

► TASK Check master cylinder for internal/external leaks and proper operation; determine needed action.

MAST
5B3

CDX Tasksheet Number: C704

Time off	_____
Time on	_____
Total time	_____

1. Research the description and operation of the brake system for this vehicle in the appropriate service information. Also research the master cylinder diagnostic procedure and removal/installation procedures.
 - a. Master cylinder pushrod length: _____ in/mm
 - b. Master cylinder nut/bolt torque: _____ ft/lb or N·m
2. Inspect the master cylinder for external leaks.
 - a. Check the brake fluid level in the reservoir. Record your reading here:

 - b. Inspect the master cylinder for obvious signs of leakage. Be sure to check all brake line fittings, sensor connections, reservoir seal(s), and the areas at the rear of the master cylinder near the seal. Also check the inside of the vacuum hose to the power booster.

NOTE If fluid is found on the inside of the hose, the rear seal in the master cylinder may be leaking fluid into the booster.

c. List your observations:

2. Check the master cylinder for proper operation.
 - a. Start the vehicle, apply the brake pedal beginning with a very light pressure, and gradually increasing the pressure. The brake pedal should hold its position with very little travel beyond its applied height. If the pedal continues to sink, the system may have an external or internal leak. Do this test several times with various pedal pressures and time elements. Be sure you hold foot pressure on the system for at least one minute.
 - b. List your observations:
3. Inspect the master cylinder for internal leaks.
 - a. Remove the master cylinder reservoir cap.
 - b. Have an assistant apply the brake pedal firmly and hold it. Watch the fluid in the reservoir; it should have an initial spurt of fluid from each of the two compensating ports as the brake pedal is first moved.

NOTE The brake fluid level should not rise in the reservoir as the brake pedal is held down. If it does, this indicates an internal leak in one or more of the master cylinder seals and it will need to be serviced. On quick take-up type master cylinders, the quick take-up valve vents excess fluid to the rear half of the reservoir.

c. List your observations:

4. Determine any necessary action(s):

5. Have your supervisor/instructor verify satisfactory completion of this procedure, any observations found, and any necessary action(s) recommended.

Performance Rating

CDX Tasksheet Number: C704

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Supervisor/instructor signature _____ Date _____