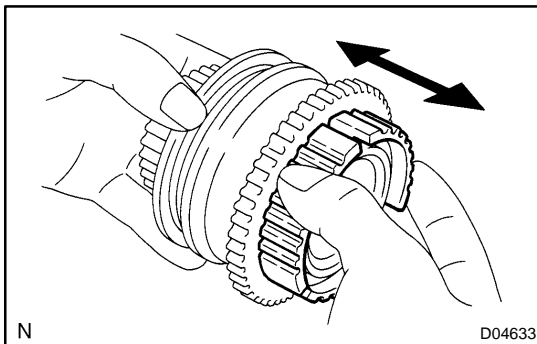


## INSPECTION

### 1. INSPECT HIGH AND LOW CLUTCH SLEEVE AND NO. 2 GEAR SHIFT FORK CLEARANCE

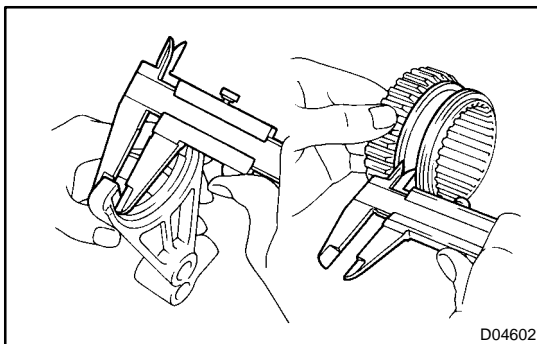
- (a) Using vernier calipers, measure the thickness of the No. 2 gear shift fork claw.  
**Thickness: 11.85 mm (0.4665 in.)**
- (b) Using vernier calipers, measure the groove of the high and low clutch sleeve.  
**Distance: 12.00 mm (0.4724 in.)**
- (c) Calculate a clearance between the high and low clutch sleeve and No. 2 gear shift fork clearance.  
**Standard clearance:**  
**0.15 - 0.35 mm (0.0059 - 0.0138 in.)**  
**Maximum clearance:**  
**0.35 mm (0.138 in.)**

If the clearance exceeds the maximum, replace the high and low clutch sleeve or No. 2 gear shift fork.



### 2. INSPECT CLUTCH HUB AND HIGH AND LOW CLUTCH SLEEVE

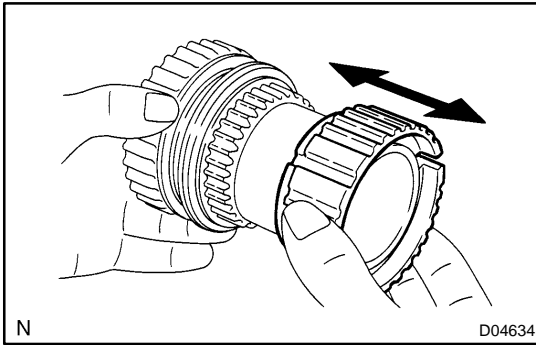
- (a) Check that the tip of the spline gear of the high and low clutch sleeve is not worn.
- (b) Install the high and low clutch sleeve to the clutch hub and check that the high and low clutch sleeve moves smoothly.



### 3. INSPECT CENTER DIFFERENTIAL LOCK SLEEVE AND CENTER DIFFERENTIAL LOCK FORK

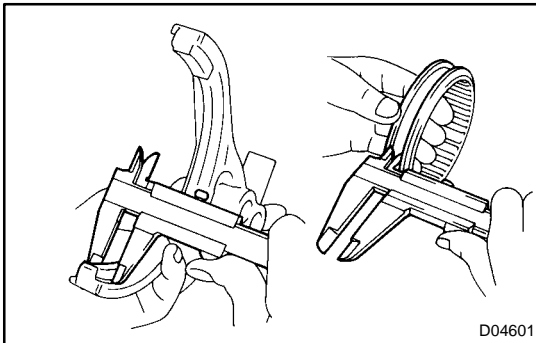
- (a) Using vernier calipers, measure the thickness of the center differential lock fork claw.  
**Thickness: 10.2 mm (0.4016 in.)**
- (b) Using vernier calipers, measure the groove of the center differential lock sleeve.  
**Distance: 10.5 mm (0.4134 in.)**
- (c) Calculate a clearance between the center differential lock sleeve and center differential lock fork.  
**Standard clearance:**  
**0.26 - 0.84 mm (0.0102 - 0.0331 in.)**  
**Maximum clearance:**  
**0.84 mm (0.0331 in.)**

If the clearance exceeds the maximum, replace the center differential lock sleeve or center differential lock fork.



