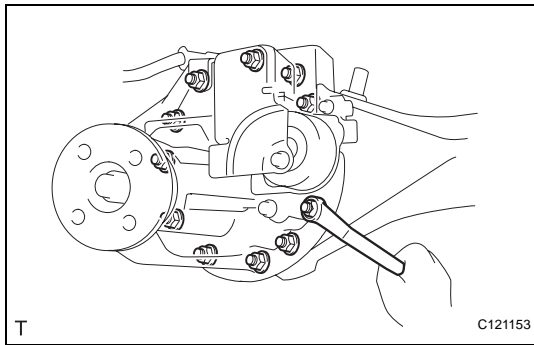


REMOVAL

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
2. **REMOVE REAR WHEEL**
3. **DRAIN BRAKE FLUID**
HINT:
Immediately wash off any brake fluid that comes into contact with any painted surfaces.
4. **DRAIN DIFFERENTIAL OIL**
5. **REMOVE REAR DISC BRAKE CALIPER ASSEMBLY LH (See page [AH-19](#))**
6. **REMOVE REAR DISC BRAKE CALIPER ASSEMBLY RH**
HINT:
Use the same procedure as for the LH side.
7. **REMOVE REAR DISC (See page [PB-17](#))**
8. **REMOVE PARKING BRAKE SHOE RETURN TENSION SPRING (See page [PB-17](#))**
9. **REMOVE PARKING BRAKE SHOE STRUT LH (See page [PB-17](#))**
10. **REMOVE PARKING BRAKE SHOE (See page [PB-17](#))**
11. **SEPARATE PARKING BRAKE CABLE LH (See page [AH-19](#))**
12. **REMOVE PARKING BRAKE CABLE RH**
HINT:
Use the same procedure as for the LH side.
13. **REMOVE REAR SPEED SENSOR (See page [BC-198](#))**
14. **REMOVE REAR SPEED SENSOR RH**
HINT:
Use the same procedure as for the LH side.
15. **REMOVE REAR AXLE SHAFT RH (See page [AH-19](#))**
16. **REMOVE REAR AXLE SHAFT LH**
HINT:
Use the same procedure as for the LH side.
17. **REMOVE REAR AXLE SHAFT LH OIL SEAL (See page [AH-20](#))**
18. **REMOVE REAR AXLE SHAFT RH OIL SEAL**
HINT:
Use the same procedure as for the LH side.
19. **REMOVE REAR PROPELLER SHAFT ASSEMBLY (for 2WD) (See page [PR-9](#))**
20. **REMOVE PROPELLER SHAFT ASSEMBLY (for 4WD) (See page [PR-9](#))**



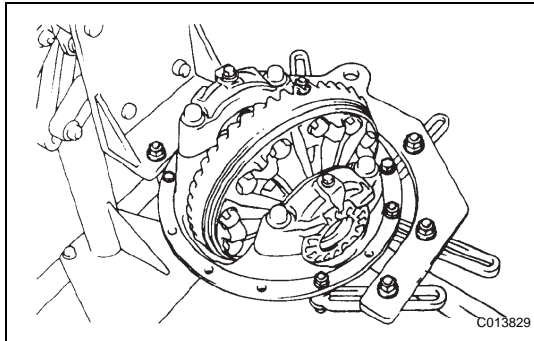
21. REMOVE REAR DIFFERENTIAL CARRIER ASSEMBLY

- (a) Remove the 11 nuts and the differential carrier.

NOTICE:

Be careful not to damage the contact surface.

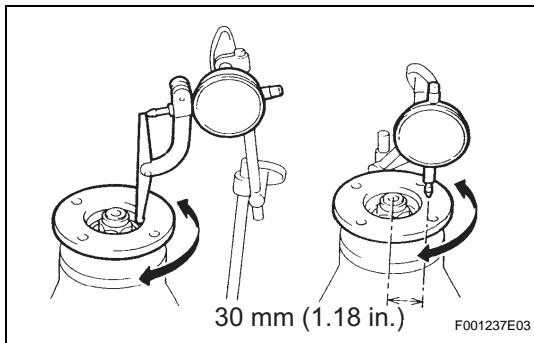
22. REMOVE REAR DIFFERENTIAL CARRIER GASKET



DISASSEMBLY

1. FIX REAR DIFFERENTIAL CARRIER ASSEMBLY

- (a) Fix the rear differential carrier assembly to the overattachment.



