

▶ TASK Check brake pedal travel with, and without, engine running to verify proper power booster operation.



Time off _____

Time on _____

Total time _____

CDX Tasksheet Number: C807

1. Research the power booster description, operation, and testing procedure in the appropriate service information.
 - a. **Type of vacuum supply used: Manifold:** _____
Auxiliary pump: _____
 - b. **Minimum vacuum at power booster:** _____ in.hg
 - c. **Minimum time power booster should hold vacuum:** _____ minutes

2. Test the ability of the power booster to provide assist.
 - a. Without starting the vehicle, depress the brake pedal several times. This removes any vacuum from the brake booster. Hold moderate foot pressure on the brake pedal and start the engine.
 - i. **List the brake pedal action:**

 - ii. **Is the power booster working properly? Yes:** _____
No: _____
 - b. If the power booster is not working properly, follow the service manual procedure to determine the cause. **List any necessary action(s):**

3. Test the ability of the power booster to hold a vacuum.
 - a. Without starting the vehicle, depress the brake pedal several times. This removes all vacuum from the brake booster and allows you to feel the brakes without vacuum assist.
 - i. **Approximately how far down does the brake pedal go with moderate foot pressure w/o assist?** _____ in/mm
 - b. With your foot off the brake pedal, start the engine, wait a few seconds, and depress the brake pedal once. This allows you to feel the brakes with power assist. This is how the brake pedal should respond if the power booster is holding vacuum properly.
 - i. **Approximately how far down does the brake pedal travel with moderate foot pressure with assist?** _____ in/mm
 - c. Remove your foot from the brake pedal, turn off the engine, and wait the specified time the power booster should hold vacuum listed above.

- d. After waiting the designated time, and without starting the vehicle, depress the brake pedal once and observe whether the brake pedal travel was the same as in step 3b, indicating the power booster is holding vacuum.

List your observations:

- e. If the brake pedal responded as in step 3b, no further inspection of the booster is needed.
 - f. If the brake pedal responded as if it had no vacuum assist (as in 3a), the power booster has a leak, which will need to be diagnosed.
4. Have your supervisor/instructor verify satisfactory completion of this procedure, any observations found, and any necessary action(s) recommended.

Performance Rating

CDX Tasksheet Number: C807

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Supervisor/instructor signature _____ Date _____