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.

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<tr>
<td>A</td>
<td>Side gear</td>
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<td>B</td>
<td>Side gear thrust washer</td>
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<td>C</td>
<td>Spider</td>
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<td>D</td>
<td>Pinion gear</td>
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<tr>
<td>E</td>
<td>Pinion gear thrust washer</td>
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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.