

# SERVICE DATA AND SPECIFICATIONS (SDS)

## SERVICE DATA AND SPECIFICATIONS (SDS)

PF0:00030

### General Specifications

ADS001DP

|   |                |                  |
|---|----------------|------------------|
| Applied model                                 | VQ35DE         |                  |
|   | A/T            | M/T              |
| Final drive model                             | R200           | R200V (With LSD) |
| Gear ratio                                    | 3.357          | 3.538            |
| Number of teeth (Drive gear/Drive pinion)     | 47/14          | 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

ADS001DQ

Unit: mm (in)

| Item                 | Runout limit          |
|----------------------|-----------------------|
| Drive gear back face | 0.05 (0.0020) or less |

### DIFFERENTIAL SIDE GEAR CLEARANCE

Unit: mm (in)

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

### PRELOAD TORQUE

Unit: N·m (kg-m, in-lb)

| Item  | Specification                      |
|---|------------------------------------|
| Pinion bearing (P1)   | 2.65 - 3.23 (0.27 - 0.32, 24 - 28) |
| Side bearing (P2)   | 0.20 - 0.52 (0.02 - 0.05, 2 - 4)   |
| Side bearing to pinion bearing (Total preload)<br>(Total preload = P1 + P2) | 2.84 - 3.75 (0.29 - 0.38, 26 - 33) |

### BACKLASH

Unit: mm (in)

| Item                            | Specification                 |
|---------------------------------|-------------------------------|
| Drive gear to drive pinion gear | 0.10 - 0.15 (0.0039 - 0.0059) |

### COMPANION FLANGE RUNOUT

Unit: mm (in)

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