



Worldwide Sales since 1957

AW Dynamometer, Inc.
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ENGINE COOLING COLUMN OPERATION MANUAL

OPERATIONAL STEPS FOR ENGINE COOLING COLUMN

- 1 Secure all water hosing
WARNING: Hot engine coolant can cause operator injury, make sure all water lines are secure and tightened.
- 2 Fill cooling column & engine jacket
Steps:
 1. **Manual Drain Valve Status:** Close the valve
 2. **Bleed Valve Status:** Open the valve
 3. **Manual Fill Status:** Open the valve
 4. **Bleed Valve Status:** When water overfills and exits out the Bleed Valve, Close the Bleed Valve
- 3 Start the engine
- 4 Run the engine at idle until all air is vented through the Bleed Valve
- 5 When all air is bled through the system complete the following steps:
 1. **Manual Fill Valve Status:** Close the Valve
 2. **Bleed Valve Status:** Close the Valve
- 6 Engine warm-up operation
 1. **Engine Throttle & Engine Load:** Continue onward to revving up the engine throttle, apply a very light load to the engine
 2. **Temperature Control Valve:** If necessary, adjust water coolant temperature setting on temperature control valve
 3. **Pressure Control Valve:** If necessary, adjust the water coolant pressure setting on the pressure control valve
- 7 Run engine under load
- 6 End of test
 1. **Bleed Valve Status:** Open the valve
 2. **Manual Drain Valve Status:** Open the valve
 3. Let the coolant fluid drain from the engine and all coolant lines
 4. If necessary, engine coolant lines can now be removed from engine

NOTE: GPM REQUIREMENT PER 100 HP IS AT AROUND 3.4 TO 3.6 GPM... GPM = 4.0 X HP / DELTA T



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