

2022 CHEVROLET CORVETTE SERVICE MANUAL

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Automated Brake Bleed

Warning:

Brake Dust Warning

Warning:

Brake Fluid Irritant Warning

Caution:

Brake Fluid Effects on Paint and Electrical Components Caution

Note:

The automated brake bleed procedure is recommended when one of the following conditions exist:

- Base brake system bleeding does not achieve the desired pedal height or feel
- Extreme loss of brake fluid has occurred
- Air ingestion is suspected in the secondary circuits of the brake modulator assembly

The Automated Brake Bleed Procedure uses a scan tool to cycle the system solenoid valves and run the pump in order to purge any air from the secondary circuits. These circuits are normally closed off, and are only opened during system initialization at vehicle start up and during brake operation. The automated brake bleed procedure opens these secondary circuits and allows any air trapped in these circuits to flow out toward the brake corners.

Performing the Automated Brake Bleed Procedure

1. Before performing the Automated Brake Bleed Procedure, first perform a pressure bleed of the base brake system. Hydraulic Brake System Bleeding
2. Reset the restraints control module. Control Module References
3. Caution:

The Auto Bleed Procedure may be terminated at any time during the process by pressing the EXIT button. No further Scan Tool prompts pertaining to the Auto Bleed procedure will be given. After exiting the bleed procedure, relieve bleed pressure and disconnect bleed equipment per manufacturers instructions. Failure to properly relieve pressure may result in spilled brake fluid causing damage to components and painted surfaces.

4. Raise and support the vehicle. Lifting and Jacking the Vehicle
5. Remove all four tire and wheel assemblies. Tire and Wheel Removal and Installation
6. Inspect the brake system for leaks and visual damage. Repair or replace components as needed.
7. Lower the vehicle.
8. Inspect the battery state of charge. Battery Inspection/Test
9. Install a scan tool.
10. Place ignition into service mode.
11. With the scan tool, establish communications with the ABS system. Select Control Functions. Select Automated Brake Bleed from the Control Functions menu.

12. Wait 2 minutes with the key on engine off and moderately apply the brake pedal (3/4 applied) and hold for 120 seconds maximum or until the red brake light goes out.
13. Raise and support the vehicle. Lifting and Jacking the Vehicle
14. Following the directions given on the scan tool, run the GDS "brake hydraulic test. If it fails, bleed the brake system. Hydraulic Brake System Bleeding
15. Remove the scan tool.
16. Install all four tire and wheel assemblies. Tire and Wheel Removal and Installation
17. Remove the support and lower the vehicle.
18. Inspect the brake fluid level. Brake Master Cylinder Reservoir Filling
19. Road test the vehicle while inspecting that the pedal remains high and firm.

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