

QUICK REFERENCE GUIDE - DRAIN

KL34000 COOLANT MANAGEMENT TOOL

⚠ WARNING! Coolant may be HOT. Follow vehicle manufacturer's instructions for removing cooling system cap.

⚠ CAUTION! Safety glasses must be worn when using this tool.

BEFORE PROCEEDING:

Thoroughly read the KL34000 Coolant Management Tool Instruction Manual before proceeding. If a known leak exists DO NOT pressurize the system. Follow the Gravity Drain instructions outlined in the KL34000 Manual.

DRAIN PROCEDURE:

1. Turn Tank Valve to DRAIN.
2. Attach hose to the quick connect fitting on the bottom of the cooling system.

NOTE: Consult the Instruction Manual for fitting installation.



Image 1: Step 1

3. Install the Cap Adapter (KL34008) on the surge tank and connect the Extension Hose to the Schraeder fitting.



Image 2: Step 3

4. Attach the Quick Connect Fitting of the Extension Hose to the Pressure Module.

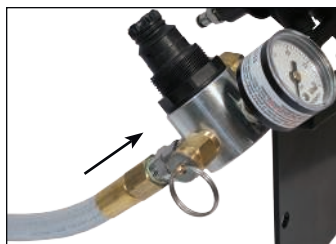


Image 3: Step 4

5. Connect CLEAN, DRY SHOP AIR to the 3-Way Air Valve and turn to DRAIN.
6. When finished draining system, close 3-Way Air Valve and make necessary repairs.



Image 4: Step 5

PRESSURE TEST PROCEDURE:

1. Set Tank Valve to the CLOSED position.

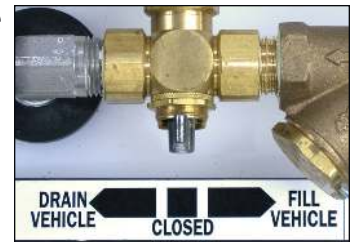


Image 5: Step 1

2. Turn the 3-Way Air Valve to DRAIN and monitor the Pressure Module until gauge stabilizes.



Image 6: Step 2

3. Close the 3-Way Air Valve. System is now pressurized with air. Take note of the gauge reading and check for pressure decay. If no decay is detected, continue the procedure. If decay is evident, locate and repair leak.



Image 7: Step 3

4. Turn the Tank Valve to DRAIN to vent air.

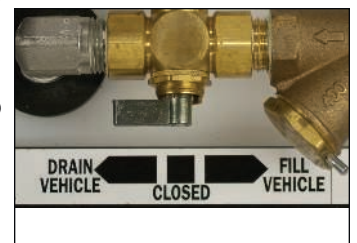


Image 8: Step 4

QUICK REFERENCE GUIDE - FILL

KL34000 COOLANT MANAGEMENT TOOL

⚠ WARNING! Coolant may be HOT. Follow vehicle manufacturer's instructions for removing cooling system cap.

⚠ CAUTION! Safety glasses must be worn when using this tool.

FILL/VACUUM PROCEDURE:

1. Set the Tank Valve to the CLOSED position

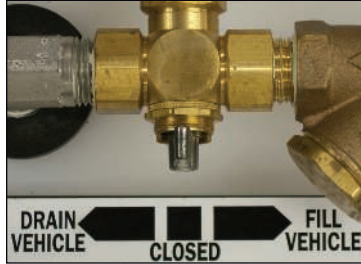


Image 1: Step 1

2. Disconnect Extension Hose from the Pressure Module and attach to the Vacuum Module.

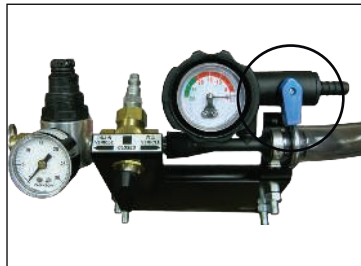


Image 2: Step 3

3. Turn the Blue Vent Valve to the CLOSED position and attach CLEAN, DRY SHOP AIR.

NOTE: Clear Exhaust Hose must be directed to an appropriate location because air and coolant mist will exit hose.

4. Turn the 3-Way Air Valve to FILL VEHICLE.

5. Allow the Vacuum to draw 20"-25"hg on the cooling system.



Image 3: Steps 4-5

NOTE: Some engine manufacturers do not permit this depth of vacuum on the cooling system. Check with the engine manufacturer before drawing vacuum into the green zone.

6. Once Vacuum Module reaches the green zone, set Tank Valve to FILL position.

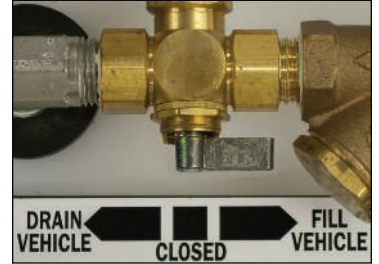


Image 4: Step 6

7. Watch coolant level in Storage Tank. When the Tank is nearly empty turn both the Tank Valve and the 3-Way Air Valve to the CLOSED position.

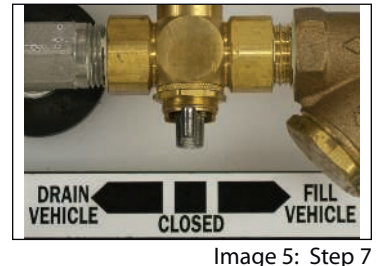


Image 5: Step 7

IMPORTANT: Never allow the storage tank to completely empty and thereby allowing air to enter the cooling system.

8. Open Blue Vent Valve to release vacuum. Disconnect the KL34010 Hose and remove the KL34008 Cap Adapter.

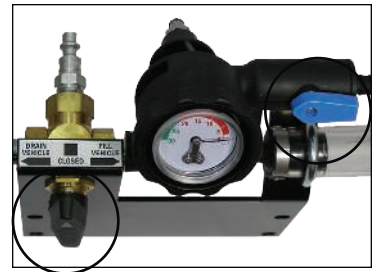


Image 6: Steps 7-8

9. Add coolant and fill to proper level. Replace surge tank cap.

PART #	DESCRIPTION	QTY
KL34001	20 Gal Tank and Cart Assembly	1
KL34008	Radiator Cap Adapter Kit	1
KL34009	Pres./Vac. Module Handle Unit	1
KL34010	15' Clear Hose Assembly	1

* Refer to TMC RP353 or ISO 16028 to determine if a male quick-connect fitting is needed to replace the coolant drain petcock.

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