



ZW09100 PNEUMATIC BRAKE MACHINE JOB AID

For Support or Questions Please Contact Our Tech Hotline: 800-255-8138

Video Instruction:

- For video Instructions please scan the QR code.



Safety Recommendations:

- Safety glasses and gloves should be worn during the service.
- Before beginning the service, inspect the vehicle's brake system for leaks.
- Before beginning the service, make sure the brake bleeders are not frozen shut.
- After the service, double check for leaks.
- Road test the vehicle to test the braking system.



Prepare the Machine:

- Verify new fluid reservoir is empty of brake fluid.

CAUTION:

- Brake fluid is hygroscopic (absorbs moisture from the air and/or shop air lines). Do not start the service without checking for the possibility of contaminated brake fluid.
- If new fluid reservoir contains brake fluid, refer to "purge the new fluid reservoir", to empty reservoir prior to service.
- Maintain air compressor maintenance to eliminate water from shop air hoses.



Prepare the Machine (continued):

- Verify fluid control valve at the end of the service hose is closed.
- Attach shop air hose to nipple on front of the machine.
- Verify the tube pressure gauge is at 0 psi. Adjust to 0 psi if needed.
- Depress the air pressure relief valve on top of the fluid fill cap on the new fluid reservoir to release any pressure.





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Prepare the Machine (continued):

- Remove the fluid fill cap and fill reservoir with brake fluid, up to 64 ounces.
- Replace the fluid fill cap and hand tighten.



Evacuate Vehicle's Master Cylinder:

- Flip the vacuum switch to the "On" position.
- Increase the vacuum pressure gauge to 20 psi.



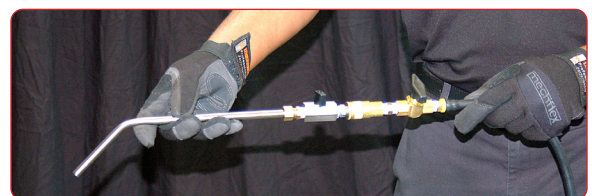
Evacuate Vehicle's Master Cylinder (continued):

- Remove the brake master cylinder reservoir cap and remove any filters or strainers.
- Insert the clear flexible suction hose and empty the brake master cylinder reservoir.
- Flip the vacuum switch to the "Off" position, when brake master cylinder reservoir is empty.



Filling the Vehicle's Master Cylinder Reservoir:

- Attach fill wand to the service hose.



Filling the Vehicle's Master Cylinder Reservoir (continued):

- Adjust the tube pressure gauge to 12 psi.
- Insert the wand into the master cylinder reservoir, turn the fluid control valve to "On" and fill the reservoir to the "Full" or "Max" line.
- Turn the fluid control valve to "Off".





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Preparing the Vehicle:

- Locate the correct adapter by using the adapter chart.
- Attach the correct adapter to the master cylinder reservoir.



Preparing the Vehicle (continued):

- Attach the service hose to the master cylinder adapter.



Performing the Brake Service:

- Adjust the tube pressure gauge to the manufacturer's specification. 12 psi is normal for most vehicles. Hybrid vehicles may require up to 40 psi.
- Turn the fluid control valve on the service hose to the "On" position.



Performing the Brake Service (continued):

- Lift the vehicle to access the brake bleeders.



Performing the Brake Service (continued):

- Turn vacuum switch to the "On" position.
- Adjust vacuum pressure gauge to match the tube pressure gauge.



Performing the Brake Service (continued):

- Push the clear flexible suction hose over the brake bleeder, open the bleed screw ¼ turn to allow for brake fluid to flow.
- Tighten the bleed screw when new fluid appears in clear suction hose.
- Repeat process for each wheel.





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Performing the Brake Service (continued):

- When all wheels have been serviced, turn the vacuum switch to the "Off" position and adjust the vacuum pressure gauge to 0 psi.



Performing the Brake Service (continued):

- Close the fluid control valve on the service hose.
- Adjust the tube pressure gauge to 0 psi.
- Depress the pressure relief valve on the new fluid reservoir to release pressure in the system.
- Remove adapter from master cylinder reservoir.



Completing the Brake Service:

- Adjust fluid level in the master cylinder reservoir to appropriate level.
- Refer to "Evacuating" or "Filling" the vehicle's master cylinder reservoir steps.
- Install master cylinder cap.
- Check for leaks.
- Road test.



Purge New Fluid Reservoir:

- Adjust the tube pressure gauge to 12 psi.
- Attach fill wand to service hose.
- Insert the fill wand into an approved disposal container and open the fluid control valve on the service hose.
- Close fluid control valve, when new fluid reservoir is empty.
- Adjust the tube pressure gauge to 0 psi.
- Depress the pressure relief valve on the new fluid reservoir to release pressure in the system.
- Disconnect shop air hose.

