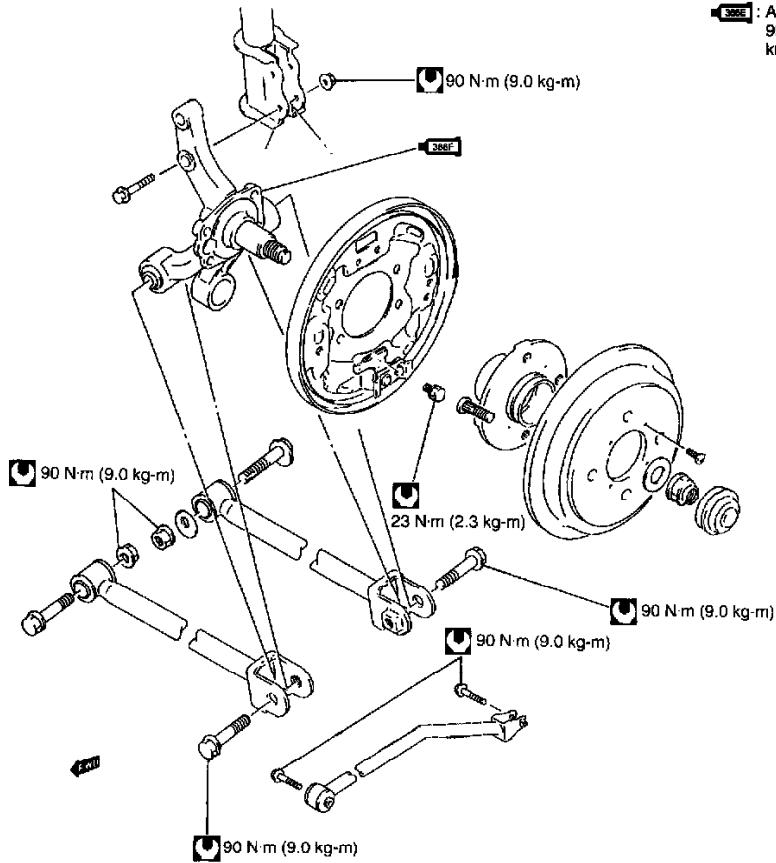


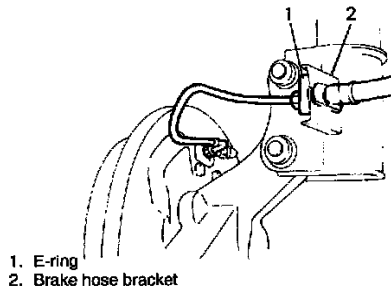
# Knuckle: Service and Repair



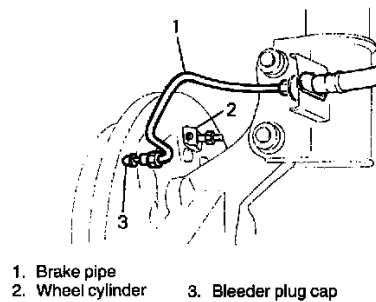
**388F** : Apply water-tight sealant 99000-31090 to joint seam of knuckle and brake back plate.

## KNUCKLE REMOVAL

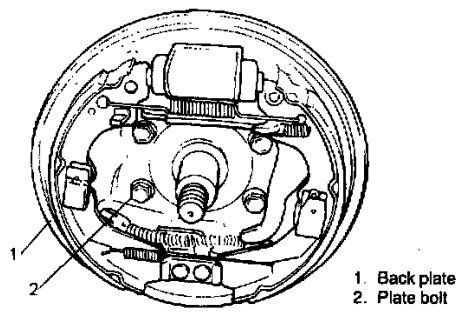
1. Hoist vehicle and remove wheel hub.



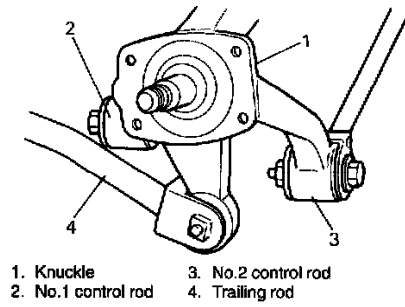
2. Remove E-ring securing brake hose.



