

Machining a Brake Rotor Meets NATEF Task: (A5-D-9) Refinish rotor off the vehicle; measure final rotor thickness.

(P-1)

Name	Date	Time on Task	
Make/Model/Year	VIN	Evaluation: 4 3 2 1	
1. Carefully inspect the rotor	for hot spots or damage.		
OK NOT O	K (requires replaceme	ent of the rotor)	
2. Determine minimum rotor	thickness = or mac	chine to thickness =	
3. Measure the rotor thicknes	s = OK to machine_	NOT OK to machine	
4. Clean the brake lathe spino	lle.		
5. Select the proper tapered cover and/or collets to properly			
secure the rotor to the lath	e spindle.		
6. Install the self-aligning spa	ng spacer (SAS) and		
tighten the spindle nut.	tighten the spindle nut.		
7. Install the silencer band (noise damper).			
8. Perform a scratch test.	8. Perform a scratch test.		
9. Stop the lathe and loosen t	he spindle nut.		
10. Rotate the rotor 180° (one-	half turn) and tighten the spir	ndle nut.	
11. Perform another scratch cu	t. If the second scratch cut is	s in the same location as the	
first scratch cut or extends	completely around the rotor,	the machining of the rotor can	
continue. (If the second sc	ratch cut is 180 from the first	t scratch cut, remove the rotor	
and clean the spindle and a	ttaching hardware. Repeat th	ne scratch test.)	
12. Machine the rotor removin	g as little material as possible	2.	
13. Measure the rotor with a m	icrometer to be sure rotor thi	ckness is still within limits.	
14. Use 150 grit aluminum oxi	de sandpaper on a block of w	rood for 60 seconds on each	
side or a grinder to provide	a smooth nondirectional fini	sh.	
15. Thoroughly clean the rotor	friction surface.		
16 . Remove the rotor from the	lathe.		