

Brake Rotor Measurement

Meets NATEF Task: (A5-D-5) Clean, inspect, and measure rotor thickness, lateral runout, and thickness variation; determine necessary action. (P-1)

Name _____ Date _____ Time on Task _____

Make/Model/Year _____ VIN _____ Evaluation: 4 3 2 1

_____ 1. Visually inspect the brake rotor for:

- hard spots **OK** _____ **NOT OK** _____ (requires replacement)
- excessive rust **OK** _____ **NOT OK** _____
- deep grooves (over 0.060" deep) **OK** _____ **NOT OK** _____

_____ 2. Check the service information and determine the specifications and measurements for thickness.

Minimum thickness = _____

Machine-to-thickness = _____

Actual thickness = _____ **OK** _____ **NOT OK** _____

_____ 3. Determine the specifications for thickness variation (parallelism).

_____ 4. Using a micrometer, measure the thickness at four or more locations around the rotor to determine the thickness variation (parallelism). (Usually 0.0005" or less difference in the readings.)

A. _____ C. _____ E. _____

B. _____ D. _____ F. _____

_____ **OK** _____ **NOT OK** _____

_____ 5. Use a dial indicator and measure the runout of the rotor.

Runout = _____ (should be less than 0.005 in.)

OK _____ **NOT OK** _____

_____ 6. Based on the measurements and manufacturer's recommendations, should the rotor be replaced or machined? Why? _____

