FRONT DIFFERENTIAL CARRIER OIL SEAL

COMPONENTS

- FRONT DRIVE PINION COMPANION FLANGE NUT
- FRONT DRIVE PINION COMPANION FLANGE SUB-ASSEMBLY
- FRONT DIFFERENTIAL DUST DEFLECTOR
- FRONT DIFFERENTIAL CARRIER OIL SEAL
- FRONT DIFFERENTIAL DRIVE PINION OIL SLINGER
- FRONT DRIVE PINION REAR TAPERED ROLLER BEARING (INNER)
- FRONT DRIVE PINION REAR TAPERED ROLLER BEARING (OUTER)
- FRONT DIFFERENTIAL OIL STORAGE RING
- FRONT DIFFERENTIAL DRIVE PINION BEARING SPACER

N*m (kgf*cm, ft.*lbf) : Specified torque

- Non-reusable part
- MP grease

370 (3,770, 273) or less
REMOVAL

1. REMOVE NO. 1 ENGINE UNDER COVER (See page EM-6)

2. REMOVE REAR ENGINE UNDER COVER ASSEMBLY
   (a) Remove the 4 bolts, then remove the rear engine under cover.

3. REMOVE FRONT PROPELLER SHAFT ASSEMBLY
   (See page PR-2)

4. REMOVE FRONT DRIVE PINION COMPANION FLANGE NUT
   (a) Using SST and a hammer, loosen the staked part of the nut.
       SST  09930-00010
   (b) Using SST to hold the companion flange, remove the nut.
       SST  09330-00021 (09330-00030)

5. REMOVE FRONT DRIVE PINION COMPANION FLANGE SUB-ASSEMBLY
   (a) Using SST, remove the companion flange.
       SST  09950-30012 (09951-03010, 09953-03010, 09954-03010, 09955-03030, 09956-03020)
   NOTICE:
   Before using SST (center bolt), apply hypoid gear oil to its threads and tip.

6. REMOVE FRONT DIFFERENTIAL CARRIER OIL SEAL
   (a) Using SST, remove the oil seal.
       SST  09308-10010

7. REMOVE FRONT DIFFERENTIAL DRIVE PINION OIL SLINGER
8. REMOVE FRONT DRIVE PINION REAR TAPERED ROLLER BEARING
   (a) Using SST, remove the roller bearing (inner).
       SST 09556-22010
   (b) Using SST, tap out the roller bearing (outer).
       SST 09308-00010

9. REMOVE FRONT DIFFERENTIAL OIL STORAGE RING
   (a) Using a screwdriver and hammer, tap out the oil storage ring.

10. REMOVE FRONT DIFFERENTIAL DRIVE PINION BEARING SPACER

INSTALLATION
1. INSTALL FRONT DIFFERENTIAL DRIVE PINION BEARING SPACER
   (a) Install a new bearing spacer.
   HINT: Install the spacer in the correct direction.

2. INSTALL FRONT DIFFERENTIAL OIL STORAGE RING
   (a) Using a brass bar and hammer, tap in a new oil storage ring.
   NOTICE: Be careful not to damage the oil storage ring.

3. INSTALL FRONT DRIVE PINION REAR TAPERED ROLLER BEARING
   (a) Using SST and a hammer, install the roller bearing (outer).
       SST 09316-60011 (09316-00011, 09316-00021)
   (b) Install the roller bearing (inner).

4. INSTALL FRONT DIFFERENTIAL DRIVE PINION OIL SLINGER
5. INSTALL FRONT DIFFERENTIAL CARRIER OIL SEAL
   (a) Apply MP grease to the lip of a new oil seal.
   (b) Using SST and a hammer, tap in the oil seal.
      SST 09554-22010
      Oil seal depth: 3.9 to 4.8 mm (0.152 to 0.188 in.)

6. INSTALL FRONT DRIVE PINION COMPANION FLANGE SUB-ASSEMBLY
   (a) Using SST, install the companion flange.
      SST 09950-30012 (09951-03010, 09953-03010, 09954-03010, 09955-03030, 09956-03020)
      NOTICE:
      Before using SST (center bolt), apply hypoid gear oil to its threads and tip.
   (b) Using SST to hold the companion flange, install the nut.
      SST 09330-00021 (09330-00030)
      Torque: 370 N*m (3,770 kgf*cm, 273 ft.*lbf) or less

7. INSPECT DIFFERENTIAL DRIVE PINION PRELOAD
   (a) Using a torque wench, measure the preload.
      Preload (at starting)

<table>
<thead>
<tr>
<th>Item</th>
<th>Specified Condition</th>
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<tbody>
<tr>
<td>New bearing</td>
<td>0.98 to 1.57 N<em>m (10 to 16 kgf</em>cm, 8.7 to 13.9 in.*lbf)</td>
</tr>
<tr>
<td>Used bearing</td>
<td>0.49 to 0.78 N<em>m (5 to 8 kgf</em>cm, 4.3 to 6.9 in.*lbf)</td>
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If the result is not as specified, adjust the preload.

8. STAKE FRONT DRIVE PINION COMPANION FLANGE NUT
   (a) Using a chisel and hammer, stake the nut.

9. INSTALL FRONT PROPELLER SHAFT ASSEMBLY
   (See page PR-6)

10. ADD DIFFERENTIAL OIL (See page DF-3)

11. CHECK FOR DIFFERENTIAL OIL LEAKAGE

12. INSTALL REAR ENGINE UNDER COVER ASSEMBLY
    (a) Install the rear engine under cover with the 4 bolts.
        Torque: 29 N*m (296 kgf*cm, 21 ft.*lbf)

13. INSTALL NO. 1 ENGINE UNDER COVER (See page EM-7)