#### 4. INSPECT CENTER DIFFERENTIAL LOCK SLEEVE AND CLUTCH HUB

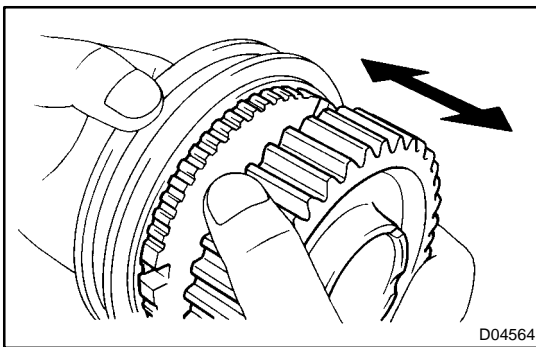
- Check that the tip of the spline gear of the center differential lock sleeve is not worn.
- Install the center differential lock sleeve to the clutch hub and check that the center differential lock sleeve moves smoothly.



#### 5. INSPECT FRONT DRIVE CLUTCH SLEEVE AND NO. 1 GEAR SHIFT FORK

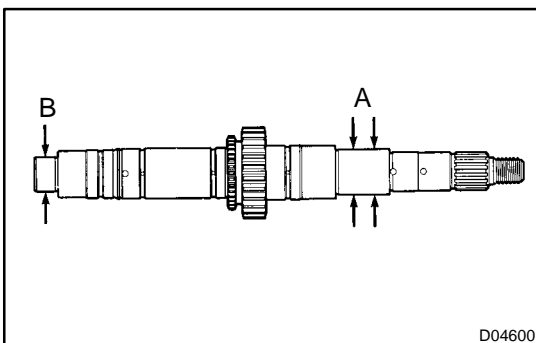
- Using vernier calipers, measure the thickness of the No. 1 gear shift fork claw.  
**Thickness: 11.85 mm (0.4665 in.)**
- Using vernier calipers, measure the groove of the front drive clutch sleeve.  
**Distance: 12.00 mm (0.4724 in.)**
- Calculate a clearance between the front drive clutch sleeve and No. 1 gear shift fork.  
**Standard clearance:**  
**0.15 - 0.35 mm (0.0059 - 0.0138 in.)**  
**Maximum clearance:**  
**0.35 mm (0.0138 in.)**

If the clearance exceeds the maximum, replace the front drive clutch sleeve or No. 1 gear shift fork.



#### 6. INSPECT DRIVE SPROCKET AND FRONT DRIVE CLUTCH SLEEVE

- Check that the tip of the spline gear of the front drive clutch sleeve is not worn.
- Install the front drive clutch sleeve to the drive sprocket and check that the front drive clutch sleeve moves smoothly.



#### 7. INSPECT REAR OUTPUT SHAFT

Using a micrometer, measure the outer diameter of the rear output shaft journal surface.

**Standard diameter:**

**Part A: 36.98 - 37.00 mm (1.4559 - 1.4567 in.)**

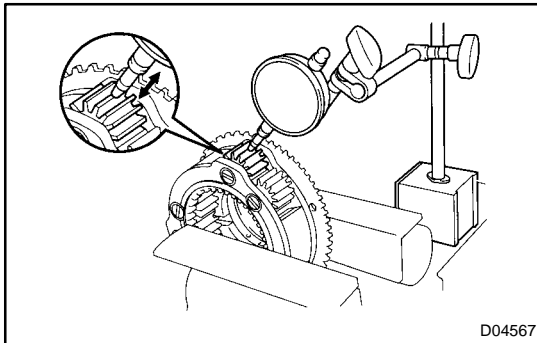
**Part B: 27.98 - 27.99 mm (1.1016 - 1.1020 in.)**

**Minimum diameter:**

**Part A: 36.98 mm (1.4559 in.)**

**Part B: 27.98 mm (1.1016 in.)**

If the outer diameter is less than the minimum, replace the rear output shaft.



