300IU–01

OVERHAUL

HINT:

- COMPONENTS: See page 30–55
- On the RH side use the same procedures as on the LH side.

1. REMOVE FRONT AXLE HUB SUB–ASSY LH (See page 30–45)

2. REMOVE BRAKE BACKING PLATE SUB–ASSY FRONT LH

(a) Remove the 4 nuts, 4 bolts and brake backing plate.

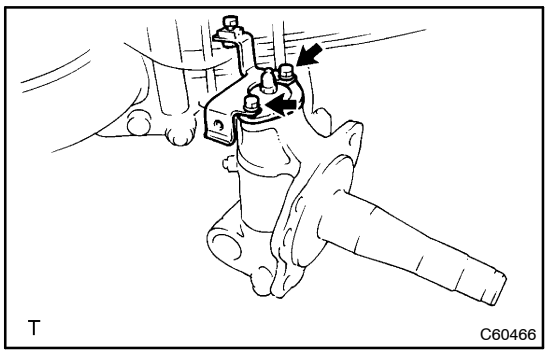
(b) Support the brake backing plate securely.

3. REMOVE STEERING KNUCKLE ARM LH

(a) Remove the cotter pin and nut, and disconnect the drag link from the steering knuckle arm.

(b) Remove the cotter pin and nut, and disconnect the tie rod end from the steering knuckle arm.

(c) Remove the nut and steering knuckle arm.

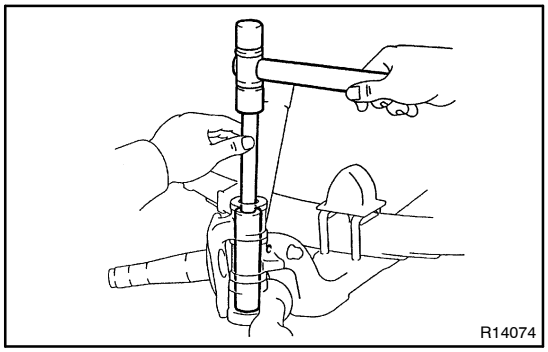


4. REMOVE STEERING KNUCKLE LH

(a) Remove the upper and lower steering knuckle covers.

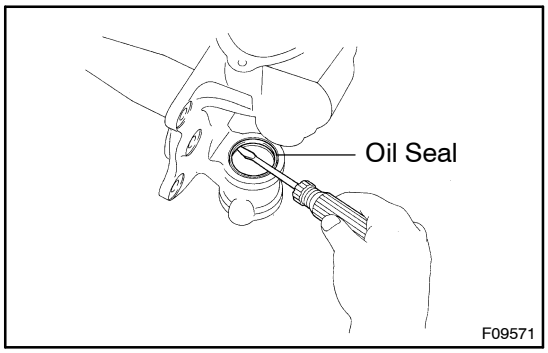
(b) Remove the nut from the king pin stopper.

(c) Using a plastic hammer, tap out the king pin stopper.



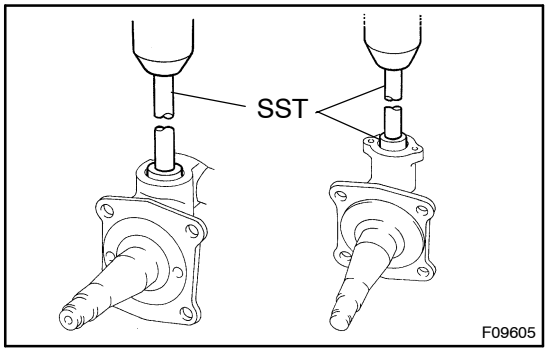
(d) Using a brass bar and hammer, tap out the king pin.

(e) Remove the steering knuckle, shim and bearing.



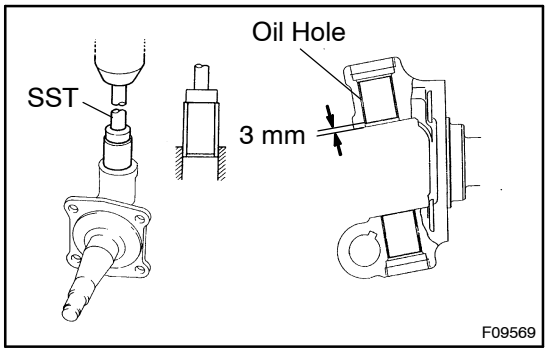
5. REMOVE OIL SEAL

(a) Using a screwdriver, pry out the oil seal.



