

12. REAR SUSPENSION

SERVICE INFORMATION	12-1	SUSPENSION LINKAGE	12-12
TROUBLESHOOTING	12-2	SWING ARM	12-14
SHOCK ABSORBER	12-3		

SERVICE INFORMATION

GENERAL

- This section deals with rear shock absorber and swing arm repairs.
- A jack or block is required to support the ATC.
- Use genuine bolts for the rear suspension linkage and shock absorber pivot and mounting; ordinary bolts lack adequate strength for these applications. Also take note of the installation direction of these bolts since they must be installed correctly.

WARNING

- *The shock absorber is fitted with a gas-filled reservoir. Do not fill the reservoir with air; use only nitrogen and have the shock pressure checked and/or charged by an authorized Honda dealer equipped with a proper nitrogen charging system.*
- *The shock absorber contains nitrogen under high pressure. Do not allow fire or heat near the shock and be sure to release the nitrogen gas pressure before discarding the shock.*

SPECIFICATIONS

ITEM		STANDARD mm (in)	SERVICE LIMIT mm (in)	
Rear suspension	Rear shock absorber spring free length	254.7–260.7 (10.028–10.264)	252.1 (9.93)	
	Spring installation load length	Standard length	241.7 (9.52)	
		Min-max length	236.7–248.7 (9.319–9.791)	
	Damper rod compression force, 10 mm (0.4 in)	'85:	15–25 kg (33–55 lb)	–
		AFTER '85:	23.1–38.5 kg (51–85 lb)	–
	Nitrogen pressure	'85:	13–16 kg/cm ² (185–230 psi)	–
AFTER '85:		20–23 kg/cm ² (284–327 psi)	–	

12

TORQUE VALUES

Shock absorber oil hose bolt	28–32 N·m (2.8–3.2 kg-m, 20–23 ft-lb)
Shock absorber oil hose joint lock nut	28–32 N·m (2.8–3.2 kg-m, 20–23 ft-lb)
Shock absorber spring lock nut	80–100 N·m (8.0–10.0 kg-m, 58–72 ft-lb)
Shock absorber upper mount bolt	45–55 N·m (4.5–5.5 kg-m, 32–40 ft-lb)
Shock absorber lower mount bolt	70–80 N·m (7.0–8.0 kg-m, 51–58 ft-lb)
Shock arm pivot bolt	70–80 N·m (7.0–8.0 kg-m, 51–58 ft-lb)
Shock link pivot bolt	70–80 N·m (7.0–8.0 kg-m, 51–58 ft-lb)
Swing arm pivot nut	70–110 N·m (7.0–11.0 kg-m, 51–80 ft-lb)
Skid plate	24–30 N·m (2.4–3.0 kg-m, 17–22 ft-lb)