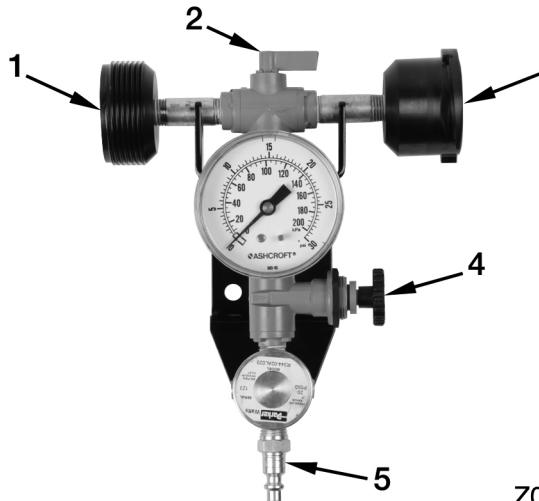


Tool Instruction Coolant Cap Pressure Test Tool Instructions

4328037R1

Tool Number: 09-040-01**Figure 1 Coolant Cap Pressure Test Tool 09-040-01**

- | | | |
|-------------------------------|-------------------------------|-----------------|
| 1. Screw-on style cap adapter | 3. Press-on style cap adapter | 5. Hose fitting |
| 2. Air distribution valve | 4. Pressure regulator knob | |

Purpose

The Coolant Cap Pressure Test Tool is used during cooling system diagnosis to test the ability of the coolant cap to hold pressure. The coolant cap is an important part of the cooling system and is often overlooked during diagnosis.

Application(s)

All current International® models

Tool Contents

Table 1 Coolant Cap Pressure Test Tool 09-040-01

Description	Part Number	Quantity
Coolant Cap Pressure Test Tool	09-040-01	1
Instruction Sheet	4328037R1	1

Tool Contents (cont.)



GOVERNMENT REGULATION: Engine fluids (oil, fuel, and coolant) may be a hazard to human health and the environment. Handle all fluids and other contaminated materials (e.g. filters, rags) in accordance with applicable regulations. Recycle or dispose of engine fluids, filters, and other contaminated materials according to applicable regulations.



WARNING: Read all safety instructions in the “Safety Information” section of the *Engine Service Manual* or *Engine Diagnostic Manual* to prevent personal injury or death.



WARNING: To prevent personal injury or death, shift transmission to park or neutral, set parking brake, and block wheels before doing diagnostic or service procedures.



WARNING: To prevent personal injury or death, allow engine to cool before draining coolant.

Instructions

Screw-on Style Coolant Cap



Z0016

Figure 2 Screw-on style coolant cap

Coolant Cap Pressure Test

1. Allow engine to cool and remove coolant cap from cooling system.
2. Turn air distribution valve to center (closed) position on the Coolant Cap Pressure Test Tool 09-040-01.
3. Install screw-on style coolant cap on correct adapter of the Coolant Cap Pressure Test Tool 09-040-01.

Instructions (cont.)

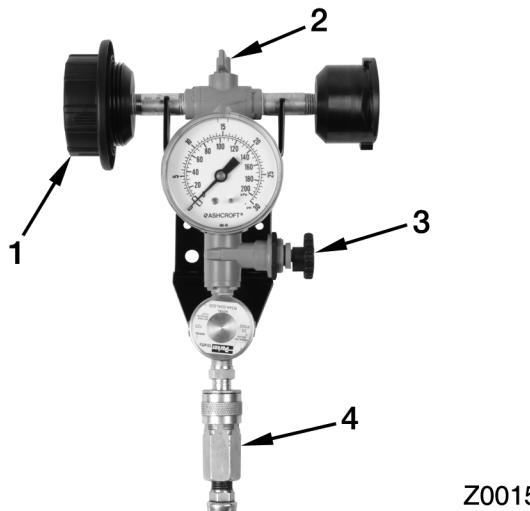


Figure 3 Screw-on style coolant cap on Coolant Cap Pressure Test Tool

- | | |
|-------------------------------|----------------------------|
| 1. Screw-on style coolant cap | 3. Pressure regulator knob |
| 2. Air distribution valve | 4. Shop air hose |
4. With air distribution valve closed, connect shop air hose to hose fitting on bottom of Coolant Cap Pressure Test Tool 09-040-01.
- CAUTION:** Do not exceed coolant cap manufacturer's pressure rating. Doing so could result in premature failure to coolant cap. If pressure is exceeded, replace coolant cap.
5. Turn pressure regulator knob counter clockwise until coolant cap manufacturer's specified pressure rating has been reached.
6. Slowly turn (open) air distribution valve towards the coolant cap.

