x Axle hub	31	315	23
Free wheeling hub body x Front drive shaft	18	185	13
Free wheeling hub body x Cover	10	100	7
Axle hub bearing lock nut	47	480	35
Upper suspension arm x Upper ball joint	33	340	25
Upper ball joint x Steering knuckle	142	1,450	105
Steering knuckle arm x Steering knuckle	183	1,870	135
Lower suspension arm x Shock absorber	137	1,400	101
Lower suspension arm x Stabilizer bar	25	260	19
Lower suspension arm x Lower ball joint	142	1,450	105
Front drive shaft x Side gear shaft	83	845	61
Front differential front mounting bolt	147	1,500	108
Front differential rear left mounting bolt	167	1,700	123

## Torque Specifications (Front/4WD) (Cont'd)

Part tightened	N∙m	kgf∙cm	ft∙lbf
Front differential rear right mounting bolt	167	1,700	123
Differential tube x Bracket	127	1,300	94
Front differential x Bracket	78	800	58
Ring gear x Differential case	97	985	71
Differential carrier x Differential tube (wlo A.D.D.¿Differential	85	900	65
carrier x Side bearing cap	78	800	58
Differential carrier x Carrier cover	47	475	34
Lower suspension arm x Frame	196	2,000	145
Upper suspension arm shaft x Frame	178	1,810	131
A.D.D. clutch case x Differential carrier	78	800	58
A.D.D. clutch case x Differential to be	78	800	58
A.D.D. clutch case cover x A.D.D. clutch case	21	210	15
Upper suspension arm shaft lock nut	226	2,300	166
Upper suspension arm x Torque arm	87	890	64
Shock absorber x Frame	25	250	18
Stabilizer bar bracket x Frame	29	300	22
Hub nut	103	1,050	76

## **Torque Specifications (Rear)**

	Part tightened			kgf∙cm	ft·lbf
Ring gear x Differentia	al case		97	985	71
Bearing cap x Differer	ntial carrier		78	800	58
Differential carrier x A	xle housing	Single tire	25	250	18
		Double tire	31	315	23
Rear axle housing x E	Bearing retainer		69	700	51
Spring center bolt			44	450	33
Front spring bracket x	Hanger pin				
Rubber bushing type			91	930	67
Press-installed bushing type		157	1,600	116	
Rear spring shackle x	Leaf spring		91	930	67
Rear shock absorber:	x U–bolt seat	2WD	25	260	19
		4WD	72	730	53
Rear shock absorber	x Body	2W D	25	260	19
		4WD	72	730	53
U-bolt x U-bolt seat					
2WD	0.5 ton		147	1,500	108
	1 ton, C 8	،C	123	1,250	90
4WD	Xtra cab		123	1,250	90
Regular cab		ab	147	1,500	108
Stabilizer bar x Stabili	izer bar link		36	365	26
Stabilizer bar bracket	x Axle housing		13	130	9
Hub nut	C C		103	1,050	76