2-6 BRAKE CLEARANCE MEASUREMENT/ADJUSTMENT

id051700664800

Preparation Before Servicing

1. Print out the measurement/adjustment value input sheet. (See MEASUREMENT/ADJUSTMENT VALUE INPUT SHEET.)

Note

- When performing the measurement/adjustment, input the measured and calculated values into the measurement/adjustment value input sheet.
- If the measurement/adjustment value input sheet has already been printed out for the other measurements/adjustments, use the sheet.

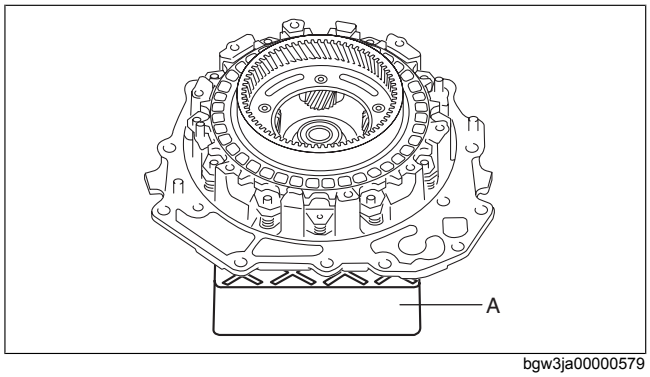
2-6 Brake Clearance Measurement

1. Set the end cover with the assembled part on the workbench as shown in the figure.

Caution

- **To reduce error during the 2-6 brake clearance measurement, use the rubber plates to adjust the alignment surface of the end cover with the transaxle case so that it is level.**

A : Rubber plate



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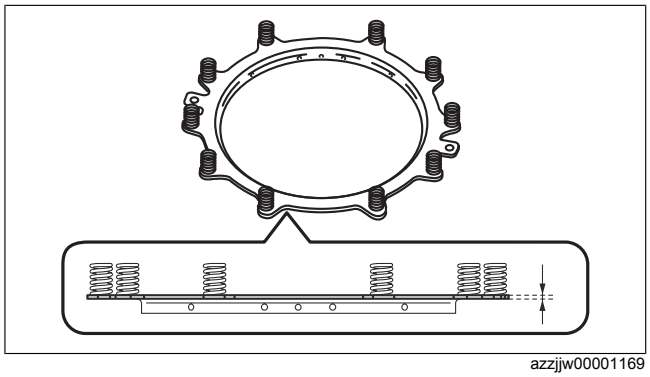
2. Measure the retainer thickness of the springs and retainer component.

Note

- Recommended measuring instrument: Micrometer
- Springs and retainer component size: Inner diameter approx. 150.6 mm {5.929 in}

3. Input the measured retainer thickness of the springs and retainer component into the measurement/adjustment value input sheet.



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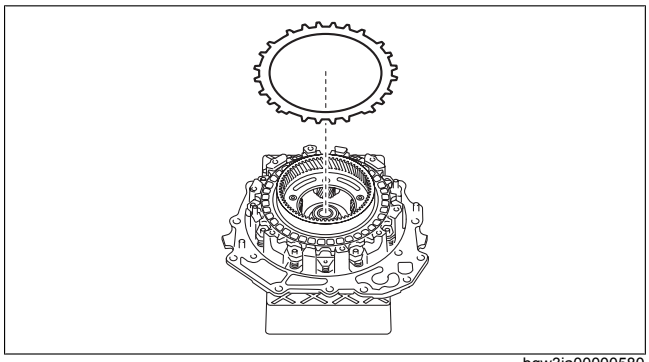
4. Assemble the retaining plate.

Note

- Retaining plate size: Inner diameter approx. 148 mm {5.83 in}



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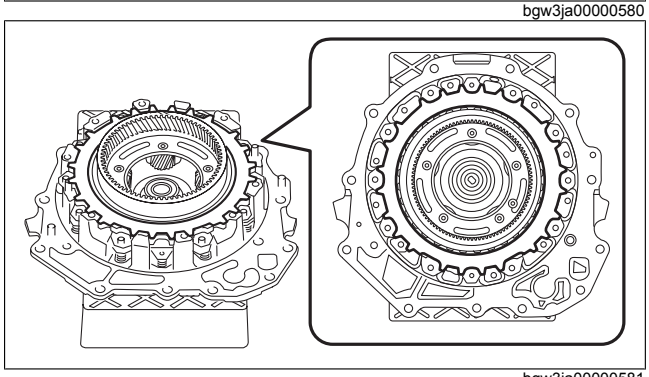

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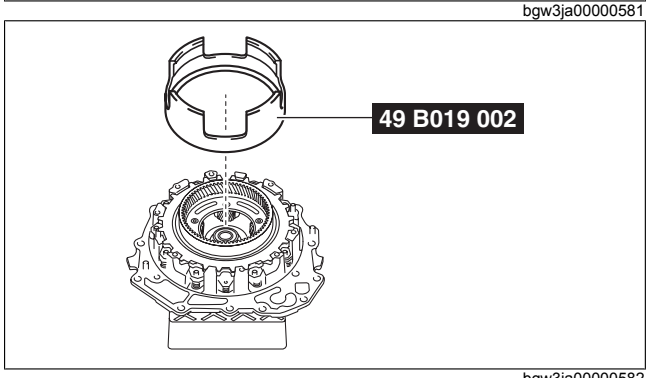
5. Install the SST.