2. INSPECT REAR DRIVE PINION COMPANION FLANGE SUB-ASSEMBLY REAR

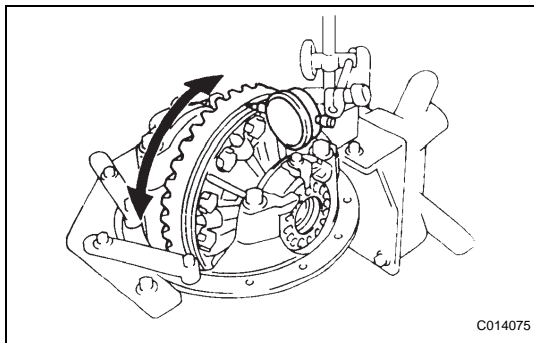
- (a) Using a dial indicator, measure the runout of the companion flange vertically and horizontally.

Maximum runout:

Vertical runout: 0.10 mm (0.0039 in.)

Lateral runout: 0.10 mm (0.0039 in.)

If the runouts are not with the specifications, replace the companion flange.



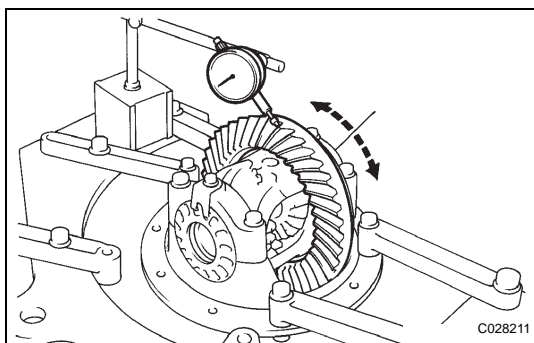
3. INSPECT RUNOUT OF DIFFERENTIAL RING GEAR

- (a) Using a dial indicator, check the runout of the ring gear.

Maximum runout:

0.07 mm (0.0028 in.)

If the runout is greater than the maximum, replace the ring gear with a new one.



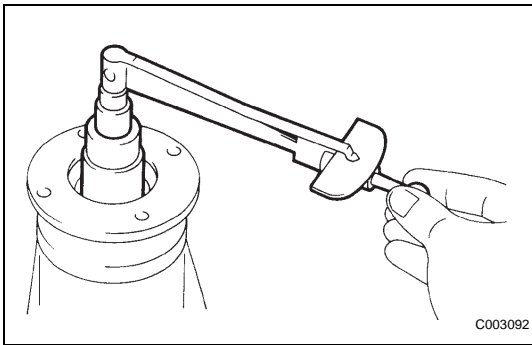
4. INSPECT DIFFERENTIAL RING GEAR BACKLASH

- (a) Using a dial indicator, check the backlash of the ring gear.

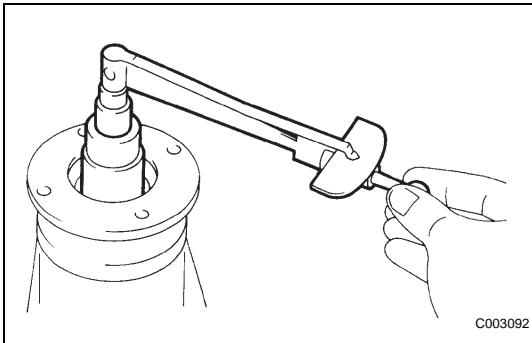
Backlash:

0.13 to 0.18 mm (0.0051 to 0.0071 in.)

