

# SERVICE DATA AND SPECIFICATIONS (SDS)

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PF0:00030

### General Specifications

NDS0001R

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.) $\ell$ (US pt, Imp pt)	1.4 (3, 2-1/2)	
Number of pinion gears	2	4
Drive pinion adjustment spacer type	Collapsible	

### Inspection and Adjustment DRIVE GEAR RUNOUT

NDS0001S

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)

### COMPANION FLANGE RUNOUT

Item	Runout limit
Companion flange face	0.08 mm (0.0031 in) or less
Inner side of the companion flange	0.08 mm (0.0031 in) or less