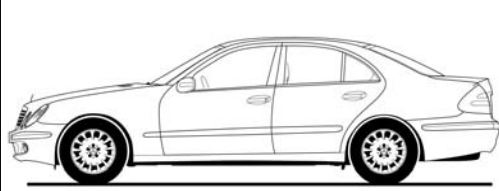




Mercedes-Benz

Name \_\_\_\_\_



Skill Module Number: 4-1

Subject: SBC Familiarization

Objective:

- At the conclusion of the module you will be able to explain the operation of the SBC brake system.

Vehicle and tools required:

- W211 vehicle

Required material:

- SBC Presentation handout

Instructions:

1. Follow the instructions and answer the questions.
2. Ask your instructor if assistance is needed.
3. Stop at Instructor checkpoints for sign-off.

1. The SBC control module wakes up whenever you open a door, operate the remote central locking system, or depress the brake pedal.
2. Does the instrument cluster display a message that it has performed the above operation? \_\_\_\_\_
3. Depress the brake pedal with the engine off. Does it feel like a normal brake pedal? \_\_\_\_\_
4. Depress the brake pedal several times with the engine running. Does it feel like a normal brake pedal? \_\_\_\_\_
5. Shut off engine.
6. Depress the brake pedal several times slowly. Do you hear a noise? \_\_\_\_\_
7. The noise that you hear is the SBC high-pressure charge pump charging the SBC accumulator.
8. Ask the instructor to disconnect the SBC control unit (A7/3).
9. Are there any warnings in the instrument cluster? \_\_\_\_\_
10. Depress the brake pedal several times with the engine off. Does it feel like a normal brake pedal? \_\_\_\_\_
11. Reconnect the SBC control unit. Start the engine, are there any SBC related warnings displayed in the instrument cluster? \_\_\_\_\_
12. Examine the "Brake Operating Unit reservoir". (Be careful removing the UV cover.)
13. What type of brake fluid is used? \_\_\_\_\_
14. Is there a brake booster? \_\_\_\_\_

**Instructor checkpoint.** \_\_\_\_\_

15. Note the differences between a SBC brake fluid reservoir and a non-SBC reservoir.

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. Return brake line on top of brake fluid reservoir (Note: When you release the brake pedal this is how the brake fluid is returned to the brake fluid reservoir).

16. Replace the UV cover.

If you have noticed any parts that need to be replaced on this vehicle, please inform your instructor now.

**Instructor check point** \_\_\_\_\_