

Student Tracker

Brakes Competency (BR)

Name: _____

Class: _____

Please complete the following competencies using the proper procedures, service information, and tools. Be prepared to explain to the teacher what you did. After completion of each competency, your teacher will initial next to each number.

Vehicle Year/Make/Model: _____

1. Research any brake related TSB's on your chosen vehicle. List the date and title of each TSB:
2. Describe the purpose of the following components of a brake system (showing the teacher the location of each component will receive a score 10 if everything else is satisfied). Use another sheet of paper if necessary.

Brake Booster

Master Cylinder

Reservoir

Brake Line

Brake warning light (on instrument panel)

Brake lights (which bulbs are they and are they working properly?)

High Center Mount Brake Light

Disc: Brake caliper

Brake pads

Brake rotor

Drum: Brake wheel cylinder

Brake shoes

Brake drum

3. Research the following:

Type of brake fluid: _____

What is the service schedule for the brake fluid: _____

Brake pad minimum thickness: _____

Rotor discard thickness: _____

Maximum rotor runout: _____

Brake caliper (or caliper mount) bolt torque: _____

Wheel lug nut torque: _____

4. Demonstrate how to remove and re-install the brake calipers, brake pads, and brake rotor on a disc brake system (torquing everything down to proper specification). Remove the brake caliper (do not unhook the brake line), brake pads and brake rotor and take the following measurements. Look up the procedure in AllData (how to change brake pads).

Brake pad thickness: Inside: _____ Outside: _____

Rotor thickness (4 spots): _____

Rotor runout: _____

5. Using your measurements in #4 would you keep or discard the following and why:

Brake pads:

Rotor:

6. Demonstrate how to verify the brake fluid level and bleed brakes. Bleed the brakes on the group's vehicle according to manufacturer's specifications by looking up the procedure in AllData (the teacher will crack open the brake line; the student must re-install and bleed the brakes).