

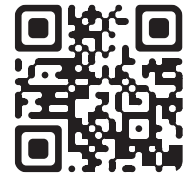


ZW30010 VACUUM COOLANT MACHINE JOB AID

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

Video Instruction:

- For video Instructions please scan the QR code.



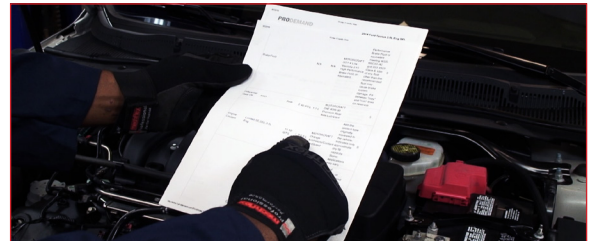
Safety Recommendations:

- Use extreme safety measures when working on a hot cooling system.
- Always wear safety glasses.
- Never remove the radiator cap from a hot or pressurized system.
- It is a good idea to wear insulated gloves.



Prepare the Machine:

- Look up the type and quantity of coolant for the vehicle in a coolant specification guide, electronic data base or other source.
- Fill the new fluid tank with the appropriate solution of antifreeze (coolant/water).



Prepare the Machine (continued):

- Attach shop air hose to nipple on front of the machine.
- Adjust air pressure to 85 psi.



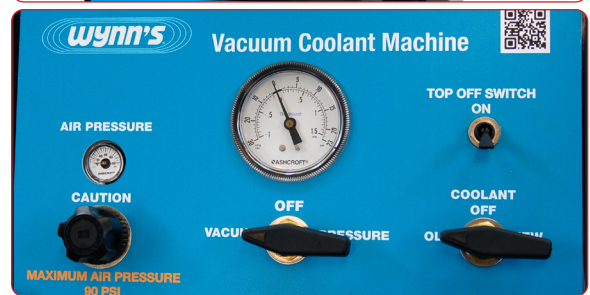


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Prepare the Machine (continued):

- Connect cone adapter with appropriate length tubing to service hose, so you can evacuate old coolant from overflow/remote reservoir.
- Set the coolant control knob to "Old" coolant and the vacuum/pressure control knob to "Vacuum".



Prepare the Cooling System for Service:

- The cone adapter can now be used to suction the overflow/remote reservoir.
- Carefully remove the radiator cap and suction 2 to 3 inches of coolant.
- Turn the vacuum/pressure control knob to "Off".



Prepare the Cooling System for Service (continued):

- Add cooling cleaning additive to cooling system.
- Start the engine.
- Set the heat to high and the blower to the lowest setting.
- With the radiator cap off, let engine idle 8-10 minutes after the thermostat opens.
- Shut off engine.





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Performing the Vacuum Service:

- Insert the cone adapter into the radiator/remote reservoir opening and push down.



Performing the Vacuum Service (continued):

- Set the coolant control knob to "Old" coolant and the vacuum/pressure control knob to "Vacuum".
- Coolant will begin to evacuate into the used coolant tube.
- It is normal for the vacuum to collapse the radiator hoses.



Performing the Vacuum Service (continued):

- When as much coolant as possible has been removed and the cone adapter is sealed in the radiator/remote reservoir, turn the coolant knob to "New" coolant.
- Coolant will begin to flow into the radiator and the radiator hoses will return to their normal shape.
- Turn all valves to the "Off" position, when the cooling system is full.



Performing the Vacuum Service (continued):

- Start engine and allow to reach operating temperature.
- Shut off engine.
- Repeat the vacuum service 2-3 times for maximum coolant exchange.





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Performing the Vacuum Service (continued):

- Add coolant additive to radiator/remote reservoir, not to overflow tank.
- Top off radiator/remote reservoir (if needed) and overflow reservoir with the "Top-off" nozzle and moving the "Top-off" switch to the "On" position.
- Turn all valves and switches "Off" when completed.
- Perform system air bleed if necessary.
- Allow vehicle to run; check for leaks, check for overheating.



Emptying the Old Coolant:

- Attach shop air hose to nipple on front of the machine.
- Place the service hose with cone adapter attached into an approved disposal container.
- Turn the coolant control knob to "Old" coolant.
- Turn the vacuum/pressure control knob to "Pressure".
- Turn "Off" all valves when the old coolant tube is empty.