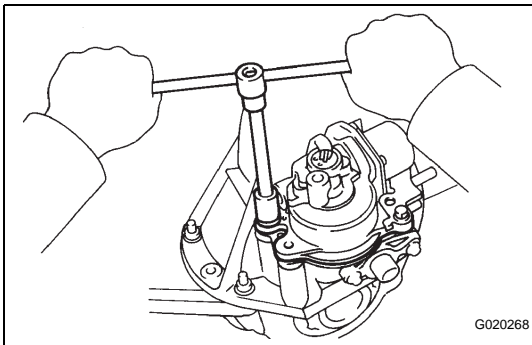
If the backlash is not within the specification, adjust or repair the side bearing preload as necessary.



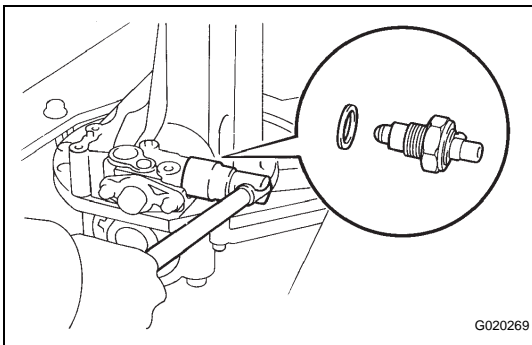
- 5. INSPECT DIFFERENTIAL DRIVE PINION PRELOAD**
- (a) Using a torque wrench, measure the preload of the backlash between the drive pinion and ring gear.
- Preload (at starting):**
0.56 to 0.85 N*m (5.7 to 8.7 kgf*cm, 5.0 to 7.5 in.*lbf)
- If necessary, disassemble and inspect the differential assembly.



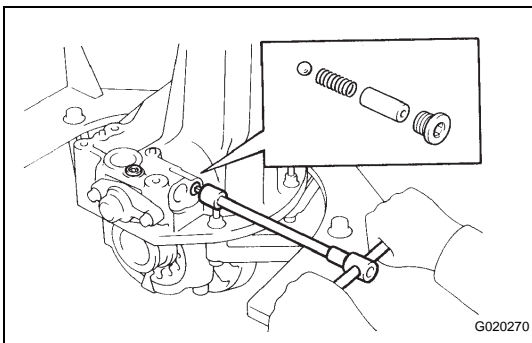
- 6. INSPECT TOTAL PRELOAD**
- (a) Using a torque wrench, measure the preload with the teeth of the drive pinion and ring gear in contact.
- (b) Using a torque wrench, measure the total preload.
- Total preload (at starting):**
Drive pinion preload plus 0.39 to 0.59 N*m (4.0 to 6.0 kgf*cm, 3.5 to 5.2 in.*lbf)
- If necessary, disassemble and inspect the differential.



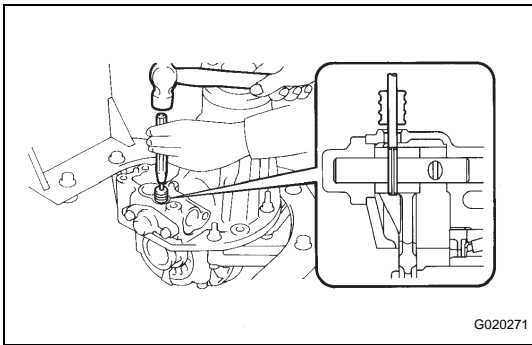
- 7. REMOVE DIFFERENTIAL LOCK SHIFT ACTUATOR**
- (a) Remove the 4 bolts and actuator from the differential carrier.
- (b) Remove the O-ring.



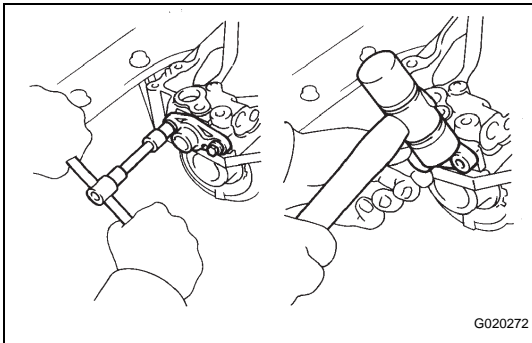
- 8. REMOVE NO.1 TRANSFER INDICATOR SWITCH**
- (a) Remove the indicator switch and gasket.