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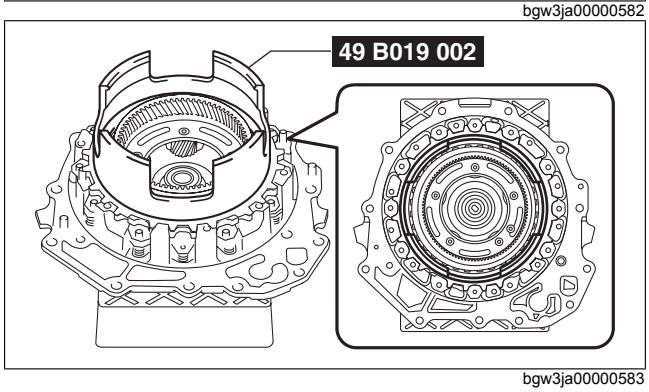

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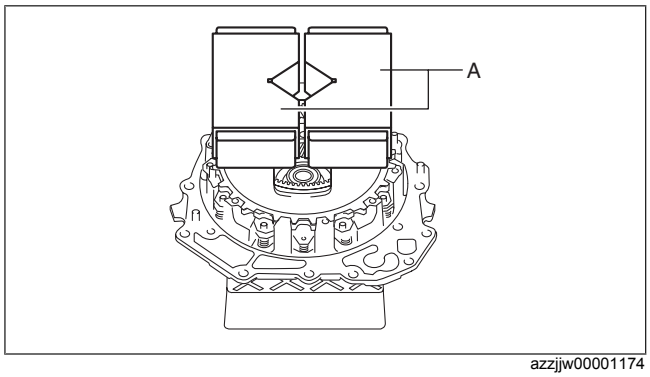
6. Place a 98—196 N {10.0—19.9 kgf, 23.0—44.0 lbf} weight on the SST.

Caution
- **To reduce error during the 2-6 brake clearance measurement, place the weight near the center of the SST.**

Note
- Use a V-block as a weight.

A : Weight (V-block)



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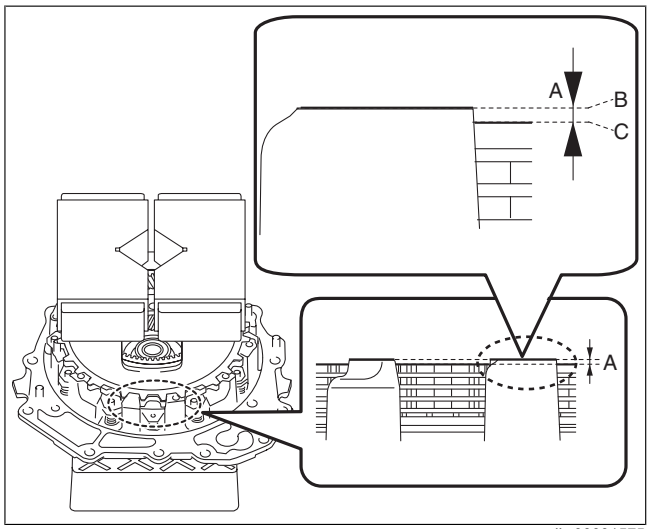
7. Measure distance A shown in the figure in four locations (each separated by 90°) and calculate the average value of distance A.

Note
- Recommended measuring instrument: Depth micrometer
- Measure the splines of the retaining plate using a depth micrometer.

