

SERVICE DATA AND SPECIFICATIONS (SDS)

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PF0:00030

General Specifications 2WD MODELS

NDS0004H

Applied model	VQ35DE	
	A/T	M/T
Final drive model	R200	R200V (With LSD)
Gear ratio	3.538	
Number of teeth (Drive gear/Drive pinion)	46/13	
Oil capacity (Approx.) ℓ (US pt, Imp pt)	1.4 (3, 2-1/2)	
Number of pinion gears	2	4
Drive pinion adjustment spacer type	Collapsible	

AWD MODELS

Applied model	VQ35DE	
	A/T	
Final drive model	R200	
Gear ratio	3.538	
Number of teeth (Drive gear/Drive pinion)	46/13	
Oil capacity (Approx.) ℓ (US pt, Imp pt)	1.4 (3, 2-1/2)	
Number of pinion gears	2	
Drive pinion adjustment spacer type	Collapsible	

Inspection and Adjustment DRIVE GEAR RUNOUT

NDS0004I

Item	Runout limit
Drive gear back face	0.05 mm (0.0020 in) or less

DIFFERENTIAL SIDE GEAR CLEARANCE

Item	Specification	
	R200	R200V (With LSD)
Side gear backlash (Clearance between side gear and differential case)	0.2 mm (0.008 in) or less (Each gear should rotate smoothly without excessive resistance during differential motion.)	0.15 mm (0.0059 in) or less (Each gear should rotate smoothly without excessive resistance during differential motion.)

PRELOAD TORQUE

Item	Specification
Pinion bearing (P1)	2.65 – 3.23 N·m (0.27 – 0.32 kg-m, 24 – 28 in-lb)
Side bearing (P2)	0.20 – 0.52 N·m (0.02 – 0.05 kg-m, 2 – 4 in-lb)
Side bearing to pinion bearing (Total preload) (Total preload = P1 + P2)	2.85 – 3.75 N·m (0.29 – 0.38 kg-m, 26 – 33 in-lb)

BACKLASH

Item	Specification
Drive gear to drive pinion gear	0.10 – 0.15 mm (0.0039 – 0.0059 in)