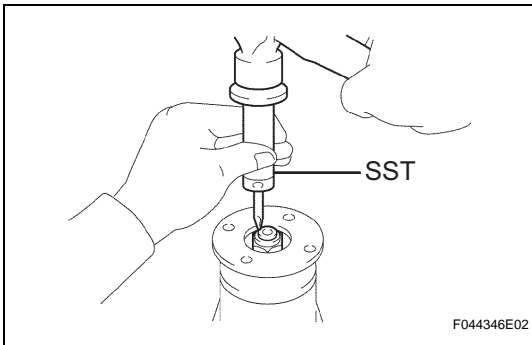
- 9. REMOVE REAR DIFFERENTIAL LOCK SHIFT FORK SHAFT**
- (a) Using a 6 mm hexagon wrench, remove the 2 screw plugs.
- (b) Remove the spring seat, spring and ball.



- (c) Using a 5 mm pin punch and hammer, remove the slotted pin.



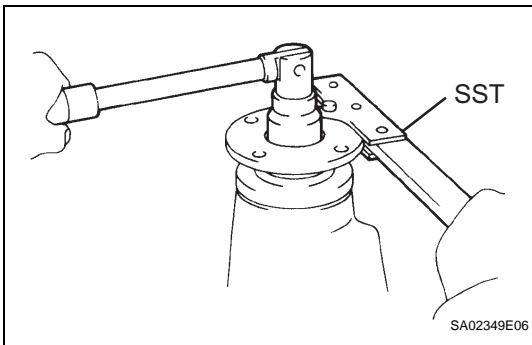
- (d) Remove the 2 bolts from the shaft retainer.
 (e) Using a plastic hammer, remove the shaft retainer.
 (f) Remove the shift fork shaft.



10. REMOVE REAR DRIVE PINION NUT

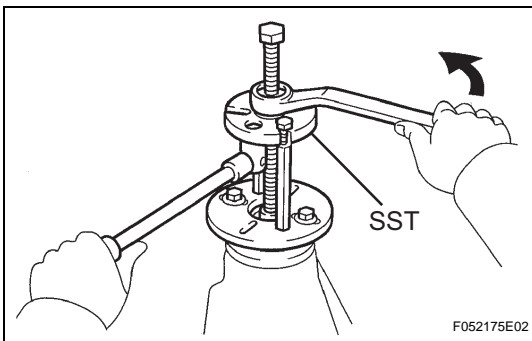
- (a) Using SST and a hammer, loosen the staked part of the nut.

SST 09930-00010



- (b) Using SST to hold the drive pinion companion flange, remove the nut.

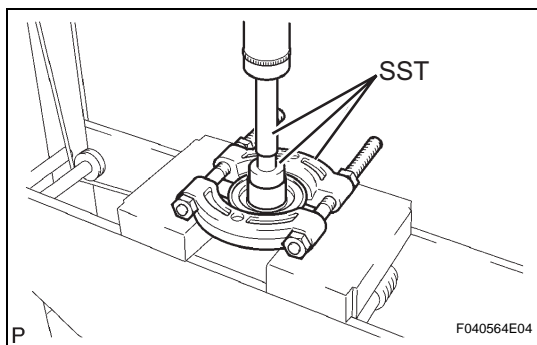
SST 09330-00021



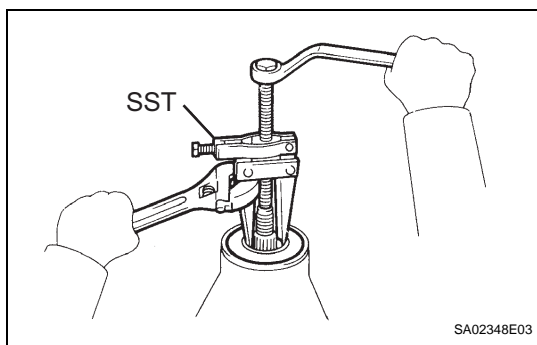
11. REMOVE REAR DRIVE PINION COMPANION FLANGE SUB-ASSEMBLY REAR

- (a) Using SST, remove the drive pinion companion flange.

