

CAPRI THERMOSTATIC AIR CLEANER

Capri

1600 cc Engine (1970-72)

2000 cc Engine (1972-73)

2600 cc Engine (1972-73)

DESCRIPTION

Air cleaner and heat stove assembly is designed to provide intake air at a temperature between 90-100°F during normal operation. Air cleaner incorporates a duct and valve assembly which consists of a metal box and two air inlets. One inlet is for cold air intake and the other is for hot air from a heat stove around the exhaust manifold. A spring loaded flap is enclosed in air cleaner housing and a thermostatic bulb is connected (through a spring linkage) to the flap. No vacuum motor is used.

OPERATION

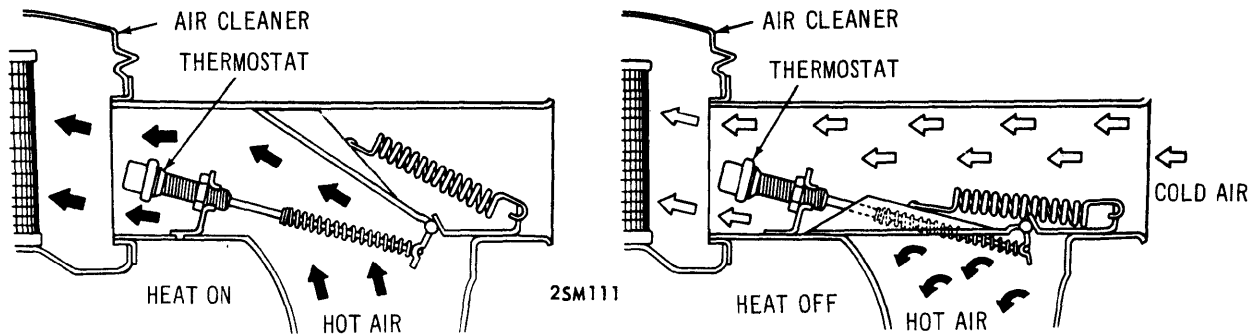
During engine warm up, air is drawn through hot air intake over the thermostatic bulb and into the air cleaner. When this air heats up to approximately 90°F the thermostatic bulb expands and begins to close flap valve. This allows air from cold air intake (engine compartment air) to enter duct and valve assembly and mix with the hot air. When temperature increases, the valve plate will continue to close and will completely shut off the hot air intake if the underhood temperature reaches 110°F.

SERVICE PROCEDURES

Thermostatic Bulb – With engine cold and underhood temperature of 85°F or less, flap valve should be open (shutting off cold air intake). If not open, check for malfunction of valve. If trouble does not lie in the valve and duct assembly, remove assembly and immerse in water so that thermostatic bulb is completely covered. Raise water temperature to 85°F (allow 5 minutes to stabilize temperature) and check that valve is in open position. Increase water temperature to 110°F (allow another 5 minutes to stabilize temperature) and check that valve is in closed position. If unit does not meet these requirements, and no binding or mechanical damage is noted, the thermostatic bulb should be replaced.

NOTE – On 2600 cc V6 engines, testing procedures are the same, but the system should maintain the flap in the heat on position up to 100°F and should be in heat off position at temperature of 135°F.

Service Intervals – System and components should be inspected and checked for proper operation every 12,000 miles. Air cleaner element should be replaced every 12,000 miles.



2600 cc V6 DUCT & VALVE ASSEMBLY (OTHERS SIMILAR)