Supercharger Cooling

NOTICE: **The Supercharger (SC) cooling system is filled with Motorcraft Premium Gold Engine Coolant. Mixing coolant types degrades the corrosion protection of Motorcraft Premium Gold Engine Coolant.**

NOTE: The air charge that exits the Supercharger (SC) is cooled by the SC cooling system.

The SC cooling system components include the:

- Charge Air Cooler (CAC).
- radiator.
- pressure relief cap.
- degas bottle.
- electric coolant pump.

The degas bottle:

- provides a location for system fill.
- contains coolant expansion and system pressurization.
- provides air separation during operation.
- replenishes the coolant to the system.

The coolant flows:

- from the CAC to the degas bottle.
- from the degas bottle to the coolant pump.
- from the coolant pump to the radiator.
- from the radiator to the CAC .

Coolant provides freeze protection, boil protection, cooling efficiency and corrosion protection to the SC cooling system components. In order to obtain these protections, the coolant must be maintained at the correct concentration and fluid level in the degas bottle.

When adding coolant, use a 50/50 mixture of coolant and clean, drinkable water.

To maintain the integrity of the coolant and the cooling system:

- Add Motorcraft Premium Gold Engine Coolant or equivalent meeting Ford specification WSS-M97B51-A1 (yellow color). Use the same coolant that was drained from the cooling system. Do not mix coolant types.
- Do not add/mix orange-colored Motorcraft Speciality Orange Engine Coolant or equivalent meeting Ford specification WSS-M97B44-D. Mixing coolants may degrade the coolant's corrosion protection.
- Do not add alcohol, methanol, brine or any engine coolants mixed with alcohol or methanol antifreeze. These can cause engine damage from overheating or freezing.
- Do not mix with recycled coolant unless it meets the requirements of Ford specification or WSS-M97B51-A1. Not all coolant recycling processes meet these Ford specifications. Use of such coolants can harm the engine and cooling system components.