A : Distance A
B : End cover end (alignment surface with brake housing)
C : Retaining plate end



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8. Input the measured distance A and calculated distance A average value into the measurement/adjustment value input sheet.
9. Perform the following calculation to calculate the 2-6 brake clearance.
   2-6 brake clearance = C - A
   A: Retainer thickness of springs and retainer component
   C: Average value of distance A

   Note
   Example
   A: Retainer thickness of springs and retainer component is 1.425 mm {0.05610 in}
   C: Average value of distance A is 2.665 mm {0.10492 in}
   2-6 brake clearance = 2.665 mm {0.10492 in} - 1.425 mm {0.05610 in} = 1.240 mm {0.04882 in}

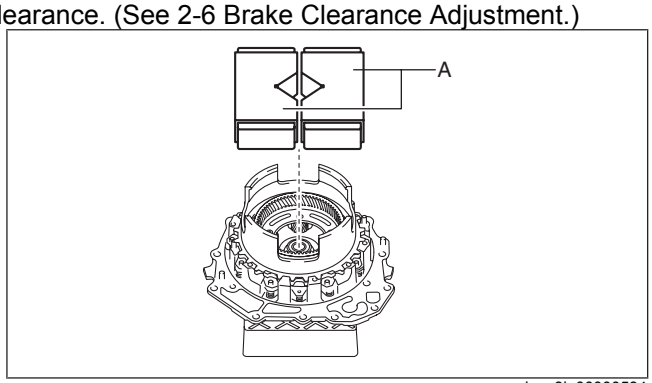
10. Input the calculated 2-6 brake clearance into the measurement/adjustment value input sheet.
11. Verify that the 2-6 brake clearance satisfies the specification.

Specification
1.000—1.200 mm {0.03938—0.04724 in}

- If not within the specification, adjust the 2-6 brake clearance. (See 2-6 Brake Clearance Adjustment.)

12. Remove the weight on the SST.

A : Weight (V-block)



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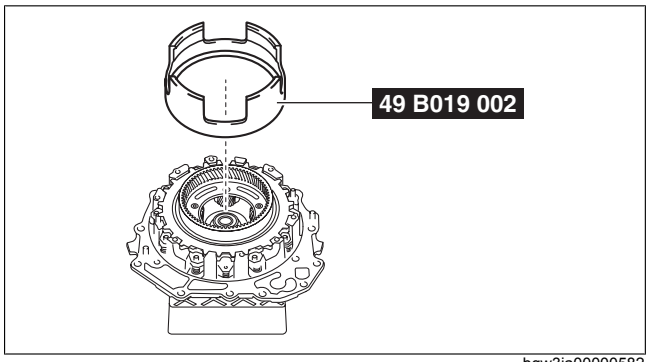
13. Remove the SST.



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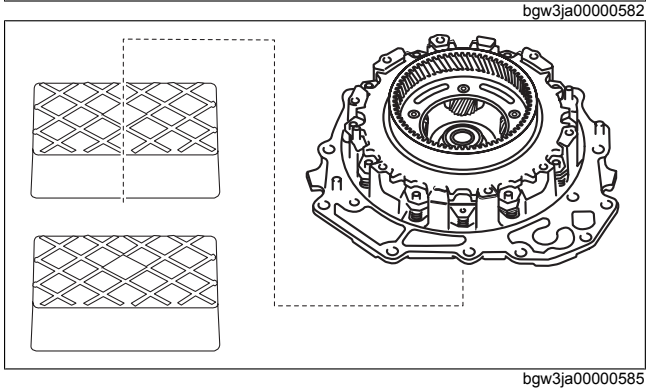
14. Take the end cover off the rubber plates.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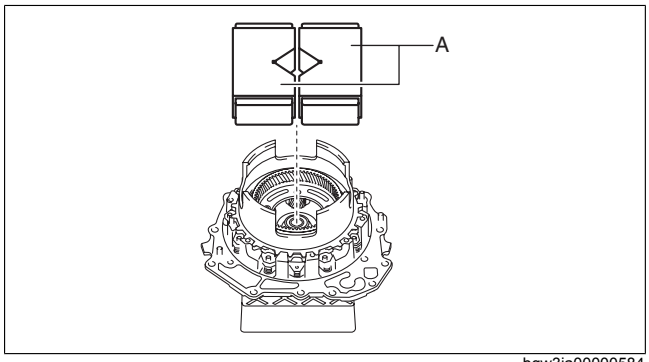
2-6 Brake Clearance Adjustment

1. Remove the weight on the SST.

A : Weight (V-block)



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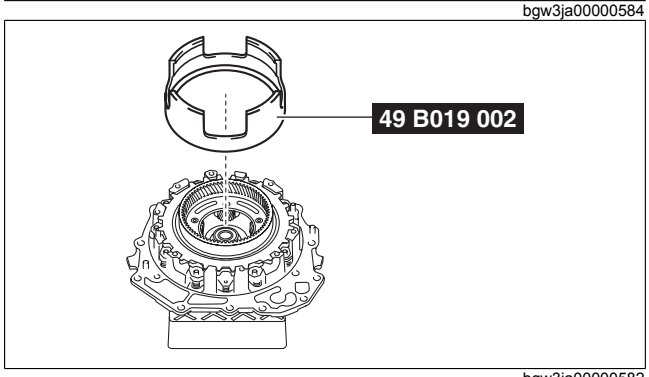
2. Remove the SST.



