

# 12. REAR WHEEL/BRAKE/ SUSPENSION/FINAL DRIVE

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## SERVICE INFORMATION

### GENERAL

- This section covers maintenance of the rear wheel, suspension and drive mechanism.
- A jack or block is required to support the ATC.
- Replace all oil seals and O-rings whenever the final drive gear assembly is disassembled.
- Check tooth contact pattern and gear backlash when the bearing, gear set and/or gear case has been replaced.
- When using the lock nut wrench, use a deflecting beam type torque wrench 20 inches long. The lock nut wrench increases the torque wrench's leverage, so the torque wrench reading will be less than the torque actually applied to the lock nut. The specification given is the actual torque applied to the lock nut, not the reading on the torque wrench when used with the lock nut wrench. The torque scale reading is given with the actual torque specifications.

### SPECIFICATIONS

ITEM		STANDARD	SERVICE LIMIT
Rear axle runout		—	3.0 mm (0.12 in)
Rear brake drum I.D.		160 mm (6.29 in)	161 mm (6.34 in)
Rear brake lining thickness		4 mm (0.2 in)	2 mm (0.1 in)
Final gear oil	Capacity	100 cc (3.38 US oz)	—
	Recommended oil	Hypoid-gear oil SAE #80	—
Gear backlash		0.08–0.18 mm (0.003–0.007 in)	0.25 mm (0.010 in)
Gear assembly preload		25 N·m (2.5 kg-cm, 2.2 in-lb) max.	—
Rear shock absorber spring free length		273.8 mm (10.78 in)	269.1 mm (10.59 in)

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### TORQUE VALUES

Rear wheel nuts	'85	50–60 N·m (5.0–6.0 kg-m, 36–43 ft-lb)
	After '85	60–70 N·m (6.0–7.0 kg-m, 43–51 ft-lb)
Rear axle nuts	'85	80–120 N·m (8.0–12.0 kg-m, 58–87 ft-lb)
	After '85	80–140 N·m (8.0–14.0 kg-m, 58–00 ft-lb)
Rear brake panel nuts	'85	50–60 N·m (5.0–6.0 kg-m, 36–43 ft-lb)
	After '85	80–90 N·m (8.0–9.0 kg-m, 58–65 ft-lb)
Rear shock absorber mount bolt		50–60 N·m (5.0–6.0 kg-m, 36–43 ft-lb)
Swing arm right pivot bolt		16–20 N·m (1.6–2.0 kg-m, 12–15 ft-lb)
Swing arm pivot lock nut		100–130 N·m (10.0–13.0 kg-m, 72–94 ft-lb)
Final gear case mount bolt	(10 mm)	50–60 N·m (5.0–6.0 kg-m, 36–43 ft-lb)
	(8 mm)	30–36 N·m (3.0–3.6 kg-m, 22–23 ft-lb)
Final bearing housing bolt		30–36 N·m (3.0–3.6 kg-m, 22–23 ft-lb)
Final gear case cover	(10 mm)	45–50 N·m (4.5–5.0 kg-m, 32–36 ft-lb)
	(8 mm)	23–28 N·m (2.3–2.8 kg-m, 17–20 ft-lb)
Pinion joint nut		100–120 N·m (10.0–12.0 kg-m, 72–87 ft-lb)
Pinion bearing lock nut		90–110 N·m (9.0–11.0 kg-m, 65–80 ft-lb)