

BMW THERMOSTATIC AIR CLEANER

2002 (1973)
 Bavaria (1973)
 3.0 (1973)

DESCRIPTION

Carburetor air temperature is regulated by a preheater valve which permits either heated or unheated air to flow to carburetor, heated air in temperatures below 50° F (4 Cyl.), 59° F (6 Cyl.) and unheated air in temperatures above.

OPERATION

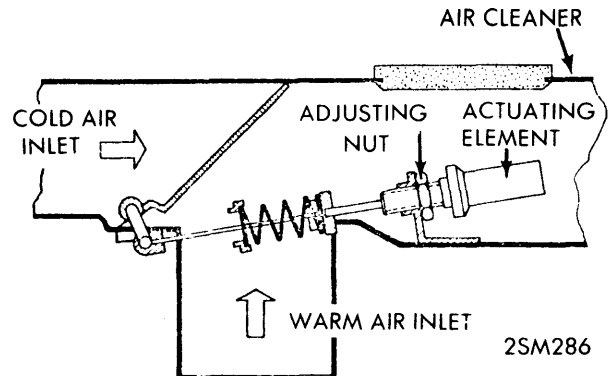
4 Cylinder Models – When temperatures stay above 50°F the preheater butterfly valve is locked in an open position, which prevents heated air from going to air cleaner. Where temperatures fall below 50°F the butterfly valve is in an unlocked position permitting a bi-metal spring to control position of valve. Either heated or unheated air may be drawn in, depending on temperature of bi-metal spring. **WARNING** – Temperatures above 50°F butterfly valve should be in locked position to prevent possible piston seizure.

6 Cylinder Models – A thermostatically controlled actuating element, located in air cleaner, controls warm air or cold air to carburetor. When temperature reaches 59°F actuating element moves control flap from warm air intake to cold air intake.

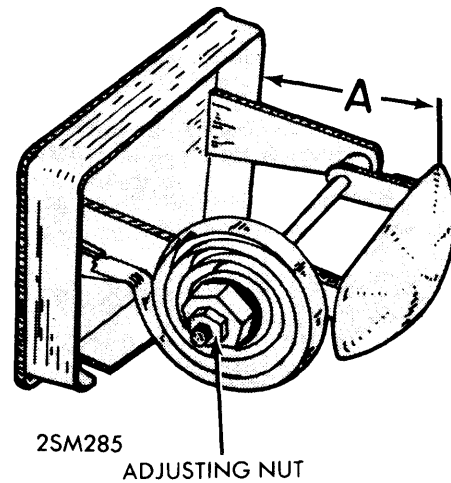
ADJUSTMENTS

4 Cylinder Models – Loosen lock nut, set butterfly valve to 2.36 inches measured at "A" (See Illustration), retighten lock nut.

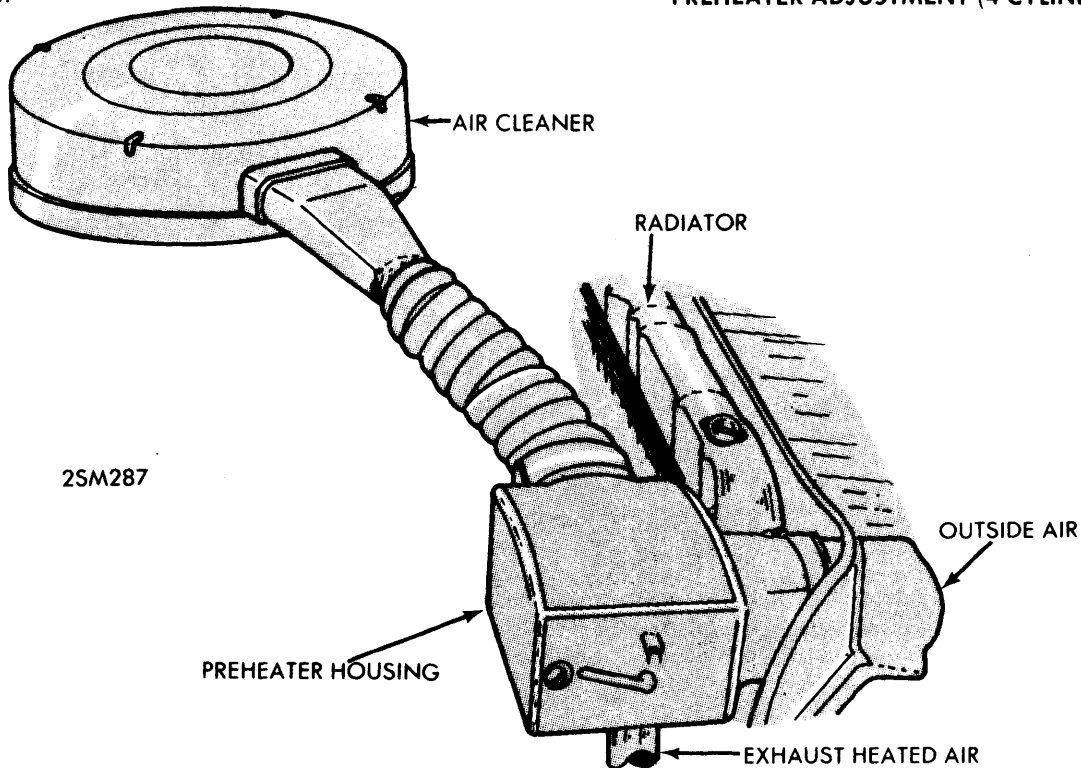
6 Cylinder Models – Adjust flap by placing cold air stub and actuating element in water bath at 59°F for approximately five minutes, flap should just touch its upper stop. Loosen adjusting nut and move element until flap touches stop, retighten nut.



PREHEATER ADJUSTMENT (6 CYLINDER)



PREHEATER ADJUSTMENT (4 CYLINDER)



CARBURETOR PREHEATER SYSTEM (4 CYLINDER)