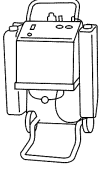
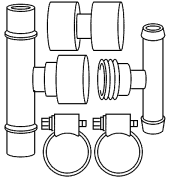
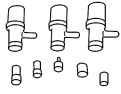


## GENERAL PROCEDURES


### Engine and Radiator Flushing

#### Special Tool(s)

 <p>ST2421-A</p>	Coolant System Drain/Flush/Fill 164-R3673 or equivalent
 <p>ST1168-A</p>	Flush Kit 164-R3658 or equivalent
 <p>ST1167-A</p>	Drain Kit 164-R3662 or equivalent

#### Material

Item	Specification
Premium Cooling System Flush VC-1	ESR-M14P7-A
Motorcraft Premium Gold Engine Coolant VC-7-A (in California, Oregon and New Mexico VC-7-B, in Canada CVC-7-A) or equivalent (yellow color)	WSS-M97B51-A1

1.  **WARNING:** Never remove the pressure relief cap while the engine is operating or when the cooling system is hot. Failure to follow these instructions can result in damage to the cooling system or engine or personal injury. To avoid having scalding hot coolant or steam blow out of the degas bottle when removing the pressure relief cap, wait until the engine has cooled, then wrap a thick cloth around the pressure relief cap and turn it slowly. Step back while the pressure is released from the cooling system. When you are sure all the pressure has been released, turn and remove the pressure relief cap (still with a cloth).

Once pressure is released, remove the pressure relief cap/radiator cap.

2. Drain the cooling system. For additional information, refer to Cooling System Draining, Filling and Bleeding in this section.
3. Remove the coolant thermostat. For additional information, refer to Thermostat and Thermostat Housing — Exploded View, Thermostat — 4.0L SOHC or Thermostat — 4.6L (3V) in this section.
4. Install the coolant hose connection without the thermostat.
5. **NOTE:** Refer to the cooling system flusher manufacturer's operating instructions for specific vehicle hook-up.  
Using an appropriate cooling system flusher, flush the engine and radiator.  
Use Premium Cooling System Flush VC-1 or equivalent meeting Ford specification ESR-M14P7-A. Always flush the cooling system with water thoroughly after using the VC-1 flush and prior to filling the cooling system with the same coolant that was present in the system. Do not mix coolant types.
6. Install the thermostat. For additional information, refer to Thermostat and Thermostat Housing — Exploded View and Thermostat — 4.0L SOHC or Thermostat — 4.6L (3V) in this section.

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**GENERAL PROCEDURES (Continued)**

7. Backflush the heater core. For additional information, refer to Heater Core Backflushing in this section.
  8. Fill and bleed the cooling system. For additional information, refer to Cooling System Draining, Filling and Bleeding in this section.
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