6. REMOVE BUSHES

(a) Using SST and a press, pry out the upper and lower bushings.
SST 09601–37011, 09950–70010 (09951–07150)

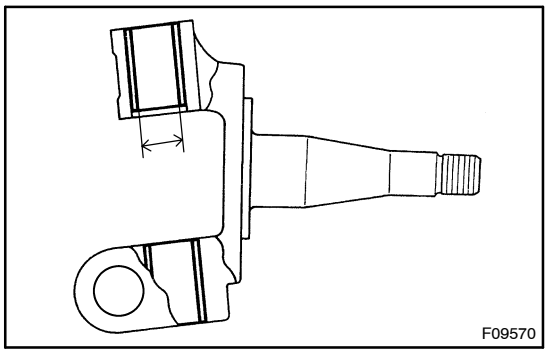


7. INSTALL BUSHES

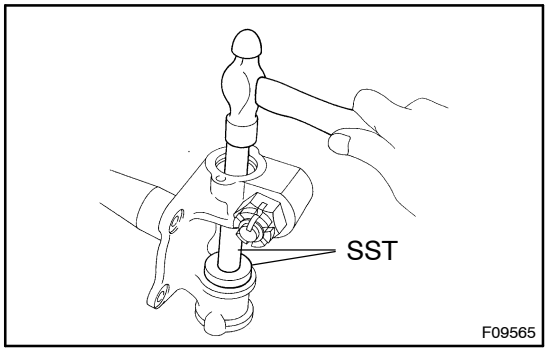
(a) Using SST and a press, press in new upper and lower bushings.
SST 09601–37011, 09950–70010 (09951–07150)

HINT:

- Press in the upper bushing with its oil hole facing inward until the bushing edge comes in 3 mm (0.118 in.) from the knuckle lower edge.
- Press in the lower bushing with its oil hole facing outward until the bushing and knuckle upper edge become even.

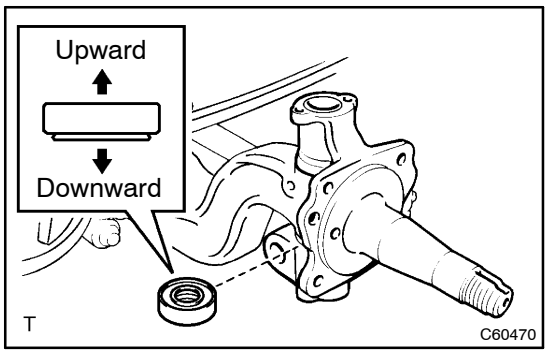


(b) Measure the bushing inner diameter.
Inner diameter: 35.01 – 35.03 mm (1.3784 – 1.3791 in.)

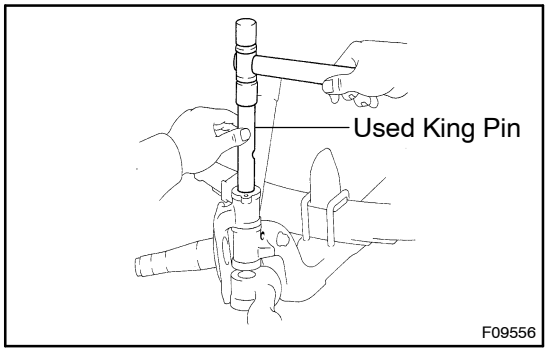


8. INSTALL OIL SEAL

(a) Using SST and a hammer, tap in a new oil seal.
SST 09950–60010 (09951–00410), 09950–70010 (09951–07200)



9. INSTALL BEARING



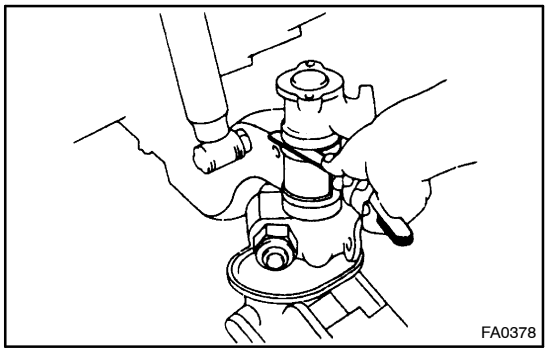
10. INSTALL STEERING KNUCKLE LH

(a) Place the shim and bearing.