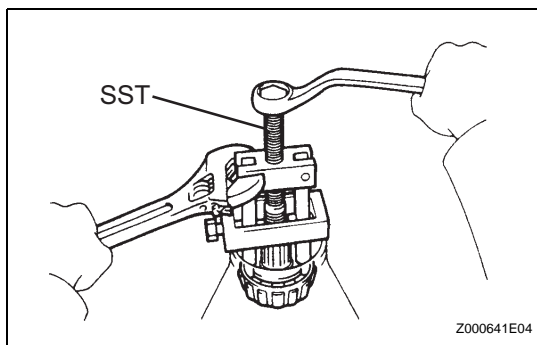
SST 09950-30012 (09951-03010, 09953-03010, 09954-03010, 09955-03030, 09956-03030)

**12. REMOVE REAR DIFFERENTIAL DUST DEFLECTOR**

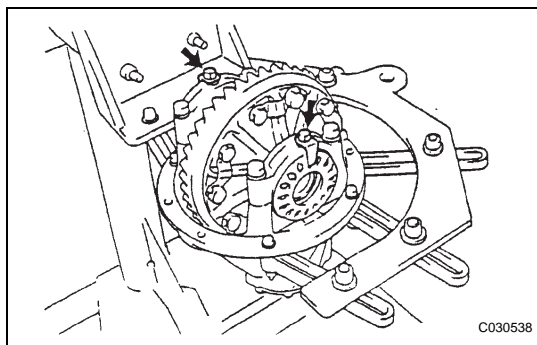
- (a) Using SST and a press, remove the dust deflector.
SST 09950-60010 (09951-00380), 09950-70010 (09951-07150), 09950-00020

**13. REMOVE REAR DIFFERENTIAL CARRIER OIL SEAL**

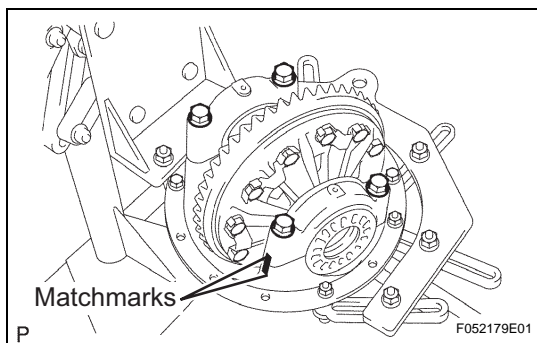
- (a) Using SST, remove the oil seal from the differential carrier.
SST 09308-10010

14. REMOVE REAR DIFFERENTIAL DRIVE PINION OIL SLINGER**15. REMOVE REAR DRIVE PINION FRONT TAPERED ROLLER BEARING**

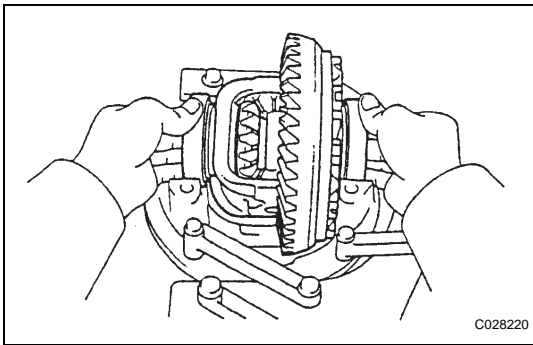
- (a) Using SST, remove the drive pinion tapered roller bearing from the drive pinion.
SST 09556-22010

**16. REMOVE REAR DIFFERENTIAL BEARING ADJUSTING NUT LOCK**

- (a) Remove the 2 bolts and 2 rear differential bearing adjusting nut locks.