#### 8. INSPECT CENTER DIFFERENTIAL PLANETARY GEAR RADIAL CLEARANCE

Using a dial indicator, measure the radial clearance of the pinion gear (outside and inside).

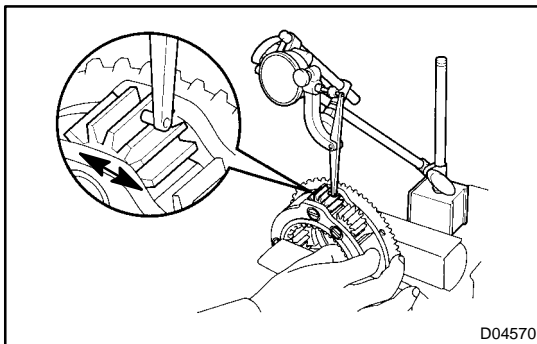
**Standard clearance:**

**0.01 - 0.04 mm (0.0004 - 0.0016 in.)**

**Maximum clearance:**

**0.04 mm (0.0016 in.)**

If the clearance exceeds the maximum, replace the center differential planetary gear.



#### 9. INSPECT CENTER DIFFERENTIAL PLANETARY GEAR BACKLASH

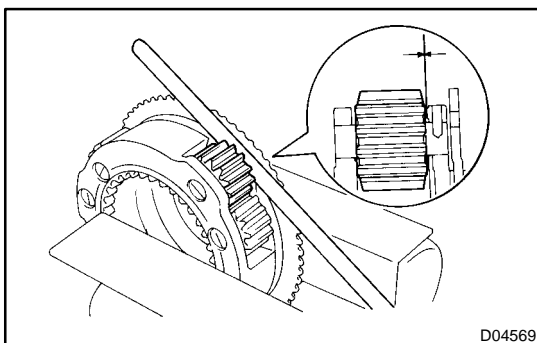
Using a dial indicator, set up the indicator to the tooth edge of the pinion gear (outside) perpendicularly then fix the pinion gear (inside), and inspect while moving the pinion gear (outside).

**Standard backlash:**

**0.01 - 0.04 mm (0.0004 - 0.0016 in.)**

**HINT:**

- Check at more than 3 points on the pinion gear.
- Do the same for the pinion gear.



#### 10. INSPECT CENTER DIFFERENTIAL PLANETARY GEAR THRUST CLEARANCE

Using a feeler gauge, measure the thrust clearance of the pinion gear.

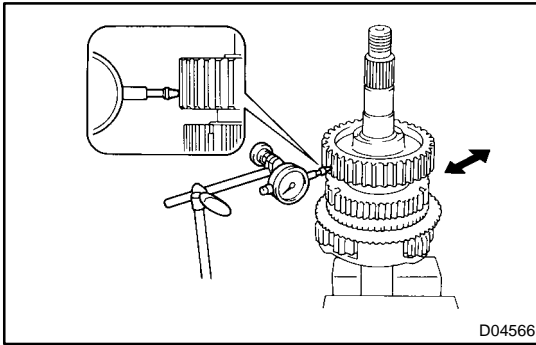
**Standard clearance:**

**0.15 - 0.70 mm (0.0059 - 0.0276 in.)**

**Maximum clearance:**

**0.70 mm (0.0276 in.)**

If the clearance exceeds the maximum, replace the center differential planetary gear.

**11. INSPECT DRIVE SPROCKET RADIAL CLEARANCE**

- (a) Install the center differential planetary gear to the rear output shaft and insert the drive sprocket via the needle roller bearing.
- (b) Using a dial indicator, measure the radial clearance of the drive sprocket.

**Standard clearance:****0.01 - 0.06 mm (0.0004 - 0.0024 in.)****Maximum clearance:****0.06 mm (0.0024 in.)**

If the clearance exceeds the maximum, replace the drive sprocket, rear output shaft or needle roller bearing.