(b) Using a plastic hammer, tap in the king pin.

HINT:

Apply MP grease to the bushing, I–beam and bearing inside.



(c) Using a jack, raise the steering knuckle.

(d) Measure the clearance between the I–beam and knuckle.

Thrust clearance: 0.10 mm (0.039 in.) or less

(e) Select the shim.

Standard thickness:

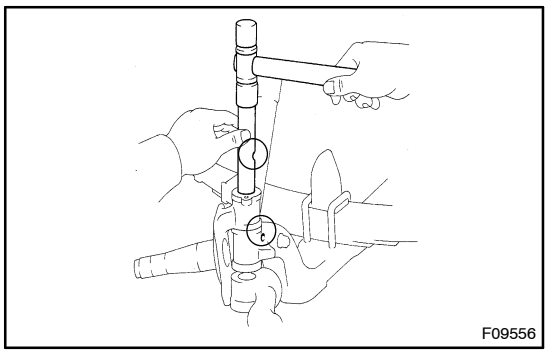
1.9 mm (0.075 in.)	2.3 mm (0.091 in.)
2.0 mm (0.079 in.)	2.4 mm (0.094 in.)
2.1 mm (0.083 in.)	2.5 mm (0.098 in.)
2.2 mm (0.087 in.)	2.6 mm (0.102 in.)

(f) Remove the jack.

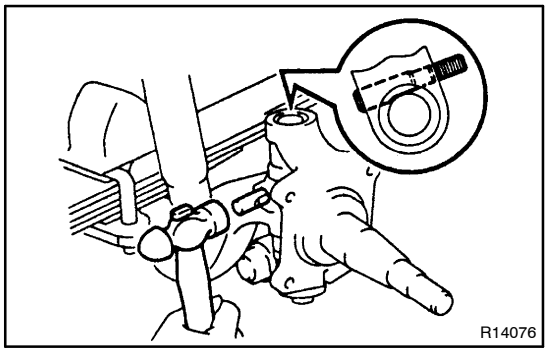
(g) Using a brass bar and hammer, tap out the king pin, shim and bearing.

(h) Place the selected shim and bearing.

(i) Position the hole downward and the notched position of the king pin forward to the hole side.



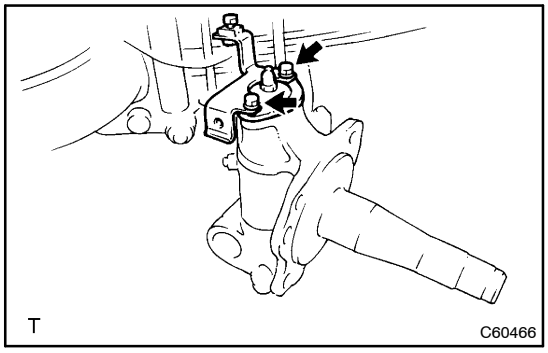
(j) Using a plastic hammer, tap in the king pin until the stopper pin hole aligns with the notched position.



(k) Using a hammer, tap in the king pin, stopper, and install the nut.

Torque: 43 N·m (439 kgf·cm, 32 ft·lbf)

(l) Check that the steering knuckle turns smoothly.



(m) Install the upper and lower steering knuckle covers.
Torque: 22 N·m (224 kgf·cm, 16 ft·lbf)

11. INSTALL STEERING KNUCKLE ARM LH

(a) Install the steering knuckle arm with the nut.
Torque: 685 N·m (6,990 kgf·cm, 505 ft·lbf)

(b) Connect the tie rod end, and install the nut and cotter pin.
Torque: 195 N·m (1,990 kgf·cm, 144 ft·lbf)

(c) Connect the drag link, and install the nut and cotter pin.
Torque: 195 N·m (1,990 kgf·cm, 144 ft·lbf)

12. INSTALL BRAKE BACKING PLATE SUB–ASSY FRONT LH

(a) Install the brake backing plate sub–assy with the 4 bolts and 4 nuts.

13. INSTALL FRONT AXLE HUB SUB–ASSY LH (See page 30–45)

14. ADJUST FRONT WHEEL ALIGNMENT (See page 26–2)