**17. REMOVE DIFFERENTIAL CASE ASSEMBLY**

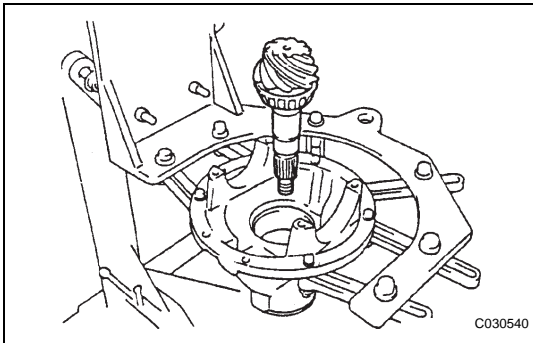
- (a) Place matchmarks on the bearing cap and differential carrier.
 (b) Remove the 4 bolts and 2 differential bearing caps.
 (c) Remove the 2 adjusting nuts.



- (d) Remove the rear differential case sub-assembly and 2 case bearings from the differential carrier.

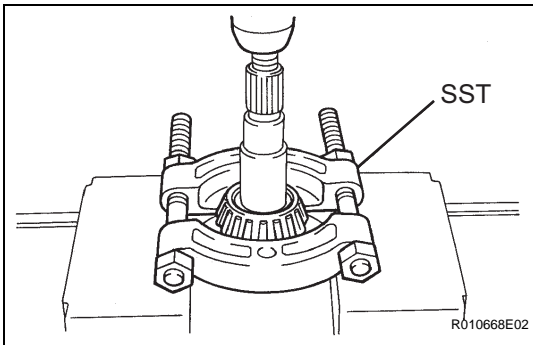
HINT:

Tag the 2 case bearings outer races to show the locations for reassembly.



18. REMOVE DIFFERENTIAL DRIVE PINION

- (a) Remove the differential drive pinion and bearing spacer from the differential carrier.



19. REMOVE REAR DRIVE PINION REAR TAPERED ROLLER BEARING

- (a) Using SST and a press, remove the drive pinion tapered roller bearing from the drive pinion.

SST 09950-00020

NOTICE:

Do not drop the drive pinion.

HINT:

If either the drive pinion or ring gear is damaged, replace them as a set.

20. REMOVE REAR DIFFERENTIAL DRIVE PINION PLATE WASHER

21. REMOVE REAR DRIVE PINION FRONT TAPERED ROLLER BEARING

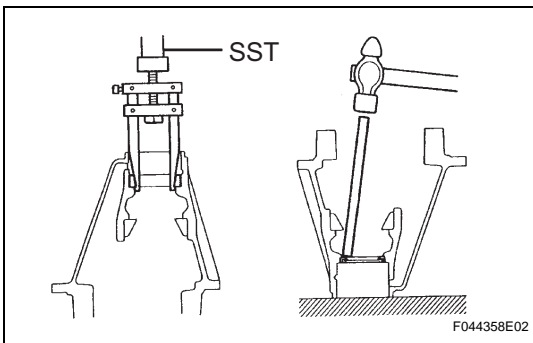
- (a) Using SST, remove the front tapered roller bearing from the carrier.

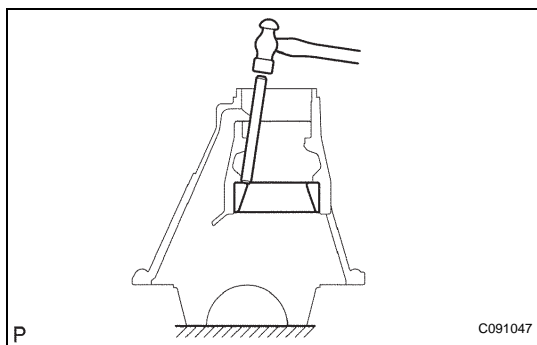
SST 09308-00010

- (b) Using a brass bar and a hammer, remove the oil storage ring from the carrier.

HINT:

If the bearing is damaged during the removal, replace it.



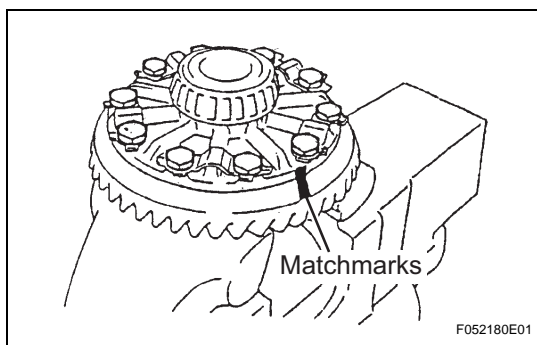


22. REMOVE REAR DRIVE PINION REAR TAPERED ROLLER BEARING

- (a) Using a brass bar and a hammer, remove the rear tapered roller bearing from the carrier.