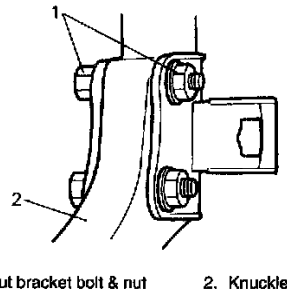
3. Disconnect brake pipe from wheel cylinder and put wheel cylinder bleeder plug cap onto pipe to prevent fluid from spilling.
4. Remove ABS wheel speed sensor from knuckle, if equipped.



5. Remove brake back plate from knuckle.



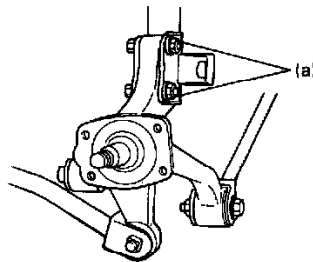
6. Loosen control rod outer bolts, trailing rod rear bolt and strut bracket nuts.
7. Disconnect control rods (No.1 and No.2) from knuckle.
8. Disconnect trailing rod from knuckle.



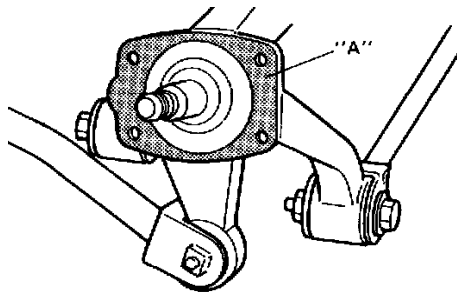
9. Remove knuckle from strut.

## INSTALLATION

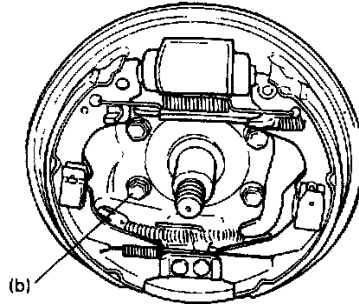
1. Install rear knuckle to strut, and connect control rods and trailing rod to knuckle. At this point, temporarily tighten them by hand.



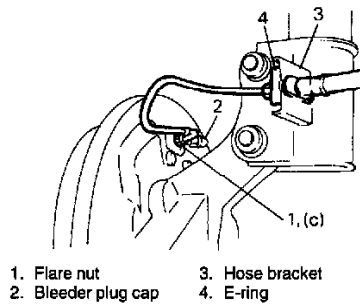
2. Tighten strut bracket bolts and nuts to specified torque.  
Tightening Torque (a): 90 Nm (9.0 kg-m, 65.0 ft. lbs.)



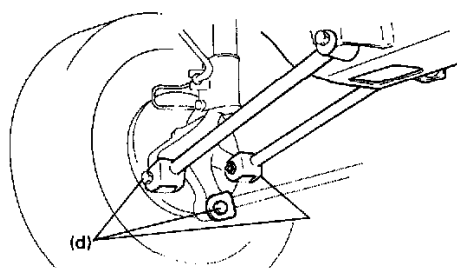
3. Apply water tight sealant to mating surfaces of brake back plate and rear knuckle.  
"A": Sealant 99000-31090



4. Install brake back plate and tighten back plate bolts to specified torque.  
Tightening Torque (b): 23 Nm (2.3 kg-m, 17.0 ft. lbs.)
5. For ABS equipped vehicle, check to make sure that ABS wheel speed sensor tooth is free from any metal particles and install it to knuckle.



6. Connect brake pipe to wheel cylinder and tighten brake pipe flare nut to specified torque and install bleeder plug cap taken off from pipe back to bleeder plug.  
Tightening Torque (c): 16 Nm (1.6 kg-m, 12.0 ft. lbs.)
7. Attach brake hose to strut bracket with E-ring securely.
8. Install wheel hub.
9. Install brake drum.
10. Fill reservoir with brake fluid and bleed brake system.
11. Upon completion of all jobs, depress brake pedal with about 30 kg (66 lbs.) load three to five times so as to obtain proper drum-to-shoe clearance. Adjust parking brake cable.
12. Tighten parking brake lever cover screws.
13. Install wheel and tighten wheel nuts to specified torque.
14. Check to ensure that brake drum is free from dragging and proper braking is obtained.
15. Lower hoist and bounce vehicle up and down to stabilize suspension.



16. Tighten control rod outer bolts and trailing rod rear bolt to specified torque with vehicle weight on suspension.  
Tightening Torque (d): 90 Nm (9.0 kg-m, 65.0 ft. lbs.)  
Then check toe.
17. Perform brake test (foot brake and parking brake).
18. Check each installed part for fluid leakage.