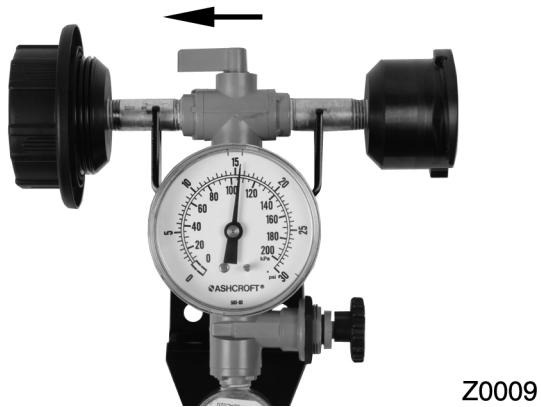


Figure 4 Air distribution valve open position

7. Close air distribution valve (center position). Monitor pressure regulator gauge for pressure decrease. If pressure drops rapidly, then replace coolant cap. If pressure stays at specified pressure, refer to *Engine Diagnostic Manual* for overheating diagnostic procedures.

Instructions (cont.)

Coolant Cap Removal from Tester

CAUTION: Do not remove coolant cap from tester while pressure is present. Damage to coolant cap or Coolant Cap Pressure Test Tool could occur.

1. Remove shop air hose from hose fitting on bottom of Coolant Cap Pressure Test Tool 09-040-01.
2. Turn pressure regulator knob clockwise until regulator is fully closed.
3. Slowly turn air distribution valve toward coolant cap to relieve stored pressure.
4. Remove coolant cap from coolant cap adapter.
5. Reinstall or replace coolant cap on the cooling system.

Press-on Style Coolant Cap



Z0013

Figure 5 Press-on style coolant cap

Coolant Cap Pressure Test

1. Allow engine to cool and remove coolant cap from cooling system.

Instructions (cont.)

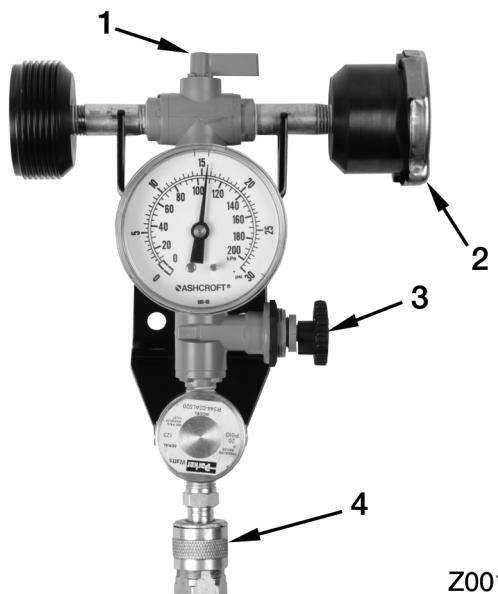


Figure 6 Press-on style coolant cap on Coolant Cap Pressure Test Tool 09-040-01

- 1. Air distribution valve
 - 2. Press-on style coolant cap
 - 3. Pressure regulator knob
 - 4. Shop air hose
-
- 2. Turn air distribution valve to center (closed) position on the Coolant Cap Pressure Test Tool 09-040-01.
 - 3. Install press-on style coolant cap on correct adapter of the Coolant Cap Pressure Test Tool 09-040-01.
 - 4. With air distribution valve closed, connect shop air hose to hose fitting on bottom of Coolant Cap Pressure Test Tool 09-040-01.

CAUTION: Do not exceed coolant cap manufacturer's pressure rating. Doing so could result in premature failure to coolant cap. If pressure is exceeded, replace coolant cap.

- 5. Turn pressure regulator knob counter clockwise until coolant cap manufacturer's specified pressure rating has been reached.
- 6. Slowly turn (open) air distribution valve towards the coolant cap.
- 7. Close air distribution valve (center position). Monitor pressure regulator gauge for pressure decrease. If pressure drops rapidly then replace coolant cap. If pressure stays at specified pressure, refer to *Engine Diagnostic Manual* for further overheating diagnostic procedures.

Coolant Cap Removal from Tester

CAUTION: Do not remove coolant cap from tester while pressure is present. Damage to coolant cap or Coolant Cap Pressure Test Tool could occur.

- 1. Remove shop air hose from hose fitting on bottom of Coolant Cap Pressure Test Tool 09-040-01.
- 2. Turn pressure regulator knob clockwise until regulator is fully closed.
- 3. Slowly turn air distribution valve toward coolant cap to relieve stored pressure.
- 4. Remove coolant cap from coolant cap adapter.
- 5. Reinstall or replace coolant cap on the cooling system.

Contact Information

For questions, concerns or feedback related to Service Tools:

Navistar Service Tool Support Center

Submit a Service Tool iKNOW Case File or call 1- 800-365-0088