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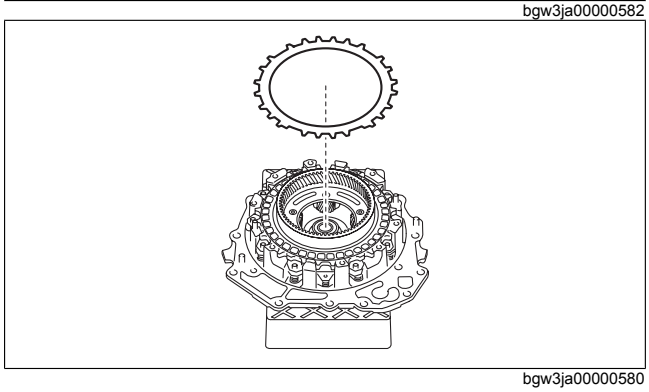
3. Remove the retaining plate.
4. Measure the thickness of the removed retaining plate.

Note
- Recommended measuring instrument: Micrometer

5. Input the measured retaining plate thickness into the measurement/adjustment value input sheet.
6. Select the appropriate retaining plate from the following table: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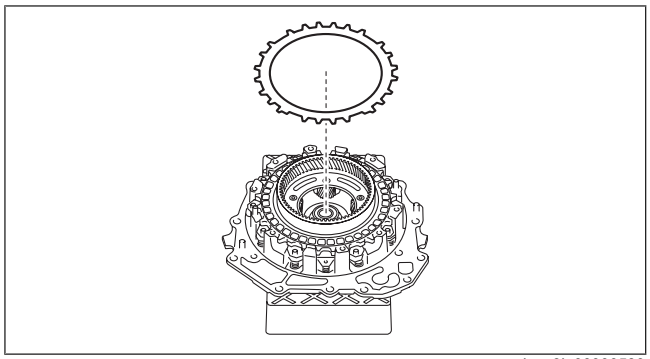
Range*	Selected retaining plate thickness
Exceeds 3.550 mm {0.1398 in}, 3.650 mm {0.1437 in} or less	2.5 mm {0.098 in}
Exceeds 3.450 mm {0.1358 in}, 3.550 mm {0.1398 in} or less	2.4 mm {0.094 in}
Exceeds 3.350 mm {0.1319 in}, 3.450 mm {0.1358 in} or less	2.3 mm {0.091 in}
Exceeds 3.250 mm {0.1280 in}, 3.350 mm {0.1319 in} or less	2.2 mm {0.087 in}
Exceeds 3.150 mm {0.1240 in}, 3.250 mm {0.1280 in} or less	2.1 mm {0.083 in}
Exceeds 3.050 mm {0.1201 in}, 3.150 mm {0.1240 in} or less	2.0 mm {0.079 in}
Exceeds 2.950 mm {0.1161 in}, 3.050 mm {0.1201 in} or less	1.9 mm {0.075 in}
Exceeds 2.850 mm {0.1122 in}, 2.950 mm {0.1161 in} or less	1.8 mm {0.071 in}
Exceeds 2.750 mm {0.1083 in}, 2.850 mm {0.1122 in} or less	1.7 mm {0.067 in}

* : The range is the sum of the 2-6 brake clearance and the thickness value of the removed retaining plate.

Range = D + G
D: 2-6 brake clearance
G: Thickness of removed retaining plate

Note
Example
D: 2-6 brake clearance is 1.240 mm {0.04882 in}
G: Thickness of removed retaining plate is 2.015 mm {0.07933 in}
Range = 1.240 mm {0.04882 in} + 2.015 mm {0.07933 in} = 3.255 mm {0.12815 in}, a retaining plate of 2.2 mm {0.087 in} thickness should be selected.

7. Assemble the selected retaining plate.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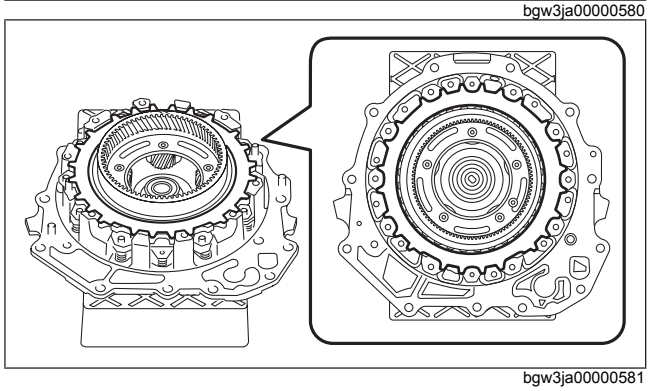
8. Perform the 2-6 brake clearance measurement from Step 5. (See 2-6 Brake Clearance Measurement.)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