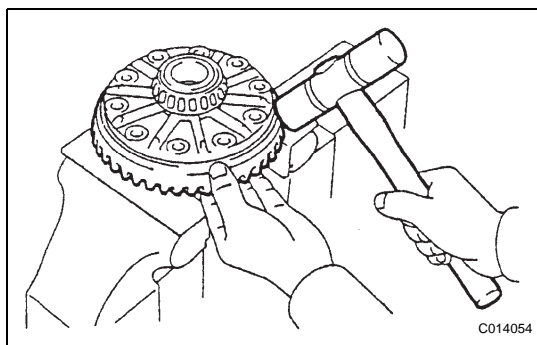
HINT:

If the bearing is damaged during the removal, replace it.

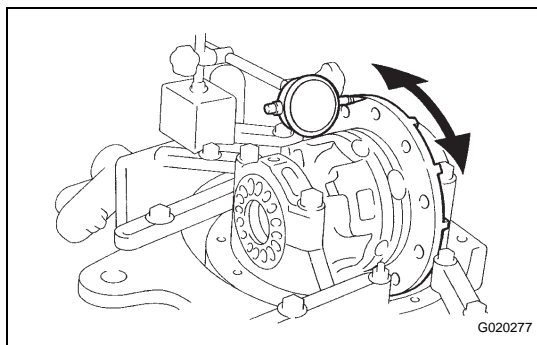


23. REMOVE DIFFERENTIAL RING GEAR

- (a) Place matchmarks on the ring gear and differential case.
- (b) Using a screwdriver and a hammer, unstake the lock plates.
- (c) Remove the 10 ring gear set bolts and 5 lock plates.



- (d) Using a plastic hammer, tap on the ring gear to separate it from the differential case.



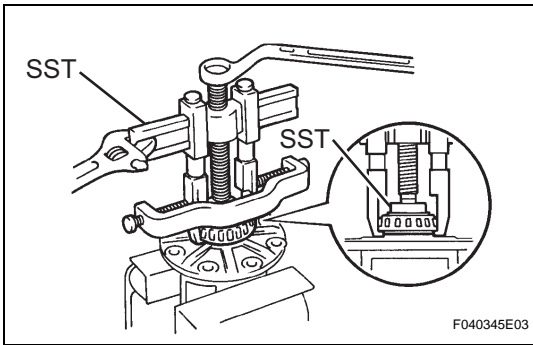
24. INSPECT DIFFERENTIAL CASE ASSEMBLY RUNOUT

- (a) Install the rear differential case bearing onto the differential case.
- (b) Install the differential case onto the differential carrier.
- (c) Install the 2 bearing caps and 4 bolts onto the differential carrier.
- Torque: 85 N*m (870 kgf*cm, 63 ft.*lbf)**
- (d) Inspect the differential case runout.

Maximum runout:

0.07 mm (0.0028 in.)

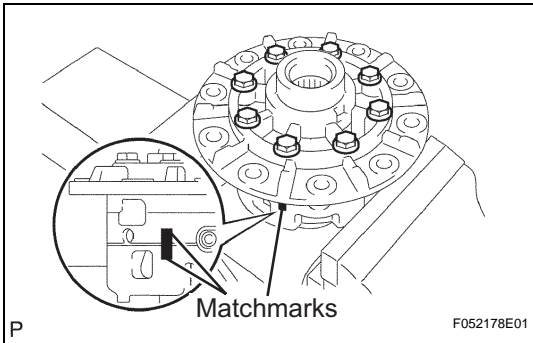
- (e) Remove the differential case.
- (f) Remove the rear differential case bearing.



25. REMOVE REAR DIFFERENTIAL CASE BEARING

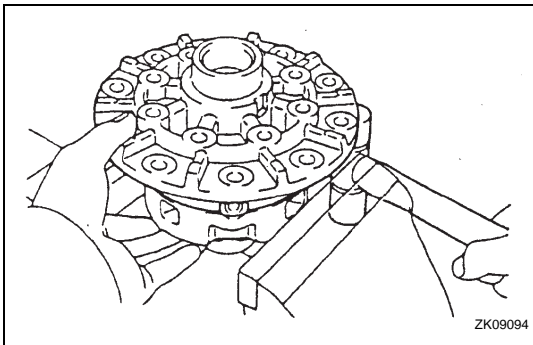
- (a) Using SST, remove the 2 rear differential case bearings from the differential case.

SST 09950-40011 (09951-04020, 09952-04010, 09953-04030, 09954-04010, 09955-04061, 09957-04010, 09958-04011), 09950-60010 (09951-00360)

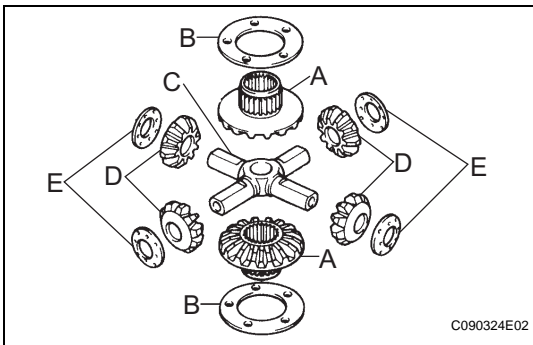


26. DISASSEMBLE DIFFERENTIAL CASE

- (a) Place matchmarks on the LH and RH cases.
- (b) Remove the 8 bolts.

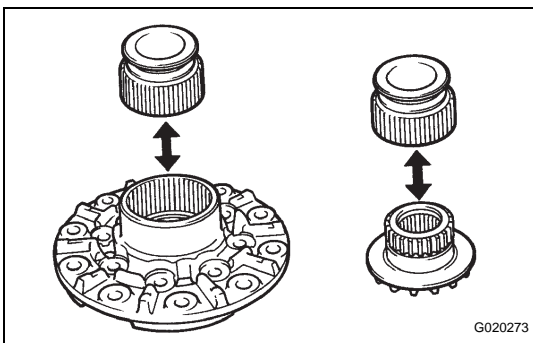


- (c) Using a plastic hammer, separate the LH and RH cases.



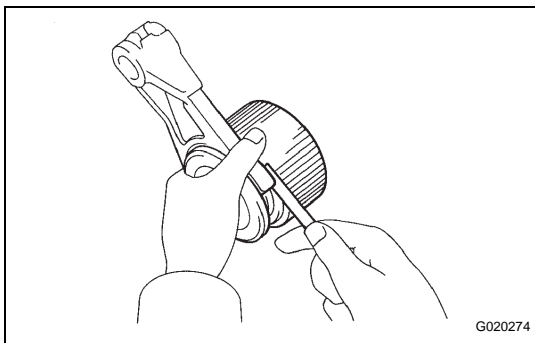
- (d) Remove these parts from the differential case.

A	Side gear
B	Side gear thrust washer
C	Spider
D	Pinion gear
E	Pinion gear thrust washer



27. INSPECT REAR DIFFERENTIAL LOCK SLEEVE

- (a) Install the sleeve onto the differential case (LH) and check that it moves smoothly.
- (b) Install the side gear onto the sleeve and check that it moves smoothly.



- (c) Using a feeler gauge, measure the clearance between the shift fork and sleeve.

Maximum clearance:

0.15 to 0.35 mm (0.0059 to 0.0138 in.)

28. INSPECT DIFFERENTIAL PINION AND SIDE GEAR

- (a) Check that there is no damage to the differential pinion and differential side gear.
If the differential pinion and/or differential side gear is damaged, replace the differential.

29. INSPECT DIFFERENTIAL CASE ASSEMBLY

- (a) Check that the differential case is not damaged.
If the differential case is damaged, replace the differential case.